

#6.

Hawaiian Explorations.

D: 3902 - D: 3927.

My 4164 - My 4186.

April 30 - May 11, 1902.

Next No  
Ny 4164  
No 3902

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:

*Hutchinson* *W. L. 75.71*  
 No. *41164* Date *30 Apr '02.*  
*Sigsbee* Machine. # *1* Reel. *Novy.*

Turns *298* Cor. + *30* Depth *328 fms*

Shot or lead *36 lbs.*

Bottom *R. fine gy S.*

Bottom temperature *43*

No. of thermometer *75233* Cor. *0*

Corrected temperature *43-*

Air *70* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7-42.20</i>	<i>7.50.50</i>	0		
<i>43.25</i>	<i>40.00</i>	100		
<i>44.25</i>	<i>48.40</i>	200		
<i>7.45.30</i>	<i>7.47=</i>	<i>298</i>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mokapu Id, Molokai. 871° W. 13'0

GL  
2000  
1/2

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

H600 246



SERIAL TEMPERATURES.

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

REMARKS:

Stacy  
1007.

P. Log 77.0

No. 3902 Date 30 Apr. 1902.

Sigsbee Machine. 1 Reel. Navy  
Turns 125 Cor. + 13 Depth 138 fms

Shot or lead 36 lb  
Bottom gy S. bo. ~~fine~~ sh. 62°

Bottom temperature  
No. of thermometer 98233 Cor. 0

Corrected temperature 62° (N 70° W.)  
Air 70. Surface 74. Drift 15/10'

Trawl or dredge Chain trawl.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8:15.50	21.00	0	8:41.15	9:31.00
17.10	19.55	100	45.10	26.15
17.30	19:15	125	48.30	27.00
		300	51.45	17.40
		350	53.20	15.30
		400	<del>9:10.00</del>	9:14.00
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

132

Mokapu Id., 876° 30' N., 94° 10' W.,

OK  
 5/27/51  
 2

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
4600	246	3200	
120	233	3300	
4475	13	3400	
	125	3500	
	138	3600	
		3700	
		3800	
		3900	
		4000	

SERIAL TEMPERATURES.

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

REMARKS:

5 sharks caught with 2 hooks  
 Fork remora from sharks.  
 Samples come up clear, evidently not in bottom.  
 Nothing caught whatever.

Stolley

No. 4165 Hy Date 30 Apr 1902

Sigsbee Machine. 1 Reel. Tracy  
Turns 332 Cor. + 33 Depth 365 fms

Shot or lead 26

Bottom fine br. m. s.

Bottom temperature 41.5

No. of thermometer 98233 Cor. 0

Corrected temperature 41.5

Air 73 Surface 74 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
9.33.50	9.43.10	0		
34.50	42.00	100		
35.50	41.00	200		
36.40	40.00	300		
37.10	39.10	332		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

This marks the end of 101 3902.



Mokapu Is / 867°15'N., 97°10'

OK  
JTCB  
is

4600 246  
332 213  
4268 33  
332  
366

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:

*Stark* P. 2. 79.  
 No. 2903 Date 30 Apr 1902  
 Machine. Reel. No. 4

Turns 649 Cor. + 65 Depth 714 fms  
 Shot or lead 27 lb  
 Bottom fm. br. m. s. R  
 Bottom temperature 38.0  
 No. of thermometer 98233 Cor. + 0.1  
 Corrected temperature 38.1 S 13° E.  
 Air 76 Surface 74 Drift 2/10'  
 Trawl or dredge 9' Tanner with open

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10:08.10	10:25.30	0	10:31.40	7:24.30
09.15	22.30	100	35.30	21.30
10.10	21.30	200	39.10	18.00
11.10	20.30	300	42.30	14.10
12.05	19.30	400	46.00	10.30
13.10	18.20	500	49.30	08.30
14.17	17.15	600	52.45	05.30
14.50	16.30	649	56.00	02.35
		800	59.00	00.50
		900	11:07.30	37.20
		1000	01.40	31.00
		1100	10.30	-
		1200	14.40	15.30
		1300	18.30	07.55
		1400	22.10	12.01.55
		1500	11:26.00	11.54.00
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lost the trawl and  
 bridle and the  
 lead.

There was no sounding at end of this station.

Mokapu Id. - S 58° W, 10<sup>5</sup>/<sub>10</sub>'

OK  
 3/3

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

4600 246  
 649 181  
 3931 65  
 649  
 714

SERIAL TEMPERATURES.

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

REMARKS:

Lost 9' Tanner frame, net, apron,  
 and float.  
 No catch.

507.

P.L. = 81. -

5-11 Kil

No. *Fy 4166* Date *30 Apr. '02.*

*Sigsbee* Machine. Reel. *Navy*

Turns *887* Cor. + *87* Depth *974 fms.*

Shot or lead *35 Lbs.*

Bottom *lt. bn. M. S. Glob.*

Bottom temperature *36.5*

No. of thermometer *98233* Cor. *+0.1*

Corrected temperature *36.6*

Air *74* Surface *75* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1. 53.40</i>	<i>2. 14.15</i>	0		
<i>54.40</i>	<i>13.15</i>	100		
<i>55.30</i>	<i>12.10</i>	200		
<i>56.30</i>	<i>11.15</i>	300		
<i>57.35</i>	<i>10.15</i>	400		
<i>58.40</i>	<i>09.15</i>	500		
<i>59.50</i>	<i>08.10</i>	600		
<i>2. 01.00</i>	<i>07.05</i>	700		
<i>02.10</i>	<i>06.10</i>	800		
<i>2. 03.10</i>	<i>2. 05.00</i>	<i>887</i>		
		<del>900</del>		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Мокану 80, 847° W, 11<sup>9</sup>/<sub>10</sub>'

OK  
 1100  
 12

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

4600	246
887	159
<hr/>	<hr/>
3713	87
	887
	<hr/>
	974 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. kil

P.L. = 88. -

No. *Hy 4167* Date *30 Apr. '02.*

*Sigsbee* Machine. #1. Reel. *Navy*

Turns *131* Cor. + *13* Depth *144 fms.*

Shot or lead *35 lbs*

Bottom *gy. S. sh. Glob.*

Bottom temperature *59.3*

No. of thermometer *98233.* Cor. *-0.3*

Corrected temperature *59.0*

Air *77.* Surface *75.* Drift

Trawl or dredge

P.M. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3.20.15</i>	<i>3.24.25</i>	<i>0</i>		
<i>21.20</i>	<i>23.30</i>	<i>100</i>		
<i>3.21.40</i>	<i>3.23.10</i>	<i>131</i> <del><i>200</i></del>		
		<i>300</i>		
		<i>400</i>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

Mokapu 22, 885° W., 12' 10'

OK  
HCB.  
/h

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

4600.

246.

144 fms. 4000

SERIAL TEMPERATURES.

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

REMARKS:

*Hutchinson*

*Pat. Aug. 89. 7*

No. *3904*

Date *April 30<sup>th</sup> '02*

Sigsbee Machine. #1 Reel. *Navy*

Turns *268* Cor. + *27* Depth *295 fms*

Shot or lead *36 lbs*

Bottom *fn. M. S. R*

Bottom temperature *43.9°*

No. of thermometer *98233* Cor. *0*

Corrected temperature *43.9* { *net*

Air *76* Surface *75* Drift *1/10'*

Trawl or dredge *8' Blake with apron*

SOUNDING WIRE.

P.M. DREDGE ROPE.

SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-52.10</i>	<i>59.35</i>	0	<i>4-05-00</i>	<i>57.45</i>
<i>53.20</i>	<i>58.30</i>	100	<i>09. =</i>	<i>53.10</i>
<i>54.35</i>	<i>57.35</i>	200	<i>11.40</i>	<i>49.30</i>
<i>55.30</i>	<i>56.45</i>	<i>268</i> 300	<i>15.50</i>	<i>45 =</i>
		400	<i>19.15</i>	<i>40.35</i>
		500	<i>22.50</i>	<i>36 =</i>
		600	<i>26<sup>00</sup></i>	<i>4-29.50</i>
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Mokapu Is. S 76° W, 13.0'

OK  
2/20/50

4600 746

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				

Catch =

REMARKS:

Several phormosoma; 1 sea urchin; 1 ophiuran; gorgonian; pennatulid; sternoptyx; macrurus.

A large apisthotenthis-like form found floating dead.

507.

No. *3905*

Date *Apr 30, 1902.*

Machine. Reel.

Turns Cor. + Depth *20 fms*

Shot or lead

Bottom

Bottom temperature

No. of thermometer *95233* Cor.

Corrected temperature

Air *72°* Surface *50* Drift *none*

Trawl or dredge *Beam trawl, Dip Net*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

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

*7:30*

*8:45*

3/4 Off Kalaupapa, Luper Settlement.

Molokai

Anchorage off  
Landing at  
Luper Settlement,  
Kalaupapa,  
Molokai.

