#8. California Coast.

Dr. 4500 to Dr. 4548.

Hy.

May 19th to June 7th, 1904.

No. 8

Dr. 4450
Dy. 4499

4499
May 10th-04 4437 Monterey
62

4503
4303
200 dredge hauls since commencement.

4545
4303
242

12" Butterfly No 10 Silk
6" Butterfly No 20 Silk

3609 - 143

n 8

Hy 4799
Dr 4450

		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. H.W.R.

No. D. 4500 Date May 19 1904

Tanner Machine. Reel.

Turns 14 Cor. + 0 Depth 14 fms

~~Shot or~~ lead 26 lbs

Bottom fne gy hrd S

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 53° Surface 53 Drift

Trawl ~~or dredge~~ 8 Tanner 3 weights 2 floaters 26 ft lead winds + Preventer Guy

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. A	M UP.		DOWN. A	M UP.
9.46.00	✓	0	9.47	10.11.30
		25 ~~100~~	9.49 ✓	10.09.00
Intermediate Soundgs		200		
		300	Time out	20 m
9.52.00	13+0 = 13 fms	400		
9.58.00	13+0 = 13 "	500		
10.03.00	13+0 = 13 "	600		
10.08.00	12+0 = 12 "	✓ 700		
		800		
		900		
		1000	Gen'l Character	
		1100	of Bottom	
		1200		
		1300	Hard Sand	
		1400	small hard	
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

Fog too dense to take bearings or angles —

Dredg Course E S E 1/2 E		2500		
		2600		
Bar 30.01" Therm 60°	see log	2700		
		2800		
Foggy		2900		
Calm		3000		
"		3100		
Very thick fog		3200		
" Calm and "		3300		
" mod swell "		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200	2 Butterfly nets 12" No 10 silk			
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507. H.W.R.

No. Dr 4501 Date May 19. 1904

Tanner Machine. Reel. Tanner

Turns 12 Cor. + 0 Depth 12 fms

~~Shot or~~ lead 26 lbs

Bottom hrd crs S.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 53° Surface 53° Drift

Trawl ~~or dredge~~ 8' Tanner as before but no tailing but 2 tangles attail 3 wing nets

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. A M	UP.		DOWN. A M	UP.
10.17.00	✓	0	10.17.00	40-
		~~100~~	10.18.00	10.38.00
Intermediate Soundings		20 ~~200~~		✓
10.22.00	12+0=12 fms	300	Time 20 min.	
10.27.00-12+0 = 12 "		400		
10.33.00-11+0 = 11 "		500		
10.37.00-11+0 = 11 fms		✓ 600		
		700		
		800		
		900		
		1000		
		1100	Gurl Character of	
		1200	Bottom	
		1300	Hard Sand	
		1400	very little in trawl	
		1500	many specimens	
		1600	Came up on tangles	
		1700	and butter fly nets	
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

Dredging Course
~~E S E 1/2 E~~
Bar 30.00
Therm. att 61°
Thick Fog
Calm

Tanner Trawl this time fitted with 2 wingnets 2 tangles and bar at tail, 2 butterfly wingnets 2 runner weights and preventer guy

see ship's log

Dense Fog obscuring all marks or △, ⊙ etc, etc

2500		
2600		
2700		
2800		
2900		
3000		
3100		
3200		
3300		
3400	(No. 10 butterfly silk-nets)	
3500		
3600		
3700		
3800		
3900		
4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200	Butterfly nets		12°	No 10 silk
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507 HWR

No. Dr 4502 Date May 19 - 1904

Tanner Machine. Reel.

Turns 11 Cor. + 0 Depth 11 fms

~~Shot or~~ lead 26 lbs

Bottom hrd S

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 53° Surface 53 Drift

Trawl or dredge 8' Tanner 2 butterflies, 1 tangle bar with 2 tangle & 2 tanner weights

SOUNDING WIRE. DOWN. A	M UP.	TURNS.	DREDGE ROPE. DOWN. A	M UP.
10.47.00	10.48.00 ✓	0	10.47.00	11.13
		~~100~~ 20	10.49.00 ✓	11.11.30
Interm Soundings		~~200~~		
10.53.00	10+0 = 10 fms	300	Time out	22½ m
10.58.00	10+0 = 10 "	400		
11.03.00	10+0 = 10 "	500	water haul	
11.08.00	9+0 = 9 "	600		
11.12.00	9+0 = 9 " ✓	700		
		800		
		900		
		1000		
		1100		
		1200		
		1300	Grill Cleaned & Bottom	
		1400		
		1500	Hard sandy	
		1600	bottom	
		1700	barren	✓
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

Dredg Course
E S E 1/2 E
Bar 29.99 "
Therm at 61°
Thick fog } as before
etc
whale and whalebirds
within 100 yrds of ship
off Starboard beam
11.04 fog again
clearing to E'd
11.10 Lighting more to
E'd

2500	1 11.13.00	a.m.
2600	Bluff bears	N by W 1/4 W
2700	2 11 – 20.	50
2800		
2900	Bluff	N by W 1/8 W
3000	Tank	E S E 5/8 E
3100		
3200	2 this marks	
3300	end of line	
3400	Dr 4	502
3500	11.25.	02
3600	Bluff bears	N 7/8 W
3700	Tank to Bluff	115°27'00"
3800	Bearings 11 –	47.00
3900	Bluff	N by E 3/4 E
4000	Soucal	W 7/8 N

Captains order

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Course	W N W 1/2 W		11.46
100	ahead at			
200				
300	Butterfly nets		12"	No 10 silk
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.

H.W.R. Arctic

No. Dr 4503 Date May 19, 1904

Tanner Machine. Reel.

Turns 7 Cor. + 0 Depth 7 fms.

Shot or lead 26 lbs

Bottom sdy.

Bottom temperature —

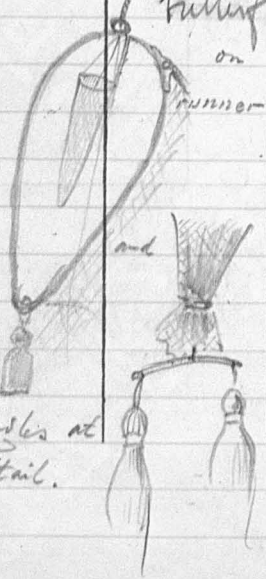
No. of thermometer — Cor.

Corrected temperature —

Air 63° Surface 57° Drift

Trawl ~~or dredge~~ 8' Tr., 2 wing nets, 2 floats, preventer guy, 2 Butterflies, 2 tangles.

pm. SOUNDING WIRE. DOWN.	UP.	TURNS.	pm. DREDGE ROPE. DOWN.	UP.
1.01.00		0	1.04.00	1.29.00
		~~100~~ 20	1.06.00	1.28.00
Inter. Sdgs.		200	= 22 min.	
1.05 –	8 fms.	300		
1.16 –	8 "	400		
1.21 –	8 "	500	Geol. character	
		600	of Bottom.	
		700	good haul.	
		800	good bottom.	
		900		
		1000	Beam of trawl	
		1100	bent & net torn	
		1200	slightly.	
		1300		
Showing		1400		
	butterfly	1500	net (6") No 20 silk	
	on	1600	the other is a	
	runner	1700	12" No 10 silk –	
		1800		
		1900		
	and	2000		
		2100		
		2200		
		2300		
Tangles at tail.		2400		



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Dredg Course
E S E ½ E

Ship stead W N W ½ W
11.33 Bluff N ⅛ E
11.35. 10. A.M.

		2500		
		2600	Bearing Bluff	N ⅜ E
1 Bar 29.96		2700	Tank to Bluff	102° 30'
Therm att 62°	Ship W N W ½ W	2800	Taken as beginning of new line, not run	
		2900		
Light airs from S^d	11.35	3000		
Swell from W^d		3100		
Clearing, misty & foggy		3200		
		3300	Dr. 4503.	
Dr. Course,	E S E ½ E.	3400	Position, 1.04.00	
Clear, hazy horizon.		3500	Sanguel ⊙	S W by W ⅝ W
Gentle breeze,	S.W.	3600	Sang. wharf	N W ¼ N
Sea, smooth.		3700		1.18.30
Bar. 29.95		3800	Wharf	N W x W ⅛ W
Therm. att. 62		3900	Sequel ⊙	W S W ⅜ W
Numerous gulls and other birds.		4000	Bluff	E ½ S.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Kofoid as Surf. Tow.		Sogo.	W S W ¾ W
50	1.10 –	1.20 = 10 min.	Wharf	N W x W ⅜ W.
100	1.19 –	1.31 = 12 "	Bluff	E ⅝ S.
200		22		
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Apparatus: 8' Tur. with runner-weights, 2 floats and preventer guy; a 6" No 20 silk ~~Kofoid~~ Butterfly on bow-bolt (bridle bolt) of outer runner; a 12" No 10 "Butterfly" on bridle bolt of inner runner; 2 tangles on bar fastened to tail of net. See sketch on opposite page.

507.

Arrival

No. Dr. 4504. Date 19 May, 1904.

Tanner Machine. Reel.

Turns 10 Cor. + 0 Depth 10 fms.

~~Shot or~~ lead 26 ft

Bottom sandy

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature

Air 63° Surface 57° Drift

Trawl ~~or dredge~~ 8' Tnr. as before, with bent beam.

pm. SOUNDING WIRE.		TURNS.	pm. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.39.	✓	0	1.38.30	1.55.00
		~~100~~ 18	1.40.00	1.54.10
Inter.	Sdgs.	200	= 14 min.	
1.42 —	10 fms	300		
1.47 —	10 "	400	gen. character	
1.51 —	10 "	500	of Bottom:	
		600		
		700	hard sand.	
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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		2500		
		2600		
		2700		
		2800		
Dr. Course, ESE 1/2 E		2900	Position: 1.39 p.	
Clear, hazy horizon.		3000	Sazeel –	WSW 7/8 W
Gentle breeze fr. SW.		3100	Wharf –	NW x W 1/2 W.
Sea, smooth.		3200	Bluff –	E 3/8 S
Bar. 29.95		3300		1.54.30
Ther. att. 62°		3400	Tank – Bluff	22°25'
Several gulls around.		3500	Bluff –	E 1/4 S.
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Profond as Surf. Tow =			
50	1.39. – 1.44 = 5 min.			
100	1.47. – 1.55 = 8 min.			
200		13 m		
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.

Amsy

No. Dr. 4505. Date 19 May, 1904.

Tanner Machine. Reel.

Turns 10 Cor. + 0 Depth 10 fms.

~~Shot or~~ lead 26 ft

Bottom sandy.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 57° Surface 57° Drift.

Trawl ~~or dredge~~ 16' Tanner filled as last apparatus, but tail rot instead of turn [illegible]

pm. SOUNDING WIRE. DOWN.	UP.	TURNS.	pm. DREDGE ROPE. DOWN.	UP.
2.00	✓	0	2.02	2.26.00
		~~100~~ 18	2.04 ✓	2.25.00
Inter. Sdgs.		200		= 21 min
2.06 – 10 fms.		300		
2.12 – 10 "		400		
2.17 – 10 "		500		
2.22 – 10 " ✓		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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		2500		
		2600		
		2700		
		2800		
Dr. course, ESE½E		2900	Position.	
Clear, hazy horizon.		3000	2.02.55	
Gentle breeze, S.W.		3100	Tank-Bluff	24°24'
Smooth Sea.		3200	Bluff	E⅛S.
Bar. 29.93		3300		2.18.00
Therm. att. 64°		3400	Tank-Bluff	28° 30'
Several gulls about		3500	Bluff.	East.
		3600		2.28.
		3700	End new Tr Lap to Bluff	35°40'
		3800		
		3900	Tank-Bluff	31°32'
		4000	Bluff.	E¼N

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Kofoid as Surf. Tow:			
50	2.00 –	2.10 = 10 min.		
100	2.15 –	2.25 = 10 "		
200		20 m		
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.

Fr/ri/ti/

No. Dr. 4506 Date 19 May 1904.

Tanner Machine. Reel.

Turns 9 Cor. + 0 Depth 9 fms.

~~Shot or~~ lead 26 ft

Bottom sandy.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 59° Surface 57° Drift

Trawl ~~or dredge~~ 16' Tur. as before

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2.36.		0	2.38.00	3.00.00
		100	2.40.00	2.59.00
		200		
		300	= 19 min.	
Inter. Sys.		400		
2.43 – 9 fms.		500	genl. character	
47 – 8 "		600	of Bottom:	
52. – 9 "		700		
57. – 8 "		800	hard sand	
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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		2500		
		2600		
		2700		
		2800		
Sr. Course, ESE½E.		2900	Position:	
all remarks as before.		3000	~~Tank - SExE½E~~	2.38.08
		3100	End new W. - B.	45°41'
		3200	Tank - Bluff	40°40'
		3300	Bluff -	ExN.
		3400	Tank -	SExE½E.
		3500		2.49.50
		3600	End new Wh. to B.	59°00'
		3700	Tank to Bluff	53°34'
		3800	Bluff. -	NExE⅞E
		3900	Tank -	SExE¼E.
		4000		

2.59.00

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Profile as Surf. Tow.		End of Wh. to Bluff	75°07' C.
50			Tank - Bluff.	69°16' W
100	2.36 -	2.46 = 10 min	Bluff.	NE⅝E. H.
200	2.49 -	2.59 = 10 "		
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

501 H.W.R. Fog whistles { 51 - 54 - 57 - 2 - 9.00 - 9.03 Fwd / 9.06 - 09 - 13 - 9.15 - 9.18 - 9.21 - 9.24 Fwd }

No. Dr 4507. Date May 20 '04

Sigsbee Machine. Reel. Navy Type No. 1

Turns 285 Cor. + 23 Depth 308 fms

~~Shot~~ or lead 36 lbs

Bottom gr M

Bottom temperature — 44.9° at 10.02

No. of thermometer — 98246 Cor.

