

#8.

Hawaiian Explorations.

D^r. 3946 - D^r. 3948.

Hy. 4215 - Hy. 4260.

May 19th - 21st, 1902.

Next Hy. 4215.

" Dr. 3946.

Thermometer 98.000

	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. = 47.1

No. *Hy. 4215*. Date *19 May '02*.*Sigsbee* Machine. *1* Reel. *Navy*.Turns *337* Cor. + *34* Depth *371 fms.*~~Shot or lead~~ *36 lb.*Bottom *fine wh. S. R.*Bottom temperature *44. -*No. of thermometer *92446*. Cor.

Corrected temperature

Air *74. -* Surface *74. -* Drift~~Trawl or dredge~~

P.M. SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2. 37.45</i>	<i>47.05</i>	0		
<i>38.55</i>	<i>46.00</i>	100		
<i>39.55</i>	<i>44.55</i>	200		
<i>41.00</i>	<i>43.45</i>	300		
<i>2. 41.25</i>	<i>2. 43.00</i>	<i>337</i> 400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Is Light, N 86° E, 8 ²/₁₀'

OK
K.C.
J.C.

337
34
37'

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:

*not
A. J. Hutchinson*

P.L. = 48.1

No. *D. 3946* Date *19 May 02.*

Sigsbee Machine. *N1* Reel. *Navy*

Turns *112* Cor. + *11* Depth *124 fms.*

Shot or lead *36 lbs.*

Bottom *wh. S. Lm. Co. frag.*

Bottom temperature *64.2*

No. of thermometer *92446* Cor.

Corrected temperature *(X) 24° W.*

Air *76.* Surface *74.* Drift *1 1/10'*

Trawl or dredge *8' Tanner with apron*

P.M. SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3.07.30</i>	<i>3.12.10</i>	<i>0</i>	<i>3.18.00</i>	<i>08.10</i>
<i>08.40</i>	<i>10.50</i>	<i>100</i>	<i>22.00</i>	<i>403.15</i>
<i>3.09.00</i>	<i>3.10.30</i>	<i>112</i>	<i>26.00</i>	<i>59.10</i>
		<i>250.</i>	<i>3.28.00</i>	<i>3.54.00</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>		

Laysan Is Light, ~~585° E.~~ 8.1' 585° E., 8.0'

OK
xcl. 8.
/

113
111
124

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:

Water haul; no indication
of trawl having been on bottom.

607.
Hutchinson
 No. *3947* Date *19 May '02.*
Sigsbee Machine *N. 1* Reel. *Navy*
 Turns *181* Cor. + *18* Depth *199 fms.*
 Shot or lead *36 lbs.*
 Bottom *fine wh. S. bk. Sh.*
 Bottom temperature *56.5°*
 No. of thermometer *98234.* Cor. *-0.3*
 Corrected temperature *56.2°* { *N 61° E,*
 Air *74.* Surface *74.* Drift *2 1/10'*
 Trawl or dredge *Scanner with apron*

P.M. SOUNDING WIRE.		TURNS.	P.M. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4-10.40</i>	<i>16.05</i>	0	<i>4-22.30</i>	<i>5.37.50</i>
<i>11.45</i>	<i>15.00</i>	100	<i>27 =</i>	<i>33.10</i>
<i>12.45</i>	<i>4-14.00</i>	<i>181</i>	<i>30.30</i>	<i>28.30</i>
<i>Marker and f</i>		300	<i>34.10</i>	<i>24.30</i>
		400	<i>38.05</i>	<i>20.10</i>
<i>Sta 5 3946 f</i>		500	<i>43.00</i>	<i>5-15.10</i>
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Longwood Light, S 78° E., 8 1/10'

OK
S.C.B.

181
18
199

	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				

Tanner Trawl: REMARKS:

2 *Scorpaena remigera*; 1 labroid;
1 *munida*; 1 shrimp.