4600 246

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	Surface to fair.			
50				
100	Surface to fair from N.E. Surface to fair.			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

Catch = REMARKS:

1 Octopus; many squids;  
many atherinæ; many salpæ;  
heteronereis abundant; several  
crabs; shrimps; 1 stomatopod.

507.

Apr 11/02

No. *Hy. 4168* Date *1 May '02*

*Tanner* Machine. Reel.

Turns *138* Cor. + *6* Depth *144 fms*

Shot or lead *26 lbs.*

Bottom *S. P.*

Bottom temperature *60.2*

No. of thermometer *98233* Cor. *0*

Corrected temperature *60.2*

Air *73* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8.48.25</i>	<i>8.54.00</i>	0		
<i>49.30</i>	<i>51.40</i>	100		
<i>8.50.05</i>	<i>8.50.50</i>	<i>138</i> <del>200</del>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mokapu Id, Molokai Id. S 51° 30' E.

4 1/10 mi

OK  
J.C.D.  
1/2

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

496	12
.128	6
<hr/> 358	<hr/> 138
	<hr/> 144 fms

SERIAL TEMPERATURES.

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

REMARKS:

P.L. = 7.3

507

No. *Hy. 4169.* Date *1 May '02.*

*Sigsbee* Machine. Reel. *Navy*

Turns *382* Cor. + *38* Depth *420 fms.*

Shot or lead *35 lbs.*

Bottom *fine S. br. M.*

Bottom temperature *40.5*

No. of thermometer *98233.* Cor. *+0.1*

Corrected temperature *40.6*

Air *73.* Surface *74.* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9. 18. 45</i>	<i>9. 30. 05</i>	0		
<i>19. 50</i>	<i>29. 10</i>	100		
<i>20. 50</i>	<i>28. 15</i>	200		
<i>22. 10</i>	<i>27. 15</i>	300		
<i>9. 23. 15</i>	<i>9. 26. 15</i>	<i>382</i> <del>400</del>		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mokapu Id. 837° E. 5 1/2 mi

OK  
STC  
3

	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
496	3700	12
	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.S. = 11.3

No. *Hy. 4170* Date *1 May, '02.*  
*Sigsbee* Machine. #1 Reel. *Navy.*  
 Turns *1042* Cor. + *100* Depth *1142 fms.*  
 Shot or lead *60* Lbs.  
 Bottom *Glob. S. br. M.*  
 Bottom temperature *36.0*  
 No. of thermometer *98233.* Cor. *+0.1*  
 Corrected temperature *36.1*  
 Air *74.* Surface *74.* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10. 18.00</i>	<i>40.20</i>	0		
<i>18.45</i>	<i>39.25</i>	100		
<i>19.25</i>	<i>38.30</i>	200		
<i>20.10</i>	<i>37.30</i>	300		
<i>21.00</i>	<i>36.20</i>	400		
<i>21.55</i>	<i>35.10</i>	500		
<i>22.45</i>	<i>34.05</i>	600		
<i>23.45</i>	<i>33.00</i>	700		
<i>24.45</i>	<i>32.00</i>	800		
<i>25.50</i>	<i>30.55</i>	900		
<i>26.55</i>	<i>29.50</i>	1000		
<i>10. 27.40</i>	<i>10.29.10</i>	<i>1042</i> <del>1100</del>		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Mokapu Is., 82° 30' E., 8 6/10'

OK  
S.T.C.S.  
3

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

4600	246.
1042	146
<u>3558</u>	100
	1042
	<u>1142 fms</u>

SERIAL TEMPERATURES.

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

REMARKS:

April

No. *H. 4171*. Date *1st May, '02.*

*Sigsbee* Machine. *Navy*. Reel.

Turns *325* Cor. + *33* Depth *358 fms.*

Shot or lead *35 Lbs.*

Bottom *fine S. bk. Sh. br. M.*

Bottom temperature *42: -*

No. of thermometer *98233*. Cor. *0*

Corrected temperature *42°*

Air *72*. Surface *74*. Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.26.40</i>	<i>11.35.55</i>	<i>0</i>		
<i>28.00</i>	<i>34.55</i>	<i>100</i>		
<i>29.20</i>	<i>33.40</i>	<i>200</i>		
<i>30.35</i>	<i>32.50</i>	<i>300</i>		
<i>11.31.00</i>	<i>11.32.30</i>	<i>325</i> <del><i>400</i></del>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

Mokapu Is., 857° E., 7 1/10'

OK  
stop

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  
*Hutchinson*

P.L. = 18.3

No. *H4 4172* Date *1 May '02.*

*2* *1/2* Machine. *#1* Reel. *Navy*

Turns *120* Cor. + *12* Depth *132 fms.*

~~Shot~~ *lead* *36* Lbs.

Bottom *Br M. S.*

Bottom temperature *61°*

No. of thermometer *98233.* Cor. *0*

Corrected temperature *61.*

Air *74.* Surface *74.* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12:00 30</i>	<i>04.50</i>	<i>0</i>		
<i>01.35</i>	<i>03.40</i>	<i>100</i>		
<i>01.50</i>	<i>12:03.20</i>	<i>120</i>		
		<del><i>100</i></del>		
		<i>300</i>		
		<i>400</i>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

Mokapu Id., 871° E., 5' 10"

OK  
 1000  
 1/2

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

SERIAL TEMPERATURES.

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

REMARKS:

507.

P.L. 27.7

*Hudson*

No. *H4173* Date *May 1<sup>st</sup> 02.*

*Tanner* Machine. Reel.

Turns *22* Cor. + Depth *23 fms*

Shot or lead *26 lbs.*

Bottom *Co G.*  
*740*

Bottom temperature  
No. of thermometer *98233* Cor. *70.1*

Corrected temperature *74.1*

Air *74* Surface *75* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*2-10.10*  
*10.30*

*11.10*  
*10.35*

*0*  
*22*  
~~*400*~~

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

Nokapu Id. S 79° 30' E. 12 3/10'

OK  
5100  
/

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

496 12  
22 11  
-----  
474

SERIAL TEMPERATURES.

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

REMARKS:

507  
Hutchinson

Pat Log 29.2

No. *3906* Date *May 1<sup>st</sup> 02.*  
Machine. *#1* Reel. *Navy*  
Turns *60* Cor. + *6* Depth *66 fms*

~~Shot or lead~~ *36 lbs*  
Bottom *gy. S. O. Sh.*

Bottom temperature *72*

No. of thermometer *98233* Cor. *0*

Corrected temperature *72* { *X 16° W*

Air *74* Surface *75* Drift { *10'*

Trawl or dredge *6 Tangle Swabs. (Chain)*

*PM*

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-34.15</i>	<i>37.30</i>	<i>0</i>	<i>2-42.30</i>	<i>16.10</i>
<i>35 =</i>	<i>36.50</i>	<i>60</i>	<i>46.20</i>	<i>11.30</i>
		<i>150</i>	<i>48.20</i>	
		<i>200</i>	<i>56.10</i>	<i>3.07.20</i>
		<i>300</i>		
		<i>400</i>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		



Mokapu Id., 874° E., 128° 10'

OK  
H.C.B.  
in

4600 246

~~496 72~~

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	Catch =			
300	Several corals; 2 sps			
400	urchins; 1 munidia; fungia-			
500	like coral; bryozoa on urchin			
600	species; dentalium.			
700				
800				
900				
1000				

REMARKS:

Broke accumulating spring on thrust of overhead gear-block, on berth deck, over reeling engine.

*Stations*

No. *Hy 4174* Date *May 1<sup>st</sup> '02.*

*Sigsbee* Machine. #1 Reel. *Navy*

Turns *87* Cor. + *9* Depth *96 fms*

Shot or lead *36 #*

Bottom *gy S. S.*

Bottom temperature *69.5*

No. of thermometer *95283* Cor. *0*

Corrected temperature *69.5*

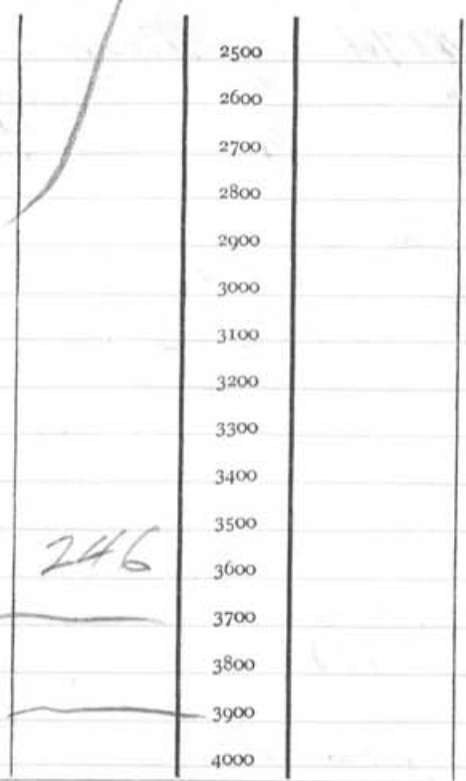
Air *75* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-21.40</i>	<i>25-</i>	<i>0</i>		
<i>23.05</i>	<i>23.50</i>	<i>87</i>		
		<i>100</i>		
		<i>200</i>		
<i>Marks end of</i>		<i>300</i>		
<i>previous</i>		<i>400</i>		
<i>station.</i>		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