Corrected temperature

Air 50° Surface 54° Drift

Trawl ~~or dredge~~ 10' Plate Length 8 ft 6 in, 5 ft 6 in wide, 20 ft long, 2 floats, 1 ft 8 in

SOUNDING WIRE. DOWN.	A.M. UP.	TURNS.	DREDGE ROPE. DOWN.	A.M. UP.
9.02.00 ✓	9.08.00	0	9.10.00	10.24.00
		100	9.15.30	10.18.30
Intermediate Sounding		200	9.20.15	10.14.30
9.16.00 = 320 + 26 = 346 fms		300	9.24.35	10.10.00
9.29.00 = 355 + 28 = 383 " ✓		400	9.29.00	10.05.30
9.42.00 = 324 + 26 = 350 "		450	9.30.30	
9.54.00 = 321 + 26 = 347 "		500	~~9.33.00~~	10.00.00
10.02 bg 44.9° Temperature		600	time out 27m 30s	
and gr M		700	Gen'l Character of Bottom	
Large Surface Tow Net,		800		
over 9.02 A.M. } 33m. (I)		900		
in at 9.35 "		1000	Hard bottom,	
found silkling of this surface net cut out ✓		1100	good hard	
		1200	ground	
substituted another surface tow net of regular shape &		1300		
out again at 9.46 (II)		1400		
in at 10.12		1500	9.51.00 Kofoid	
time out	26m.	1600 ✓	pulled as surface tow net	
Trawl came up with		1700	inside of the large one	
floaters on outside		1800	in at 10.01.30	
of net, lower lanyard		1900	time out 10½ m	
of floaters having		2000		
carried away		2100		
		2200		
		2300		
		2400		

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9.27 - ~~9.30~~ - ~~9.33~~ - ~~9.36~~ } Fog signals of 5 secs duration
End ~~39~~ - ~~42~~ - ~~45~~ - ~~48~~ - 51 - 54 - 57 } blown at intermissions of 3 min.
9.27 last one blown

Dr Course		2500		
N.E. & E. 1/2 E.		2600	Pad Log in at 9.00 reading 62.9	
Bar 30.04"		2700		
Therm atte	56° (correct)	2800		
Variable airs & calm		2900		
Smooth Sea, Gentle swell from Westward		3000		
Dense Fog, lighting up overhead		3100		
No birds in sight		3200		
		3300		
butterfly outboard		3400		
		3500		
" moderate Swell "		3600		
" Calm " (Capt)		3700		
" Smooth sea " 9.00 am		3800		
" C - 1/2 "	(Accumulator down one half)	3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Kofoid Dip-Nets	over at 10.03 to a depth of 100 fms		
50	when a	was put on		
100	second net	on at 10.09 down to 100 fms more		
200	when another third net was put on at 10.13			
300	bringing the first to 300 fms			10.41 ✓
400	second to 200 "			10.32 ✓
500	and last to 100 fms up			10.22 ✓
600	respectively — Started hearing in at			
700	10.18 a.m., delayed by fouling and			
800	having tended across under bow. bottom of ship			
900 net	to starboard. Back in board at 10.41 ✓			
1000				

REMARKS:

Delay caused by hauling in vertical (Kofoid dip) Nets.

H.W.R. 507.

No. Dr 4508 Date May 20, 04

Sigsbee Machine. Reel. Navy Type: 1

Turns 330 Cor. + 26 Depth 356 fms

~~Shot~~ or lead 36 lbs

Bottom eft gn M.

Bottom temperature see ~~Second~~ Third intermediate (44.9°)

No. of thermometer 98246 Cor.

Corrected temperature

Air 50° Surface 54° Drift

Trawl ~~or dredge~~ 10' Blake esly with 1 tan on outgoing rumpiness

SOUNDING WIRE. DOWN. A	SOUNDING WIRE. UP. M	TURNS.	DREDGE ROPE. DOWN. A.	DREDGE ROPE. UP. M.
10, 46, 00	10, 50, 00	0	10 51, 00	11. 54. 00
		50	" 53. 30	11. 51. 30
		100	10 56. 00	11. 49. 50
		150	" 58. 00	
Intermed. Soundings		200	11. 00. 30	11. 46. 00
		250	11. 02. 30	
11. 02. 00 = 270 + 22 = 292 fms		300	11 04. 30	11. 40. 30
		350	11 06. 00	11. 36. 00
11. 13. 00 = 272 + 22 = 294 "		400	11. 08. 00	11. 31. 00
Harmon distor work		500		
11. 20. 00 = 281 + 22 = 303 "			Time 23 m.	
44.9° Temperature		600		
		700	11.33 big strain on Accum rendering utmost care necessary	
		800		
		900	Trawl came up, not torn down the side wing quite full of mud	
		1000		
		1100		
Surface Tow Net, K' strips		1200	Gen'l Character of Bottom	
over at 10.54 } 40 m. out.		1300	" Very soft mud "	
in at 11.34		1400		
		1500	"trawl came up"	
		1600	"torn, spread"	
Repeated as another inside surface tow net over at 10.55 } 36 m. out		1700	"specimens? though"	
in at 11.31		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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Dr Course E 1/2 S.		2500	11.40.00 A.M. Bearing of Salinas Δ	E 3/4 S
		2600		
Bar 29.98"	sea fog	2700	11.50 thick fog	
Therm 61°		2800	closed in again from	
Clearing overhead		2900	Westward	
Smooth sea with		3000		
long gentle swell from	W	3100		
10.45 breeze springing up		3200		
from WSW force 1-2		3300		
2 porpoises				
turtle on starboard side		3400		
		3500		
"C : 1/2"		3600		
		3700		
		3800		
		3900		
at 11.55	course W	4000		

slow ahead both engines

SERIAL TEMPERATURES.

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

Not badly torn

REMARKS:

507.

Fmki

No. Dr. 4509. Date 20 May 1904.

Sigsbee Machine. Reel. 1 Navy

Turns 265 Cor. + 21 Depth 286 fms.

~~Shot or~~ lead 35#

Bottom Sy. M.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 57° Surface 55° Drift

Trawl ~~or dredge~~ 8' Tnr. prevtr gy. 2 floats rnr + tl wts. 12" + 6" Btrfls.

P.m. SOUNDING WIRE. DOWN.	UP.	TURNS.	P.m. DREDGE ROPE. DOWN.	UP.
1.06		0	1.09.30	1.57.50
Inter. Sdys. N.G.		100	14.30	54.00
~~1.20~~	~~329 fms.~~	200	18.20	48.30
1.30 —	152 "	300	22.30	39.00
Net came up badly		400	26.50	~~32.45~~
torn, but with lots of mud.		425 500	1.27.40	~~1.30.00~~
Men in dory worked cargo-		600	At 1.30 11 min Accumulator	
net under load and the whole		700	showed that net was caught	
was hoisted aboard at 2.05.		800	on bottom, and have in under	
12" Butterfly also torn		900	heavy strain (C = 1/2)	
some.		1000	Trawling about 11 min;	
		1100	then backed to get net up.	
		1200	Genl. character	
		1300	of Bottom:	
		1400	very soft mud,	
		1500	big, fair haul.	
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500		
		2600		
		2700		
		2800		
Dr. Course, E by S.		2900	Position:	
Clear; hazy horizon.		3000	~~No bearings on afterage.~~	
Lt. breeze, from W.S.W.		3100	Sabines –	E x S.
Smooth Sea.		3200	Mass Ldg –	NW x W.
Bar. 29.96		3300	at end of station	
Therm. at. 62°		3400	Dr. 4509.	
A dozen porpoises in wake of ship.		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Refish as Surf Tow.				
25				
50	1.25 – 1.35 = 10 min.			
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.

Arnkil

No. Dr. 4510. Date 20 May 1904

Sigsbee Machine. Reel. #1 Navy

Turns 170 Cor. + 14 Depth 184 fms

~~Shot or~~ lead 35 ℔

Bottom gy M.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 54 Surface 55 Drift

Trawl ~~or dredge~~ 9' Tnr. 2 floats, wings & tl vrts., 6" & 12" B tr fls, prev.

pm. SOUNDING WIRE. DOWN.	UP.	TURNS.	pm. DREDGE ROPE. DOWN.	UP.
2.25.00	✓	0	2.30.00	2.59.00
		100	2.35.00	53.40
Inter.	S dys.	200	2.39.00	2.49.40
2.35 —	.156 fms. ✓	300	= ✓	min.
2.40 —	136 " ✓	400		
48 —	91 " ✓	500	General Character	
		600	of Bottom =	
Big haul of		700	very soft fluid.	
Mud brought up		800	Big haul of	
by the air of cargo-		900	Mud; fishes etc in	
net. Net slightly		1000	same.	
torn.		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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		2500		
		2600		
		2700		
		2800		
		2900		
Dr. Course, E x N.		3000	Position.	
Clear, long horizon		3100	Salinas —	2.42.00 E S E.
Lt. breeze, W.S.W.		3200	⊙ Moss —	N.E x E ½ E
Smooth Sea.		3300		2.55.00
Bar. 29.95		3400	Moss Lady	E N E
Ther. att. 61		3500	Salinas —	-7- 2.57.00
A few goonies around.		3600		
C. ½.		3700	Moss. ⊙ —	N E by E ½ E.
		3800	Salinas —	E.S.E. 3.05.00
		3900	Moss ⊙ —	N E x E ½ E
		4000	Salinas —	E.S.E.

SERIAL TEMPERATURES.

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

REMARKS:

507

Arrival

No. Dr. 4511. Date 20 May 1904

Sigsbee Machine. Reel. No 1 Navy

Turns 120 Cor. + 10 Depth 130 fms.

~~Shot or~~ lead 35#

Bottom gn, hrd M.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 58° Surface 55° Drift

Trawl ~~or dredge~~ 8' Twr., accessories as before, but no floats.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3.32.20		0	3.37.00	4.07.00
Inter. Sdgs.		100	42.00	4.03.00
~~3.40.~~	~~136 fms.~~	175 × 200	3.45.00 ~~3.55.00~~	3.59.00
52.	155.	300		
		400	Trawling from 3.45 to 3.59.	
		500	= 14 min.	
		600		
		700	Ahead at 4.07	
		800	course N W for	
		900	Santa Cruz	
		1000	Gen'l Character of Bottom	
		1100	Hard mud,	
		1200	small catch.	
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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		2500		
		2600		
		2700		
		2800		
		2900		
Dr. Cose,	SSW	3000	Position:	
Clear, hazy horizon		3100	Salines –	3.34.00 ESE½E
Lt. breeze from WSW		3200	Moss ⊙ –	NExE½E
Bar. 29.94		3300		3.38.40
Therm. att. 60.7°		3400	Salines –	ESE¾E
Smooth Sea.		3500	Moss ⊙ –	NExE½E
No life in sight. –		3600		
1 gooney & 1 gull latter		3700	Salines –	3.48.00 ExS.
part.		3800	Moss ⊙	NExE¼E
		3900		3.59.50
		4000	Moss ⊙	NE¾E

4.05.00

SERIAL TEMPERATURES. Island E¼N

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

REMARKS:

No. Dr 4512 Date May 23, 1904

Sigsbee Machine. Reel. Navy Type #1

Turns 434 Cor. + 35 Depth 469 fms

Shot or lead 35 lbs

Bottom gn M

Bottom temperature 45°

No. of thermometer Cor.

Corrected temperature 98246

Air 54° Surface 55° Drift

Trawl or dredge 10' Blake with 6" Butterflies, tailrope 8 fm

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. A. W.	UP.		DOWN. A	M. UP.
9.16.00	9.27.00	0	9. 24.00	10. 36.00
		50	9. 25. 30	10. 34. 30
		100	9. 28. 30	10. 33. 00
		150	9. 30. 15	
Intermediate Soundings		200	9. 32. 00	10. 30. 20
		250	34. 00	10. 28. 50
9.37.00 409+	33 = 442 fm	300	9. 35. 45	10. 27. 10
			34. 20	
10.00 - 491+	39 = 530 "	400	9 39. 00	10. 24. 15
		450		23. 00
10.16 - 440+	35 = 475 "	500	9. 42. 15	10. 26. 15
			43. 50	10. 19. 30
10.31 - 309+	25 = 334 "	600	9. 45. 30	10. 17. 30
		660	~~[illegible]~~	10. 15. 00
		800	time out 29½ m	
		900	at 10.00 slacked out	
		1000	to 660 fms	
		1100		
		1200	Trawl came up with	
		1300	the 6" butterflies filled	
		1400	tailend turned up and over	
		1500	the opening and around	
		1600	the wire hanger	
		1700	Character of Bottom	
		1800	" Hard bottom	
		1900	" good haul "	
		2000		
		2100		
		2200		
		2300		
		2400		

Pat Frog 78.0 at 9.12 — 9.15.20 a.m.

Dr. Course		2500	Pt Pinos Li Ho	S.E. 1/2 S
E.S.E.		2600	10.08.00	A.M.
		2700	Pt Pinos Li Ho	SSE 7/8 E
Bar. 29.91		2800		
Ther. att. 61°		2900	Began 10 miles	
overcast, heavy fog banks on a head		3000	from Bell Buoy	
Sea smooth with gentle swell		3100	off Sta Cruz,	
from S.W.		3200	having run on course	
Whaleunder starbs bow		3300	SSE 1/4 E.	
on our way to dredging		3400		
ground, another on starb.		3500		
beam.		3600		
wind South, force 1-2, SSW at 10.32		3700		
Numerous goonies, gulls		3800		
& other birds		3900		
C 1/2		4000		

C. 2 at 9.53

C. 2 1/4 at 10.10

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
10.15.00 a.m. 25	3 Kofoid Vertical Nets sent down			
10.24 50	on a 1 1/2" Manila Line to a depth of			
10.37 100	300, 200 and 100 fathoms being			
10.40 200	fastened to the line at those distances			
300	apart from each other			
400	Began heaving in at		10.28	✓
500	first Kofoidin at		10.31	✓
600	second " "		10.37	✓
	last " " "		10.40	✓
700				
800	Ahead at 10.42			
900	W 1/2 S. 3 miles			
1000				

REMARKS:

H.W.R. (Arick)

No. Dr 4513 **Date** May 23. 1904

Sigsbee **Machine.** **Reel.** Navy Type No. 1

Turns 422 **Cor. +** 34 **Depth** 456 fms.

