

84.

2311 ~~7~~ 2386

Aug 562 + Nov 588

Math

..6

Jan 5th 1885

My dear Mr. [unclear]

[unclear]

Best wishes to you and all

My dear Mr. [unclear]

[unclear]

Best wishes to you and all

My dear Mr. [unclear]

[unclear]

Best wishes to you and all

No. 2011 Date Jan 4 1885

Tanner Machine. Reel.

Turns 75 Cor. 11 Depth 79

Shot or lead 35 lb

Bottom cor. S. 15 sp.

Bottom temperature 59.1

No. of thermometer 50140 Cor. -.2

Corrected temperature 59.1

Air 69 Surface 72 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		

2900
 2800
 2700
 2600
 2500
 2400
 2300
 2200
 2100
 2000
 1900
 1800
 1700
 1600
 1500
 1400
 1300
 1200

SEDIMENT TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	TIME	DATE, 1954
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				
210				
220				
230				
240				
250				
260				
270				
280				
290				
300				
310				
320				
330				
340				
350				
360				
370				
380				
390				
400				

REMARKS:

2900 2800 2700 2600 2500 2400 2300 2200 2100 2000 1900 1800 1700 1600 1500 1400 1300 1200

No. 222 Date July 15 1881Machine. Sigsbee Reel.Turns 83 Cor. 15 Depth 83Shot or lead 35Bottom gy. s. bk. sh.Bottom temperature 52No. of thermometer 5211 Cor. -2Corrected temperature 57.8Air 65 Surface 72 DriftTrawl or dredge Sigsbee

SOUNDING WIRE		TURNS.	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
		0		
	12-25	50	12-25	
	80	100	12-25	
		200	12-25	
		300	12-25	
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES

TEMP.	TIME	NO. OF VIALS	TIME	TIME
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS:

No. 2313 Date June 5/08

Sigsbee Machine, Reel,

Turns 70 Cor. + 2 Depth 72

Shot or lead 35

Bottom Co. S. M. = 1/2 f. 10 2/3

Bottom temperature 57.4

No. of thermometer 50742 Cor.

Corrected temperature 57.2

Air 62.7 Surface 73 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

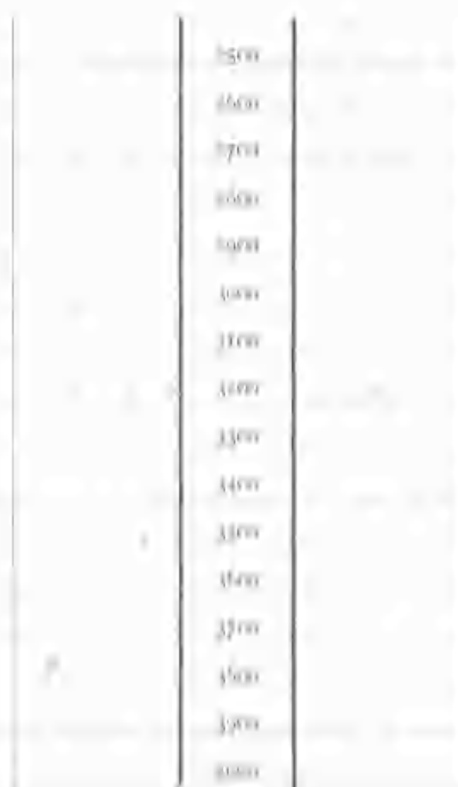
TURNS.

DREDGE ROPE.

DOWN.

UP.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12-13-10	10-40	0	12-25-10	11-15
18-15	18-30	70	2-25	11-15
		100	3-25	11-15
		200	4-25	11-15
		250	5-25	11-15
		300	6-25	11-15
		400	7-25	11-15
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	TIME	NO. WIND
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
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54				
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62				
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68				
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71				
72				
73				
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75				
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78				
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81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				

REMARKS

No. 2314 Date Feb - 5 1905
 Sigbee Machine. Reel. No. 1
 Turns 142 Cor. + 17 Depth 159
 Shot or lead 35^a
 Bottom Cr. S. bk. sp. br. sh.
 Bottom temperature 47.7
 No. of thermometer 52743 Cor. - .3
 Corrected temperature 47.4
 Air 70.2 Surface 59 Drift
 Trawl or dredge Beam trawl

SOUNDING WIRE.		FATHS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1-46-30	16-20	0	11-09-30	01-35
08-40	18-40	100	20-30	18-45
11-45	11-45	142 200	26-15	56-00
		300	29-45	54-00
		400 375	32-50	72-00
		500		19-30
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

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

REMARKS:

North 8th Ave.No. 2315 Date Jan 10 1881

Tanner Machine. Reel.

Turns 30 Cor. + 2 Depth 37Shot or lead 25Bottom fine sand

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 77 Surface 75 DriftTrawl or dredge beam trawl

SOUNDING WIRE

DREDGE ROPE.

SOUNDING WIRE		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>2:04:40</u>	<u>2:10</u>	0	<u>2:08:30</u>	<u>2:12:10</u>
<u>2:05:20</u>	<u>2:05</u>	<u>30</u>	<u>7:00</u>	<u>2:08:10</u>
		200	<u>7:30:20</u>	<u>2:05:10</u>
		300		<u>2:00</u>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

March 8 - fast

No. 2826 Date March 15, 1885

Machine. Reel.

Turns 47 Cor. + 3 Depth 50

Shot or lead 35

Bottom fine sand and shells

Bottom temperature 74

No. of thermometer 50725 Cor. - .0

Corrected temperature 74.0

Air 77 Surface 75 Drift

Trawl or dredge beam trawl

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
8-25-30	28-10	0	24-20	
27-15	27-15	100	26-20	
		200	28-20	
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES:

DEPTH	TEMP.	NO. OF THER.	USE	DATE TEMP.
5				
20				
40				
60				
80				
100				
120				
140				
160				
180				
200				
220				
240				
260				
280				
300				
320				
340				
360				
380				
400				

REMARKS:

[Faint handwritten notes and scribbles, mostly illegible]

507

March 8th 1902

No. 3217

Date

Machine

Machine

Reel

Turns 42 Cor. 2

Depth 40

Shot or lead

Bottom fine sand

Bottom temperature 75

No. of thermometer 5540

Cor. - .0

Corrected temperature

75.0

Air 77 Surface 75

Drift

Trawl or dredge 2 B.Y.

BOUNDING WIRE

DREDGE ROPE

DOWN

UP

TIME

DOWN

UP

11 30-00

31 50

0

11 30-00

31 50-00

11 31-00

31 50

48 100

11 31-00

31 50-00

11 32-00

31 50

200 150

11 32-00

31 50-00

11 33-00

31 50

300

11 33-00

31 50-00

11 34-00

31 50

400

11 34-00

31 50-00

11 35-00

31 50

500

11 35-00

31 50-00

11 36-00

31 50

600

11 36-00

31 50-00

11 37-00

31 50

700

11 37-00

31 50-00

11 38-00

31 50

800

11 38-00

31 50-00

11 39-00

31 50

900

11 39-00

31 50-00

11 40-00

31 50

1000

11 40-00

31 50-00

11 41-00

31 50

1100

11 41-00

31 50-00

11 42-00

31 50

1200

11 42-00

31 50-00

11 43-00

31 50

1300

11 43-00

31 50-00

11 44-00

31 50

1400

11 44-00

31 50-00

11 45-00

31 50

1500

11 45-00

31 50-00

11 46-00

31 50

1600

11 46-00

31 50-00

11 47-00

31 50

1700

11 47-00

31 50-00

11 48-00

31 50

1800

11 48-00

31 50-00

11 49-00

31 50

1900

11 49-00

31 50-00

11 50-00

31 50

2000

11 50-00

31 50-00

11 51-00

31 50

2100

11 51-00

31 50-00

11 52-00

31 50

2200

11 52-00

31 50-00

11 53-00

31 50

2300

11 53-00

31 50-00

11 54-00

31 50

2400

11 54-00

31 50-00

2900
 2800
 2700
 2600
 2500
 2400
 2300
 2200
 2100
 2000
 1900
 1800
 1700
 1600
 1500
 1400
 1300
 1200
 1100
 1000
 900
 800

SERIAL FEATURES

PHIL.	YEAR	MODEL	TYPE	USE-DATE
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

REMARKS:

Watch 8th fath.

No. 2218 Date 12-20/01

Machine. Reel.