Hutchinson

No. *4216* Date *May 19, 1902*

Sigsbee Machine. *#1* Reel. *Wavy*

Turns *88* Cor. + *9* Depth *97 fms.*

~~Shot or lead~~ *36 lbs.*

Bottom *wh S. bk. brs and Sh.*

Bottom temperature *67.7*

No. of thermometer *98234* Cor. *-0.2*

Corrected temperature *67.5*

Air *77* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5-4205</i>	<i>45¹⁰</i>	<i>0</i>		
<i>43 =</i>	<i>5:44⁰⁰</i>	<i>88</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		

Marks end of
the 15 3947

Laysan Is Light, S 66° E., 7' 10'

OK
Heb.
2

88
9
97

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
 No. *4* 4217 Date *May 19-02*
Tanner Machine. Reel.

Turns *40* Cor. + *2* Depth *42 fms*

~~Shot or lead~~ *26 lbs.*

Bottom *S. Co. Sh.*

Bottom temperature

73°

No. of thermometer *98234* Cor. *0*

Corrected temperature

73°

Air *74* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6:02.10</i>	<i>03.40</i>	<i>40</i>		
<i>02.30</i>	<i>03-</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		

Lepan Id Light, S 66° E., 6 1/10'

OK
J. E. B.
J. E. B.

496
40
456

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. *Hy 4318.* Date *20 May '02.**Hand* Machine. ~~Reel.~~Turns *—* Cor. + *—* Depth *10 fms*~~Shot or lead~~ *9 #*Bottom *S. Co. sh.*

Bottom temperature

No. of thermometer

Corrected temperature

Air *72*Surface *74*

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

6 12

12

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Laysan Id Light 882° 30' E., 1.1'

OK
H.C.B.
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:

Found. L. 4218-19, dark blue.
9.10. 12 1/4. 9 1/2. 12. 9. 9.

No. *Hy 4219* Date *20 May 1902*
Hand Machine. Reel.
 Turns — Cor. + — Depth *9 fms*
 Shot or lead *9#*
 Bottom *S. Co. Sh*
 Bottom temperature
 No. of thermometer }
 Corrected temperature } *none* Cor.
 Air *73* Surface *74* Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

625

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

Layman's Light. N 75° E. 1.

OK
2500
-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:

Bot 4219 - 20, Hand:

14 1/2. 14 1/2. 14 1/2. 14 3/4. 13 1/2.

14. 14. 12 3/4. 13. 10 1/2. 12 3/4. 12.

11 3/4. 11. 9. 10. 9 1/2. 11 3/4. 9 1/2. 4

No. *4220.* Date *20 May 02*
Hand Machine. Reel.
 Turns — Cor. + — Depth *11 fms*
~~Shot or lead~~ *9#*
 Bottom *S. Co. sh.*

Bottom temperature

No. of thermometer

none Cor.

Corrected temperature

Air *74* Surface *74* Drift

Trawl or dredge

Am SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

648

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

Laysan Light, N 37° E., 15/10'.

OK
recd.
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:

4220-21, stand -
11. 11. 12. 13 1/2. 14. 14. 13. 13. 15. 10 1/2
10. 9 3/4. 9 3/4. 11. 9 3/4. 12. 12 1/4
14 1/4.

No. *Hy 4221*. Date *20 May '02*
Lucas Machine. Reel.
 Turns — Cor. + — Depth *14½ fms*
 Shot or lead *9#*
 Bottom *S. Co. Sh.*
 Bottom temperature
 No. of thermometer } *none* Cor.
 Corrected temperature
 Air *76* Surface *74* Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

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

Laysan Light, N 17° 30' E., 2 ⁴/₁₀'

OK
500.
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:

No. *Hy. 4222*. Date *20 May '02*
Hand Machine. Reel.
 Turns — Cor. + — Depth *15 fms*
Shot or lead 9# *+ 14 3/4*
 Bottom *S. Co. Sh.*
 Bottom temperature }
 No. of thermometer } *none* Cor.
 Corrected temperature }
 Air *76* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

722

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

Laysan Light, N 16° E., 2 1/10'

OK
50 ft.
5 ft. 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:

Stairway

P.L. 60.3

No. 4223 Hy Date May 20, '02

Tanner Machine. - Reel. -

Turns 13 Cor. + 1 Depth 14 fms

Shot or lead 26 lbs

Bottom C.S. m. S. brk Sh.

Bottom temperature

No. of thermometer None Cor.

Corrected temperature

Air 76 Surface 74 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.34.00	7.35	0		
		13		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan I Light, N 10° 30' E., 3 8/10'

OK
H. J. J.