Shot or lead 35 lbs

Bottom gn M.

Bottom temperature

No. of thermometer 98246 **Cor.**

Corrected temperature

Air 54° **Surface** 55° **Drift**

Trawl or dredge 10' Blake, 1 tail tangle, 2 tangles, & 2 tangle bar, 2 swing [illegible], [illegible] preventer, 2 [illegible]

SOUNDING WIRE. DOWN. A.	M. UP.	TURNS.	DREDGE ROPE. DOWN. A.	M. UP.
11.09.00	11.21.00	0	10.10.30	12.07.15
		10	12 20	
		100	11.14.20	12.04.05
Intermediate Soundings		200	11.16.50	12.00.20
11.30 = 360 +	29 = 389 fms	300	11.19.30	not given
11.44 = 382 +	31 = 413	400	11.22.20	11.53.40
		500	11.25.10	11.50.15
		600	11.28.00	11.48.30
		700	time 20 1/2 m.	
		800	11.44 hove in to 550	
		900	11.47 - 550 fms	
		1000		
		1100		
		1200		
		1300		
		1400	Genl Character Bottom	
		1500		
		1600	very good haul,	
		1700	gn. Mud.	
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Pat Log 80.7 at 10.07.
and hauled in at that
reading

11-10 — a M

Dr Course		2500	Bearing of	too foggy overland
E.S.E		2600	Pt. P. Li Ho	
Bar. 29.87" see log		2700	everything	obscured
Th att 62°		2800	3 miles W ½ S	
wind South, force 3		2900	from Dr. 4512.	
Overcast, foggy overland		3000		
Smooth sea, gentle swell		3100		
from Sd and Wd		3200		
goonies, gulls		3300		
whales		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
C: ¼ 11.30		4000		

C ½ 11.36

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	at 11, 48 put 3 Kofoid Vertical Nets			
50	over as before to the depths of 300,			
100	200 and 100 fms respectively —			
200	have them up at 12.00.00			12.13.00 ✓
300				12-09- ✓
400				12-04- ✓
500				
600				
700				
800				
900				
1000				

REMARKS:

507.

Frate

No. Dr. 4514. Date 23 May, 1904.

Sigsbee Machine. Reel. #4 Navy

Turns 486 Cor. + 38 Depth 524 fms.

~~Shot or~~ lead 35#

Bottom Sn. M.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 58° Surface 55° Drift

Trawl ~~or dredge~~ 10' Blke, prtr., 2 Bttrfls., 1 Tngle, 2 flts., Sinkr and 3 wts.

SOUNDING WIRE. DOWN.	SOUNDING WIRE. UP.	TURNS.	DREDGE ROPE. DOWN.	DREDGE ROPE. UP.
1.20.00	2.32.50	0	1.22.30	2.30.00
Inter. Sdgs.		100	26.20	28.10 27.00
1-44-	406 fms.	150 200	30.00	25.15 23.10
53 -	394 "	300	32.15	19.35
		350 400	35.10	18.00 16.00
Net badly torn.		450 500	37.55	13.40 10.50
12" Butterfly slightly		550 600	40.50	08.30 02.30
torn on hoop.		650 × 700	1.44.00	~~2.00.00~~ 1-50-00
		800	Heavy strain. At 1.50	
		900	attempted to heave in 50 fms,	
		1000	a/c water shallowing; but	
		1100	had to veer on acct. of the	
		1200	strain. At 1.56 succeeded	
		1300	to heave in, stopped	
		1400	at 600 fms. at 2.02.30.	
		1500	Hove in again at 2.04.	
		1600	Trawling from 1.44 to 2.02	
		1700	~~[illegible]~~ 6m	
		1800		
		1900		
		2000	Genl. character	
		2100	of Bottom:	
		2200	good haul,	
		2300	mud.	
		2400		

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		2500		
		2600		
		2700		
		2800		
Dr. Cree,	E.S.E.	2900	Position.	
Overcast, misty.		3000	3 miles	West
Gentle breeze from South		3100	from Dr. 4513.	
Smooth Sea.		3200	Lt Ho, Pt R.	SE by S. 2.34.
Bar. 29.85		3300		
Therm. att. 63°		3400		
Gonnies, gulls, and		3500		
whales.		3600		
C = 1/2; 3/4;		3700		
3823 – 159		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

Arrival

No. Dr. 4515 Date 23 May 1904.

Sigsbee Machine. Reel. No 1 Navy

Turns 341 Cor. + 27 Depth 368 fms.

~~Shot or~~ lead 35#

Bottom Sn M. bl. Sp. Shn Sh.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 56° Surface 54° Drift

Trawl ~~or dredge~~ 9 Fms, Sinker, 3 vats.

fm. SOUNDING WIRE. DOWN.	UP.	TURNS.	fm. DREDGE ROPE. DOWN.	UP.
2.36.00		0	2.36.30	3.39.00
		100	40.00	36.00
		200	43.10	33.00
Inter	Sdgs.	300	46.10	30.00
2.55 —	495 fms	400	48.50	3.27.00
3.10 —	433 "	500	51.30	—
3.20 —	198 "	550	2.53.00	3.21.00
~~3.30~~	~~119~~ "	600	~~2.58.45~~	~~3.14.00~~
		650	~~3.00.00~~	~~3.12.00~~
		700		
		800	Trawling from 2.53.00 to	
		900	3.21.00 = 28 min	
		1000		
		1100		
		1200	Genl. character	
		1300	of Bottom.	
		1400	hard sand bottom.	
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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		2500		
		2600		
		2700		
		2800	Position	
Dr. Course E.S.E.		2900	Pt. Pinos Lt.	SE by S 2.34 p.
Overcast, misty.		3000		2.48
Gentle breeze fr. South		3100	Mussle Pt.	SE 1/4 S.
Smooth Sea		3200	Island	ENE 7/8 E. 2.55
Bar. 29.85		3300	~~Bay~~	~~ESE 1/4 E~~
Therm. att.	60°	3400	Island	ENE 3/4 E.
Gonies, gulls and		3500		
whales about.		3600	Bay.	SE by E.
C. = 1/4 - 1/2.		3700	Lt Ho.	SSE 3/4 E 3.22 p.
		3800	Mssel Rock	SE 5/8 S.
		3900	Bay	SE by E.
		4000	Island	ENE 1/2 E

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Surf Tow.			
50	1 Kofoid and 1 No 8 silk tow net			
100	2.55.00 — 3.13 = 18m.			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

HWR

No. Dr 4516 Date May 24 - 04

Sigsbee Machine. Reel. Navy Type #1

Turns 700 Cor. + 56 Depth 756 fms

Shot ~~or lead~~ 35 lbs

Bottom gn M

Bottom temperature

No. of thermometer 92246 Cor.

Corrected temperature

Air 550 Surface 540 Drift

Trawl ~~or dredge~~ 9' Tanner, 2 Lowering Bags, 2 Lead Weights, Guy Cable

SOUNDING WIRE. DOWN. A M	SOUNDING WIRE. UP.	TURNS.	DREDGE ROPE. DOWN. A M	DREDGE ROPE. UP.
9.23.00	9.32.00 ✓	0	9.35.00	11.06.00
		50	9.37.30	03.30
		100	9.39.00	11.02.00
Intrim. Soundings		150	9.41.00	
		3.05 200	not given	10.59.00
9.58.00 = 796 + 63 = 859 fms		3.00 300	9.45.10	10.55.30
10.28.00 - 665 + 53 = 718 ✓		3.15 400	9.48.25	10.52.30
		2.45 500	9.51.10	10.49.30
		3.10 600	9.54.20	10.46.00
3 Vertical Kodak Nos.		700	9.57.10	10.42.30
are in Position		800	9.59.30	10.38.40
" " Dr 4512		900	10.01.30	10.34.10
10.27.00 — down at A.M.		1000	10.04.30	10.30.05
		1075 ~~1100~~	10.06.30	10.26.30
Put 3 Kodak		1200	time 2 hrs.	
vertical nets over		1300	Drill Nets to Bottom ✓	
to 300, 400 & 100		1400		
fms depth respectively —		1500	Good fetch	
have in again 10.38		1600	ground, good	
first net aboard 10.46 ✓		1700	hauls of fish &	
second " " 10.52 ✓		1800	trawl brought up	
third " " 10.58 ✓		1900	some deep water	
		2000	specimens, 10 macruri	
It took 1 hr 31 m.		2100	who had died coming up	
to trawl 20 minutes in		2200	& floated out of	
859 fms water		2300	trawl, goonies	
		2400	immediately	

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taking charge of them

Lowered down and recovered a number from the fast devouring maws of the goonies.

At 9.10. am. Pat Log hauled in reading 4.6

Extremely difficult to discern outlines of land 9.15 am.

** Dr Course made good		2500		
ENE, steering E¼S		2600	9.18 am	
Bar. 29.86"		2700	Pt Pin. Si Ho	ESE¼E
Thatt 60°		2800	Lt Tangent Land Santa Cruz	NW 5/8 N
Wind S.W.	4 to SSE, 2.	2900	10.25.30 "A M.	
Weather Cloudy, overcast		3000	Pt Pin. Si Ho	SE¼E ¾ E
Sea, rough, broken swell		3100	Cypress Point	SE¼E
from Wd		3200	Bay (W)	ESE ¾ E
goonies & gulls about		3300		
2 whales stab beam, many in sight		3400	some close to ship at 10.15 am.	
other small birds		3500		
9.27 Rudder chains		3600		
chocked for a minute.		3700		
9.45 Clearing to windward		3800		
land obscured by heavy banks		3900		
** Steering E¼S		4000		

this with leeway gives an ENE Dredging Course

"C-2" 10.08

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
"C	2½ - 10.10			
"C 25	3.3 - 10.12			
"C 50	3¼" = 10.19			
100				
200				
300				
400				
500	ahead at 11.23 port helm			
600	early dinner — intermission			
700				
800				
900				
1000				

ae)

REMARKS:

3 ft and 1/3 ft per second is the rate of speed at which trawl travels through the water, when coming in at 100 fms in 3 min.

507.

Arctic

No. Dr 4517 Date May 24 - '04

Sigsbee Machine. Reel. New Type #1

Turns 849 Cor. + 67 Depth 916 fms.

Shot or ~~lead~~ 35 lbs (wire tending far aft)

Bottom M. Sounding unreliable

Bottom temperature —

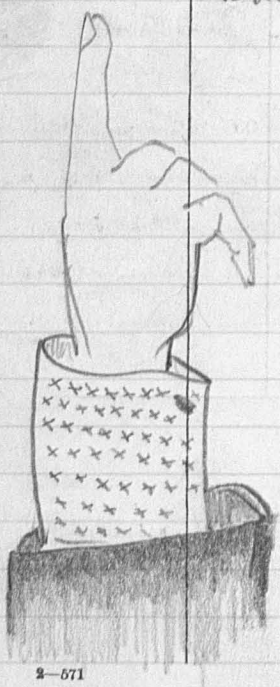
No. of thermometer — Cor.

Corrected temperature —

Air 56° Surface 56° Drift

Trawl or dredge 10' Blke, prev. gy., 2 Bltr fls., 3 wts, 2 floats.

pm. SOUNDING WIRE. DOWN.	UP.	TURNS.	pm. DREDGE ROPE. DOWN.	UP.
~~12.42.30~~	~~1.00.00~~	0	12.42.30	2.12.10
		100	46.30	08.25
Inter. S dgs.		200	50.20	04.50
1.10 - 710 t. =	766 fms.	300	53.30	2.01.15
1.40 - 695 =	750	400	—	57.40
		500	59.00	53.40
3 vertical Rofoid Nets		600	1.01.30	49.40
— as before —		700	03.40	46.00
down 1.43.30		800	06.30	42.00
hove in 1.52.30		860	12.00	38.40
1st Net up —	1.57.00	900		
2 " " —	2.03.00	1000	~~20.45~~	34.10
3 " " —	2.08.30	1050	~~1.22.20~~	1.30.20
		1100		
		1200	18 min.	
		1300	Grid Chan. of Bottom	
		1400		
		1500	Very good haul,	
		1600	muddy bottom.	
		1700		
		1800		
		1900	Heavy strain on accu-	
		2000	mulator; lots of mud;	
		2100	some stick in net when	
		2200	hauled up, though net	
		2300	was of very large mesh,	
		2400	2". (inner mesh)	



2—571

		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
Dr. Course, E. by S.		3100	Position.	12.43 pm.
Fair, hazy horizon.		3200	Lt. Ho. —	ESE.
Gentle, to moderate breeze, S.S.W.		3300	Bay —	E. by S.
Smooth sea.		3400	Salinas? —	NE¼E.
Bar. 29.87		3500	Cypress? —	S.E.¼E.
Therm. Att.	64°	3600	S.C. Lt H. —	N3/4W 1.45 p.m.
Whales, gulls and goonies, lots.		3700	P.Pi. Lt. H. —	SE by E¾E.
C = mark 2; 3; 4; 6½ when heaving in.		3800		
		3900		
		4000		

2.12
1.42
30+1

SERIAL TEMPERATURES.

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

At 2.12.10 ahead
pl. 4.6
Course ESE½E
to run two miles,

Stopped at 2.30 to sound;
found too deep water, 385 turns
and no bottom; ahead again
at 2.40, on same course.

REMARKS:

507

Arrival

No. Dr. 4518 Date 24 May 1904.

Sizsbee Machine. Reel. # 1 Navy.

Turns 130 Cor. + 10 Depth 140 fms.