Turns Cor. Depth 45

Shot or lead

Bottom brk, cor.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 77 Surface 75 Drift

Trawl or dredge beam trawl

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

No. 2218

0

100

100

200

200

300

300

400

400

500

500

600

600

700

700

800

800

900

900

1000

1000

1100

1100

1200

1200

1300

1300

1400

1400

1500

1500

1600

1600

1700

1700

1800

1800

1900

1900

2000

2000

2100

2100

2200

2200

2300

2300

2400

2400

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

DEPTH TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	NO.	NO. OF THER.
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				
210				
220				
230				
240				
250				
260				
270				
280				
290				
300				
310				
320				
330				
340				
350				
360				
370				
380				
390				
400				

REMARKS:

No. *717* Date *July 18 1880*
 Machine. *Sigsbee* Reel. *3-12*
 Turns *118* Cor. *± 5* Depth *123*
 Shot or lead *35*
 Bottom *gy. s.*
 Bottom temperature *45.5*
 No. of Thermometer _____ Cor. _____
 Corrected temperature _____
 Air *71* Surface *76* Drift _____
 Trawl or dredge *35 - 250*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2:15</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		

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	WIND.	WIND DIRECTION.
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				

REMARKS

Temperature with surface

No. 270 Date 7 18 1881

Machine. Reel.

Turns 120 Cor. 15 Depth 135

Shot or lead 35

Bottom fine sand

Bottom temperature 72

No. of thermometer Cor.

Corrected temperature

Air 72 Surface 76 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

	2500	
	2400	
	2300	
	2200	
	2100	
	2000	
	1900	
	1800	
	1700	
	1600	
	1500	
	1400	
	1300	
	1200	
	1100	
	1000	
	900	
	800	
	700	
	600	
	500	
	400	
	300	
	200	
	100	
	0	

SERIAL TEMPERATURES

TIME	TEMP.	NO. OF THERM.	WIND	WIND DIRECTION
00				
05				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
00				

REMARKS:

No. 22-1 Date June 17 1874

Machine. Reel.

Turns 220 Cor. 10 Depth 230Shot or lead 25^{lb}Bottom fine gy. s.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 74 Surface 77 DriftTrawl or dredge Hand-dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS

DREDGE ROPE.

DOWN.

UP.

SOUNDING WIRE.		TURNS	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>2-22-10</u>	<u>8-12-15</u>	0	<u>11-45-20</u>	<u>11-45-20</u>
		100	<u>2-20</u>	<u>11-45-20</u>
		200	<u>2-40</u>	<u>11-45-20</u>
<u>2-22-10</u>	<u>8-12-15</u>	300	<u>3-00</u>	<u>11-45-20</u>
		400	<u>3-20</u>	<u>11-45-20</u>
		500	<u>3-40</u>	<u>11-45-20</u>
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

No. 212 Date Nov 11 1881
 Machine. Sigsbee Reel.
 Turns 100 Cor. + 6 Depth 115 fms
 Shot or lead 35 lb
 Bottom sl
 Bottom temperature at surface
 No. of thermometer Cor.
 Corrected temperature
 Air 75 Surface 77 Drift E 1.2
 Trawl or dredge Lantern

SOUNDING WIRE.

DOWN. UP.

TIME

DREDGE ROPE.

DOWN. UP.

SOUNDING WIRE.		TIME	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
	59.50	100	8.40	37.10
	17.10	200	9.25	36.40
	35.00	300	10.10	35.50
		400	11.00	34.50
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

No. 286 Date Jan 27 1881

Sigsbee Machine. Reel. 4312

Turns 16 Cor. 17 Depth 163 fms.

Shot or lead 35 lb

Bottom sh. s. & c.

Bottom temperature 30.1 Cor.

No. of thermometer Cor.

Corrected temperature

Air 78 Surface 78 Drift

Trawl or dredge Agassiz

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>10-00</u>	<u>11-41</u>	0	<u>12-00</u>	<u>13-00</u>
<u>5-40</u>	<u>5-20</u>	100	<u>5-40</u>	<u>12-40</u>
<u>6-20</u>	<u>6-00</u>	200	<u>6-20</u>	<u>12-20</u>
		300	<u>6-40</u>	<u>12-00</u>
		400	<u>7-00</u>	<u>11-40</u>
		500		<u>11-20</u>
		600		<u>11-00</u>
		700		<u>10-40</u>
		800		<u>10-20</u>
		900		<u>10-00</u>
		1000		<u>9-40</u>
		1100		<u>9-20</u>
		1200		<u>9-00</u>
		1300		<u>8-40</u>
		1400		<u>8-20</u>
		1500		<u>8-00</u>
		1600		<u>7-40</u>
		1700		<u>7-20</u>
		1800		<u>7-00</u>
		1900		<u>6-40</u>
		2000		<u>6-20</u>
		2100		<u>6-00</u>
		2200		<u>5-40</u>
		2300		<u>5-20</u>
		2400		<u>5-00</u>

2900
 2800
 2700
 2600
 2500
 2400
 2300
 2200
 2100
 2000
 1900
 1800
 1700
 1600
 1500
 1400
 1300
 1200
 1100
 1000
 900

WIND VELOCITIES.

TIME.	DIR.	NO. OF MIN.	DIR.	NO. OF MIN.
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

REMARKS

All four lower weights

No. 2302 Date Jan 7 1905

Machine. Reel.

Turns 31 Cor. + 2 Depth 33Shot or lead 35 lb.Bottom cr.Bottom temperature 79No. of thermometer 53742 Cor. + .1Corrected temperature 79.1Air 75 Surface 75 DriftTrawl or dredge Sample bucket with S.F.J. frame

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
<u>11-16-15</u>	<u>18-25</u>	0	<u>11-15</u>	<u>18-25</u>
<u>11-17-20</u>	<u>17-27</u>	100	<u>11-15</u>	<u>18-25</u>
		200	<u>11-15</u>	<u>18-25</u>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0
 100
 200
 300
 400
 500
 600
 700
 800
 900
 1000

SOIL TEMPERATURES

DEPTH.	DATE	NO. OF THER.	TEMP.	NO. OF THER.
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				

REMARKS.

None at considerable depth
 as shown this being too far below

No. 2225 Date Jan 17 1880

Sigsbee Machine, Reel.

Turns 163 Cor. + 7 Depth 170 fms

Shot or lead 35

Bottom sd. sh. cob

Bottom temperature 52.2

No. of thermometer 32-1 Cor.

Corrected temperature

Air 78.6 Surface 78 Drift

Trawl or dredge Tangier

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100		
<u>11-05-170</u>	<u>11-10</u>	<u>163</u> 200	<u>11-10</u>	<u>11-10</u>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

100
 110
 120
 130
 140
 150
 160
 170
 180
 190
 200
 210
 220
 230
 240
 250
 260
 270
 280
 290
 300

SERIAL TEMPERATURE

DEPTH	TEMP.	NO. OF THER.	NO.	DATE
75				
70				
65				
60				
55				
50				
45				
40				
35				
30				
25				
20				
15				
10				
5				
0				

REMARKS:

No. 3326 Date Jan 27 1885

Sigsbee Machine. Reel.

Turns 155 Cor. 9 Depth 154

Shot or lead 25

Bottom h. cor.

Bottom temperature 62.1

No. of thermometer 5720 Cor. -0.1

Corrected temperature 62

Air 79 Surface 78 Drift

Trawl or dredge Sigsbee

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12-15-15	2-20	0	2-20	2-20
16-30	19-15	100	2-40	2-40
17-25	18-05	200	2-55	2-55
		300	3-10	3-10
		400	3-25	3-25
		500	3-40	3-40
		600	3-55	3-55
		700	4-10	4-10
		800	4-25	4-25
		900	4-40	4-40
		1000	4-55	4-55
		1100	5-10	5-10
		1200	5-25	5-25
		1300	5-40	5-40
		1400	5-55	5-55
		1500	6-10	6-10
		1600	6-25	6-25
		1700	6-40	6-40
		1800	6-55	6-55
		1900	7-10	7-10
		2000	7-25	7-25
		2100	7-40	7-40
		2200	7-55	7-55
		2300	8-10	8-10
		2400	8-25	8-25

2950
 2900
 2700
 2600
 2500
 2000
 1100
 2200
 1400
 1200
 1100
 1000
 750
 700
 600
 400

SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	LOG.	DIR. WIND.
0				
10				
100				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 2227 Date *Nov 18 1882**Sigsbee* Machine. Reel.