Mokapu Id, 87° E, 13<sup>2</sup>/<sub>10</sub>'

OK  
HOB  
1/2



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. 31.2

No. *4175* Date *May 1-02.*

Machine. *#1* Reel. *Harvey*

Turns *253* Cor. + *25* Depth *278 fms*

Shot or lead *36 lbs.*

Bottom *S. Sh. R.*  
Bottom temperature *44.8*

No. of thermometer *98233* Cor. *0*

Corrected temperature *44.8*

Air *74* Surface *74* Drift

Trawl or dredge

*P.L.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-53.30</i>	<i>4.00.30</i>	0		
<i>54.45</i>	<i>59.10</i>	100		
<i>55.55</i>	<i>58 =</i>	200		
<i>56.30</i>	<i>57.20</i>	<i>253</i>		
		<del>300</del>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mokapu Id., S 63° E., 14 2/10'

*OK  
H.C.  
/*

	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:

~~Had evidently struck  
a rock & small piece  
of shell may be  
seen running.~~

*Hayley*  
 No. 4176 Date May 1902  
 Sigsbee Machine. 1 Reel. Hayley  
 Turns 409 Cor. + 41 Depth 450 fms  
 Shot or lead 36 #  
 Bottom 906. str. fine brk sh brn  
 Bottom temperature 40.1  
 No. of thermometer 98233 Cor. 0  
 Corrected temperature 40.1  
 Air 74 Surface 75 Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.26.30	4.36.10	0		
27.20	35.00	100		
28.10	34.00	200		
29.10	33.00	300		
30.20	32.10	400		
4.30.30	4.31.30	409		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Mokapu Id., 857° 10' E., 15 1/10'

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
4600	246	3100	
409	206	3200	
4191	40	3300	
	<del>409</del>	3400	
	<del>449</del>	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:

m. *Galley*  
 No. *1177* Date *1 May 1902*  
*Sigsbee* Machine. Reel. *Star*  
 Turns *84* Cor. + *8* Depth *96 fms*  
 Shot or lead *35*  
 Bottom *yl. s. by 18 s.*  
 Bottom temperature *67*  
 No. of thermometer *98233* Cor. *0*  
 Corrected temperature *67*  
 Air *74* Surface *75* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5.28.40</i>	<i>5.32.10</i>	0		
<i>29.30</i>	<i>5.31.10</i>	84		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Mokapu Id. 869°30' E., 198/10'

OK  
JTCB  
is

4600 94 6  
F4 2 3 7  
4516 9 9  
84  
93

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:

P.L. = 86.8

No. *Dr. 3907* Date *5 May '02.*

*Sigsbee* Machine #1 Reel. *Navy*

Turns *286* Cor. + *29* Depth *315 fms.*

Shot or lead *36 lbs.*

Bottom *fine wh. S.M.*

Bottom temperature *43.7*

No. of thermometer *98233.* Cor. *0*

Corrected temperature *43.7*

Air *75* Surface *75* Drift *27/10'*

Trawl or dredge *8 ft Blake, with Apron*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9. 39.55</i>	<i>9. 46.00</i>	0	<i>9. 52.00</i>	<i>10. 56.50</i>
<i>40.45</i>	<i>45.00</i>	100	<i>55.20</i>	<i>52.15</i>
<i>41.25</i>	<i>44.10</i>	200	<i>58.25</i>	<i>49.25</i>
<i>9. 42.20</i>	<i>9. 42.05</i>	<i>286</i> <del>300</del>	<i>10. 02.25</i>	<i>45.15</i>
		400	<i>06.10</i>	<i>40.45</i>
		500	<i>09.45</i>	<i>36.30</i>
		600	<i>10.12.30</i>	<i>10. 32.20</i>
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*2 Tangle forwds over  
fastens to frame.*

Diamond Head Light / N 23° E. 9<sup>6</sup>/<sub>10</sub>'

OK  
JES.  
4

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Clear & cloudy, and misty			Light to
50	gentle breeze from N. E. - Smooth			sea.
100				
200	Blake trawl = Few macrurus (2 sps);			
300	1 pelicanichthys; 1 pentacheles; few shrimps;			
400	of 3 sps; 1 hermit; 1 gephyrean; simple sponges			
500	attached to sponge spicules; few compound			
600	sponges; 2 sp. pennatulids; few simple corals;			
700	anemones attached to sponge spicules; 2 sps			
800	urchins; pteropod shells; dentalium; 11 sps			
900	gastropods; 1 kind polychaete; 1 gorgonian;			
1000	barnacles attached to urchin spines.			

REMARKS:

Surface net over at 10.01 a.) 10<sup>m</sup>  
 " " " " 10.11 " " 10<sup>m</sup>  
 " " " " 10.16 " " 10<sup>m</sup>  
 " " " " 10.26 " " 10<sup>m</sup>

Very little life. Very few copepods, sphaerocystids, and blue shrimps. Much floating weed with live beetles ~~etc~~ entangled.

*Dr. 3907*

No. *Dr. 3908* Date *5 May, '02*  
 Sigsbee Machine. Reel. *Navy*  
 Turns *276* Cor. + *28* Depth *304 fms*  
 Shot or lead *36 Lbs.*  
 Bottom *fine wh. S. M.*  
 Bottom temperature *43.8*  
 No. of thermometer *98233* Cor. *0*  
 Corrected temperature *43.8* *54.5° W<sub>1</sub>*  
 Air *73* Surface *75* Drift *2'*  
 Trawl or dredge *8' Blake, apron*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.02.50</i>	<i>11.08.50</i>	0	<i>11.13.00</i>	<i>29.10</i>
<i>03.40</i>	<i>08.00</i>	100	<i>16.40</i>	<i>* 25.00</i>
<i>04.50</i>	<i>07.05</i>	200	<i>20.00</i>	<i>23.40</i>
<i>11.05.25</i>	<i>11.06.00</i>	<del>276</del> <del>300</del>	<i>23.15</i>	<i>19.10</i>
		400	<i>26.30</i>	<i>13.50</i>
		500	<i>29.55</i>	<i>08.50</i>
		600	<i>11.33.20</i>	<i>12.04.10</i>
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Also marks end of Dr. 3907.*

Diamond Head Light Ho., N 21° E., 6 9/10'

OK  
J.C.W.  
24

	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	Nearly overcast, misty. Gentle breeze			
50	from N.E. - South Sea.			
100	Blake Trawl - 6 kinds crustacea; 2 kinds			
200	gephyreans, simple sponges; 1 large anemone;			
300	3 kinds starfish; several spatangoids; small			
400	Clypeastriid shells; few small fungoid corals;			
500	Lentacium; pteropod shells; few macrurus			
600	of 2 sps; 1 pelicanichthys; few gastropods			
700	and lamellibranchs; of several kinds; 1			
800	pennatulid.			
900				
1000				

REMARKS:

Surface net out at 11.25 a.m. ) 10"  
 " " " " 11.45 " )  
 " " over " 11.50 " ) 10"  
 " " in " 12 m. )

\* Set watch back 1/2 min.  
 1 Bottle floating freely alive; few copepods; sphaerozoum; 1 small fish; 1 blue shrimp.

*Hutchinson*

No. *3909* Date *May 5<sup>th</sup> 02.*

*Sigsbee* Machine. # *1* Reel. *Heavy*

Turns *280* Cor. + *28* Depth *308 fms*

Shot or lead *36 lbs.*

Bottom *fm wh S. & M.*

Bottom temperature *43.5*

No. of thermometer *98233* Cor. *0*

Corrected temperature *43.5* *(N 50° E,*

Air *75* Surface *75* Drift *2<sup>2</sup>/<sub>10</sub>'*

Trawl or dredge *8' Blake, with apron*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12-34.10</i>	<i>40.45</i>	<i>0</i>	<i>12-43.40</i>	<i>59.15</i>
<i>35-</i>	<i>39.45</i>	<i>100</i>	<i>47.20</i>	<i>55.10</i>
<i>35.45</i>	<i>38.50</i>	<i>200</i>	<i>50.45</i>	<i>51.20</i>
<i>36.40</i>	<i>37.50</i>	<i>280</i>	<i>53.55</i>	<i>45.20</i>
		<i>300</i>	<i>57.15</i>	<i>43.30</i>
		<i>400</i>		
		<i>500</i>	<i>1-01.15</i>	<i>39.50</i>
		<i>600</i>	<i>05-</i>	<i>35.20</i>
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

*Marked end of  
5<sup>th</sup> # 3908*

Diamondhead Light, N 31° E. 5 3/10'