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. = 61.5

507

No.

Hy 4224

Date

20 May '02

Tanner Machine.

Reel.

Turns 12 Cor. + 1

Depth 13 fms

Shot or lead 26 lbs.

Bottom Co R. wh S. brk sh.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 76

Surface 74

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7.53.00	7.55.05	0		
		12		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Id Light. N 8° 30' E., 4 8/10'

OK
800.
5-12

	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. - 62.3

207

No.

Hy 422.5

Date

20 May '02

Tanner Machine. - Reel. -

Turns 54 Cor. + 2

Depth 56 fms

~~Shot or lead~~ 26 lbs.

Bottom fine mk S. brk Sh.

Bottom temperature

No. of thermometer

None Cor.

Corrected temperature

Air

76

Surface

74

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

8.8.30

8.10.30

0

54

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Laysan Light, N 6° E., 5 8/10'

812
H.C.
H.C.
H.C.

196
54
142

12

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. = 62.3

No. *Hy 4220*Date *20 May 02*

Machine. - Reel.

Turns *279* Cor. + *9* Depth *288 fms*Shot or lead *26 lbs.*Bottom *fine wh S. brk sh.*

Bottom temperature

No. of thermometer } *None* Cor.

Corrected temperature

Air *76* Surface *74* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

8.19.00	8.27.30	0
20.00	26.00	100
20.50	24.10	200
8.21.40	8.21.55	279

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Laysan Id Light, N 40° 30' E, 6 7/10'

OK
H. H. H.

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

496

279

217

12

9

279

288

SERIAL TEMPERATURES.

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

REMARKS:

No. *Hy 4227* Date *20 May '02**Sigsbee* Machine. *41* Reel. *Navy*Turns *712* Cor. + *71* Depth *783 fms.*~~Shot or lead~~ *36 Lbs.*Bottom *co. R.*Bottom temperature *37.4*No. of thermometer *98234*. Cor. *+0.1*Corrected temperature *37.5*Air *76*. Surface *74*. Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>8. 39.00</i>	<i>8. 56.20</i>	<i>0</i>		
<i>40.10</i>	<i>55.10</i>	<i>100</i>		
<i>41.10</i>	<i>54.00</i>	<i>200</i>		
<i>42.10</i>	<i>53.00</i>	<i>300</i>		
<i>43.10</i>	<i>52.05</i>	<i>400</i>		
<i>44.20</i>	<i>50.45</i>	<i>500</i>		
<i>45.30</i>	<i>49.30</i>	<i>600</i>		
<i>46.55</i>	<i>48.25</i>	<i>700</i>		
<i>8. 47.10</i>	<i>8 48.10</i>	<i>712</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>		

Laysan Id Light, N 3° 30' E., 7 ⁷/₁₀'

OK
KOS.
Kis

712
71
783

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. = 65.3

No. *Hy. 4228*. Date *20 May '02**Sigsbee* Machine. Reel. *Navy*Turns *954* Cor. + *94* Depth *1048 fms.*Shot ~~on lead~~ *35 lbs.*Bottom *(no specimen.)*Bottom temperature *36. -*No. of thermometer *98234*. Cor. *+0.1*Corrected temperature *36.1*Air *77. -* Surface *73. -* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.10.10</i>	<i>9.33.40</i>	0		
<i>11.10</i>	<i>32.30</i>	100		
<i>12.05</i>	<i>31.20</i>	200		
<i>13.05</i>	<i>30.15</i>	300		
<i>14.10</i>	<i>29.10</i>	400		
<i>15.15</i>	<i>28.00</i>	500		
<i>16.30</i>	<i>27.00</i>	600		
<i>18.00</i>	<i>25.50</i>	700		
<i>19.20</i>	<i>24.40</i>	800		
<i>20.40</i>	<i>23.40</i>	900		
<i>9.21.20</i>	<i>9.21.55</i>	954 1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lupen Light, N 40° E, 8 7/10'

OK
HCB

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

4860
954
3906

260
166
934

1048

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. = 67.3

No. *Hy. 4229* Date *20 May '02**Sigsbee* Machine. #1 Reel. *Navy*Turns *501* Cor. + *50* Depth *551 fms.*Shot or lead *35 lbs.*Bottom *no specimen*Bottom temperature *39.0*No. of thermometer *98234* Cor. *+0.1*Corrected temperature *39.1*Air *77.* - Surface *74.* - Drift