~~Shot or~~ lead 35 ℔

Bottom hard sand.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 58° Surface 55° Drift

Trawl ~~or dredge~~ 10' Blake as before.

pm. SOUNDING WIRE. DOWN.	UP.	TURNS.	pm. DREDGE ROPE. DOWN.	UP.
3.00.00		0	3.05.00	3.30.00
		100	3.09.00	3.25.00
Inter.	Sdgs.	200	= 6 min.	
3.05 –	98 fms	300		
3.08 –	76 "	400		
3.10 –	75 "	500		
3.12 –	71 "	600		
3.14 –	70 "	700		
3.16 –	70 "	800		
3.18 –	70 "	900		
3.20 –	70 "	1000	Genl. character	
3.22 –	67 "	1100	of Bottom =	
3.24 –	66 "	1200	hard sand;	
		1300	good haul =	
		1400	lots of fishes.	
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		2500		
		2600		
		2700		
		2800		
Dr. Course, E.S.E.		2900	Position:	
Clear; cloudy & hazy horizon		3000		2.33.00 p.m.
Moderate breeze, S.S.W.		3100	Pinos Lt —	SExE 3/8 E.
Fairly smooth sea.		3200	Bay —	ESE 5/8 E.
Bar. 29.85		3300	Salinas? —	ENE.
Therm. att. 63°		3400		3.00.00 p.
Numerous gulls and		3500	Pinos Lt —	SEXE 1/4 E.
gonnies, and several		3600	Bay —	E 5/8 S.
whales around ship.		3700	Salinas —	NE 3/8 E.
C = 4 (marks).		3800	Salinas	NEXE 3/8 E
		3900	3.05 Pinos Lt.	SE 3/4 E.
		4000	Salinas —	NEXE.
			3.15 Pinos Lt.	SE 5/8 E

Trial: Nowrock done at this position.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100	— Surf. Tow —			
200 Sanpont	— 3.12	— 3.22 =	10 min.	
300 Kof	— 3.15	— 3.25 =	10 min.	
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507 H.C.R.

No. Dr 4519 Date May 26 - '04

Sigsbee Machine. Reel. Navy Type #1

Turns ~~30 Cor. + 2~~ Depth ~~32 fm~~

~~Shot or~~ lead 35 lbs 35 fms

Bottom hrd gy S. 32 256

Bottom temperature

No. of thermometer 18246 Cor.

Corrected temperature

Air 57° Surface 56° Drift

Trawl ~~or dredge~~ 10' Blk, 2 floaters, no [illegible] Run [illegible] Inverter Gray

SOUNDING WIRE. DOWN. A	M UP.	TURNS.	DREDGE ROPE. DOWN. A.	M. UP.
~~8.51 - 30~~	~~8.~~	0	8.55 30	9.05.00
		50 ~~100~~	8.58 00	9.02.00
Intrm Soundgs		200	time out 4 m	
8.53.00 - 32	+ 3 = 35 fms	300		
8.58.00 = 32	+ 3 = 35 fms	400		
9.01.00 26	+ 1 = 27	500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600	Genl Char. of Bottom	
		1700	"Good hauling"	
		1800	"bottom"	
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

Sewing Comp. course N 1/8 E to Dredging Ground.

Stopped at 8.49 am.

Dr Course

SW b/W 1/2 W

Bar. 29.91"

Th. att 59°

N N E 0-1

Smooth sea, "mod Swell"

"Partly foggy"

"Dredging lim begins 1 mile"

"from Signal Mass or bead"

		Position Angles & Bearings	
	2500	8.53.30	A.M.
	2600	Moss to Tank	122° 42'
	2700	Moss Gang	E 7/8 S
	2800	9.02	15
	2900	Moss to Tank	112° 26
	3000	Moss Δ	E 1/4 S
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800		
	3900		
	4000		

SERIAL TEMPERATURES.

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

REMARKS:

H. W. R. 1

507

No. Dr 4520 Date May 26 04

Sigsbee Machine. Reel. Navy Type # 1

Turns ~~70~~ Cor. + ~~6~~ Depth ~~76~~

~~Shot or~~ lead 35 lbs 44 fms.

Bottom gn M

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 57° Surface 56° Drift

Trawl ~~or dredge~~ 10' Blake as before

SOUNDING WIRE. DOWN. A.	M.	UP.	TURNS.	DREDGE ROPE. DOWN. A.	M.	UP.
~~9.09. 70+6~~	~~=~~	~~76 fms~~	0	9.10.00		9.25.30
			60 ~~100~~	14.00		
Previous to initial			45 at ~~200~~	~~9.16~~		9.23.30
~~9.07.00 - 57~~	~~+4~~	~~= 55~~				
~~9.09.00 - 70~~	~~+6~~	~~= 76~~	300	have in to		45 at 9/15
after initial						
~~9.11.00 - 80~~	~~+6~~	~~= 86~~	400	time out		9 1/2
9-13- 41	+3 -	44	✓ 500			
9.15.00 - 30	-	32	600			
9.16.00 - 30		32	700			
9.17.00 - 30		32	800			
9.18.00 - 30		32	✓ 900			
9.19.00 - 31 +		33	1000			
9.20.00 - 31 +		33	1100			
9.22.00 - 35 +		38	1200			
23 - 40 +	3	43	✓ 1300	"Good haul"		
~~24 - 50 +~~	~~4 -~~	~~54~~	1400			
26 - 57 +	4	61	1500			
			1600	"mud bottom"		
9.28 = 65 +	5 =	70	1700			
9.29 = 75 +	6 -	81	1800			
			1900			
			2000			
			2100			
			2200			
			2300			
			2400			

2—571

9.13.30 AM

Dr Course
SW 4 W 1/2
Bar 29.91
Thermatt 59 on preceding Station

2500			
2600	Moss to Tank	98° 09	
2700	Moss △	E 5/8 N	
2800	9.25.	40	
2900			
3000	Moss to Tank	90° 37'	
3100	Moss △	E 7/8 N	
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.

H.W.R.

No. Dr 4521 Date May 26. 04

Sigsbee Machine. Reel.

Turns ~~85~~ ~~Cor. + 7~~ ~~Depth 92 fms.~~

~~Shot or lead~~ 35 lbs 119 fms.

Bottom gn M

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air sea 60° Surface sea 56° Drift

Trawl or ~~dredge~~ 10' Blake as before

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. A	M UP.		DOWN. A	M UP.
9.31.00	9.32.00	0	9.31.30	9.57.00
		100	9.35.05	9.54.30
Intermediate Soundings		~~200~~ 150	9.37.00	
9.33.00 95	+8 = 103	~~300~~ 175	~~9.40.10~~	9.51.00
9.36.30-110	+9 = 119	400		
9.39.00-115	+9 = 124	500	~~9.39 slacked to 175.~~	
9.42.00-120	+10 = 130	600	Time out	
9.45.00-130	+10 = 140	700	14 min	
		800		
		900		
		1000	"Spare Haul"	
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

A.M: 9. 32 20

Dr Course
SW 1/2 W

Bar 29.91"
Th att 59°
other
remarks

as before

2500	Moss to Tank	85° 55
2600	Moss Δ	ENE 7/8 E
2700	A.M. 9.	52. 30
2800	Moss to Tank	75° 15'
2900	Moss Δ	ENE 3/8 E
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.

H.W.R.

No. Dr 4522 Date May 26 '04

Tanner Machine. Reel.

Turns 147 Cor. + 2 Depth 149 fms

~~Shot or~~ lead 26 lbs

Bottom gy. S. Sh.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 69° Surface 56° Drift

Trawl ~~or dredge~~ 10' Blake as before

SOUNDING WIRE. DOWN. AM	UP.	TURNS.	DREDGE ROPE. DOWN. AM	UP.
10.05.00	10.07	0	10.03.00	10.33.00
		100	10.07.00	10.31.30 10.29.25
Intended Soundings		200	10.09.00 10.11.30	10.27.30 10.25.30
10.21-30 =	129+1 - 130 fms	300		
		400	time out 14 m.	
		500		
Mr Sopp reports		600		
wire of Lizsbee Mach		700		
showed	Kink	800		
at 147	cut this	900		
amount off the		1000		
Navy T.	Reel	1100		
leaving	3676	1200		
turns on	reel	1300	"Very Good Haul"	
		1400		
		1500	"Rock cod"	
		1600		
		1700	"General Character"	
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

AM: 10 03 50

Dredg Course

SW 1/2 W

Bar 29.92"
Therm 60°
rest

Dredging

Gentle SW breeze 10.10
Swell ahead (S.W.)
breeze freshening after 10.20

2500	Mast to Tank	70° 21'
2600	Moss △	ENE 1/4 E
2700	A.M.	10.27.00
2800	Mast to Tank	63° 52'
2900	Moss △	SW 1/8 S
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.

H.W.R.

No. Dr 4523 Date May 26. '04

Sigsbee Machine. Reel. N.T.

Turns 100 Cor. + 8 Depth 108 fm

~~Shot or~~ lead 35 lbs

Bottom AK M

Bottom temperature

No. of thermometer not used Cor.

Corrected temperature

Air 63° Surface 57° Drift

Trawl or ~~dredge~~ 10' Blake as before

SOUNDING WIRE. DOWN.	SOUNDING WIRE. UP.	TURNS.	DREDGE ROPE. DOWN.	DREDGE ROPE. UP.
10.44.00 ✓	10.46.00	0	10.43.00	11.13.00
		100	10.47.00	11.08.30
		150		11.03.30
Datum: Soundings		200	10.49.00 ✓	
10-53.00 - 72 + 6 = 78 fms		110		
10.59 - 69 + 6 = 75 fms ✓		300	~~10.58~~	11.03.00
		400		
		500	10.57 here in to 110	
		600	Time out 13 m.	
		700		
		800	Heavy strain on	
		900	accumulator	
		1000	indicating load	
		1100	of mud,	
		1200	washed mud	
		1300	out by towing	
		1400	trawl from 8 to	
		1500	13 minutes after 11.00	
		1600	"	
		1700	Very soft mud "	
		1800	" good haul "	
		1900	" Heavy load of mud "	
		2000	" Genl Character "	
		2100		
		2200		
		2300		
		2400		

2—571

Dr. Course
SW 1/2 S
Bar. 29.92"
Th. att 60°
Bruging up
from SW — Course 3
Hazy overland
Clear overhead, pleasant
Whales, goonies and
gulls

ahead at 11.09
Course N.W. 2 mile
full speed ahead 11.15 course N.W

Time A.M.
10.44.20

2500	Moss to Tank	60° 04'
2600	Moss △	NE 6/8 E 7/8 E
2700	am 10.	54.10
2800	Moss to Tank	58° 05
2900	Moss △	NE 6/8 E 7/8 E
3000	10.	07.40
3100	Moss to Tank	56° 32
3200	Moss △	NE 6/8 E 3/4 E
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. H.W.R. 3676 148

No. Dr 4524 Date May 26 '04

Sigsbee Machine. Reel. Navy Type 2/1

Turns 211 Cor. + 17 Depth 228 fms

~~Shot or~~ lead 35 lbs

Bottom soft gy M

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 61.2 og Surface 57° Drift

Trawl ~~or dredge~~ 10' Blake as before

SOUNDING WIRE. DOWN. A	M UP.	TURNS.	DREDGE ROPE. DOWN. A.	M. UP.
11.25.00 ✓	11.28.00	0	11.27.00	11.59.00
		50		57.20
		100	11.30.30	11.55.40
		150	11 2.00	
Interm Soundings		200	11.33.10	11.53.00
		250		
wire jumped guidewheel		300	11.35.00	11.49.30
on Sigsbee — changed		400		✓
off to Tanner Machine		500	Time out	14½ h
Tanner Machine		600		
11.44.00 - 2 + 2 = 213 fms		700	Soft gy Mud	
		800	good haul.	
		900		
		1000		
		1100		
		1200		
		1300		
Ahead	11.59	1400		
course SW		1500		
with port engine		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

Dr Course
SSW

Bar 29.93"
Th. att 61° } see log
other remarks } as before
Burge increasing from SSW - 3-4

Pos. angles & bearings

AM	11. 22. 48
Moss to Tank	57° 27'
Moss △	ENE 5/8 E
11.	50m 05 sec
Moss to Tank	54° 35'
Moss △	ENE 1/8 E

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.

Anuki

No. Dr. 4525 Date 26 May 1904

Sigsbee Machine. Reel. #1 Navy.

Turns 206 Cor. + 16 Depth 222 fms.

~~Shot or~~ lead 35 ~~#~~

Bottom sy. M.

Bottom temperature

No. of thermometer — Cor.

Corrected temperature —

Air 60° Surface 57° Drift

Trawl ~~or dredge~~ 10' Blke, prevtr., 2 flts, sinker & tailrot.

fm. SOUNDING WIRE. DOWN.	UP.	TURNS.	fm. DREDGE ROPE. DOWN.	UP.
1.11.20		0	1.16.30	1.56.00
		100	20.00	52.10
Inter. Sdgs.		200	24.10	49.20
		300	fm 1.26.30	46.30
1.24 —	226 fms.	350 400	~~1.30.00~~	1.44.30
1.30 —	222 "	500	= 18 min.	
		600		
		700		
		800	Genl. character	
		900	of Bottom =	
		1000		
		1100	very soft mud;	
		1200	very good haul.	
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

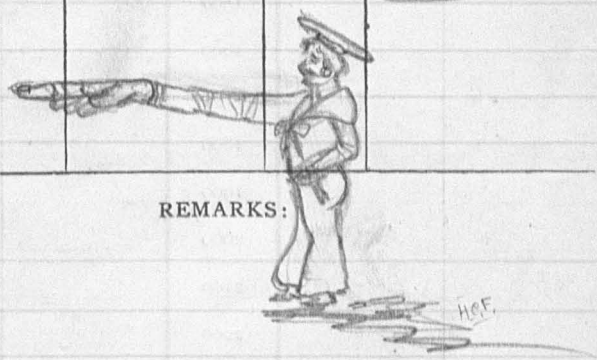
A whale loomed up under ship's stern and carried away 67 turns of the soundingwire from the Sigsbee Machine. This is the 2nd time during this cruise that whales have interfered with sdgs. (they object to the intrusion)

2—571

		2500		
		2600		
		2700		
		2800		
		2900		
Dr. course, SSW.		3000	Position:	
Clear. hazy horizon.		3100		1.11.20 pm.
Moderate breeze, S.W.		3200	Moss-Tank	53° 30'
Fairly smooth sea.		3300	Moss ⊙	ENE 1/4 E
Bar. 29.92		3400		
Therm. att. 62°		3500		1.35
Numerous gulls, gannies,		3600	Moss-Tank	52° 00
and small birds. also		3700	Moss ⊙	NE x E 7/8 E
whales.		3800		
C = 2½.		3900		1.45.10
		4000	Moss-Tank	51° 30'
3676-148.			Moss ⊙	NE x E 7/8 E

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				1.50.28
50			Sal-Moss	41° 19'
100			Moss-Tank	51° 25'
200				
300				
400			At 1:56 out p.l.	
500			to run 1¼ miles full	
600			speed; W.N.W.	
700				
800				
900				
1000				



REMARKS:

507.