OK  
JOS.  
7/27

4600 246

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	Blake Trawl =			
50	5 kinds prawns; 2 kinds hermits;			
100	1 broken antedon; 1 crab; few spatangoids;			
200	1 urchin; 2 kinds pennatulids; large			
300	sponges; 3 kinds pelicypods; dentalium;			
400	pteropod shells; several gephyreans; several			
500	annelids; many tubes; 1 pelicanionthys;			
600	several macrurus of 2 kinds; 1 stenoptyx;			
700	barnacles on sea-urchin spines.			
800				
900				
1000				

REMARKS:

*Hydrographic*

No. *4178* Date *5<sup>th</sup> May 1902.*

*Sigsbee* Machine. #1 Reel. *Star*

Turns *293* Cor. + *29* Depth *322 fms*

Shot or lead *36 lbs.*

Bottom *wh S. bk Sh*

Bottom temperature *43.2*

No. of thermometer *95233* Cor. *0*

Corrected temperature *43.2*

Air *76* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-01-</i>	<i>08.45</i>	0		
<i>01.45</i>	<i>07.45</i>	100		
<i>02.55</i>	<i>06.50</i>	200		
<i>04.10</i>	<i>05.40</i>	<i>293</i>		
		<del>300</del>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Alter marks and  
of the S 3909*



Diamond Head Light, N 16° 30' E., 3 2/10'

O/C  
H.C.  
in

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

SERIAL TEMPERATURES.

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

REMARKS:

*Hutchinson*  
*St. Mary*

No. *3910* Date *5<sup>th</sup> May '02*

*Sigsbee* Machine # *1* Reel *Heavy*  
Turns *283* Cor. + *28* Depth *311 fms*

Shot or lead *36 lbs*  
Bottom *fy lt gy S. M.*

Bottom temperature *43.7*  
No. of thermometer *98233* Cor. *0*

Corrected temperature *43.7*  
Air *73* Surface *76* Drift *N 130° W. 1 1/10'*

Trawl or dredge *11 Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-31.10</i>	<i>38.10</i>	0	<i>3-45.20</i>	<i>07.35</i>
<i>32 =</i>	<i>37.05</i>	100	<i>49.30</i>	<i>5:03.00</i>
<i>32.50</i>	<i>36.05</i>	200	<i>52.25</i>	<i>58.00</i>
<i>33.40</i>	<i>35.10</i>	<i>283</i>	<i>56.00</i>	<i>52.30</i>
		400	<i>59.50</i>	<i>47.00</i>
		500	<i>4:03.15</i>	<i>42.15</i>
		600	<i>06-30</i>	<i>4:27.30</i>
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Head Light, N 7° E., 12 5/10'

OK  
200.  
3

4600 246

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	Tanner Trawl =			
50	Numerous prawns of 4 kinds; 1 hermit;			
100	several broken antedon; several pentachelids;			
200	many gephyreans of 2 sps; 1 broken			
300	brisinga; 1 kind starfish; 2 kinds			
400	pennatulids; 2 kinds anemones on			
500	sponge spicules; 1 ophiurid; several			
600	holothurians; 2 kinds annelids; several			
700	larvella branches; 1 gastropod; 1 pelican-			
800	ichthys; 4 kinds macrurids; 1 broken			
900	1 broken nemichthyid; dentalium.			
1000				

REMARKS:

*Stolley*

No. *Dr. 3911*. Date *5<sup>th</sup> May 1902*  
*Sigsbee* Machine. Reel. *Novy*  
 Turns *306* Cor. + *31* Depth *337 fms*  
 Shot or lead *26 #*  
 Bottom *fine gy S. M.*  
 Bottom temperature *43.2*  
 No. of thermometer *98233* Cor. *0*  
 Corrected temperature *43.2* (*N 51° W*)  
 Air *74*. Surface *76*. Drift *2'*  
 Trawl or dredge *11 ft Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5.13.10</i>	<i>5.20.45</i>	0	<i>5.25.00</i>	<i>6.52.00</i>
<i>14.00</i>	<i>20.00</i>	100	<i>28.50</i>	<i>48.00</i>
<i>15.00</i>	<i>19.10</i>	200	<i>32.35</i>	<i>43.00</i>
<i>16.25</i>	<i>18.10</i>	300	<i>36.50</i>	<i>38.00</i>
<i>5.16.35</i>	<i>5.18.00</i>	<i>306</i>	<i>41.00</i>	<i>32.00</i>
		<del>400</del>	<i>44.35</i>	<i>25.30</i>
		500		
		600	<i>5.48.00</i>	<i>6:19.00</i>
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*This work is  
 end of Dr  
 3910*

*1<sup>st</sup> Surface haul:*  
*3 blue macrurus;*  
*big lge blue Calanus;*  
*small copepods, not*  
*numerous; 1 octopus;*  
*1 Coleopter; sphaerozym;*  
*sagitta; siphonophora bells*

*2<sup>nd</sup> Surface Haul:*  
*3 fish; few minute*  
*salpae; 1(?) schizopod;*  
*(These in addition to*  
*material in first haul)*  
*Octopus, turtle, & blue*  
*macrurus, lacking*  
*from above. Copepods,*  
*calanus, saphirina. etc*  
*about same.*

*3<sup>rd</sup> Surface haul:*  
*Additional to*  
*last = 1 medusa.*  
*Lacking = fishes*

*4<sup>th</sup> Surface haul =*  
*Additional to last:*  
*2 ooles & other fish;*  
*1 blue macruran; 3 sphaer*  
*stomatopods; copepods;*  
*about twice as many*  
*& mostly large.*  
*Lacking = medusa.*

Diamond Head Light, N 10° E., 11.0'

OK  
JCO  
2

4600 246

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	Clear and cloudy, misty. Gentle N. E.			
100	breeze. Smooth sea.			
200	Tanner Trawl = pearl starfish; pearl			
300	hymenostm; 3 kinds prawns; 2 munida-			
400	like crustaceans; gorgonian; 1 lamellibranch;			
500	1 gastropod; 1 pennatulid; anemone attached			
600	to spicules; dentalium; 1 dypeastrid;			
700	maiid crab; 1 ascidian; 4 kinds of			
800	macrurids; 1 pelecancithyp; periste-			
900	dion			
1000				

REMARKS:

Surface net over at 5.34 p. ) 17<sup>m</sup>  
 " " " " 5.51 " )  
 " " over " 5.55 " ) 15<sup>m</sup>  
 " " " " 6.10 " )  
 " " over " 6.15 " ) 16<sup>m</sup>  
 " " " " 6.31 " )  
 " " over " 6.35 " ) 15<sup>m</sup>  
 " " " " 6.50 " )

Stirling  
Frukil

No. 3912 Date 5<sup>th</sup> May 1902

Sigsbee Machine. 1 Reel. Navy

Turns 304 Cor. + 30 Depth 334 fms

Shot or lead 36 #

Bottom fine gy. S. M.

Bottom temperature 43.0

No. of thermometer 98233 Cor. 0

Corrected temperature 43.0 { N 20° E, 15/10'

Air 72 Surface 76 Drift

Trawl or dredge 11 ft Tanner

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
6.56.10	7.03.50	0	7.09.30	8.49.00
57.20	02.50	100	44.20	43.20
58.20	01.50	200	19.00	38.00
59.20	7.01.30	300	23.00	31.40
		304	27.00	22.30
		400	32.00	17.00
		500	36.20	12.05
		600	38.00	8.08.30
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Marks end of  
#3911.  
1<sup>st</sup> and 2<sup>d</sup>

Surface hauls:  
Addnl to last surf  
haul at #3911 =  
1 or 2 kinds stomatopods;  
several kinds crabs; phyl  
losoma; 1 lge pteropod;  
ctenophores; medusa;  
1 halobates; annelid  
(scarce, not heteronereis);  
2 kinds octopus - 1 each;  
several pegasus; several soles;  
1 flounder; several  
synodus?; copepods  
still more abundant.  
Lophing = blue  
macruran; opharogomph.

3<sup>d</sup> Surface haul:  
Total quantity  
less; noticeably  
copepods. Number of  
crabs (megalops)  
increasing.

4<sup>th</sup> Surface haul:  
Marked decrease  
from last in quantity,  
noticeably crabs &  
copepods.

Diamond Head Light, N 20° E., 10 2/10'

OK  
500,  
1/2

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Overcast, misty drizzle. - Light			
50	to gentle N.E. breeze. - Smooth			
100	sea. -			
200	Tanner Trawl:			
300	2 kinds macrurids; 1 peristidion;			
400	1 promyllantor; 2 hymenaster; 2 kinds			
500	prawns; 1 sponge; 2 kinds anemones on			
600	spicules; 2 kinds free anemones;			
700	1 gephyrean; dentalium; bicinga;			
800	1 spatangoid.			
900				
1000				

48<sup>m</sup>

REMARKS:

Surface net	over	at	7.13.	6.7 <sup>m</sup>
"	"	ice	7.25	12 <sup>m</sup>
"	"	over	7.31.30	10 <sup>m</sup>
"	"	ice	7.41.30	10 <sup>m</sup>
"	"	over	7.49.45	11 <sup>m</sup>
"	"	ice	8.01.05	11 <sup>m</sup>
"	"	over	8.22.00	15 <sup>m</sup>
"	"	in	8.37.00	15 <sup>m</sup>

507.