Turns 155 Cor. 9 Depth 182

Shot or lead 25

Bottom *fine sand*Bottom temperature *42.5*

No. of thermometer Cor.

Corrected temperature

Air 80 Surface 76 Drift

Trawl or dredge *Long line*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>12-5-10</i>	<i>10-50</i>	0	<i>1-20-30</i>	<i>19-30</i>
<i>54-10</i>	<i>58-10</i>	100	<i>1-02-05</i>	<i>20-30</i>
<i>12-10</i>	<i>15-10</i>	200	<i>1-05-30</i>	<i>21-30</i>
		300	<i>1-07-30</i>	<i>22-30</i>
		400		<i>23-30</i>
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THERM.	TIM.	NO. OF THERM.
5				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				

REMARKS:

No. 2125 Date Jan 17 1901
 Machine. Reel.
 Turns 900 Cor. 1 Depth 250
 Shot or lead 25
 Bottom fine gy. s.
 Bottom temperature 58.5
 No. of thermometer 52740 Cor. - .2
 Corrected temperature 58.3
 Air 51 Surface 75 Drift
 Trawl or dredge dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1-11-20	18-30	0		
12-20	16-35	100		
14-10	14-45	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

DEPTH.	DATE.	NO. OF THER.	TIME.	DIR. TEMP.
45				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS:

Drifts present between 1000 - 1000 feet
 while all from one net leading to false
 average temp., though less noticeable,
 between 500 and 1000.

No. 2329 Date Jan 17 1881

Machine. Reel.

Turns 112 Cor. 1 5 Depth 118

Shot or lead 25

Bottom W. S. S.

Bottom temperature 12.1

No. of thermometer Cor.

Corrected temperature

Air 81 Surface 75 Drift

Trawl or dredge Trawl

SOUNDING WIRE.

NO. 1.

NO. 2.

TURNS.

DREDGE ROPE.

NO. 1.

NO. 2.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
NO. 1.	NO. 2.		NO. 1.	NO. 2.
3-16-100	112-112	0	3-16-100	17-17
4-2-10	112-112	100	4-2-10	17-17
2-0-6-30	46-11	112 200	12-12	17-17
		300	19-19	17-17
		400		17-17
		500		17-17
		600		17-17
		700		17-17
		800		17-17
		900		17-17
		1000		17-17
		1100		17-17
		1200		17-17
		1300		17-17
		1400		17-17
		1500		17-17
		1600		17-17
		1700		17-17
		1800		17-17
		1900		17-17
		2000		17-17
		2100		17-17
		2200		17-17
		2300		17-17
		2400		17-17

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	DIR.	DIR. TIME.
0				
10				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. 2880 Date June 19 1880

Tanner Machine, Reel,

Turns 125 Cor. = 6 Depth 121

Shot or lead 25

Bottom fm gy m

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 81 Surface 75 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
0-00	00-00	0	0-00	00-00
10-00	01-00	100	10-00	01-00
20-00	02-00	200	20-00	02-00
		300	30-00	03-00
		400		04-00
		500		05-00
		600		06-00
		700		07-00
		800		08-00
		900		09-00
		1000		10-00
		1100		11-00
		1200		12-00
		1300		13-00
		1400		14-00
		1500		15-00
		1600		16-00
		1700		17-00
		1800		18-00
		1900		19-00
		2000		20-00
		2100		21-00
		2200		22-00
		2300		23-00
		2400		24-00

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

GENERAL DEMONSTRATION

REF. NO.	FORM	NO. OF TUBES	TYPE	NO. OF TUBES
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				

REMARKS:

No. 233. Date Feb 2 1881
 Machine. Reel.
 Turns 105 Cor. 2 Depth 107
 Shot or lead 25
 Bottom fine
 Bottom temperature
 No. of thermometer Cor.
 Corrected temperature
 Air 80 Surface 70 Drift
 Trawl or dredge

SOUNDING WIRE		TURNS	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
105	105	0		
104	104	100	2 1/2	30-10
103	103	200		2 1/2
		300		2 1/2
		400		2 1/2
		500		2 1/2
		600		2 1/2
		700		2 1/2
		800		2 1/2
		900		2 1/2
		1000		2 1/2
		1100		2 1/2
		1200		2 1/2
		1300		2 1/2
		1400		2 1/2
		1500		2 1/2
		1600		2 1/2
		1700		2 1/2
		1800		2 1/2
		1900		2 1/2
		2000		2 1/2
		2100		2 1/2
		2200		2 1/2
		2300		2 1/2
		2400		2 1/2

2500
 2400
 2300
 2200
 2100
 2000
 1900
 1800
 1700
 1600
 1500
 1400
 1300
 1200
 1100
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 000

SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THERM.	TIME	WIND, FORCE
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				
210				
220				
230				
240				
250				
260				
270				
280				
290				
300				
310				
320				
330				
340				
350				
360				
370				
380				
390				
400				
410				
420				
430				
440				
450				
460				
470				
480				
490				
500				
510				
520				
530				
540				
550				
560				
570				
580				
590				
600				
610				
620				
630				
640				
650				
660				
670				
680				
690				
700				
710				
720				
730				
740				
750				
760				
770				
780				
790				
800				
810				
820				
830				
840				
850				
860				
870				
880				
890				
900				
910				
920				
930				
940				
950				
960				
970				
980				
990				
1000				

CONTINUED

No. *2002* Date *Jan 20 1896*

Machine. Reel.

Turns *200* Cor. + Depth

Shot or lead

Bottom *gy. s. sh.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *73* Surface *75* DriftTrawl or dredge *3 ft. dredge*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

6-47-00

0

*3-30**3-30*

100

3-12

200

3-22

300

3-28

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

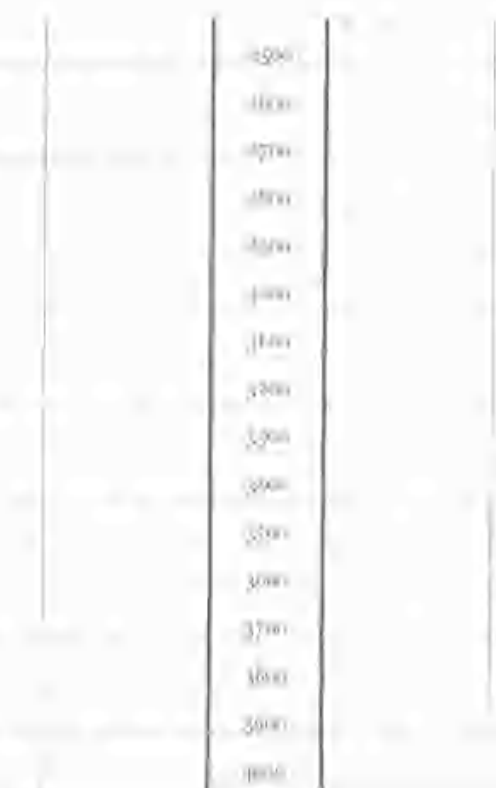
2000

2100

2200

2300

2400



SEMI-CONDUCTOR

DATE	TIME	NO. OF VIBES	LOW	HIGH POINT
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				

REMARKS:

No. 1181 Date June 17Tanner Machine. Reel.Turns 2 Cor. 1 Depth 107

Shot or lead

Bottom fine sand

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 73 Surface 70 DriftTrawl or dredge Tanner

SOUNDING WIRE.		THICK.	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		

100
 200
 300
 400
 500
 600
 700
 800
 900
 1000
 1100
 1200
 1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000

SHIELD THRESHOLDS



DEFINITIONS

1000 1500 2000 2500 3000 3500 4000 4500 5000

No. 5752 Date Nov 1 1871

Machine. _____ Reel. _____

Turns 50 Cor. 1 Depth 57

Shot or lead _____

Bottom W. S.