Arnkil

No. Dr. 4526 Date 26 May, 04.

Sigsbee Machine. Reel. # 1 Navy

Turns 189 Cor. + 15 Depth 204 fms.

~~Shot or~~ lead 35 #

Bottom sft. gy. M.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 59° Surface 57° Drift

Trawl ~~or dredge~~ 10' Blake as before.

pm. SOUNDING WIRE. DOWN.	UP.	TURNS.	pm. DREDGE ROPE. DOWN.	UP.
2.12.45	✓	0	2.12.45	2.55.00
		100	16.40	50.30
Inter	S dys.	200	20.00	2.45.00
2.26 —	222 fms	270 — 300	2.22.30 ~~2.30.00~~	2.40.00
2.40 —	239 " ✓	400	from 2.22 to	
		500	2.40	
		600	= 18 min.	
		700		
		800		
		900	Genl. character	
		1000	of Btm:	
		1100	soft Mud;	
		1200	good haul.	
		1300		
		1400		
		1500	Net slightly torn	
		1600	near lead-line.	
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		2500		
		2600		
		2700		
		2800		
Dr. Course SSW.		2900	Position:	
Clear, hazy horizon.		3000		2.14.00
Moderate breeze, S.S.W.		3100	Sal-Moss	34°56'
Choppy Sea.		3200	Moss-Tank	50°25'
Bar. 29.93		3300		2.26.00
Therm. Att. 61.5°		3400	Sal-Moss	35°37'
Some animal life as		3500	Moss-Tank	50°00'
on previous station.		3600		2.38.35
O-6+ (heavy in)		3700	Sal-Moss	35°47'
		3800	Moss-Tank	49°41'
3609 –	143	3900		2.50.49
189	128	4000	Sal-Moss	36°07'
3420	15		Moss-Tank	49°36'
	187			
	204 fms			

SERIAL TEMPERATURES.

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

REMARKS:

507.

Arrival

No. D-4527 Date 26 May 04

Sigsbee Machine. Reel. #1 Navy

Turns 261 Cor. + 21 Depth 282 fms.

~~Shot or~~ lead 35 ft

Bottom hrd. S.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 58° Surface 56° Drift

Trawl ~~or dredge~~ 9° Tur., ~~[illegible]~~, Sinker of 3 wts., ft.

pm. SOUNDING WIRE. DOWN.	UP.	TURNS.	pm. DREDGE ROPE. DOWN.	UP.
3.15.00	✓	0	3.17.40	3.59.00
—		100	21.50	55.00
Inter. Sdgs.		200	25.15	52.00
3.27 —	311 fms	250 300	28.30	3.50
3.32 —	337 " ✓	390 400	3.32.00 ~~[illegible]~~	
3.40 —	267 "	430 500	~~3.35.00~~	~~3.42~~
3.47 —	210 "	600	At 3.42 have in 100	
3.52 —	183 " ✓	700	fms. = 330 fms out.	
3.56 —	180 "	800	At 3.40 commenced	
		900	again to have in	
		1000	very slowly. —	
		1100	Trawling from 3.32	
		1200	to 3.50 = 18 min	
		1300		
		1400	General character	
		1500	of Bottom =	
		1600	hard sandy bottom,	
		1700	scant haul.	
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

	2500		
	2600		
	2700		
	2800		
Dr. Course, SSW.	2900	Position.	
Clear, hazy horizon.	3000	Sal-Moss	37°06' 3.15
Moderate Breeze, SSW	3100	Moss-Tank	47°00'
Fairly smooth sea	3200		3.27
Bar. 29.92	3300	Sal-Moss	37°15'
Therm. att. 64°	3400	Moss-Tank	45°57'
Numerous whales,	3500		3.42
a few gannies.	3600	Sal-Moss	37°22'
C = 1/4	3700	Moss-Tank	44°43'
	3800		3.55.57
	3900	Sal-Moss	36°55'
	4000	Moss-Tank	43°07'

SERIAL TEMPERATURES.

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

REMARKS:

807. H.W.R. 9.14.00 in Pat Log, 23.2

No. Dr 4528 Date May 27, '04

Sigsbee Machine. Reel. Navy Type #1

Turns 505 Cor. + 40 Depth 545 fms

~~Shot or lead~~ 35 lbs 681 – 47

Bottom sft gy M

Bottom temperature —

No. of thermometer — Cor. 726 1/3

Corrected temperature —

Air 56° Surface 56° Drift

Trawl ~~or dredge~~ 10' Blake (4) Rd. Wts, Trail Wgts, 2 floats, preventer guy

SOUNDING WIRE. Down. A	M Up.	TURNS.	DREDGE ROPE. Down. A	M Up.
9.18.30	9.27.00 ✓	0	9.28.00	10.44.00
		3.20 50	29.40	3.30
		100	9.31.30	10.40.30
		3 m.		3.00
Interm. Soundings		200	9.34.30	10.37.30
		2.30		2.50
9.45 – 622+50 = 672 1/4		300	9.37.00	10.34.40
		3 m.		3.10
9.56 – 711+55 = 766		✓ 400	9.40.00	10.31.30
		3		3.30
10.16 – 743+57 = 800		✓ 500	9.43.00	10.28.00
		2.30		3.50
		600	9.45.20	10.24.10
				3.45
Trawl came up, one		700	9.47.40	10.20.30
		3.20		3.45
of the bridles caught		800	9.51.00	10.16.45
				3.45
under the last		900	9.54.00	10.13.00
clamping bolt which		1000	time 19 m	
holds the end of the		1100	Heavy load coming up	
splice to its standing		1200	& washing out on drum	
part immediately		1300	Gen'l Character of	
above the 140 lb		1400	Bottom by CO.	
spherical sinker		1500	"	
		1600	"Very good"	
Many starfish		1700	"haul, no"	
and other		1800	"mud came"	
specimens		1900	"up in trawl"	
in trawl		2000		
		2100		
		2200		
		2300		
		2400		

2—571

3500 gall

Dr Course		2500	Heavy banks of
S. E. by E		2600	fog obscure all
Bar 30.06"		2700	shoreline
Th. at 59°		2800	
N.E. 1 to 2	to S.E. 1 to 0	2900	
		3000	
Quite at 4 hazy, foggy		3100	
Smooth sea with swell S.E.		3200	
Gulls, gonies & other birds		3300	
Clearing overhead 10.00		3400	
Whale close to ship investigating		3500	
		3600	
"C. 2¼" 10.00		3700	
"C. 3" 10.03		3800	
"C. 3¼" 10.07"		3900	
		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300	545 + 1/3	= 726 length of dredge rope		
400	672 + 1/3	= 896 " "		
500	766 + 1/3	= 1021 " "		
600	800 + 1/3	= 1066 " dredge rope length		
700				
800				
900				
1000				

REMARKS:

H.W.D. Arikil

No. Dr 4529 Date May 27. 04

Sigsbee Machine. Reel. Navy Type 1

Turns 724 Cor. + 56 Depth 780 fms

Shot ~~or lead~~ 35 lbs

Bottom hard

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air see log Surface see log Drift

Trawl ~~or dredge~~ 9' Tanner with [illegible] 35 lbs 7 floaters Guy Prevent

SOUNDING WIRE. DOWN. A.	M. UP.	TURNS.	DREDGE ROPE. DOWN. A.	M. UP.
~~10. 46. 00 — 900 fms out~~		0	10. 48. 00	12. 05. 00
~~wire tending too far~~		100	10. 52. 10	12. 01. 05
~~astern, it was hove~~		200	10. 55. 20	11. 58. 20
~~up again by direction~~		300	10. 58. 00	11. 55. 40
~~of Coundg Officer 11.00 am.~~		400	11. 01. 00	3.00 11. 52. 40
Initial Sounding		500	11. 04. 00	3.00 11. 49. 40
11. 15 — 724 + 56 = 780 fms		600	11. 06. 30	11. 48. 10
		650	not given	11. 46. 40
		700	11. 08. 00	3 m 11. 43. 40
Intermed Soundgs		775 800	11. 09. 25 11. 30 11. 12. 00	3.10 11. 40. 30
11. 37 — 742 + 57 = 799 fm		850 ~~900~~	11. 14. 00 11. 15. 30	3 37. 30
11. 59 — 670 + 53 = 723 "		925 ~~1000~~	~~11. 20. 20~~	2.12 11. 35. 00
		1100	time out 20 m	
		1200		
		1300	General Character of Bottom	
Slacked out to		1400		
1000 fms at 11. 19. 00		1500		
		1600	hard bottom	
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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11.00 am.

Dr Course		2500	No shore lines	
S E by E		2600	in sight, obscured	
Bar		2700	by mist & fog.	
Thatt } see log		2800		
Wind light airs from S		2900		
Weather Hazy, for banks		3000		
overland —		3100		
Sea smooth		3200		
Clearing slightly		3300		
after 11.30 —		3400		
Gulls, albatross, near ships		3500		
and whales in sight		3600		
		3700		
"C – 2½" – 11.20		3800		
"C – 3¼" – 11.23		3900		
"C – 3¼ – 11.27		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500		760		
600				
700				
800				
900	780 + 1/3 = 1040 Dredging scope			
1000	799 + 1/3 = 1065 Drdg scope			

REMARKS:

507.

Arnkil

No. Trial 30. Date 27 May, 04.

Sigsbee Machine. Reel. # 1 Navy.

Turns 665 Cor. + 52 Depth 717 fms.

Shot ~~or lead~~ 35 #

Bottom

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air Surface Drift

~~Trawl or dredge 8' Bl-Alb., Prestigny, 2 Flb., Sinker, Wing & Tail-ruls.~~

pm. SOUNDING WIRE.		TURNS.	pm. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.15.00		0		
—		100		
		200		
Inter. Sdgs.		300		
—		400		
—		500		
—		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400	General character	
		1500	of Bottom =	
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Trial only

2—571

		2500		
		2600		
		2700		
		2800		
Dr. Course,		2900	Position:	
Fair, hazy over land.		3000		1.15.00
Gentle breeze from S.W.		3100	Lt. Ho. —	ESE¾E.
Smooth sea.		3200	Cypress Pt. —	S.E.
Bar.		3300		
Therm. att.		3400		
Numerous porpoises and		3500		
small birds; a few sea.		3600		
gulls.		3700		
		3800		
		3900		
3609 –	143.	4000		
665	91			
2944	52			
	66			

SERIAL TEMPERATURES.

DEPTH.	TEMP. 71	NO. OF THER.	COR.	COR. TEMP.
25				
50			Pt 1.28	full speed
100			ahead	on course
200			SW by S, p.l. = 23.2	
300				1.42.00
400			Lt Ho.	SE½E
500				
600				
700				
800				
900				
1000				

REMARKS:

507

Arnkil

No. Dr. 4530 Date 27 May 1904

Sigsbee Machine. Reel. # 1 Navy.

Turns 892 Cor. + 77 Depth 958 fms.

Shot ~~or lead~~ 35 #

Bottom

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 60° Surface 58° Drift

Trawl ~~or dredge~~ All new: 8' Bl.-Alb., Prorti-gny, 2 Flts., Sinker, 3 wts.

pm. SOUNDING WIRE. DOWN.	UP.	TURNS.	pm. DREDGE ROPE. DOWN.	UP.
1.49.15	2.08.00	0	1.59.15	3.51.00
		100	2.02.40	47.30
Inter. Sdgs.		200	05.20	43.00
2.25	847 fms	300	08.25	39.10
2.55	755 "	400	11.30	35.25
		500	14.30	31.45
		600	16.40	28.15
		700	19.15	23.30
		800	22.10	19.00
		900	25.15	14.25
		1000	28.45	05.20
		1050	~~2.30.00~~	3.01.40
		1100		
		1200	= 33 min.	
		1300		
		1400	Heavy strain when	
		1500	heaving up: C = 8½.	
		1600		
		1700	Genl. character	
		1800	of Bottom =	
		1900		
		2000	Very soft sand;	
		2100	rich hard.	
		2200		
		2300	Net came up	
		2400	torn.	

2—571

		2500		
		2600		
		2700		
		2800		
Dr. Course, South.		2900		Position: 1.55.
Fair; hazy over land.		3000	Lt. Ho. —	E 1/4 N.
Gentle breeze x) S.W.		3100	Cypress Pt. —	SE x E 1/4 E
Smooth Sea.		3200		2.28.
Bar. 30.06		3300	Lt. Ho. —	E 3/4 N.
Therm. att. 57.9		3400 v.	Cypress Pt. —	SE x E 1/4 E.
Numerous porpoises and		3500		2.50
Sml. ~~gulls~~ birds, a few		3600 O.K.	Lt. Ho. —	E x N
Sea gulls, whales.		3700	Cy. Pt. —	SE x E 7/8 E
C. = 2 1/2; 3 1/2; 4 1/2; 6		3800		
		3900		
3608 - 443		4000		
700	99			
2909	55			

SERIAL TEMPERATURES.

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

x) decreasing to light breeze.

REMARKS:

507.