No. *Hy 4179* Date *5 May, '02.*

*Sigsbee* Machine. #1 Reel. *Navy*

Turns *282* Cor. + *28* Depth *310 fms.*

Shot or lead *36 Lbs.*

Bottom *fine gy S. M.*

Bottom temperature *44.-*

No. of thermometer *98233*. Cor. *0*

Corrected temperature *44.-*

Air *71.* Surface *76.* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.00.05</i>	<i>9.07.45</i>	0		
<i>01.05</i>	<i>06.30</i>	100		
<i>02.05</i>	<i>05.30</i>	200		
<i>9.03.00</i>	<i>9.04.30</i>	<del>300</del> <i>282</i>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Also marks  
end of  
No. 3912.*



Diamond Head Light, N 20° E., 8 7/10'

*OK  
HCO.  
5/2*

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Overcast, misty. - Gentle to moderate.</i>			
50	<i>Rate N. E. breeze. - Smooth sea.</i>			
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Surface net over at*  
~~*" " in " "*~~  
~~*" " over " "*~~  
~~*" " in " "*~~  
~~*" " over " "*~~  
~~*" " in " "*~~

*Station*  
No. *3913*

Date *May 6 1902*

Machine. Reel.

Turns Cor. + Depth  
Shot or lead  
Bottom  
Bottom temperature  
No. of thermometer Cor.  
Corrected temperature

Air *71* Surface *74* Drift *(N40°W, 3/4')*

Trawl or dredge *Surface net?*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Surface net</i>	<i>net</i>	<i>was at</i>	<i>5.07 am</i>	
<i>10</i>	<i>"</i>	<i>into</i>	<i>" 5.20 am</i>	
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Head Light, N 20° E., 17.0'

	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	<i>Partly overcast,                      Light breeze from                      S. W. South Sea.</i>			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Surface net: Largely pink copepods in considerable numbers; many more than during the day; more than later hauls of #3912. Sagitta, 1 medusa; macrurus. No transparent crustacea; no polio; no other fishes; no penaeus.

*Antoine*

No. *3914* Date *May 6-02*

*Sigsbee* Machine. # *1* Reel. *Harvey*

Turns *263* Cor. + *26* Depth *289 fms*

Shot or lead *36 lbs*

Bottom *gy. S. M.*

Bottom temperature

No. of thermometer } *none* Cor.

Corrected temperature

Air *71* Surface *74* Drift *N 49° W., 1 1/10'*

Trawl or dredge *11' Tanner*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

*5.25*

*5.37<sup>02</sup>*

*0*

*6.11.50*

*19.50*

*28-*

*30-*

*100*

*16.30*

*15.30*

*200*

*19.45*

*11.30*

*300*

*22.50*

*07.40*

*400*

*27<sup>00</sup>*

*7.13.15*

*500*

*30.20*

*58.50*

*600*

*33.50*

*6-54<sup>00</sup>*

*700*

*800*

*900*

*1000*

*1100*

*1200*

*1300*

*1400*

*1500*

*1600*

*1700*

*1800*

*1900*

*2000*

*2100*

*2200*

*2300*

*2400*

Diamond Head Light, N 23° 10' E., 16<sup>4</sup>/<sub>10</sub>'

OK  
J.V.S.  
7

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Partly overcast			
50	and hazy - light			
100	breeze from E. N.			
200	Sea smooth.			
300	Tanner Trawl: 2 kinds (3) macrroids;			
400	1 malthopsis; 3 kinds (many) echinoids;			
500	3 bunches sponge spicules; 4 kinds (awl) prawns;			
600	2 tectibranchs; 3 hymenasters; trisinga;			
700	few asteroids (1 kind); 1 holothurian;			
800	several dentalia; anemones on sponge spi-			
900	cules; few annelids.			
1000				

REMARKS:

Surface net over at 6.25 am  
 " " in at 6.35 " 10  
 Surface net - Many pink copepods;  
 siphirina; sagitta; 5 blue penaeus;  
 2 small fishes; 1 larval squilla.  
 Not more than 1/3 amount of #3913.

507.  
*Hutchinson*  
*Boisjoly*

No. *3915* Date *6 May 02*

Sigsbee Machine. # *1* Reel. *Navy.*

Turns *265* Cor. + *27* Depth *292 fms*

Shot or lead *36 lbs.*

Bottom *gy S. R.*

Bottom temperature *46°*

No. of thermometer *98333* Cor. *0*

Corrected temperature *46 -* (*170° E.*)

Air *72* Surface *76* Drift (*2' 10'*)

Trawl or dredge *11' Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7-25.50</i>	<i>31.55</i>	0	<i>7-35.40</i>	<i>9.14.00</i>
<i>26.40</i>	<i>30.55</i>	100	<i>39.30</i>	<i>12.00</i>
<i>27.25</i>	<i>30.00</i>	200	<i>42.40</i>	<i>06.30</i>
<i>28.05</i>	<i>7-29.15</i>	<i>265</i>	<i>46.10</i>	<i>9.05.30</i>
		300	<i>50.00</i>	<i>35.00</i>
		400	<i>54.00</i>	<i>11.20</i>
		500	<i>7.56.15</i>	<i>8.01.30</i>
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Head Light, N 30° E., 15 1/10'

OK  
JOS.  
2

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	(No catch whatever.)			
100				
200				
300				
400	Lost 11 ft. of haul + bar, and 3" shot at tail weight, 80 fms of wire and a long pulley, 250#, & float.			
500				
600				
700				
800				
900				
1000				

REMARKS:

7000# strain at time  
 in wire, when 110 fms  
 out, with 7000# strain  
 a further pull caused  
 wire to jump out of shear  
 ahead of accumulator. Started  
 reeling in at 900 fms  
 repairing damage.

007.  
*Hokey*

No. *1180* Date *6<sup>th</sup> May 1902*

Machine. *1* Reel. *Hokey*

Turns *272* Cor. + *27* Depth *299 fms.*

Shot or lead *36 #*

Bottom *lss gy. s. 2*

Bottom temperature *44.2*

No. of thermometer *98233* Cor. *0*

Corrected temperature *44.2*

Air *76* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.16.00</i>	<i>9.23.06</i>	0		
<i>17.00</i>	<i>22.10</i>	100		
<i>17.50</i>	<i>21.10</i>	200		
<i>18.40</i>	<i>9.20.20</i>	<i>272</i>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*This mark  
 end of D  
 2915*



Diamond Head Light N 24° 30' E. 14 1/10'

OK  
J. J. O. O.

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

SERIAL TEMPERATURES.

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

REMARKS:

No. 3916 Date May 1902  
 Machine. Reel  
 Turns 272 Cor. + 27 Depth 299 fms.  
 Shot or lead 36 lb  
 Bottom gy. s. m.  
 Bottom temperature 44°  
 No. of thermometer 98233 Cor. 0  
 Corrected temperature 44  
 Air 74 Surface 76 Drift  
 Trawl or dredge 8 ft Blake

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.10.00	10.17.00	0	10.22.00	11.45.00
10.40	16.00	100	28.00	40.10
11.40	15.00	200	31.10	35.30
12.40	14.10	272	34.15	30.40
		400	38.10	25.15
		500	41.30	20.15
		600	45.00	15.15
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Acid Light, N 40° E., 9 7/10'

OK  
JCS.

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	Blake Trawl: 3 macrurus; hermit; 3 kinds starfish; sev'l ophiurans; several clypeastrid shells; sev'l spatangoids; 3 kinds prawns; 1 crab; several dentulium; 2 kinds gastropods, many steropod shells; (?) anemone; several lamellibranchs; 1 argonauta shell.					
50						
100						
200						
300						
400						
500						
600						
700						
800						
900						
1000						

REMARKS:

107

No. 3917

Date 16 May 02.

Sigsbee Machine #1 Reel Navy

Turns 300 Cor. + 30

Depth 330 fms

Shot or lead 36 Lbs.

Bottom gy S. M.

Bottom temperature 44. -

No. of thermometer 98233. Cor. 0

Corrected temperature 44. - (X 16° E)

Air 76. Surface 76. Drift 3'

Trawl or dredge 11' Tanner

A.M. SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.48.30	11.56.15	0	12.00.00	1.24.30
49.15	55.00	100	03.35	19.30
50.00	54.00	200	07.10	24.35
11.51.15	11.52.45	300	10.50	09.50
		400	14.20	1.04.25
		500	18.35	58.45
		600	12.22.20	12.53.30
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Also marks end of Dr. 3916.