Bottom temperature _____

No. of thermometer _____ Cor. _____

Corrected temperature _____

Air 54 Surface 57 Drift _____

Trawl or dredge _____

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

81 30

2 10

27 41

4 30

27 40

4 40

3700
 3800
 3900
 4000
 4100
 4200
 4300
 4400
 4500
 4600
 4700
 4800
 4900
 5000

ANNUAL TEMPERATURES

MONTH	TEMP.	NO. OF DAYS	WIND	REL. HUM.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				

REMARKS:

No. 211 Date Jan 18 1881
 Machine. Sigsbee Reel.
 Turns 145 Cor. + Depth 145
 Shot or lead 35
 Bottom gy. m. s.
 Bottom temperature 51.5
 No. of thermometer 100 Cor.
 Corrected temperature 51.5
 Air 52 Surface 52 Drift
 Trawl or dredge Samuel

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		

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

SPECIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	TIME	WIND TEMP.
5				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS

No. of surface observations made during the day
 11
 No. of observations made at night
 11
 Total number of observations made during the day
 22
 Total number of observations made at night
 11
 Total number of observations made during the day
 11
 Total number of observations made at night
 11

No. 2510 Date Jan 17th 1881

Tanner Machine. Reel.

Turns 107 Cor. 1 Depth 107Shot or lead 15Bottom sl.Bottom temperature On bottomNo. of thermometer Cor. Corrected temperature Air 57 Surface 57 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

9-10
 4-10
 11-10
 1-10
 2-10
 3-10
 4-10
 5-10
 6-10
 7-10
 8-10
 9-10
 10-10
 11-10
 12-10
 13-10
 14-10
 15-10
 16-10
 17-10
 18-10
 19-10
 20-10
 21-10
 22-10
 23-10
 24-10

290
 280
 270
 260
 250
 240
 230
 220
 210
 200
 190
 180
 170
 160
 150
 140
 130
 120
 110
 100
 90
 80
 70
 60
 50
 40
 30
 20
 10
 0

SEBAL, TEMPERATUR

Waktu	Temp.	Kelemb.	Wind	Humid.
05				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS:

...
 ...
 ...

No. 3377 Date Jan 10 1882

Machine. Reel.

Turns 170 Cor. 5 Depth 175

Shot or lead 35 lb

Bottom c.k.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 78 Surface 78 Drift

Trawl or dredge 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		

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

SERIAL TEMPERATURES.

DEPTH.	TIME.	W. SURFACE.	DIR.	OFF. TEMP.
5				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS:

Very fine rain, occasional heavy rain.
At bottom of ...

No. 2888 Date June 27 1881Machine. Reel.Turns 180 Cor. + Depth 187Shot or lead 20 lbBottom red

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 74 Surface 78 DriftTrawl or dredge 12 1/2

SOUNDING WIRE.

DREDGE ROPE.

DEPTH.	DP.	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		

	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	
	4100	
	4200	
	4300	
	4400	
	4500	
	4600	
	4700	
	4800	
	4900	
	5000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	TIME.	COR. TEMP.
05				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS.

11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38 - 39 - 40 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48 - 49 - 50 - 51 - 52 - 53 - 54 - 55 - 56 - 57 - 58 - 59 - 60 - 61 - 62 - 63 - 64 - 65 - 66 - 67 - 68 - 69 - 70 - 71 - 72 - 73 - 74 - 75 - 76 - 77 - 78 - 79 - 80 - 81 - 82 - 83 - 84 - 85 - 86 - 87 - 88 - 89 - 90 - 91 - 92 - 93 - 94 - 95 - 96 - 97 - 98 - 99 - 100

No. 3330 Date W. 7 1880

Machine. Reel

Turns 120 Cor. 2 Depth 120

Shot or lead 25

Bottom sl

Bottom temperature 54.5

No. of thermometer Cor.

Corrected temperature

Air 77 Surface 77 Drift

Trawl or dredge 5 ft

SOUNDING WIRE

DOWN.

UP.

FATHS.

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

SOUNDING WIRE		FATHS.	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		

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

SERIAL TEMPERATURES.

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

REMARKS:

Very few specimens taken, but some were
 taken during the day, the temperature being
 25.0 at 1000 fathoms, 25.0 at 1000

No. 100 Date July 1, 1881
 Machine. Sigsbee Reel.
 Turns 300 Cor. 0 Depth 300
 Shot or lead 35 lb
 Bottom gy. m.
 Bottom temperature 51.0
 No. of thermometer 100 Cor.
 Corrected temperature
 Air 80 Surface 78 Drift
 Trawl or dredge Agassiz

SOUNDING WIRE.		TURNS.	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
<u>1:20</u>	<u>40</u>	0	<u>10</u>	<u>10</u>
<u>26</u>	<u>30</u>	100	<u>20</u>	<u>20</u>
<u>50</u>	<u>20</u>	200	<u>30</u>	<u>30</u>
<u>1:15</u>	<u>10</u>	300	<u>40</u>	<u>40</u>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	500	
	400	
	370	
	350	
	300	
	200	
	100	
	0	
	100	
	200	
	300	
	400	
	500	
	600	
	700	
	800	
	900	
	1000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	No. of Cans.	DATE.	TIME.
25				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS:

Very little wind, sea calm, sky clear, temperature 85° at surface, 75° at 1000 fathoms.

No. 2001 Date Jan 15 1880

Machine. _____ Reel. _____

Turns 137 Cor. + 2 Depth 139

Shot or lead 12 lb

Bottom bc

Bottom temperature 20.4

No. of thermometer _____ Cor. _____

Corrected temperature _____

Air 79 Surface 78 Drift _____

Trawl or dredge Wagon

SOUNDING WIRE

DREDGE ROPE

SOUNDING WIRE		TIME	DREDGE ROPE	
NO. OF	FEET		NO. OF	FEET
		0		
1-11-25	25	100		
12-15	40	200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2900	
	2800	
	2700	
	2600	
	2500	
	2400	
	2300	
	2200	
	2100	
	2000	
	1900	
	1800	
	1700	
	1600	
	1500	
	1400	
	1300	
	1200	
	1100	
	1000	
	900	
	800	
	700	
	600	
	500	
	400	

SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	DATE	TIME
5				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS

1. ...
 2. ...
 3. ...
 4. ...
 5. ...

No. 25420 Date Jan 19 1882

Sigsbee Machine. Reel.

Turns 192 Cor. 9 Depth 201

Shot or lead 40

Bottom ooze

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 78 Surface 78 Drift

Trawl or dredge dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2-16-10	01-15	0	2-16-10	3-16-10
5-50	3-00-10	100	7-10	3-16-10
58-15	7-30	192	7-10	3-16-10
		300	9-10	3-16-10
		400	11-15	3-16-10
		500		3-16-10
		600		3-16-10
		700		3-16-10
		800		3-16-10
		900		3-16-10
		1000		3-16-10
		1100		3-16-10
		1200		3-16-10
		1300		3-16-10
		1400		3-16-10
		1500		3-16-10
		1600		3-16-10
		1700		3-16-10
		1800		3-16-10
		1900		3-16-10
		2000		3-16-10
		2100		3-16-10
		2200		3-16-10
		2300		3-16-10
		2400		3-16-10

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

SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	TIME	WIND - FORCE
25				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS:

1 - 1000' 40° 20' N 100° 00' W

No. 2243 Date June 19 1892

Machine. Reel.

Turns 79 Cor. 12 Depth 79

Shot or lead 35 lb

Bottom fine s.s.

Bottom temperature Near surface

No. of thermometer Cor.

Corrected temperature

Air 78 Surface 78 Drift

Trawl or dredge Sampler

SOUNDING WIRE

DOWN.

UP.

TURNS.

DREDGE ROPE

DOWN.

UP.

SOUNDING WIRE		TURNS.	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
3-51-20	3-51-20	0	7-09-20	7-09-20
35-10	35-10	100	46-10	3-30
15-10	25-10	200	48-40	2-40
9-10	20-10	300	48-20	2-40
		400	45-20	2-40
		500	34-30	2-40
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

50
 480
 470
 460
 450
 440
 430
 420
 410
 400
 390
 380
 370
 360
 350
 340
 330
 320
 310
 300
 290
 280
 270
 260
 250

SERIAL COMPARISONS

DIFFER.	TIME	NO. OF VOLS.	DATE	INITIALS

REMARKS

No. 2344 Date June 29 1881

Machine. Reel.

Turns 190 Cor. + 9 Depth 199

Shot or lead 35 lb

Bottom gy. sl.

Bottom temperature 79

No. of thermometer 5144 Cor. + 7

Corrected temperature 79.2

Air 78 Surface 78 Drift

Trawl or dredge 12 ft beam trawl

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

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		

	1500	
	1600	
	1700	
	1800	
	1900	
	2000	
	2100	
	2200	
	2300	
	2400	
	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	TIME	WIND TIME
25				
50				
75				
100				
125				
150				
175				
200				
225				
250				
275				
300				
325				
350				
375				
400				

REMARKS:

No. 1125 Date Nov 20 1881

Sigsbee Machine. Reel.