H.W.R.

No. Dr 4531 Date May 28 '04

Tanner Machine. Reel. Tanner

Turns 26 Cor. + 0 Depth 26 fms

Shot or lead 26 lbs

Bottom fin gy S & P

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 57° Surface 58° Drift

Trawl ~~or dredge~~ 10' Blake, 1 tailweight, 2 floats + prev. gy

SOUNDING WIRE. DOWN. A M	UP.	TURNS.	DREDGE ROPE. DOWN. A M	UP.
8.03.00 ✓	8.03 30	0	8.02.00	8.23.00
		7	8.04.00	
		40 ~~100~~	~~8.07.00~~	8.20.00
		44. ~~200~~	✓	8.19.00
Interim Soundings				
8.07 – 26	+0 26 fms	300	time 15 m	
8.10 – 27	+0 27 "	400	Longitudinal middle bar of	
8.18 – 28	+0 – 28 "	500	Trawl came up	
		600	bent, not torn	
		700		
		800		
		900		
		1000	Genl Character	
		1100	of Bottom	
		1200		
		1300	"Rocky Bottom"	
		1400	"Net torn"	
		1500	"Good haul made"	
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

41 to 140

141-265

2—571

1.) Beginning of line

Dr Course	2500	8.03.00 A.M.	
WNW	2600	Pyramid Point	ESE 1/2 E
Bar 30.06"	2700	Pt Pinos Lt Ho	NE 1/4 E
Therm 58°	2800	Cypress Rock	S 3/4 E
Calm	2900	8.19.00 A.M.	
Overcast, hazy	3000	Cypress Rock	S by E
Plenty of birds	3100	Light Ho	NE 3/4 E
8.15 accumlt showed evidence of rock	3200	Grass Pt	ESE
	3300		
	3400		
C 1/4" 8.13	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.

H.W.R.

No. Dr 4532 Date May 28 '04

Tanner Machine. Reel. Tanner

Turns 30 Cor. + 0 Depth 30 fms

Shot or lead 26 lbs

Bottom gy S & R

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 58° Surface 58° Drift

Trawl or dredge 9' Tanner 2 Runners weight 2 floats 2 tangle bar at tail 2 tangles Pres Guy

SOUNDING WIRE. DOWN. A	M. UP.	TURNS.	DREDGE ROPE. DOWN. A	M. UP.
8.36.00	8.37.00	0	8.36.30	8.47.00
		45 ~~100~~	8.39.30	8.43.30
		200		
		300	time out	4 m
		400		
		500		
		600		
		700		
		800	Gen'l Character of	
		900	Bottom	
		1000	"Very rough bottom"	
		1100	"not torn"	
		1200	"very good specimens"	
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Interm. Soundings none taken.

Condition of bottom made suspension of trawling necessary to save trawl

Lost 1 Runner — weight and tore not again, frame O.K.

2—571

Do Course		2500	8.36.30 am	
W.N.W.		2600	Cypress Rock	S¼E 3/8 E
Bar 30.08"		2700	Light H	NE¼E 3/8 E
Th att 59°		2800	Pyram Pt	ESE
Overcast hazy		2900	8.47.00 am.	
Smooth Sea		3000	Li Ho	NE×E 7/8 E
Calm to light		3100	Cypr Rock	S¼E 3/8 E
Sldly airs		3200	Pyram Pt	SE¼E 5/8 E
Plenty birds		3300		
8.40 signs of rock		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.

H.W.R.

No. Dr 4533 Date May 28. '04

Tanner Machine. Reel.

Turns 291 Cor. + 2 Depth 293 fms

Shot or lead 26 lbs

Bottom gn M S

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 58° Surface 58° Drift

Trawl ~~or dredge~~ 8' Tanr 2 Runners weights, double tangle and Brewster Guy

SOUNDING WIRE. DOWN. A.	M. UP.	TURNS.	DREDGE ROPE. DOWN. A	M UP.
9. 18. 00 ✓	9. 32. 00	0	9. 24. 40	10. 05. 00
		100	27 30 29. 30	10. 00. 30
Interm. Soundings		200	9. 32. 30	9. 55. 00
Sigsbee	Machine	300	9. 35. 30	×
9. 43. 00 - 180	+ 14 S 194 fms	375 ~~400~~	9. 39. 00	9. 58. 30
9. 47. 00 - 161	+ 13 S 174	~~500~~	time 19½ min	
9. 50. 00 - 150	+ 12 S 162	250 ~~600~~		
9. 53. 00 - 132	+ 11 Sand 143	~~700~~	9. 48 hove in to 250	
9. 58. 00 133	+ 11 Sand 144 ✓	800	9. 47 " " " 225	
On above 36 lbs	Lead used	900	9. 49 reached 225	
		1000	9. 54 hove in to 175	
			9. 56 reached 175	
		1100		
		1200		
		1300		
		1400	Genl Character	
		1500	of Bottom	
		1600		
		1700	"Hard Sandy,"	
		1800	"good hard"	
		1900		
		2000	"miscall specimen"	
		2100		
		2200		
		2300		
		2400		

2—571

Log over at 8.53 - course WK W 3/4 N. 3 mile 25.2
9.15 read 27.8

Ar Course	9.19 in log reading	2500 1.	9.17.00	
South	28.2	2600	Li Ho	East
Bar 30.08"		2700	Cypress Point	S.E.
Th att 59°		2800	9.41.00	
rest as before		2900	Cypress Rock	S E 1/2 S
		3000	Li Ho	E 1/2 S
heading S S E,		9.44.00 3100	Pyramid Pt	S E 1/4 E 1/4 E
current making this		3200	Li Ho	E 1/2 S
a true	South Course	9.47. 3300	Cypr Rock	S E 3/4 S
		3400	A.M. 9.50	
		3500	Li Hou	E 1/2 S
"Cu - 1/4"	9.40	3600	Cypress Rck	S E 5/8 S
"C - 1 1/2"	9.58	3700 2.	10.00	30
		3800	Li Hou	E 1/4 S
		3900	Cypr Rck	S E 5/8 S
course	S 6 E	4000		

5 minutes after 10.05

SERIAL TEMPERATURES.

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

REMARKS:

507.

H.W.R.

No. Dr 4534 Date May 28? 04

Sigsbee Machine. Reel.

Turns 80 Cor. + 6 Depth 86 fms

~~Shot or~~ lead 36 lbs

Bottom hrd S

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 55 Surface 57° Drift

Trawl ~~or dredge~~ 8' Blk Albtr 2 Runner weights 2 gand 2 lbs 1 tangle on tail Preventer Guy

SOUNDING WIRE. DOWN. A	M UP.	TURNS.	DREDGE ROPE. DOWN. A	M UP.
10. 14. 00 ✓	10. 19. 00	0	10. 15. 00	10 41. 00
		100	10. 21. 00	10. 37. 20
Interm Soundings		~~200~~ 110	10. 22. 00 ✓	10. 37. 00
10. 24 – 78 + 6 = 84 fms		~~300~~	time out	15 m
10. 26 – 75 + 6 = 81 "		~~400~~		
10. 28 – 75 + 6 = 81 "		500		
10. 31 – 74 + 6 = 80 "		600		
10. 34 – 71 + 6 = 77 "		700		
10. 36 – 70 + 6 = 76 " ✓		800		
		900		
		1000		
		1100		
		1200	Gen'l Character of Bottom	
		1300	"Hard Sandy"	
		1400	"bottom but"	
		1500	"very interesting haul"	
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

10. 12. 30 A.M.

Dr Course		2500	Li Ho	E 1/2 N
S by E		2600	Cypress	S E 3/8 S
Bar sea log	30.08"	2700	10.27.	00 A.M.
Thatt " "	60°	2800	Cypress Pt	S E 1/4 S
rest as		2900	Li Hou	E 7/8 N
preceding		3000	10.43 to	44.
		3100	Cypress Pt	S E 1/8 S
"C - 1/4" 10.23		3200	Light House	E N E 3/4 E
		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.

H.W.R.

No. Dr 4535 Date May 28. 1904

Sigsbee Machine. Reel.

Turns 66 Cor. + 5 Depth 71 fms

~~Shot~~ or lead 36 lbs

Bottom

Bottom temperature —

No. of thermometer Cor.

Corrected temperature —

Air see 55° log Surface 57° log Drift

Trawl ~~or dredge~~ 8 Blk Albtr 2 Pwr wt. 1 tangle 1 Pwr wt. 1 tangle and Prevent Guy

SOUNDING WIRE. DOWN. A	M UP.	TURNS.	DREDGE ROPE. DOWN. A.	M. UP.
10.47.00 ✓	10.49.00	0	10.47.00	11.16.00
		100	10.51.00	11.11.00
Interm. Soundings		200	time at 20 m.	
10.49.00 = 66	+ 5 = 71 fms	300	Trawl up with	
10.51.00 = 64	+ 5 = 69 "	400	lashings of	
10.53.00 = 61	+ 5 = 66 "	500	net chafed off	
10.55.00 – 61	+ 5 = 66 "	600	on one side	
10.57.00 – 60	+ 5 = 65 "	700		
10.59.00 – 59	+ 5 = 64 "	800		
11.00.30 – 56	+ 4 = 60 "	900		
11.03.00 – 56	+ 4 = 60 "	1000		
11.04.00 – 55	+ 4 = 59 "	1100		
11.06.00 – 55	+ 4 = 59 "	1200	Gen'l Character of	
11.08.00 – 54	+ 4 = 58 "	1300	Bottom	
11.09.00 – 54	+ 4 = 58 "	1400	"Hand sandy"	
11.10.00 – 53	+ 4 = 57 "	1500	"bottom,"	
11.12.00 – 50	+ 4 = 54 "	✓ 1600	"very fair haul"	
		1700	"though"	
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

Ar Course		2500	10.47.00 to	10 to 49.00
SE, 7 E		2600	Cypress Pt	SE 1/8 S
Bar 30.09 "		2700	Li Ho	ENE 3/8 E
Thatt 60°		2800	11.05.00	A 1
rest as		2900	Li Ho	NE 4 E 7/8 E
before		3000	Cypr Rck	SE 3/4 S
		3100	11.12.00	am.
		3200	Light Ho	NE 4 E 5/8 E
		3300	Cypr Rock	SSE 3/4 E
"C - 1/2"	11.06	3400		
		3500		
		3600		
		3700		
		3800		
ahead at 11.17		3900		
Course NE		4000		

by standard for Point Pinos Light on return to Monterey

SERIAL TEMPERATURES.

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

REMARKS:

507.

Arnkiel

No. Dr. 4536 Date 31 May 04.

Sigsbee Machine. Reel. #1 Navy.

Turns 938 Cor. + 68 Depth 1006 fms. (vertical cast)

Shot ~~or lead~~ 35 ft

Bottom Y. Hd. S.

Bottom temperature See Inter. Sdgs

No. of thermometer 98246 Cor.

Corrected temperature —

Air 67° Surface 58° Drift

Trawl ~~or dredge~~ 8' Bl-Alb., Prevtr guy, Sinker, 3 wts., 2 flts.

am. SOUNDING WIRE. DOWN.	UP.	TURNS.	am. DREDGE ROPE. DOWN.	UP.
8.56.00	9.15.45	0	9.11.45	10.50.20
		100	9.15.50	47.10
		200	19.00	44.50
Inter.	Sdgs:	300	21.55	42.00
9.55: —	1011 fms	400	25.10	39.10
10.20: —	1041 " B.Temp 38.50	500	27.10	35.25
		600	29.30	32.10
		700	32.21	29.20
		800	35.10	25.30
		900	37.55	21.50
		1000	40.00	17.50
		1100	42.10	14.30
		1200	45.45	11.30
		1250	9. 47.30	10.05.30
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

= 18 min.

Genl. character of Bottom: hard sandy bottom; slight catch.

2—571

		2500		
		2600		
		2700		
		2800		
		2900		
Dr. Course, SE¼E - S		3000	Position:	
Fair, hazy horizon of land		3100	Cypress Pt.	SE×E ⅛ E 9.02.
Calm.		3200	Lt. Ho. -	E ¾ S.
Smooth Sea		3300		9.33.
Bar. 30. 12		3400	Cypress Pt.	SE×E.
Ther. att. 62°		3500	Lt. Ho. -	E. ⅝ S.
Gonies & sml. birds		3600		9.55
C. 3; 3½; 4; 5		3700	Cypress -	SE×E ⅛ E
		3800	Lt. Ho. -	E ½ S
		3900	Cypress Pt. -	SE×E ¼ E. 10.32.
3609 - 143		4000	Lt. Ho. -	E ¼ S

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	10.50 9.12			
50	1.38			
100	1.40			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

507.

Arr 11 Cr. H.W.R.

No. Dr. 4537. Date 31 May 1904.

Sizsbee Machine. Reel. 1 Navy

Turns 990 Cor. + 72 Depth 1062 fms.

Shot ~~or lead~~ 35#

Bottom hrd S & M

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 60 Surface 59 Drift

Trawl ~~or dredge~~ 10' Blake, accessories as before

am. SOUNDING WIRE. DOWN.	UP.	TURNS.	am. DREDGE ROPE. DOWN.	p.m. UP.
11.23.20		0	10.56.00	12.47.50
		100	11.00.50	44.00
		200	03.40	3 30 40.30
Inter S dys.		300	07.00	3.00 37.30
12 m. — 861 fms		400	10.00	3.00 34.30
		500	12.30	3.00 31.30
		600	14.40	3.20 28.10
Heavy strain on dredge		700	17.20	3.30 24.40
rope coming in 12.06 p.m.		800	19.40	3 40 21.00
		900	23.15	4.00 12.17.00
		1000	26.25	3 30 12.13.30
		1100	28.50	4.30 12.09.00
		1200	31.25	4.20 12.04.40
		1300	35.15	5.40 11.59.00
		1350.	11.38.00	11.56.00
		1400		
12.50 p.m. at end of trawl		1500		18 min.
put comparing		1600		
watch 5 minutes		1700	Genl Character of Bottom	
ahead		1800	"Very good trawl"	
		1900	"good bottom"	
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		2500		
		2600		
		2700		
		2800	Position:	
		2900		11.06 a.
Dr. Course,	S.S.E.	3000	Cypress Pt	S.E.xE 3/8 E
Fair, hazy horizon no land		3100	Lt Ho.	East 1/8 N
Lt. breeze,	W.S.W. to gth fr.	3200		11.34
Smooth Sea.		3300	Cypress Pt	S.E.xE 1/2 E
Bar. 30.12		3400	Lt. Ho.	E 1/4 N.
Therm. Att.	63°	3500		11.50
Jovius.		3600	Cypress Pt	S.E.xE 5/8 E.
11.38, C = 3.		3700	Lt. Ho	E 3/8 N.
11.47, C = 4, 4½, 5,		3800		12.04 pm
		3900	Cypr. Pt	S.E.½E 5/8 E
		4000	Light Ho	E 1/2 N

SERIAL TEMPERATURES.