Diamond Head Light, N50°30'E, 10<sup>3</sup>/<sub>10</sub>'

OK  
JTB  
3

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tanner Trawl:			
50	Larval squilla; 6 kinds (many) prawns;			
100	swif murexida; 1 pentacheles; several			
200	hermits; 1 pennatulid; 1 gorgonian;			
300	anemones attached to sponge spicules &			
400	shells; few simple corals; 2 gephyreans;			
500	few annelids; many ophiurans; 2 kinds			
600	starfish; 2 kinds spatangoids; 2 kinds			
700	urchins; 2 kinds barnacles on urchin			
800	spines; many dentalium; several			
900	gastropods (6 kinds); 1 kind lamelli-			
1000	branch; many (4 kinds) macrurus;			
REMARKS: 1 stenoptyx; 1 peristedion; 2 malthopsis.				

*Archie*

No. *Dr. 3918*. Date *6 May, '02*.

*Sigsbee* Machine. #1 Reel. Navy.

Turns *267* Cor. + *27* Depth *294 fms.*

Shot or lead *36 Lbs.*

Bottom *wh. S. M.*

Bottom temperature *44.5*

No. of thermometer *98233*. Cor. *0*

Corrected temperature *44.5* (*X 14° N.*)

Air *77*. Surface *76*. Drift *2 9/10'*

Trawl or dredge *11' Tanner.*

P.M. SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1. 28.30</i>	<i>1. 35.40</i>	<i>0</i>	<i>1. 38.00</i>	<i>3. 04.10</i>
<i>29.30</i>	<i>34.35</i>	<i>100</i>	<i>42.45</i>	<i>57.40</i>
<i>30.30</i>	<i>33.30</i>	<i>200</i>	<i>45.25</i>	<i>55.50</i>
<i>1. 31.05</i>	<i>1. 32.35</i>	<i>267</i>	<i>49.10</i>	<i>51.20</i>
		<i>300</i>	<i>53.00</i>	<i>46.55</i>
		<i>400</i>	<i>56.30</i>	<i>42.20</i>
		<i>500</i>	<i>1. 58.20</i>	<i>2. 39.40</i>
		<i>550</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

*Also marks and  
Dr. 3917.*

Diamond Head Light, N 63° E., 8.0'

OK  
H.O.B.  
H.N.

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	Tanner Trawl:			
50	many (4 sp) starfish; few spatangoids;			
100	several ophiurans; 4 kinds urchins;			
200	many (3 kinds) prawns; several munidids;			
300	hermit; gephyrean; nudibranch;			
400	2 (?) antelopes; 3 mallophsio. 2 kinds			
500	macrurans; stomiatea; myctophum;			
600	tubicolous; annelids; 2 kinds of			
700	attached barnacles.			
800				
900				
1000				

REMARKS:

not.  
 No. *Hutchinson*

No. *Dr. 3919* Date *6 May '02.*

*Sigsbee* Machine. #1 Reel. *Navy.*

Turns *224* Cor. + *23* Depth *257 fms.*

Shot or lead *36 lbs.*

Bottom *gy. S.*

Bottom temperature *45.6*

No. of thermometer *98233.* Cor. *0*

Corrected temperature *45.6* (N 17° W, 1')

Air *75.* Surface *76.* Drift *1'*

Trawl or dredge *11' Tanner.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3.07.30</i>	<i>3.13.40</i>	<i>0</i>	<i>3.18.00</i>	<i>26.10</i>
<i>08.20</i>	<i>12.40</i>	<i>100</i>	<i>21.50</i>	<i>21 =</i>
<i>09.15</i>	<i>11.45</i>	<i>200</i>	<i>25.10</i>	<i>16.10</i>
<i>3.09.40</i>	<i>3.11.10</i>	<i>224</i> <del><i>300</i></del>	<i>28.30</i>	<i>11.20</i>
		<i>400</i>	<i>32.35</i>	<i>06.45</i>
		<i>500</i>	<i>3.36.30</i>	<i>4.02.00</i>
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

*also maps in  
 of  
 Dr. 3918.*



Diamond Head Light, N 84° E., 7 1/10'

51  
3000

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	Tanner Trawl =			
50	2 kinds starfish (few); 2 kinds			
100	(few)urchins; 1 ophiuran; holo-			
200	thurian; 4 kinds crabs; 1 hermit;			
300	1 kind prawn; 4 tectibranchs;			
400	2 kinds pennatulids; hydroid;			
500	1 peristedion hians; 4 peristedion.			
600	(sp.?)			
700				
800				
900				
1000				

REMARKS:

507.  
*Hutchinson*

No. *Hy. 4181* Date *May 6 '02.*

*Sigsbee* Machine. #1 Reel. *Stavy.*

Turns *200* Cor. + *20* Depth *220 fms*

Shot or lead *36 lbs*

Bottom *gy. S. co. S.*

Bottom temperature *47.0*

No. of thermometer *95233* Cor. *0*

Corrected temperature *47.0*

Air *70* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4-29.20</i>	<i>35 30</i>	0		
<i>30.30</i>	<i>34 25</i>	100		
<i>31.30</i>	<i>33 15</i>	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Marker used  
of No. 5 3919*

Diamond Head Light, S 89° E, 8 1/10'

OL  
X  
17

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:

Dropped Record Book overboard  
but recovered it, Brilliant  
remark!

507. *Hutchinson* Pat Log 21.6  
 No. 3920 Date May 6 '02  
 Sigsbee Machine. # Reel. Navy  
 Turns 255 Cor. + 25 Depth 280 fms.  
 Shot or lead 36 lbs.  
 Bottom gy s. bk. sh.  
 Bottom temperature 44.5  
 No. of thermometer 98233 Cor. 0  
 Corrected temperature 44.6 (N 340 E,  
 Air 75 Surface 76 Drift 1 1/10'  
 Trawl or dredge 11' Tanner, 2 mny weight

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
15-15 <sup>00</sup>	5.22.50	0	5.21.30	41.30
16.10	5.21.40	100	33.30	36.20
17.10	20.30	200	37.15	31.30
18.30	19.30	255	40.45	26.10
		400	44.15	20.30
		500	47.40	15.40
		550	49.15	
		600	55 <sup>00</sup>	6-10 <sup>20</sup>
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Head Light, N 74° E, 8 9/10'

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	Tanner Trawl:			
50	Pentachelis; many munida;			
100	brachyuran; 4 kinds prawns;			
200	hermit; attached anemone; brisinga;			
300	2 kinds urchins; 1 spatangoid;			
400	1 pennatulid; 1 amphipod;			
500	peristedion hians; peristedion, sp.			
600	nov.; melanostoma; chlorophthal-			
700	mus; myctophum; polydora;			
800	2 macrurus, pelicanichthys.			
900				
1000				

REMARKS:

Wm. Hutchinson

No. *Hy 4182* Date *May 6-02*

*Sigsbee* Machine. #1 Reel. *Navy*

Turns *241* Cor. + *24* Depth *265 fms*

Shot or lead *36 lbs*

Bottom *gy S.*  
Bottom temperature *46.2°*

No. of thermometer *98233* Cor. *0*

Corrected temperature *46.2*

Air *75* Surface *75* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6-44.40</i>	<i>51.20</i>	0		
<i>45.30</i>	<i>50.15</i>	100		
<i>46.20</i>	<i>49.10</i>	200		
<i>46.45</i>	<i>48.15</i>	<i>241</i> 300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond lead light, N 80° E, 7 9/10'

OK  
H.D.

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

SERIAL TEMPERATURES.

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

REMARKS:

No. *3921* Date *6 May '12.*

Machine. *Hand* Reel.

Turns *13 fms* Depth *13 fms*

Shot or lead

Bottom *Co. S. bk. sh.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *72* Surface *75* Drift *none*  
Trawl or dredge *Electric Light + 3 nets*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>8.45</i>	<i>9.34</i>
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Diamond Head Light, S 62° E., 39/10'

Night anchorage 2500 off Honolulu.