Turns 170 Cor. + 8 Depth 184

Shot or lead 35 lb

Bottom fine gy. s. m. sh.

Bottom temperature 51.5

No. of thermometer 1125 Cor.

Corrected temperature

Air 84 Surface 78 Drift

Trawl or dredge Sigsbee

SOUNDING WIRE.		FATHS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
<u>12-36-30</u>	<u>11-15-10</u>	100	<u>11-30-30</u>	<u>10-15-10</u>
<u>18-15</u>	<u>10-10</u>	200	<u>11-45-30</u>	<u>10-10</u>
<u>24-25</u>	<u>9-50</u>	300	<u>12-00-30</u>	<u>9-50</u>
		400	<u>12-15-30</u>	<u>9-40</u>
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900
5000

SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THERM.	TIME	WIND TEMP.
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				

REMARKS:

1. The water is very shallow.

No. 2000 Date Nov 30 1884

Machine. Sigsbee Reel. No. 1

Turns 191 Cor. + 9 Depth 200

Shot or lead 10 lb

Bottom sl.

Bottom temperature 50.5

No. of thermometer 1 Cor. 0

Corrected temperature 50.5

Air 83 Surface 78 Drift

Trawl or dredge Agassiz

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>1-20-37</u>	<u>28-50</u>	0	<u>0-11</u>	<u>34-20</u>
<u>24-12</u>	<u>30-30</u>	100	<u>16-20</u>	<u>37-20</u>
<u>30-27</u>	<u>34-25</u>	190	<u>21-30</u>	<u>40-20</u>
		200	<u>2-20</u>	<u>43-20</u>
		300	<u>0-0</u>	<u>46-20</u>
		400		<u>49-20</u>
		500		<u>52-20</u>
		600		<u>55-20</u>
		700		<u>58-20</u>
		800		<u>61-20</u>
		900		<u>64-20</u>
		1000		<u>67-20</u>
		1100		<u>70-20</u>
		1200		<u>73-20</u>
		1300		<u>76-20</u>
		1400		<u>79-20</u>
		1500		<u>82-20</u>
		1600		<u>85-20</u>
		1700		<u>88-20</u>
		1800		<u>91-20</u>
		1900		<u>94-20</u>
		2000		<u>97-20</u>
		2100		<u>100-20</u>
		2200		<u>103-20</u>
		2300		<u>106-20</u>
		2400		<u>109-20</u>

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

DEPTH TEMPERATURES.

DEPTH.	TEMP.	NO. OF LOGS.	TIME	COR. TEMP.
5				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				

REMARKS:

No. 33-7 Date May 20 1904

Machine. Reel.

Turns 717 Cor. + 4 Depth 710Shot or lead 35 lbBottom sltBottom temperature 20.0

No. of thermometer Cor.

Corrected temperature

Air 82 Surface 78 DriftTrawl or dredge Agassiz

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
<u>2-10-45</u>	<u>17</u>	0	<u>10-10</u>	<u>10-10</u>
<u>11-10</u>	<u>16-10</u>	100	<u>11-10</u>	<u>11-10</u>
<u>12-10</u>	<u>15-10</u>	200	<u>12-10</u>	<u>12-10</u>
<u>13-10</u>	<u>14-10</u>	300	<u>13-10</u>	<u>13-10</u>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES

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

REMARKS

Handwritten notes:
 1000 to 1000 fathoms, 1000, 1000, 1000
 1000 fathoms, 1000, 1000

No. 2118 Date Jan 20 1900

Machine. _____ Reel. _____

Turns 202 Cor. 9 Depth 211

Shot or lead 15

Bottom sl

Bottom temperature 55.5

No. of thermometer _____ Cor. _____

Corrected temperature _____

Air 82 Surface 78 Drift _____

Trawl or dredge 5' beam

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3-12-00	3-25	0	3-12-00	3-25
4-10	4-30	100	4-10	4-30
5-10	5-45	202-200	5-10	5-45
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

SILICA TEMPERATURES

TEMP.	DATE	NO. OF THER.	TIME	TIME READ
15				
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				
210				
220				
230				
240				
250				
260				
270				
280				
290				
300				
310				
320				
330				
340				
350				
360				
370				
380				
390				
400				

REMARKS:

No. *21* Date *October 10 1901*
Sigsbee Machine. Reel.
 Turns *152* Cor. *8* Depth *160*
 Shot or lead *35 lb.*
 Bottom *sl.*
 Bottom temperature *21.5*
 No. of thermometer Cor.
 Corrected temperature
 Air *82* Surface *78* Drift
 Trawl or dredge *Jungler*

SOUNDING WIRE		TIME	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
		0		
<i>10</i>	<i>10</i>	100	<i>10</i>	<i>10</i>
<i>20</i>	<i>20</i>	200	<i>20</i>	<i>20</i>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

6500
6600
6700
6800
6900
7000
7100
7200
7300
7400
7500
7600
7700
7800
7900
8000

SERIAL VERIFICATION

SR. NO.	DATE	NO. OF PAGES	TYPE	REMARKS
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98				
99				
100				

REMARKS

No. 2050 Date Nov 30 1900~~Machine~~ Machine. Reel.Turns 204 Cor. 4 Depth 204

Shot or lead

Bottom crsBottom temperature Not taken

No. of thermometer Cor.

Corrected temperature

Air 51.5 Surface 78 DriftTrawl or dredge Sigsbee

SOUNDING WIRE

DOWN.

UP.

TURNS.

DREDGE ROPE

DOWN.

UP.

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		

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

25 - 1000 fathoms - 2000
 1000 - 2000 fathoms - 2000
 2000 - 3000 fathoms - 2000
 3000 - 4000 fathoms - 2000
 4000 - 5000 fathoms - 2000
 5000 - 6000 fathoms - 2000
 6000 - 7000 fathoms - 2000
 7000 - 8000 fathoms - 2000
 8000 - 9000 fathoms - 2000
 9000 - 10000 fathoms - 2000

No. 3512 Date Jan 11 1881

3512 Machine. Reel.

Turns 254 Cor. 1 Depth 254

Shot or lead 35 lb

Bottom gy. m. s.

Bottom temperature last therm.

No. of thermometer 711 Cor.

Corrected temperature

Air 71 Surface 27 Drift

Trawl or dredge 3512

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		

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

SERIAL TEMPERATURES.

HEI. IN.	TEMP.	NO. OF THER.	DIR.	WIND SPEED
75				
84				
101				
110				
120				
130				
140				
150				
170				
180				
190				
100				

REMARKS:

Very light breeze from S.W. - gentle rain from
 10:00 AM till 11:00 AM. Temperature 75° at
 10:00 AM, 70° at 11:00 AM. Wind
 light breeze from S.W. at 10:00 AM - 11:00 AM.
 Wind light breeze from S.W. at 10:00 AM - 11:00 AM.
 Wind light breeze from S.W. at 10:00 AM - 11:00 AM.

Watch 20th fast

No. 2552 Date June 21 1881

Sigsbee Machine. Reel. 1

Turns 108 Cor. 0 Depth 108

Shot or lead 35 lb

Bottom wh. m.

Bottom temperature 45.2

No. of thermometer 8755 Cor. -.2

Corrected temperature 45

Air 79 Surface 77 Drift

Trawl or dredge 2 ft

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
<u>11-23-20</u>	<u>11-20-15</u>	0	<u>11-23-20</u>	<u>11-20-15</u>
<u>24-10</u>	<u>11-20-10</u>	100	<u>24-10</u>	<u>11-20-10</u>
<u>35-20</u>	<u>11-20-05</u>	200	<u>35-20</u>	<u>11-20-05</u>
<u>47-10</u>	<u>11-20-00</u>	300	<u>47-10</u>	<u>11-20-00</u>
<u>48-30</u>	<u>11-19-55</u>	400	<u>48-30</u>	<u>11-19-55</u>
<u>12-10</u>	<u>11-19-50</u>	500	<u>12-10</u>	<u>11-19-50</u>
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL COMPUTATIONS

DATE	TIME	TO	FROM	CLASS	ROOM
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					

REMARKS:

No. 2073 Date April 22 1902

Sigsbee Machine. Reel. 1

Turns 167 Cor. 27 Depth 167

Shot or lead 60 lb

Bottom corals

Bottom temperature 63°

No. of thermometer 55780 Cor. - 2

Corrected temperature 62.8

Air 79.5 Surface 79 Drift

Trawl or dredge Van Dusen

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
		0		
7-26-107	27-20	100	11-20	27-20
11-20	27-20	200	11-20	27-20
		300	11-20	27-20
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

3600
 3500
 3400
 3300
 3200
 3100
 3000
 2900
 2800
 2700
 2600
 2500
 2400
 2300
 2200
 2100
 2000
 1900
 1800
 1700
 1600
 1500
 1400
 1300
 1200
 1100
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

SERIAL TEMPERATURES.