Capstan from bunk

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

REMARKS:

807.

H. 1.

No. Dr 4538 Date May 31 1904

Sigsbee Machine. Reel. Navy Type No 1

Turns 810 Cor. + 61 Depth 871 Fms

Shot ~~or lead~~ 35 lbs Sinker [Ellipsoidal Wt 2 Cmen]

Bottom see second or terminal sounding

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 58° Surface 59° Drift

Trawl ~~or dredge~~ 8' BLAC 2 Rattles, 1 Tube, 2 Platters, 4 Pr Sny

SOUNDING WIRE. DOWN. P.	M. UP.	TURNS.	DREDGE ROPE. DOWN. P.	M. UP.
1. 29. 00 ✓	1. 35. 00	0	1. 23. 00	3. 08. 00
		100	1. 26. 30	03. 50
Intermediate Soundings		200	29. 30	3. 00. 20
1. 54. 00 − 24 + 55 = 907 fms		300	32. 30 (2. 50)	56. 50 (3. 30)
wire trailing starboard quarter		400	35. 20 (2. 40)	54. 10 (2. 40)
at an incline of about 45°		500	38. 00 (2. 40)	51. 00 (3. 10)
not shot, but lead sinker		600	40. 40 (2. 40)	47. 50 (3. 10)
2. 32 738 + 57 = 795 fms ✓		700	1. 44. 00 (3. 20)	2. 44. 00 (3. 50)
lt gy S & R		800	46. 25 (2. 25)	40. 30 (3. 30)
3. 08 let out to 500 fms		900	49. 00 (2. 35)	36. 20 (3. 50)
hove in again, all in		1000	53. 40 (4. 40)	2. 31. 10 (5. 10)
again at 3. 18 – ahead		1100	58. 30 (4. 50)	not given
to New Position 4539		1125 ~~1200~~	1. 59. 00	2. 24. 10
		1300	time 25 m 10 sec	
		1400	✓	
		1500		
		1600	Gral Character of Bott	
		1700	"Very good bottom"	
		1800	"no mud"	
		1900	"rather hard"	
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

Bearings etc

Drdg Course South		1	1.23 P.M.	
(Ships Head SW by S 1/2 S)		2500	Cypress Pt	SE by E 7/8 E
Bar 30.12 "		2600	Li Ho (Pinos)	ENE 7/8 E
Thratt 60.5°		2700 2	1.49.00 pm	
Wind WNW, force 3-4		2800	Cypress Point	ESE
Weather pleasant, cloudy horizon		2900	Li House	ENE 1/4 E
Sea mod from WNW.		3000 3	2.12.00 p.m	
Goonies etc, School of whales		3100	Cypress Point	ESE 3/8 E
weather overcast 3.00pm		3200	Li Ho (Pinos)	NE by E 7/8 E
"C_4 1/4" at 2.07		3300 4	2.44.00 P.M.	
		3400	Cypress Point	ESE 5/8 E
		3500	Li House	NE by E 3/8 E
		3600 5	3.07.30	
	End of line	3700	Cypr Point	E 7/8 S
871		3800	Light Ho	NE 7/8 E
290				
1161 Dredge Scope		3900	3.20 pm by Captain	
		4000	Cypr Point	E 1/2 S

Reject not needed

SERIAL TEMPERATURES.

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

REMARKS:

507. H.W.R. Arapi

No. Dr 4539 Date May 31 – '04

Sigsbee Machine. Reel.

Turns 564 Cor. + 45 Depth 609 fms

~~Shot or~~ lead 36 lbs Lead

Bottom hard. S. M.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air see log 58° Surface see log 58° Drift

Trawl ~~or dredge~~ 10' Blake 2 mm 1 tail wt 2 floats, prev guy

SOUNDING WIRE. DOWN. PM	UP.	TURNS.	DREDGE ROPE. DOWN. PM	UP.
3.32.30	3.39.00	0	3.25.30	4.20.01
		100	3.30.00	16.50
Intermed Soundings.		200	33.00	—
3.45 – 480	+38 = 518 fm	300	36.00	10.20
3.50 – 432	+33 = 465 "	400	39.00	07.05
4.05 – 430	+35 = 465 "	500	41.50	4.03.45
		600	3. 44.20	10.
		620 – 700	3. 45.00	4.00.00
		800	time out	15 m
		900		
		1000	Genl. character of Bottom:	
		1100		
		1200		
		1300	hard bottom; Sml. catch: few jelly fishes.	
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

Dr. Course
South
Bar } 30.11" sec log
Thatt }
Wind increasing
Weather } as before
Sea }

"C - 2½" at 3,48 pm

		Bearings etc
2500	1	p.m. 3.26.00
2600		Cypress Point E ½ S
2700		Li House NE ⅛ E
2800	2	pm 3.53.00
2900		Cypress Point E ⅜ N
3000		Li Ho NE ⅜ N
3100		
3200		4.7
3300		Cypress Pt E. ¾ N.
3400		Lt. Ho. NE ¾ N.
3500		
3600		
3700		
3800		NNE ¼ E
3900		
4000		6.13

143
108
35

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	3609			
50	430			
100	3179			
200				
300	430			
400	35			
500	465			
600				
700				
800				
900				
1000				

REMARKS:

507. H.W.R

Put comparing watch 19 m. back at 8.00 am

No. Dr 4540 Date June 1. 1904

Sigsbee Machine. Reel. good up & down cast

Turns ~~910~~ 510 Cor. + ~~57~~ 41 Depth ~~977~~ 551 fms

Shot ~~or lead~~ 35 lbs Shot

Bottom gn M

Bottom temperature

No. of thermometer — Cor.

Corrected temperature —

Air 64° Surface 57° Drift

Trawl ~~or dredge~~ 10' Blake 2 Rump 1 Tail wt 2 Floaters, Preventer Guy

551 fms

SOUNDING WIRE. DOWN. A	M UP.	TURNS.	DREDGE ROPE. DOWN. A.	M. UP.
9.04.00	9.13.00	0	9.05.30	10.20.00
		100	4.30 10.00	15.50
Interim Soundings		200	3.10 13.10	12.40
9.37 - 489 + 39 = 528 fms		300	3.00 16.10	09.30
used 36 lb Lead		400	2.45 18.55	06.00
9.48 - 360 + 29 = 389 fms		500	2.55 21.50	10.02.00
10.05 - 324 + 26 = 350 "		600	not given in time 25.30	9.57.30
		635 700	not given in time 28.30	57 " 53.00
		800	~~31.00~~	48.00
		bottom 900	~~34~~	9.43.00
Paid out to 965 when upon finding very shallow water began to heave in and upon getting a still shallower sounding close inquiry developed a mistake in the initial sounding, which should have been reported as 510 and not as 910 turns — correction made accordingly		965 ~~1000~~	~~9.37.00~~	
		1100	time out from 9.28.30 to 9.43 = 14½ m.	
		1200		
		1300	9.38 hove in to 865	
		1400	9.42 " " " 660	
		1500	Kept on heaving in	
		1600		
		1700	"Very good haul"	
		1800		
		1900	"fertile bottom"	
		2000		
		2100	Genl Character of Bottom	
		2200		
		2300		
		2400		

2—571

Log 50.1 at 8.52 hauled in

Bearings to determine positions (Wonters)

Dredg Course
E by S

Bar 30.21
Tratt 60°
West, force 1
Smooth, long gentle swell from W-NW-
Clear mt, cloudy horizon
Gulls & goonies

2500 1	9.00	.30
2600	Cypress Point	S E 1/4 S
2700	Li Ho Pinos	S E 1/2 E
2800 2	9.15.	00 A.M.
2900	Bay	E S E 1/2 E
3000	Li Ho	S E 1/2 E 3/8 E
3100	Pt Cypress	S E
3200 3.	9.21.	50 A M
3300	Li Ho	S E 1/2 E 3/8 E
3400	Point Cypress	S E
3500	10.00	am.
3600 4	Cypress Point	S E 3/8 S
3700	Li House	S E 1/2 E 1/4 E
3800	10.16.	00 am.
3900 5.	Li Ho	S E 1/2 E
4000	Cypress Point	S E 1/2 S

SERIAL TEMPERATURES.

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

REMARKS:

507.

H.W.R.

No. Dr 4541 Date June 1st 1904

Sigsbee Machine. Reel.

Turns 353 Cor. + 28 Depth 381 fms

~~Shot or~~ lead 36 lb Lead

Bottom gn M.S.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air see 64° Surface 57° Drift

Trawl ~~or dredge~~ 10' (Slake) and same Fittings as before

SOUNDING WIRE. DOWN. A	M. UP.	TURNS.	DREDGE ROPE. DOWN. A.	M. UP.
10.28.00	10.34.00	0	10.28.00	11.46.30
		100	10.32.00	41.50
Interm. Soundings		200	10 35.00	11.39.00
10.50 = 469+37 = 506 fms		300	37.45	11 36.00
11.02 = 579+46 = 625 "		400	40.50	11.33.10
11.19 = 586+47 = 633 "		500	44.00	11.30.10
11.36 = 543+43 = 586 "		bottom 55 600		11.27.00
		650 700	10.55.50	
		800	paid out again	
at 10.50 slacked out to 650 fms		700	11.00	11.24.30
		800 1000	11.08	11.21.00
at 10.03 slacked out to 800 fms		850 1100	11.12	11.19.00
		1200	time out 35 min.	
at 11.10 slacked out to 850 fms		1300	from 10.44 till 11.19	
		1400		
		1500		
		1600	General Character of Bottom	
		1700	"Good Sand"	
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

Dr Course
E by S

Bar } see
Thatt } log

Pleasant, hazy horizon
Smooth sea, light gentle
Swell from W.N.W.
Goonies & gulls
Light airs & gentle

"C - 3½" at 10.58 a.m."
"C - 4" at 11.15 p.m."

10.31.00 a.m.

2500	Cypress Point	SE 3/4 S
2600	Pt Pinos Li House	SE 1/4 E
2700	A.M:	10.47.00
2800	Cypress Point	SSE 7/8 E
2900	Pt Pinos Light House	SE 3/4 E
3000	AM:	11.07.00
3100	Cypress Point	SSE 5/8 E
3200	Light House	SE 1/2 E
3300		11.37.00
3400	Tank	NNE 1/2 E
3500	Pt Pinos Light Ho	SE 1/4 E
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.

Fruit

No. Dr. 4542 Date 1 June 1904.

Sigsbee Machine. Reel. #1 Navy.

Turns 627 Cor. + 50 Depth 677 fms.

~~Shot~~ or lead 35#

Bottom hard S. M.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 60° Surface 59° Drift

Trawl ~~or dredge~~ 9' Tur.; accessories as before.

pm. SOUNDING WIRE. DOWN.	UP.	TURNS.	pm. DREDGE ROPE. DOWN.	UP.
1.15.00	—	0	1.07.10	2.17.00
		100	10.40	13.40
		200	13.55	10.20
Inter.	Sdgs:	300	17.00	07.00
1.32	456	400	20.00	—
1.42	459	500	23.00	03.40 2.02.00
1.52	419	550 600	26.20	58.00 ~~53.00~~
2.00	331	700	30.00	~~37.00~~
1.07	236	714 800	~~1.32.00~~	~~1.32.00~~
		900	Trawling from 1.30 to	
		1000	1.58 = 28 min.	
		1100		
		1200	Genl. character	
		1300	of	
		1400	Bottom -	
		1500	hard bottom, good	
		1600	haul.	
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

		2500		
		2600		
		2700		
		2800		
Dr. course,	Ex S_SExS.	2900	Position:	
Fair; hazy over land.		3000		1.13.10
Lt. to gentle breeze from	west.	3100	Tank:	NNE 5/8 E
Smooth Sea.		3200	Lt Ho:	SE.
Bar.	30.22	3300	Bay:	SExE 1/8 E
Therm. att.	64.4°	3400	Cypress pt	SSE 3/8 E.
Goonies, whales		3500		
C = 3; 3½		3600	Lt. Ho.	1.08 SE 1/8 S
		3700	Bay	E.S.E.
		3800	Tank	NNE.
3609	143	3900		
		4000		

SERIAL TEMPERATURES.

fars.

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

REMARKS:

Article

No. Dr. 4543 Date 1 June.

Sigsbee Machine. Reel. No. 1 Navy.

Turns ~~109 Cor. + 9~~ Depth ~~118 fms.~~

~~Shot or lead~~ 35 ℔ 93 fms

Bottom hrd.; rky.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air Surface Drift

Trawl ~~or dredge~~ 9' Tmr. as before.