Trawl or dredge

A.M. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10.00.30</i>	<i>10.12.20</i>	0		
<i>01.20</i>	<i>11.10</i>	100		
<i>02.10</i>	<i>10.00</i>	200		
<i>03.05</i>	<i>08.55</i>	300		
<i>04.10</i>	<i>07.50</i>	400		
<i>10.05.20</i>	<i>10.06.35</i>	500 501		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Larpan Light, N 8° 30' W, 7 ²/₁₀'

OK
J.G.H.
3

50'
50'
55'

	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. = 69.3

No. *H. 4230* Date *20 May '02**Tanner* Machine. — Reel.Turns *12* Cor. + *1* ✓ Depth *13* fms.~~Shot or lead~~ *26 Lbs.*Bottom *mk. S.*Bottom temperature *72.6*No. of thermometer *98234*. Cor. *0*Corrected temperature *72.6*Air *77.* — Surface *74.* — Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10.26.40 *10.28.10**0**12*~~*100*~~*200**300**400**500**600**700**800**900**1000**1100**1200**1300**1400**1500**1600**1700**1800**1900**2000**2100**2200**2300**2400*

Laysan Light, N 30° 30' W., 5'

OK
H.O.B.
2

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

496

12

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. 70.3

No.

No.

H.Y. 4231.

Date

20 May '02.

Hand Machine.

Reel.

Turns

Cor. +

Depth

13

fms.

Shot or lead

9 lbs

Bottom

m. S.

Bottom temperature

No. of thermometer

None

Cor.

Corrected temperature

Air

77. -

Surface

74. -

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10.52.00

0

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Laysan Light, N 42° 30' 4" N, 4 6/10'

OK
X 1000
in

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

496 12

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. = 71.3

No.

Hy. 4232 Date 20 May '02

Hand

Machine.

Reel.

Turns

Cor. +

Depth

15 fms.

Shot or lead

9 Lbs.

Bottom

m. S.

Bottom temperature

No. of thermometer

None Cor.

Corrected temperature

Air

78. -

Surface

76. -

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

11.03. -

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

Laysan Is Light, N 44° W, 3 7/10'

OK
KCB
- 2

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

496

12

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. = 72.3

007.

No. *H/ 4233* . Date *20 May '02.**Hand* Machine. Reel.Turns — Cor. + — Depth *13. fms.*~~Shot or lead~~ *9 lbs*Bottom *rk. S.*

Bottom temperature

No. of thermometer } *none* Cor.

Corrected temperature

Air *78.* - Surface *76.* - Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

11. 13. -

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

Laysan Light, N 45° 30' W, 28¹⁰'

OK
J.C.B.
h

	2500		
	2600		
	2700		
	2800		
	2900		
	3000		
	3100		
	3200		
	3300		
	3400		
	3500		
	3600		
	3700		
	3800	496	12
	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:

Soundings bet. 4233 and 4234.
Haul Lead: 13. 12. 14. 12. 10.

807.

P.L. = 73.3

No. *Hy. 4234* Date *20 May 02*
Hand Machine. Reel.

Turns — Cor. + — Depth *11 fms.*

Shot or lead *9 lbs.*

Bottom *mk. S.*

Bottom temperature

No. of thermometer } *None* Cor.

Corrected temperature

Air *78.* - Surface *76.* - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.19</i>		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		

Laysan Light, N 45° 30' W, 2 1/10'

OK
HCB.
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:

From 4234 - 35
 Hand: 12 1/2, 12, 11, 11, 12, 10, 9.
 10.9. ~~8.5. 10.7~~

P.L. = 74.3

No.

Hy 4235

Date

20 May 02

Ans

Machine.

Reel.

Turns

Cor. +

Depth

8 1/2 fms

Shot or lead

7 Lbs.

Bottom

ml. S.

Bottom temperature

No. of thermometer

None Cor.

Corrected temperature

Air

78. -

Surface

76. -

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

11.30. -

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

Laysan Light, N 85° W., 2'

OK
H.A.
/

	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:

Soundings bil. 4235-4236, by hand.
 10. 10. 11. 12. 11. 12. 13. 13. 10.
 13. 14. 13. 12. 14. 14. 14. 14. 15. 18.
 16.