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	dip nets; very rich haul =			
50				
100	Stomatopods, schizopods;			
200	maerurans; brachyurans;			
300	ostracods; copepods; hetero-			
400	nereis; isopods			
500	Fishes - many kinds in			
600	considerable numbers; mollusks			
700	young, not identified at sight.			
800				
900				
1000				

REMARKS:

507. *Wm. P. L. 26.5*  
 No. *3922* Date *7<sup>th</sup> May 1902*  
*Lipley* Machine. Reel. *Hooy*

Turns *256* Cor. + *25* Depth *281 fms*

Shot or lead *35 #*  
 Bottom *lt. gy. s. bk. sh. R.*

Bottom temperature *44.5*

No. of thermometer *98233* Cor. *0*

Corrected temperature *44.5*

Air *77* Surface *70* Drift *1<sup>st</sup> 10'*

Trawl or dredge *Blake with apron*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6:36.30</i>	<i>8:45.30</i>	0	<i>8:10.40</i>	<i>9:51.10</i>
<i>37.20</i>	<i>44.40</i>	100	<i>54.40</i>	<i>47.20</i>
<i>38.20</i>	<i>43.40</i>	200	<i>58.00</i>	<i>43.10</i>
<i>8:39.00</i>	<i>8:43.00</i>	<i>256</i>	<i>9:01.15</i>	<i>38.30</i>
		400	<i>04.20</i>	<i>33.40</i>
		500	<i>07.30</i>	<i>29.30</i>
		600	<i>10.30</i>	<i>24.40</i>
		<i>650</i>	<i>9:13.10</i>	<i>22.30</i>
		700		<i>9:21.00</i>
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Head Light, N 73° E., 13<sup>3</sup>/<sub>10</sub>'

OK  
JCS  
/

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	<del>Not results.</del>			
800	Nothing caught.			
900				
1000				

REMARKS:

Lost 8' Blake Trawl  
and position of net.  
Net completely wrecked.  
Trawl brought a small  
bit of living coral

007.  
*Stabley*

No. *3923* Date *7<sup>th</sup> May 1902*  
*Sigsbee* Machine. Reel. *Tracy*

Turns *336* Cor. + *33* Depth *369* *J.M.*

Shot or lead *36*  
 Bottom *fm. gy. S. R. 2*

Bottom temperature *40.2*

No. of thermometer *98233* Cor. *0*  
 Corrected temperature *40.7* *(82306)*

Air *77* Surface *76* Drift *19' 10'*

Trawl or dredge *8 Tangle Swabs*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.54.30</i>	<i>10.03.30</i>	0	<i>10.09.00</i>	<i>11.25.40</i>
<i>55.30</i>	<i>04.30</i>	100	<i>15.00</i>	<i>21.30</i>
<i>56.30</i>	<i>01.30</i>	200	<i>15.50</i>	<i>17.30</i>
<i>57.30</i>	<i>00.30</i>	300	<i>19.20</i>	<i>13.10</i>
<i>9.58.30</i>	<i>10:00.00</i>	<i>336</i>	<i>22.40</i>	<i>08.50</i>
		400	<i>26.20</i>	<i>04.30</i>
		500		
		600	<i>10.29.20</i>	<i>11.01.45</i>
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*This marks  
 end of  
 07. 3922*

Diamond Hook Light, N 72° 30' E, 14<sup>5</sup>/<sub>10</sub>'

OK  
JCS  
3

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300				
400				
500				
600				
700	Nothing caught.			
800				
900				
1000	<del>Nothing caught.</del>			

REMARKS:

Lost one pt of (8) tangles.  
 Riveted-flange of eye-bolt drew  
 off under light strains - due partly  
 to flaw in riveting.

*Stolley*

No. *H183* Date *7 May 1902*  
*Sigsbee* Machine. Reel. *Stolley*  
 Turns *271* Cor.  $\pm$  *27* Depth *298 fms*  
 Shot or lead *26*  
 Bottom *Co. R.*  
 Bottom temperature *42.9*  
 No. of thermometer *98233* Cor. *0*  
 Corrected temperature *42.9*  
 Air *76* Surface *76* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.28.40</i>	<i>11.35.15</i>	0		
<i>29.40</i>	<i>34.50</i>	100		
<i>30.30</i>	<i>33.50</i>	200		
<i>31.20</i>	<i>11.33.00</i>	<del>271</del>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*This mark  
 is end of  
 2923*

Diamond Head Light, N 65° E., 14<sup>4</sup>/<sub>10</sub>'

OK  
H.C.B.  
2

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

SERIAL TEMPERATURES.

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

REMARKS:

P.L. = 44.9

Arifil

No. *Hy. 4184.* Date *7 May '02.*

*Sigsbee* Machine. Reel. *Navy.*

Turns *264* Cor. + *26* Depth *290 fms.*

Shot or lead *36 lbs.*

Bottom *R. co S.*

Bottom temperature *44. -*

No. of thermometer *98233.* Cor. *0*

Corrected temperature *44. -*

Air *75.* Surface *75.* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12.55.10</i>	<i>1.02.05</i>	<i>0</i>		
<i>56.10</i>	<i>1.01.00</i>	<i>100</i>		
<i>57.10</i>	<i>1.00.00</i>	<i>200</i>		
<i>12.58.10</i>	<i>12.59.15</i>	<i>264</i> <del><i>300</i></del>		
		<i>400</i>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>1000</i>		
		<i>1100</i>		
		<i>1200</i>		
		<i>1300</i>		
		<i>1400</i>		
		<i>1500</i>		
		<i>1600</i>		
		<i>1700</i>		
		<i>1800</i>		
		<i>1900</i>		
		<i>2000</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		



Diamond Head Light, N29°45' E., 14 1/10'

OK  
HUB  
2

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

SERIAL TEMPERATURES.

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

REMARKS:

P.L. = 47.9

NOT.

Archie

No. *Ar. 3924*. Date *7 May '02*.

*Sigsbee* Machine *N. 1* Reel. *Navy*

Turns *274* Cor. + *27* Depth *301 fms.*

Shot or lead *36 lbs.*

Bottom *fine ylt S.M. R.*

Bottom temperature *44. -*

No. of thermometer *98233*. Cor. *0*

Corrected temperature *44. -* (*29° W.*)

Air *75*. Surface *75*. Drift (*14/10'*)

Trawl or dredge *11' Tanner.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1. 24. 20</i>	<i>1. 42. 05</i>	0	<i>1. 47. 55</i>	<i>3. 17. 30</i>
<i>25. 20</i>	<i>41. 00</i>	100	<i>51. 55</i>	<i>15. 35</i>
<i>36. 25</i>	<i>39. 55</i>	200	<i>55. 15</i>	<i>11. 55</i>
<i>1. 37. 30</i>	<i>1. 39. 50</i>	<i>274</i> 300	<i>58. 40</i>	<i>07. 40</i>
		400	<i>2-01. 30</i>	<i>3. 03. 00</i>
		500	<i>05. 20</i>	<i>56. 00</i>
		600	<i>09. 00</i>	<i>38. 05</i>
		<del>650</del> <del>700</del>	<i>2. 11. 50</i>	<i>2. 33. 40</i>
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Heavy strain on cable bet. 600 and 500, rearing out at times, while hauling in.*

Diamond Head Light, N 23° 30' E, 12 6/10'

OK  
H.C.A.  
in

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100	Lost the 11' Tonne frame and 2 35-lbs shots. - Net came up torn; <del>also float and coil</del> <del>weight</del> completely wrecked.			
200				
300				
400				
500				
600				
700				
800	Nothing caught.			
900				
1000				

REMARKS:

No. *Hy. 4185.* Date *7 May '02.*

*Cassbee* Machine. #1 Reel. *Navy.*

Turns *307* Cor. + *31* Depth *338 fms.*

Shot or lead *36 lbs.*

Bottom *br. S.*

Bottom temperature *43. -*

No. of thermometer *98233.* Cor. *0*

Corrected temperature *43 -*

Air *75.* Surface *76.* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3.25.05</i>	<i>3.32.50</i>	0		
<i>26.00</i>	<i>31.45</i>	100		
<i>27.00</i>	<i>30.45</i>	200		
<i>28.30</i>	<i>29.40</i>	300		
<i>3.28.40</i>	<i>3.29.20</i>	<del>307</del> 400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*This also marks  
end of  
Dr. 3924.*

Diamond Drill Sights, X 270 E., 114/10'

OK  
J.C.C.  
        

	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:

O. L. 49.9

No. 52 3925 Date May 7 1902

Sigsbee Machine #1 Reel Navy

Turns 294 Cor. + 29 Depth 323 fms

Shot or lead 36 lbs

Bottom fm gy S. M. R.

Bottom temperature 43.7

No. of thermometer 98233 Cor. 0

Corrected temperature 43.7 (N 40 E, 1)

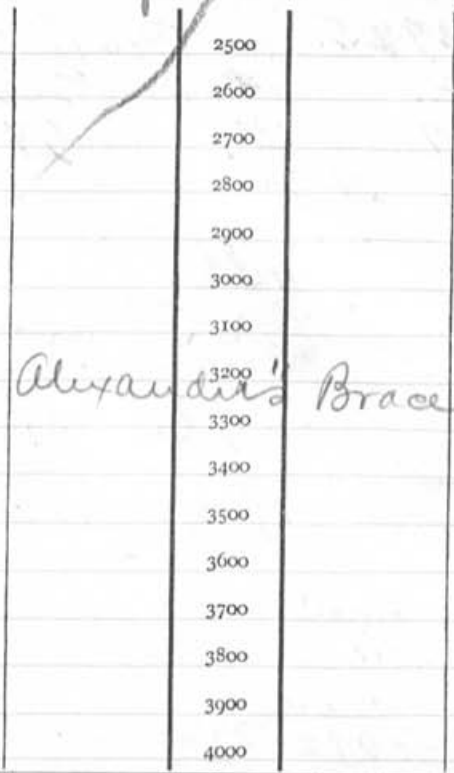
Air 75 Surface 76 Drift 2 10'

Trawl or dredge 8 Tanner with apron

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3-55.40	02.05	0	4-06.10	08 -
56.30	01 =	100	10.10	5-03 =
57.20	4-00.05	200	13.20	59.30
58.30	59.10	294 300	16.55	55.40
		400	20.20	51.45
		500	23.40	48 =
		600	27.30	4-43.15
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Diamond Head Light, N 24° 30' E., 10 2/10'

all  
foss.  
2



— with Alexander's Brace Bar.