Depth.	Time.	Surf. Temp.	Temp.	Wind, Light.
5				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS:

1. Surface temp. 57.0
 2. 100 fms. 57.0
 3. 200 fms. 57.0
 4. 300 fms. 57.0
 5. 400 fms. 57.0
 6. 500 fms. 57.0
 7. 600 fms. 57.0
 8. 700 fms. 57.0
 9. 800 fms. 57.0
 10. 900 fms. 57.0
 11. 1000 fms. 57.0

No. 235 Date 2.0.21 1881

Machine. Reel.

Turns Cor. 1 Depth 120 fms

Shot or lead

Bottom

Bottom temperature 50.0

No. of thermometer Cor.

Corrected temperature

Air 50.2 Surface 48 Drift

Trawl or dredge 2.0.21

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10.48.20	10.48.20
		100	11.00.00	11.00.00
		200	11.01.40	11.01.40
		300	11.03.20	11.03.20
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SOME TEMPERATURE

DEPTH	TIME	NO. OF THER.	TEMP.	NO. OF THER.
0				
5				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS:

March 20th 1907

No. 560 (H.M.) Date Jan 22 1907

Sigsbee Machine. Reel. 3

Turns 52 Cor. + 9 Depth 92

Shot or lead 35^{lb} lead

Bottom C.S.

Bottom temperature 50.5

No. of thermometer Cor.

Corrected temperature

Air Surface 78 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWNS.

UPS.

DOWN.	UP.	TURNS.	DOWNS.	UPS.
		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		

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

SERIAL TEST RESULTS

DEPTH	TEMP.	DATE OF TEST	TIME	WIND DIRECTION
5				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS

March 22nd feet.

No. 255 Date March 22 1882

Sigsbee Machine. Reel.

Turns 332 Cor. + 19 Depth 329

Shot or lead 35 lb

Bottom gy. s. g.

Bottom temperature 11.2

No. of thermometer Cor.

Corrected temperature

Air 83 Surface 75 Drift SE-1'

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
17-20	16-20	100	18-20	26-20
21-20	15-20	200	22-20	30-20
22-20	14-20	300	28-20	34-20
29-20	13-20	400	32-20	37-20
70-20	12-20	500	37-20	40-20
		600	40-20	42-20
		700	45-20	45-20
		800	50-20	47-20
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	DIR.	WIND TEMP.
25				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS:

Surface pressure 30.15 mm Hg
 1000 fms. 30.15 mm Hg
 2000 fms. 30.15 mm Hg
 3000 fms. 30.15 mm Hg
 4000 fms. 30.15 mm Hg
 5000 fms. 30.15 mm Hg
 6000 fms. 30.15 mm Hg
 7000 fms. 30.15 mm Hg
 8000 fms. 30.15 mm Hg
 9000 fms. 30.15 mm Hg
 10000 fms. 30.15 mm Hg

No. 2256 Date Dec. 27th 1911

Machine. Reel.

Turns 37 Cor. 10 Depth 47

Shot or lead 15 lb

Bottom fine white sand

Bottom temperature None taken

No. of thermometer Cor.

Corrected temperature

Air 22.8 Surface 78 Drift

Trawl or dredge Trawl

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
BROWN.	RED.		BROWN.	RED.
1-27-20	12-13	0	1-27-20	12-13
1-28-20	13-20-25	100	1-28-20	13-20-25
1-29-20	14-20-30	200	1-29-20	14-20-30
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL CERTIFICATE

Serial	Year	No. of Cords	Vol	Page
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				

ISSUED

For the State of Michigan, by the Registrar

No. 2207 Date Jan 25 1881
Sigsbee Machine. Reel. 1
 Turns 160 Cor. 1 Depth 175
 Shot or lead 35 lb.
 Bottom wh. m.
 Bottom temperature 54.5
 No. of thermometer Cor.
 Corrected temperature
 Air 81 Surface 78 Drift
 Trawl or dredge Sigsbee

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>7-07-15</u>	<u>3-31</u>	0	<u>2-31-15</u>	<u>4-00-15</u>
<u>8-20</u>	<u>31-40</u>	100	<u>1-20</u>	<u>13-20</u>
<u>9-25</u>	<u>7-10</u>	200	<u>1-10</u>	<u>2-40</u>
		300	<u>1-00</u>	<u>3-40</u>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	TIME	TIME TEMP.
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				

REMARKS

At the end, the temperature was 27.00, 28.00, 29.00, 30.00, 31.00, 32.00, 33.00, 34.00, 35.00, 36.00, 37.00, 38.00, 39.00, 40.00.

No. 2258 Date Jan 27th 1900Sigsbee Machine. Reel, 1Turns 200 Cor. 1 70 Depth 272Shot or lead 35 lbBottom fine sh. co.Bottom temperature 50.5

No. of thermometer _____ Cor. _____

Corrected temperature _____

Air 12 Surface 10 Drift _____Trawl or dredge 5 ft

SOUNDING WIRE.

DOWNS.

UPS.

TURNS.

DREDGE ROPE.

DOWNS.

UPS.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWNS.	UPS.		DOWNS.	UPS.
<u>2-10-10</u>	<u>2-10</u>	0	<u>10-10</u>	<u>10-10</u>
<u>10-10</u>	<u>3-10</u>	100	<u>10-10</u>	<u>10-10</u>
<u>10-10</u>	<u>3-10</u>	200	<u>10-10</u>	<u>10-10</u>
		300	<u>10-10</u>	<u>10-10</u>
		400	<u>10-10</u>	<u>10-10</u>
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	USE.	COR. TEMP.
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				

REMARKS.

Buoyed 1 fathom

Red 100 1

1 foot thermometer 1

1 therm 1

1 therm 1

1 therm 1

No. 2417 Date Jan 20 1891

Sigsbee Machine. Reel. 1

Turns 208 Cor. + 20 Depth 228

Shot or lead 35 lb

Bottom wh. cr.

Bottom temperature 50.8

No. of thermometer 53731 Cor. 0

Corrected temperature 50.8

Air 84.5 Surface 78 Drift

Trawl or dredge 5' 10" M.

SOUNDING WIRE.

DOWNS.

UP.

TURNS.

DREDGE ROPE (95)

DOWNS.

UP.

SOUNDING WIRE.			DREDGE ROPE (95)	
DOWNS.	UP.	TURNS.	DOWNS.	UP.
24-10-20	13	0	F 100	
7-10	11-00	100	2-10	2-10
9-10	10-00	200	2-10	2-10
10-10	10-00	300	2-10	2-10
		400	2-10	2-10
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	200	
	300	
	400	
	500	
	600	
	700	
	800	
	900	
	1000	
	1100	
	1200	
	1300	
	1400	
	1500	
	1600	
	1700	
	1800	
	1900	
	2000	

SUBAL TEMPERATURES.

DEPTH	TIME	NO. OF THER.	TEMP.	STEM TEMP.
05				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS.

Surface temperature 72.5 at 2.15 p.m.

... ..

No. 2360 Date Jan 30th 1901Sigsbee Machine. Reel.Turns 25 Cor. 1 Depth 26

Shot or lead

Bottom wh. cor.Bottom temperature Not taken

No. of thermometer Cor.

Corrected temperature

Air 79 Surface 78 DriftTrawl or dredge Tangles.

SOUNDING WIRE.

DOWN.

UP.

TUES.

DREDGE ROPE.

DOWN.

UP.

7-18-1010

0

100 60

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

1600

1700

1800

1900

	200	
	210	
	220	
	230	
	240	
	250	
	260	
	270	
	280	
	290	
	300	
	310	
	320	
	330	
	340	
	350	
	360	
	370	
	380	
	390	
	400	

WIND TEMPERATURES

HEIGHT	TEMP.	No. of FIBES.	Dir.	Wind Time.
5				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS:

the temp. just below the surface of the water.