~~fm.~~ SOUNDING WIRE. DOWN.	UP.	TURNS.	~~fm.~~ DREDGE ROPE. DOWN.	UP.
~~2.22~~		0	2.22	3.35.00
		50		3.30.00
		90		57.50
		100	26	
		150	2.27	31 3.27
Inter. Stys.		200		
2.26	93 fms.	300	From 2.27 to	
2.30	82 "	400	3.27 =	
2.32	75 "	500	= 1 hr. 2 min	
2.33	75 "	600		
2.39	70 "	700	At 3.27 heavy	
2.50	60 "	800	strain on accumulator.	
2.59	60 "	900	Net wrecked.	
3.09	60	1000		
3.17	59	1100		
3.29	53	1200	Genl. character	
		1300	of Bottom:	
		1400	fair haul;	
		1500	hrd bottom, rky	
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

		2500		
		2600		
		2700		
		2800		
Dr. course, E x S.		2900	Position:	
Fair; hazy over land		3000		2.24.00
Gentle breeze from W.		3100	Tank	N x E 7/8 E
Smooth Sea.		3200	Bay	E S E 1/8 E
Bar.		3300	Lt Ho	S E 3/8 S
Therm.		3400		
C: 2 1/2;		3500		2.52
		3600	Lt. Ho.	S E x S.
		3700	Bay	S E x E 7/8 E
		3800	Tank	N x E 3/8 E
3609 – 143.		3900		3:06.55
		4000	Lt H. – Sd H.	19° 28'
			w Sd H – Bay	19° 54'
			c. Bay – Sd.	55° 56'

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
				3:09.56
25			Lt Ho – Sd H.	20° 00
50			Sd H – Bay	19° 55'
100			Bay – Mro	76° 03'
200				3:35.00
300			Lt. Ho – Sd H.	21° 34'
400			Sd H – Bay	20° 24'
500			Bay – Tank	102° 44'
600				2.1925
700				22° 13'
800				20° 39'
900			? Bay – Ol.	114° 57'
				3.38
1000			Lt Ho.	S S E
			Bay	S E x E 3/4 E

For angle book

REMARKS:

507. H.W.R.

No. Dr 4544 Date June 2, 1904.

Sigsbee Machine. Reel. Navy Type #1

Turns 671. Cor. + 53 Depth 724 fms

~~Shot or~~ lead 36 lbs lead not much of an angle (?)

Bottom ~~in Laboratory~~

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 63° Surface 59° Drift

Trawl ~~or dredge~~ 9' Tan's, 3 weights, 2 floaters, preventer guy

SOUNDING WIRE. DOWN. A.M.	UP.	TURNS.	DREDGE ROPE. DOWN. A.M.	UP.
9.49.00	11.00.00	0	9.53.00	11.36.40
9.55 =	=	100	6.30	11.32.50
Subsequent Soundgs		200	9.30	11.29.30 (3.20)
10.25 - 910 + 67 = 977 fms		300	10.02.30	11.25.45 (3.45)
wire touching 40° to wind - hard & 3 points abaft starb beam		400	5.00 (2.50)	11.22.10 (3.35)
		500	8.10 (3.10)	11.18.50 (3.20)
10.57 - 1040 + 75 = 1115		Shot off Stem 600	10.50 (2.40)	11.15.00 (3.50)
quite an angle to windward (40°)		700	14.10 (3.20)	11.10.40 (4.20)
		800	17.35	11.07.30 (3.10)
		900	10.21.00	11.03.30 (4.00)
		1000	~~27.10~~	11.00.00 (3.30)
		1100	~~30.10~~	11.56.50 (3.10)
		1200	~~33.40~~	11.53.20 (3.30)
at 10.25 slacked out to 1250 fms		1250 ~~1300~~	~~10.35.40~~	10.51.00
		1400	Trawling time 30 min.	
		1500		
		1600	Genl Character of Bottom	
		1700	not much in the	
		1800	trawl, very little	
		1900	mud on the	
		2000	weights and runners	
		2100		
		2200	Scant catch	
		2300		
		2400		

N.G.

Estd to be approximately 1,000 fms.

2—571

Pat Log 63.3 at 9.35

Dense Fog prevails at 9.40, everything observed at 100 yards distance

Dr Course		2500		
SE 1/2 E		2600		
Bar 30.29 – 30.17"		2700		
Tett 60°		2800		
Wind W	5–6 Gale	2900		
Med swell from Wd		3000		
Dense Fog, blowing a moderate gale		3100		
Ships Head	S½W½W	3200		
Fin gaonies		3300		
Wind 10.52 increasing		3400		
hauling to NNW.		3500		
		3600		
"C – 2½"	at 10.21.	3700		
"C – 3½"	10.35"	3800		
"C – 3¾"	10.37"	3900		
"C – 4¼ –	10.46"	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.

Erik

No. Dr 4545 Date June 2 '04

Sigsbee Machine. Reel. Navy Type #1

Turns 1049 Cor. + 75 Depth 1124 fms.
=(900 fms)

Shot ~~or lead~~ 35#

Bottom hard ~~bottom~~ S. M.

Bottom temperature —

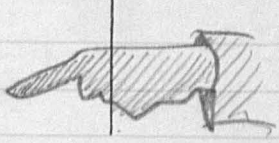
No. of thermometer — Cor.

Corrected temperature —

Air 57 Surface 58 Drift

Trawl ~~or dredge~~ 8' Blke-Alb., accessories as before

Sm. SOUNDING WIRE. DOWN.	UP.	TURNS.	Sm. DREDGE ROPE. DOWN.	UP.
12.55.00	1.20 =	0	1.10.10	3.14.00
1-08 =	(?)	100	13.30	10.25
Interim Soundings		200	17.00	07.30
1.53. —	1114 fms	300	20.00	3.04.30
	(=875 fms)	400	22.40	—
2.25 —	(700 fms)	500	25.40	57.30
		600	28.10	54.30
		700	31.25	50.30
		800	34.30	46.00
		900	37.50	42.00
Blowing a moderate and increasing gale, wire tending in large angle; estimated depths in brackets		1000	41.05	38.00
		1100	44.00	34.10
		1200	47.30	30.00
		1300	—	26.00
		1400	1.53.00	2.22.00
		1500	29 min.	
		1600		
		~~1700~~		
		1800	Gen. character of Bottom:	
All soundings on this Station are merely estimated: gale from beam caused wire to tend in large angle. Position very uncertain on account of fog.		1900	hard bottom, very small catch.	
		2000		
		2100		
		2200		
		2300		
		2400		

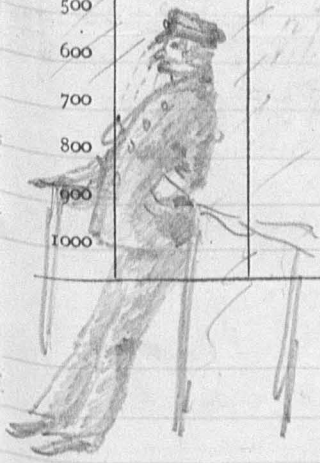


2—571

		2500		
		2600		
		2700		
		2800		
Dr. Course S x W. ½ W.		2900	Position, 1.45	
Overcast and heavy fog.		3000	Cypress Pt. – SE x E ½ E	
Moderate gale, N. W.		3100		1.50
Moderate swell.		3200	Lt Ho Pt – E ¾ S	
Bar. 30.16		3300		2.22
Therm. att. 61		3400	Lt. Ho – E ¾ N	
Gonies about ship;		3500	Cypress Pt ESE	
and sml. birds passing		3600	Lt Ho – E 7/8 N	
by.		3700	Cypress – ESE	
C = 4½.		3800		
		3900		
		4000	all beings very	
		143	doubtful a/c fog.	

3609-143 SERIAL TEMPERATURES.

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



REMARKS:

ENE ½ E
ESE ½ E

(3.15 ahead

507.

H.A.R.

No. Dr 4546 Date June 3 1904

Sigsbee Machine. Reel. Navy Type No 1

Turns 789 Cor. + 60 up and down Depth 849 fms, good

~~Shot or~~ lead 36 lbs

Bottom fne bk S

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 60° Surface 56° Drift

Trawl ~~or dredge~~ 8' Blke Albtr with fittings as at Dr 4538.

SOUNDING WIRE. DOWN. A	M. UP.	TURNS.	DREDGE ROPE. DOWN. A.	M. UP.
8.34.00	8.54.00	0	8.47.00	10.31.00
8.43.00		100	4.00 51.00	26.30
		200	3.00 54.00	10 22.50
Subsequ. Soundings		300	3.00 57.00	20.00
9.17.30		400	2.50 59.50	16.10
— 798 turns +60 = 858 fms		500	3.20 9.03.10	12.30
wire tending aft slightly		600	3.00 06.10	09.30
		off steam 700	3.00 09.10	06.00
At 9.46 accumulator		800	3.05 12.15	10.01.30
showed a heavy		900	15.10	57.00
strain — began very		1000	18.00	52.10
slowly to heave in		1100	9.22.~~30~~	9.46.00
	veered	1110		
		1200	Trawled	3 1/2 min
		1300	in a heavy	head sea
		1400		
		1500	Discontinued	
		1600	work,	too heavy
		1700	a sea	running
General Character of		1800		
Bottom		1900		
Rocky bottom		2000		
Not badly torn		2100		
Few specimens		2200		
adhering to		2300		
meshes of net		2400		

2—571

Dr Course West		2500	All bearings obscured by Mist & Fog banks.	
		2600		
		2700		
Bar 29.99" at 8.30		2800		
Therm att 58.8°		2900		
Wind WNW, fore 5-6-7		3000		
Weather Pleasant, hazy horizon		3100		
Rough Swell fine WNW		3200		
"Very strong breeze"		3300		
Goonies & other birds		3400		
10.54 Big Sea running from W.N.W		3500		
"C 3½ at 9.27		3600		
C 4½ " 9.31		3700		
C 5¼ " 9.43		3800		
"C 8" at 9.46		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600	Ahead at 10.38			
700	course E.S.E. for			
800	Monterey			
900				
1000				

REMARKS:

507.

Arnkil

No. Dr. 4547. Date 6 June, 1904.

Sigsbee Machine. Reel. #1 Navy.

Turns 1010 Cor. + 73 Depth 1083 fms.

Shot ~~or lead~~ 35 ¼

Bottom sft. M.

Bottom temperature —

No. of thermometer — Cor.

Corrected temperature —

Air 61° Surface 56° Drift

Trawl ~~or dredge~~ 10' Blke, prwtr. gay, 2 flts., Sinkr, 3 wts.

am. SOUNDING WIRE. DOWN.	UP.	TURNS.	am. DREDGE ROPE. DOWN.	UP.
9.30.00		0	9.32.00	11.35.00
		100	37.30	32.00
Inter. Sdgs.		200	41.45	29.00
		300	—	26.00
		400	47.30	23.00
		500	51.30	19.30
		600	55.30	16.00
		700	59.00	13.20
		800	10.02.50	10.30
		900	07.20	07.30
		1000	11.50	11.03.15
		1100	17.00	58.30
		1200	22.50	53.30
		1300	27.20	49.00
		1350 ~~1400~~ 65	10.30.00	10.46.00
Net wrecked.		1500	Heavy strain, c=7½.	
		1600	At 10.33 hove in 10 fms.	
		1700	At 10.39 slacked out 25 fms.	
		1800	Trawling – 16 min	
		1900		
		2000	Gen. character	
		2100	of bottom.	
		2200		
		2300		
		2400		

2—571

		2500		
		2600		
		2700		
		2800		
		2900		
Dr. course, W. by N.		3000	Position:	9.21
Clear; hazy horizon.		3100	Lt Ho Pt.	E 5/8 N.
Fresh breeze from N.W.x)		3200	Cypress Pt.	E by S. } ?
Moderate Swell, Rough Sea		3300		
Bar. 30.05		3400		
Therm. att. 62.		3500		
A few goonies around;		3600		
collecting to a great		3700		
number.		3800		
		3900		1111
x) wind increasing in force and from W.N.W.–N.W.		4000		

C = 7½;

+1/3 = 1411
+1/4 = 1341

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	3609	143.		
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

607 H.W.R. To locate Portugese Ledge

No. Dr 4548 Date June 7th 1904

Tanner Machine. Reel.

Turns 45 Cor. + 1 Depth 46 fms

~~Shot or~~ lead 26 lbs

Bottom R

Bottom temperature see two sets of angles & bearings taken previously and recorded in next book, ~~Cor.~~ now in use to plot from in Pilot House at 8.40 and after

No. of thermometer

Corrected temperature

Air 66 Surface 57 Drift

~~Trawl or dredge~~ 8 tangles on frame

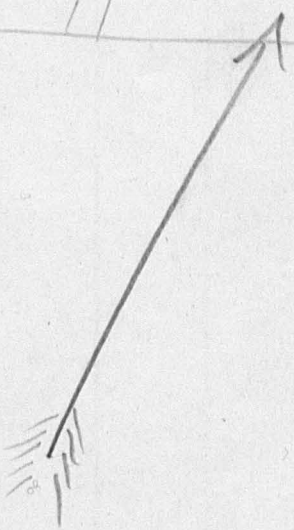
SOUNDING WIRE. DOWN. A.	M. UP.	TURNS.	DREDGE ROPE. DOWN. A.	M. UP.
8.37.00	8.38.00	0	8.40.00	9.00.00
Intermediate Soundings		~~100~~ 50	42.30	8.58.00
8.39.00	47+1 = 48 fms	~~200~~ 75	8.45.00	
"	"	~~300~~ 90 fms	~~Pad out to 8.47.30~~	8.56.30
water on ledge		400		
"forty six fms"		500	time 11½ m.	
8.48.00 —	51+1 = 52 fms	600		
8.50.00 —	53+1 = 54 "	700	a number of	
8.53.30 —	53+1 = 54 "	800	handlines used	
8.55.30 —	52+1 = 53 "	900		
8.58.00 —	53+1 = 54 "	1000		
		1100		
Dory lowered		1200		
with Montery		1300		
fishing bank pilot		1400		
Nex, Silva on board		1500		
to locate bank		1600		
Pilot and men in boat		1700		
using several hand code		1800		
lines for this purpose		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2—571

in Monterey Bay

Bearings & angles in next Record book — now 8.39 am. being plotted in Pilot House

Dr Course West

Bar
Th att
other remarks
} see Record book No. 19

Dr 4548 follows upon Hy 4499 in next book