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Tanner trawl = 3 sps macrurids, 2 unknown; scorpaena; gorgonian; very few prawns; few antedon; few dentalium; worm tubes with few annelids; few lamellibranchs.			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Bridle stop carried away on one side; net torn.

*Hutchinson*

No. *4186* Date *May 7-02*

Sigsbee Machine. # *1* Reel. *Harry*

Turns *272* Cor. + *27* Depth *299 fms*

Shot or lead *36*

Bottom *lt. br. s. m.*

Bottom temperature *44°*

No. of thermometer *98233* Cor. *0*

Corrected temperature *44-*

Air *75* Surface *76* Drift

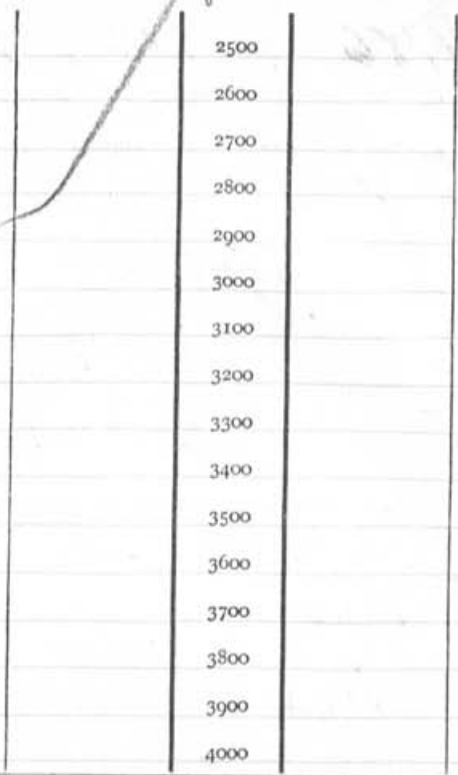
Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5-05.35</i>	<i>11.30</i>	0		
<i>06.20</i>	<i>10.30</i>	100		
<i>07.10</i>	<i>09.50</i>	200		
<i>08-</i>	<i>5:09 =</i>	<i>272</i>		
		<del>900</del>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



Diamond Head Light, N 36° E., 83/10'

OK  
J. V. S.



SERIAL TEMPERATURES.

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

REMARKS:

3926

No. 3926 Date May 10 1907

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 740 Surface

750 Drift 3/10

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
		200		
		300		
7-15	7-20	400	10 <sup>m</sup>	
		500		
		600		
7-27	7-37	700	10 <sup>m</sup>	
		800		
		900		
7-42	7-52	1000	10 <sup>m</sup>	
		1100		
		1200		
7-56	8-06	1300	10 <sup>m</sup>	
		1400		
		1500		
8-12	8-22	1600	10 <sup>m</sup>	
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Honolulu to Laysan Id.,  
 21° 13' N., 158° 43' 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	Surface Hauls: some fine filamentous			
50	algae; many yg. crabs; many young			
100	octopus; many kalobates; salpa;			
200	larval sole; myctophum; larval			
300	squilla; syphonophore bells; few			
400	copepods; larval peristedion; flying			
500	fish; sagitta; few macrurans;			
600	few ostracods; little sphaerozoum.			
700	The first haul contained large quan-			
800	tity in which yg. crabs & octopus pre-			
900	dominated. The second haul showed			
1000	a great decrease in quantity, not $\frac{1}{4}$			
	first. The third had many			

REMARKS:

myctophum and kalobates, but few crabs and other animals. Fourth haul almost nothing but myctophum, which were in increased numbers. Fifth haul like 4<sup>th</sup>.

50.  
April

P.L. = 85.9

No. *Dr. 3927* Date *11 May, '02.*

*Sigsbee* Machine. Reel. *Navy*

Turns *2340* Cor. + *189* Depth *2529 fms.*

Shot or lead *60 lbs.*

Bottom *S. M.*

Bottom temperature *35. -*

No. of thermometer *98233.* Cor. *70.1*

Corrected temperature *35.1*

Air *74.* Surface *76.* Drift *N 70° W.*

Trawl or dredge *Surface Net.*

P. 111 SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6.00.50</i>	<i>6.57.35</i>	<i>0</i>	<i>Surface Net =</i>	
<i>01.40</i>	<i>56.25</i>	<i>100</i>	<i>P.M. 7.23.06</i>	<i>7.13.05</i>
<i>02.30</i>	<i>55.15</i>	<i>200</i>	<i>7.18.10</i>	<i>7.28.15</i>
<i>03.20</i>	<i>54.00</i>	<i>300</i>	<i>7.33.10</i>	<i>7.43.30</i>
<i>04.15</i>	<i>53.50</i>	<i>400</i>	<i>7.47.30</i>	<i>7.57.30</i>
<i>05.15</i>	<i>51.40</i>	<i>500</i>	<i>8.02.30</i>	<i>8.12.40</i>
<i>06.15</i>	<i>50.35</i>	<i>600</i>		
<i>07.15</i>	<i>49.30</i>	<i>700</i>	<i>8.17.00</i>	<i>8.27.00</i>
<i>08.15</i>	<i>48.15</i>	<i>800</i>		
<i>09.15</i>	<i>47.05</i>	<i>900</i>	<i>4<sup>th</sup> haul contd =</i>	
<i>10.20</i>	<i>46.00</i>	<i>1000</i>	<i>Crustacea in</i>	
<i>11.20</i>	<i>44.50</i>	<i>1100</i>	<i>much less quantity -</i>	
<i>12.30</i>	<i>43.25</i>	<i>1200</i>	<i>5<sup>th</sup> haul: Flying</i>	
<i>13.40</i>	<i>42.30</i>	<i>1300</i>	<i>fish and myctophum;</i>	
<i>14.55</i>	<i>41.15</i>	<i>1400</i>	<i>few haloballs; no squills</i>	
<i>16.10</i>	<i>40.10</i>	<i>1500</i>	<i>or crabs; medusa, "bells,"</i>	
<i>17.25</i>	<i>38.55</i>	<i>1600</i>	<i>small crustacea, cope-</i>	
<i>18.40</i>	<i>37.40</i>	<i>1700</i>	<i>pods + others. Total</i>	
<i>19.50</i>	<i>36.25</i>	<i>1800</i>	<i>quantity comparatively</i>	
<i>21.05</i>	<i>35.10</i>	<i>1900</i>	<i>little;</i>	
<i>22.20</i>	<i>33.55</i>	<i>2000</i>	<i>6<sup>th</sup> haul: Flying</i>	
<i>23.40</i>	<i>32.35</i>	<i>2100</i>	<i>fish + myctophum</i>	
<i>25.00</i>	<i>31.15</i>	<i>2200</i>	<i>in numbers; all</i>	
<i>26.20</i>	<i>29.50</i>	<i>2300</i>	<i>others greatly reduced</i>	
<i>6.26.30</i>	<i>6.29.00</i>	<i>2340</i>		

21° 31' N., 161° 55' W.

*OK*  
*J.A.*

		2500	
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
4600	246	3500	
2340	57	3600	
<u>2260</u>	<u>189</u>	3700	
10	2340	3800	
10	<u>2579</u>	3900	
10		4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
10				
25	Gentle Breeze fr. E. N. E. -			
50	Smooth Sea - Clear and			
100	cloudy, misty.			
200	surface Net contents: Many larval			
300	squilla; few medusae (2 kinds); many			
400	pink copepods; few holobates.			
500	1 <sup>st</sup> haul: Large mass stomatopods; no			
600	crabs; many copepods; many very small			
700	larval fish; no myctophum; 1 flying fish.			
800	2 <sup>d</sup> haul: nearly equal amount of larval			
900	squilla, with few crabs; perhaps fewer			
1000	copepods, several myctophum, 1 argonauta, few holobates; 1 medusa.			

3<sup>d</sup> haul = 2 or 3 larvae. REMARKS: squids; few crabs; 1 medusa; few holobates; few copepods. The quantity and variety strikingly less. Several flying fish; several myctophum.

4<sup>th</sup> haul: Flying fish; several myctophum; few physalia; no squillas; few crabs; 1 pteropod; 1 phronima; few holobates; 1 zanthina; syphonophore bells as in previous hauls; calpa; few copepods. (entocoron)

No.

Date

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

## SOUNDING WIRE.

## DREDGE ROPE.

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		

Surface net  
 7-15 8-30  
 8-35 8-45

2-60

6-35

---

2A-

9-60

48-35