507
Hutchinson
 Oct. Log. 77.2
 No. *Hy. 4236* Date *20 May '02*
Sigsbee Machine. #1 Reel. *Harvey*
 Turns *20* Cor. + *2* Depth *22 fms*
 Shot or lead *36 lbs.*
 Bottom *crs. wh S. blk Sh.*
 Bottom temperature
 No. of thermometer } *none* Cor.
 Corrected temperature
 Air *77* Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12-10.50</i>	<i>12-12.45</i>	0		
<i>11.10</i>	<i>12-12.25</i>	20 <i>20</i>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lupard Light, N 80° 30' W, 5.1

612
H.C.M.
3

20
2
22

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

496

SERIAL TEMPERATURES.

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

REMARKS:

not
Hutchinson

P.L. 78.2

No. *4237* Date *May 20-'02.*

Sigsbee Machine. #1 Reel. *Navy*

Turns *15* Cor. + *2* Depth *17 fms*

~~Shot or lead~~ *30 lbs.*

Bottom *wh S.*

Bottom temperature

No. of thermometer } *none* Cor.

Corrected temperature

Air *77* Surface *75* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12-32.10</i>	<i>33 ¹⁵</i>	0		
<i>32.30</i>	<i>33 =</i>	15		
		400		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light, N 80° 30' W, 6.

OK
J. J. J.
/

152
/ 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:

Autolinn
 No. *4238* Date *May 20-02.*
Tanner Machine. Reel.
 Turns *38* Cor. + *2* Depth *40 fms*
 Shot or lead *26 lbs.*
 Bottom *wh S. bk. Sh.*
 Bottom temperature
 No. of thermometer } *none* Cor.
 Corrected temperature
 Air *77* Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>19-48.10</i>	<i>49.30</i>			
<i>48.30</i>	<i>49. =</i>	<i>38</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		

Laypond Light, N 80° W, 6 ⁸/₁₀'

OK
H.C.B.
/

496
38
—
458

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. 80.2

No. *4239* Date *May 20-02*

Tanner Machine. Reel.

Turns *440* Cor. + *12* Depth *452 fms*

Shot or lead *26 lbs.*

Bottom *wh S. bk Sh*

Bottom temperature

No. of thermometer } *none* Cor.

Corrected temperature

Air *77* Surface *75* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>07M 1-00.55</i>	<i>15.30</i>	0		
<i>01.55</i>	<i>14.15</i>	100		
<i>03.05</i>	<i>12.30</i>	200		
<i>04.05</i>	<i>10.10</i>	300		
<i>05.10</i>	<i>07.35</i>	400		
<i>05.50</i>	<i>1-06.40</i>	440 500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light. N 80° W. 1 1/10'

OK
H.C.S.
N

496
440
56

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
 No. *4240* Date *May 20-02*
Sigsbee Machine. # *1* Reel. *Heavy*
 Turns *540* Cor. + *54* Depth *594 fms*
 Shot or lead *35 lbs*
 Bottom *no specimen -*
 Bottom temperature *39.1°*
 No. of thermometer *98234* Cor. *+0.1*
 Corrected temperature *39.2*
 Air *77* Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1-28.25</i>	<i>41.50</i>	0		
<i>29.25</i>	<i>40.45</i>	100		
<i>30.30</i>	<i>39.45</i>	200		
<i>31.35</i>	<i>38.40</i>	300		
<i>32.35</i>	<i>37.30</i>	400		
<i>33.30</i>	<i>36.30</i>	500		
<i>34 =</i>	<i>1-35.50</i>	<i>540</i>		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light, N 83° W, 8⁶/₁₀'

816
1000

540
54
594

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. 83.2
 No. *4241* Date *May 20-02*
Sigsbee Machine. #1 Reel. *Harvey*
 Turns *54* Cor. + *5* Depth *59 fms.*
 Shot or lead *35 lbs.*
 Bottom *Rocks*
 Bottom temperature *71.2*
 No. of thermometer *78234* Cor. *-0.2*
 Corrected temperature *71.0*
 Air *77* Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2:06.40</i>	<i>09.05</i>	<i>54</i>		
<i>07.15</i>	<i>08.30</i>	<i>100</i>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light, S 88° 30' N., 7⁵/₁₀'