No. 2361 Date Jan. 30th 1902
Sigsbee Machine. Reel.
 Turns 24 Cor. 1 Depth 25
 Shot or lead 18 lb.
 Bottom coral sands.
 Bottom temperature Not taken
 No. of thermometer _____ Cor. _____
 Corrected temperature _____
 Air 80 Surface 78 Drift _____
 Trawl or dredge S. B. T.

SOUNDING WIRE.

TURNS.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

TURNS.	UP.	TURNS.	DOWN.	UP.
		0		2-20
<u>5-45-00</u>	<u>46-00</u>		<u>2-45-00</u>	<u>7-04-00</u>
<u>11-10</u>	<u>47-20</u>	<u>100</u>	<u>3-50-00</u>	<u>2-07</u>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	4500	
	4700	
	4900	
	5100	
	5300	
	5500	
	5700	
	5900	
	6100	
	6300	
	6500	
	6700	
	6900	
	7100	
	7300	
	7500	
	7700	
	7900	
	8100	
	8300	
	8500	
	8700	
	8900	
	9100	
	9300	
	9500	
	9700	
	9900	
	10000	

SERIAL TEMPERATURES

TIME	TEMP.	NO. OF THERM.	NO.	WIND DIRECTION
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

REMARKS:

3 up first in the morning, wind
 light, no rain, temperature 81

No. 2862 Date Jan 20 1901

Machine. _____ Reel. _____

Turns _____ Cor. + _____ Depth 20

Shot or lead _____

Bottom cr. s.

Bottom temperature None taken

No. of thermometer _____ Cor. _____

Corrected temperature _____

Air 79 Surface 75 Drift _____

Trawl or dredge S 10 J

SOUNDING WIRE		FMS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
		100	20-20	18-50
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Remained attached to
the same no pro-
ceeding haul.

	290	
	300	
	310	
	320	
	330	
	340	
	350	
	360	
	370	
	380	
	390	
	400	

VERTICAL TEMPERATURES

DEPTH	TEMP.	WIND	DIR.	STATE	TIME
15					
30					
45					
60					
75					
90					
105					
120					
135					
150					
165					
180					
195					
210					
225					
240					
255					
270					
285					
300					

REMARKS:

Surface of fresh, fine shales.
 No fossils observed.

No. 2363 Date Jan 30 am.

Tanner Machine. Reel.

Turns 20 Cor. 1 Depth 21Shot or lead 18 lbBottom wh. s. cr.Bottom temperature Not takenNo. of thermometer Cor. ✓

Corrected temperature

Air 78.3 Surface 77 DriftTrawl or dredge S 13 J

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

27-50 10-38-2038-25 33-1020 100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

10-28-5211-11-5217-2012-1014-10Es. some lines and caught one fish.

1300
 1400
 1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000

SERIAL OPERATIONS.

INDEX	TIME	% OF TIME	SIZE	LOG. TIME
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

REMARKS:

Macak 13th feet

No. 2360

Date Jan 30th 2. M.

Tanner Machine. Reel.

Turns 21 Cor. + 1 Depth 22

Shot or lead

Bottom cor. S.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 79 Surface 77 Drift

Trawl or dredge 8 10 0

SOUNDING WIRE

L. 2000.

Lr.

TURNS

DREDGE ROPE

DOWN.

UP.

L. 2000.	Lr.	TURNS	DOWN.	UP.
11-35-50	37-45	0	1-01-35	2-08-45
37-W	37-30	21 100 70	2-00	2-00
		200	2-10	2-10
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Got over fish
line - found track
a number of red
granules - feeding
very good

2000
 1900
 1800
 1700
 1600
 1500
 1400
 1300
 1200
 1100
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

NETAL TEMPERATURES

DEPTH	TEMP	NO. OF THERM	TIME	LOG TEMP
0				
5				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS

March 10th 1881

No. 2363 Date Jan 30 6.30

Machine Reel.

Turns 23 Cor. 1 Depth 24

Shot or lead 18 lb.

Bottom with a case

Bottom temperature 55.2 surface

No. of thermometer Cor.

Corrected temperature

Air 77 Surface 77 Drift

Trawl or dredge 5 10-3

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
3-13-50	12-20	0	15-10	12-20
12-12	12-10	23 1000	23-10	12-10
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

NO. OF THER.	TEMP.	NO. OF THER.	TEMP.	NO. OF THER.	TEMP.
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					
26					
27					
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					
42					
43					
44					
45					
46					
47					
48					
49					
50					
51					
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					
62					
63					
64					
65					
66					
67					
68					
69					
70					
71					
72					
73					
74					
75					
76					
77					
78					
79					
80					
81					
82					
83					
84					
85					
86					
87					
88					
89					
90					
91					
92					
93					
94					
95					
96					
97					
98					
99					
100					

REMARKS.

Very good - some - surface life
 very abundant - found in some
 locality of forest.

No. 2366 Date Jan 30 1890

Machine. Reel.

Turns 26 Cor. 1 Depth 27

Shot or lead 15 lb

Bottom fine wh. cor.

Bottom temperature Not taken

No. of thermometer Cor.

Corrected temperature

Air 77 Surface 76 Drift

Trawl or dredge 5 ft. J.

SOUNDING WIRE		TURNS	DREDGE ROPE	
DOWN	UP		DOWN	UP
4-52-00	57-00	0	53-50	15-30
48-30	52-30	100	54-20	16-10
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000

SERIAL TEMPER & CURS.

TEMP.	TEMP.	NO. OF THER.	NO.	TIME TEMP.
05				
10				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS:

Series added

No. 2367 Date Jan 31 1912.

Sigsbee Machine. Reel.

Turns 118 Cor. + 6 Depth 124

Shot or lead 18 lb.

Bottom wh. cal.

Bottom temperature Not taken

No. of thermometer Cor.

Corrected temperature

Air 75 Surface 76 Drift

Trawl or dredge 2137

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
6-21-45	25-35	0	37-00	26-48
23-25	24-10	100	41-00	22-45
33-30	32-35	118 200	47-00	20-50
		300 200	53-00	19-00
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

	2500	
	2000	
	1700	
	1500	
	1000	
	500	
	0	
	500	
	1000	
	1500	
	2000	
	2500	
	3000	
	3500	
	4000	
	4500	
	5000	

DEPTH TEMPERATURES.

DEPTH.	TEMP.	NO. OF OBS.	TIM.	NO. TEMP.
45				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No occurrence of volcanic life.

No. 66 Date Feb 7th 1895
10 11
 Tanner Machine Reel
 Turns 15 Cor. 1 Depth 16
 Shot or lead 15 lb
 Bottom fine silt s.
 Bottom temperature Not taken
 No. of thermometer _____ Cor. _____
 Corrected temperature _____
 Air _____ Surface _____ Drift _____
 Trawl or dredge _____

SOUNDING WIRE.		TIME.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>5-45-00</u>		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		

2500
2000
1500
1000
500
0
-500
-1000
-1500
-2000
-2500
-3000
-3500
-4000
-4500
-5000

SIGNAL TEMPERATURES

DEPTH	TEMP	No. of RECS	CR	TIME (HR)
0				
10				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

(REMARKS)

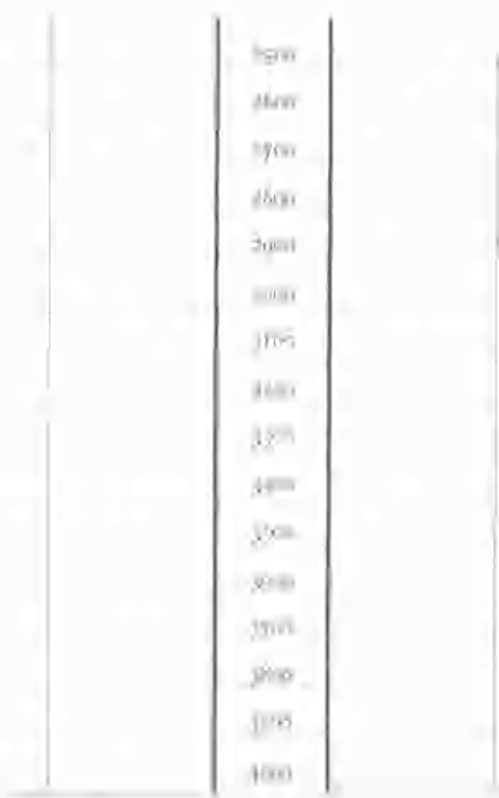
a.m.