616
H.C.
H.C.

54
5
59

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. *Antismian* P.L. 85.2

No. *4242* Date *May 20 - '02.*

Sigsbee Machine. # *7* Reel. *Ham*

Turns *20* Cor. + *2* Depth *22 fms*

Shot or lead *36 lbs*

Bottom *wh S. Rocks.*

Bottom temperature *74.5°*

No. of thermometer *98234* Cor. *0*

Corrected temperature *74.5*

Air *77* Surface *75* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-31.05</i>	<i>33.05</i>	0		
<i>31.30</i>	<i>32.30</i>	<i>20</i>		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light. S 79° W., 6 8/10'

OK
H. L. M.

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.

Hy 4243

Date

May 20-02.

Tanner

Machine.

Reel.

Turns

20

Cor. +

1

Depth

21 fms

Shot or lead

26 lbs.

Bottom

or

Bottom temperature

74°

No. of thermometer

78234

Cor. 0

Corrected temperature

74-

Air

77

Surface

75-

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

3-01.20

2.10

0

01.30

3.-150

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Laysan Is Light, S 52° W, 6.

OK
JTCB.
- 2

496
20
476

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 P.L. 89.2
 No. *Hq 4244* Date *May 20-02.*
Tanner Machine. — Reel.
 Turns *20* Cor. + *1* Depth *21 fms*
 Shot or lead *26 lbs.*
 Bottom *wh S. lo B. bk Sh.*
 Bottom temperature
 No. of thermometer *98234* Cor. —
 Corrected temperature *73.8*
 Air *77* Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-13.30</i>	<i>14.25</i>	<i>0</i>		
<i>13.50</i>	<i>14.10</i>	<i>20</i>		
		<i>100</i>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light, S 53° W., 5.1'

OK
H.C.S.
- in

496

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:

707
Hutchinson *P.L. 90.2*
 No. *4245* Date *May 20-02,*
Tanner Machine. Reel.
 Turns *19* Cor. + *1* Depth *20 fms*
 Shot or lead *26 lbs.*
 Bottom *wh S. bk Sh.*
 Bottom temperature *74.3*
 No. of thermometer *98234* Cor. *0*
 Corrected temperature *74.3*
 Air *77* Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-25.30</i>	<i>26.45</i>	0		
<i>25.50</i>	<i>26.20</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light, S 53° W., 4/10'

OK
H.C.S.
R

496
19

477

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				

Soundings between No. 4245-4246

REMARKS:

15. 15. 13. 13. 12 3/4. 10 1/2.
14. 13. 12 1/2. 12 3/4. 12 3/4.

No. *44246* Date *May 20-02**Sand* Machine. Reel.

Turns

Cor. +

Depth

~~Shot or lead~~

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

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

Laysan Light. S. 54° W. 2 1/10'

OK
J.C.B.
/

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. *Stacy*
 No. *42417* Date *May 20* 02
Comet Machine. Reel.
 Turns *18* Cor. + *✓* Depth *19* fms
 Shot or lead *26* R. Sea Weck
 Bottom
 Bottom temperature
 No. of thermometer *June* Cor.
 Corrected temperature
 Air *76* Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4.00</i>	<i>204 00 10</i>	<i>0</i>		
<i>"</i>	<i>30 4.00 35</i>	<i>18</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		

Lampard Light S 25° W, 1 ⁹/₁₀'

OK
H.C.
in

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

496
18
478

17
11

SERIAL TEMPERATURES.

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

REMARKS:

Stacy *P. 94.3*
 No. *4248* Date *20 May 02*
Sigsbee Machine. Reel. *✓ 100 y*
 Turns *20* Cor. + *2* Depth *22 fms*
 Shot or lead *36 #*
 Bottom *R. sea weed*
 Bottom temperature
 No. of thermometer *✓ 1111* Cor.
 Corrected temperature
 Air *76* Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4:10.40</i>	<i>11.50</i>	<i>20</i>		
<i>11.10</i>	<i>4:11.30</i>	<i>100</i>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light, 819 30' N., 2⁹/₁₀'

OK
HCB
✓

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:

Stacy
 No. *4249* Date *20 May 02*
Sigsbee Machine. Reel. *Taney*
 Turns *18* Cor. + *2* Depth *20 fms*
 Shot or lead *36 lb*
 Bottom *R. fine weed*
 Bottom temperature
 No. of thermometer *None* Cor.
 Corrected temperature
 Air *76* Surface *70* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4.25.05</i>	<i>20.50</i>	0		
<i>20.20</i>	<i>4.20.30</i>	18		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lupando Light, S 15° W., 3 1/2 mi

OK
HCB
-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:

No. 4250 Date 20 May
 Machine. Reel.
 Turns 19 Cor. + 2 Depth 21 fms
 Shot or lead 36 #
 Bottom R. Sh.
 Bottom temperature
 No. of thermometer ~~None~~ Cor.
 Corrected temperature
 Air 76 Surface 75 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.29.10	20.00	0		
29.30	4.29.40	19		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light, S 11° 30' W., 4 8/10'

OK
H.C.H.
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:

507. *Stacy*
 No. *4257* Date *20 May 02*
Chapin Machine. Reel.
 Turns *18* Cor. + *1* Depth *19 fms*
 Shot or lead *26 #*
 Bottom *R. Sh. sea weed*
 Bottom temperature
 No. of thermometer *Time* Cor.
 Corrected temperature
 Air *76* Surface *75* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4.38.30</i>	<i>4.39.15</i>	0		
<i>4.39.50</i>	<i>4.39.00</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light, S 12° 30' N, 8 10'

OK
H.C.B.
2

496 12

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:

Station *P. 5. 98.3*
No. *4257* *Date* *20 May 02*
Machine. *Reel.*
Turns *59* *Cor. +* *2* *Depth* *60 fms*
Shot or lead *26*
Bottom *S.R. S.A.*
Bottom temperature
No. of thermometer *Time* *Cor.*
Corrected temperature
Air *76* *Surface* *75* *Drift*
Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4, 49, 30	4, 57.00	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light, S 90° W, 6 7/10'

OK
H.C.B.
M

4916
58
438

12
10
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:

No. 4253 Date 20 May 08

Machine. Reel.

Turns 352 Cor. + 35 Depth 387

Shot or lead 36

Bottom G. S. P.

Bottom temperature 42.8

No. of thermometer 9844 Cor. -0.2

Corrected temperature 42.6

Air 75 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

02.10 5 11 40
 03.30 10 30
 04.30 09 20
 05.36 08 10
 06.10 07 10

352

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

Lizard Light S 11° W. 1/2 10'

OK
H.C.S.
3

352
35
87
20.

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:

Stolley
 No. *4254* Date *20 May 02*
Sigsbee Machine. *1* Reel.
 Turns *799* Cor. + *80* Depth *879 fms.*
 Shot or lead *35 lbs.*
 Bottom *no specimen -*
 Bottom temperature *36.7°*
 No. of thermometer *98234* Cor. *+0.1*
 Corrected temperature *36.8*
 Air *75.* - Surface *75.* - Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>P. 711</i> <i>5. 22.30</i>	<i>5.40.20</i>	0		
<i>23.25</i>	<i>39.20</i>	100		
<i>24.10</i>	<i>38.15</i>	200		
<i>25.00</i>	<i>37.10</i>	300		
<i>26.00</i>	<i>36.00</i>	400		
<i>27.05</i>	<i>34.50</i>	500		
<i>28.20</i>	<i>33.45</i>	600		
<i>29.30</i>	<i>32.40</i>	700		
<i>5. 30.45</i>	<i>5.31.30</i>	<i>799</i>		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Lampard Light, S 10 N. 87 10'

OK
82 1/2

799
80
879

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.S. = 9.5

No. *4255* Date *21 May 02*

Hand Machine. Reel.

Turns — Cor. + — Depth *14 fms*

Shot or lead *9 lbs*

Bottom *S. Co. Sh.*

Bottom temperature

No. of thermometer } *None* Cor.

Corrected temperature

Air *78* Surface *75.* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

7.05.

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

Laysan Light, East, 15/10'

OK
J.C.H.
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:

Soundings bet. Hy 4255 - 4256 by hand.
14. 14 3/4. 14 3/4. 17. 15. 18 1/4. 19 3/4.
21.

P.L. = 10.5

No.

Hy. 4256

Date

31 May 02

Hand

Machine.

Reel.

Turns

Cor. +

Depth

21 fms

Shot or lead

8. 10. 18.

Bottom

Bottom temperature

No. of thermometer

} none Cor.

Corrected temperature

Air

78.

Surface

75.

Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

7/18.30

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

Laysan Light, S 59° 30' E, 2 1/10'

OK
J.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:

Soundings bet Hy 4256 - 4257, by hand.
21. 21.

No. *Hy 4257* Date *21 May 02.*

Tanner Machine. - Reel. -

Turns *20* Cor. + *1* Depth *21 fms.*Shot or lead *26 lbs.*Bottom *cr. R.*

Bottom temperature

No. of thermometer } *None* Cor.

Corrected temperature

Air *78.* - Surface *75.* - Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7.30.15</i>	<i>7.31.00</i>	0		
		<i>20</i>		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Leyland Light S 51° 30' E, 3 1/10'

OK
JUL
/M

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

496
20
—
476

12

SERIAL TEMPERATURES.

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

REMARKS:

507.
Shutkinson

P.L. = 12.5

No. *H4* 4258 Date *21 May '02.*
anner Machine. Reel.
Turns *18* Cor. + *1* Depth *19 fms.*
Shot or lead *26 lbs*
Bottom *br mgy.*
Bottom temperature *74.5*
No. of thermometer *98234* Cor. *0*
Corrected temperature *74.5*
Air *78.* Surface *75.* Drift
Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>43.20</i>	<i>44.05</i>	<i>0</i>		
<i>43.40</i>	<i>43.45</i>	<i>18</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		

Laysan Light, S 48° E., 4.1'

OK
J.C.B.
3

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

496.
178

SERIAL TEMPERATURES.

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

REMARKS:

Cat Log. 13.05

No. *Hg 4259* Date *May 21st*

Tanner Machine. Reel.

Turns *18* Cor. + *1* Depth *19 fms*Shot or lead *26 lbs.*Bottom *co. rky.*Bottom temperature *74.2°*No. of thermometer *98234* Cor. *0*Corrected temperature *74.2*Air *74* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*7-55.40**56.35**56.05**56.20**0*
18
100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Leupards Light. S 47° E, 5 ⁴/₁₀'

OK
HOS.
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. *Antelmin*
 No. *H4* 4260 Date *May 21st*
Tanner Machine. — Reel.
 Turns *18* Cor. + *1* Depth *19 fms*
 Shot or lead *26 lbs.*
 Bottom *br R.*
 Bottom temperature *74°*
 No. of thermometer *98234* Cor. *0*
 Corrected temperature *74-*
 Air *74* Surface *76* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8-07.15</i>	<i>08.05</i>	0		
<i>07.25</i>	<i>07.40</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		

Laysan Light, S46°E., 6 7/10'

OK
H.C.B.
3

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

496

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. 16.5

No. *5* 3948 Date *May 21st* '02.

Tanner Machine. Reel. —

Turns *36* Cor. + *2* Depth *38 fms*Shot or lead *26 lb.*Bottom *br S.*Bottom temperature *74°*No. of thermometer *98234* Cor. *0*Corrected temperature *74-* { *N 60° E,*Air *74* Surface *76* Drift { *2 1/10'*~~Trawl or dredge~~ *Tangle swabs; 7 Swabs Remp.*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>8-27.20</i>	<i>29 =</i>	<i>0</i>	<i>8.34⁰⁰</i>	<i>9.01 am</i>
<i>27.40</i>	<i>2830 = 36</i>	<i>100 61</i>	<i>36.20</i>	
		<i>75</i>	<i>44⁰⁰</i>	<i>8-56.55</i>
		<i>200</i>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Laysan Light, 845°E., 710'.

OK
JTB.
2

496
36
460

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:

2 samples:
few coralline nodules;
green corallines; algae overgrown
with byzozoa; 1 anomuran crab.

*No.**Date**Machine. Reel.**Turns**Cor. +**Depth**Shot or lead**Bottom**Bottom temperature**No. of thermometer**Cor.**Corrected temperature**Air**Surface**Drift**Trawl or dredge*

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

- 0-60

- 5-35

207 - 30-60

57-35