No. *Hyd 567* Date *Feb 7th /85*
Sigsbee Machine. Reel.
 Turns *15* Cor. *1* Depth *16*
 Shot or lead *18 lb.*
 Bottom *fine, wh s.*
 Bottom temperature *Not taken*
 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.
<i>6-25-00</i>		0		
		<i>15</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		



SEBHA - CUSTOMERS

DATE	NAME	AMOUNT	TYPE	STATUS
4/1				
4/2				
4/3				
4/4				
4/5				
4/6				
4/7				
4/8				
4/9				
4/10				
4/11				
4/12				
4/13				
4/14				
4/15				
4/16				
4/17				
4/18				
4/19				
4/20				
4/21				
4/22				
4/23				
4/24				
4/25				
4/26				
4/27				
4/28				
4/29				
4/30				
4/31				

REMARKS:

Blank space for handwritten remarks.

No. 528 (No. of) Date Feb 7 1888 A.M.

Tanner Machine Reel.

Turns 147 1/2 Cor. Depth 15

Shot or lead 15 lb.

Bottom bk. s. f. c. h.

Bottom temperature Not taken.

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE

TURNS

FT.

TURNS

DREDGE ROPE

DOWN

UP

6-55-00

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

2500
 2000
 1700
 1500
 1200
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100

STREET IDENTIFICATION

DEPTH	CLASS	NO. OF LOGS	LOW	MS. TIME
25				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS

No. 569 Date Feb 7th 1871

Tanner Machine. Reel.

Turns 26 Cor. + Depth 27

Shot or lead

Bottom gy s bk s, sh

Bottom temperature Not taken

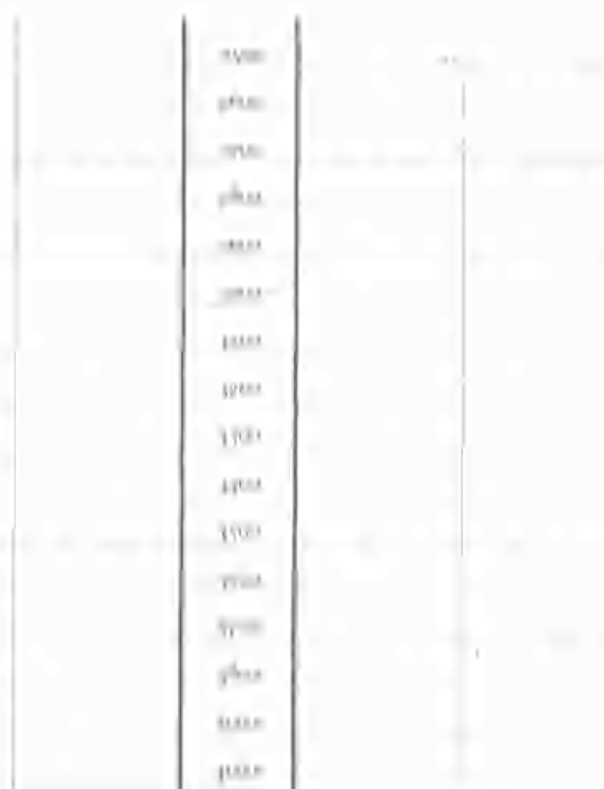
No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5-11-00		0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



ΣΚΗΜΑ 1: ΠΡΟΫΠΟΛΟΓΙΣΜΟΣ

ΠΡΟΤ.	ΠΡΟΫΠ.	ΣΥΝ. ΠΡΟΫΠ.	ΠΡΟΣ.	ΣΥΝ. ΠΡΟΣ.
1	1000	1000	1000	1000
2	2000	2000	2000	2000
3	3000	3000	3000	3000
4	4000	4000	4000	4000
5	5000	5000	5000	5000
6	6000	6000	6000	6000
7	7000	7000	7000	7000
8	8000	8000	8000	8000
9	9000	9000	9000	9000
10	10000	10000	10000	10000
11	11000	11000	11000	11000
12	12000	12000	12000	12000
13	13000	13000	13000	13000
14	14000	14000	14000	14000
15	15000	15000	15000	15000
16	16000	16000	16000	16000
17	17000	17000	17000	17000
18	18000	18000	18000	18000
19	19000	19000	19000	19000
20	20000	20000	20000	20000

ΠΡΟΫΠΟΛΟΓΙΣΜΟΣ

No. *12-50-02* Date *Feb 7 1892*

Sigsbee Machine. Reel.

Turns *29* Cor. + Depth *30*

Shot or lead

Bottom *co. gy. sec s. brk sh*

Bottom temperature *Not taken*

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE		FATHOMS	DREDGE ROPE	
DOWN.	UP.		DOWN.	UP.
<i>12-50-02</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		

300
200
100
0
100
200
300
400
500
600
700
800
900
1000

GRÁFICO DE TEMPERATURAS

TEMP.	TEMP.	TEMP.	TEMP.	TEMP.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				

ARMANDO

No. 2368 Date Feb 7th pm.

Tanner Machine. Reel.

Turns 27 Cor. 1 Depth 28

Shot or lead 15 lb

Bottom cor. gy. s. bl. sh.

Bottom temperature 42.2

No. of thermometer Cor.

Corrected temperature

Air 60 Surface 64 Drift

Trawl or dredge Tangles.

SOUNDING WIRE

DREDGE ROPE

DOWN.

UP.

TURNS.

DOWN.

UP.

12-11-00

0

12-27-00

12-28-00

27 100-60

27-10-00

26-27

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

	100
	200
	300
	400
	500
	600
	700
	800
	900
	1000
	1100
	1200
	1300
	1400
	1500
	1600
	1700
	1800
	1900
	2000

SEMI-TEMPERATURES.

TEMP.	TIME	DESCRIPTION	WIND	WIND DIR.	WIND FORCE
64					
66					
68					
70					
72					
74					
76					
78					
80					
82					
84					
86					
88					
90					
92					
94					
96					
98					
100					

REMARKS

Nothing

Watch 12th first.

No. 2369

Date July 7th / 89

Sigsbee

Machine,

Reel.

Turns 55

Cor. 1

Depth

26

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 60

Surface 60

Drift

Trawl or dredge

L. B. J.

SOUNDING WIRE.

TURNS.

DT.

TURNS.

DREDGE ROPE.

TURNS.

DT.

Assumed depth;
No sounding taken.

0

12-58-15

18-50

10060

1-20-00

19-20

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
3600
3700
3800
3900
4000
4100

SERIAL TEMPERATURES

DEPTH	TEMP.	DIR. OF CURR.	DRIFT	DRIFT VELOCITY
25				
30				
100				
200				
300				
400				
500				
750				
1000				
1250				
1500				
1750				
2000				
2250				
2500				
2750				
3000				
3250				
3500				
3750				
4000				
4250				

REMARKS:

10 lbs. stream fork, in hydrographic
 net shells, sand, worms,
 and other organisms found
 on the bottom, etc.

Watch 12th feet.

60.

No. 2370 Date Feb 1 1891

Lanner Machine. Reel.

Turns 200 Cor. 1 Depth 25

Shot or lead 18 lb

Bottom cr. gy. s. brk. sh.

Bottom temperature Not taken

No. of thermometer Cor.

Corrected temperature

Air 60 Surface 64 Drift

Trawl or dredge L. S. J

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1-25-10	29-10-30	0	1-20-15	48-30
2-5-25		100	32-35	12-30
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

DEPTH	TIME	NO. OF THER.	LOC.	DIR. TEMP.
25				
50				
100				
200				
300				
400				
500				
700				
900				
1100				
1300				
1500				

REMARKS:

Trawl haul with large quantities dead shells and small amount with some bottom life, scaphopoda, nautilus, etc.
 A few living shells and one small fish found bottom.

No. 2371 Date Feb 7 1892

Sigsbee Machine. Reel.

Turns 24 1/2 Cor. + 1 Depth 26

Shot or lead 18 lb.

Bottom gy. s. bk. sh.

Bottom temperature 66

No. of thermometer 53785 Cor. -.2

Corrected temperature 65.8

Air 64.5 Surface 65.5 Drift

Trawl or dredge L. 10. 7.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1-16-20	18-40	0	2-22-10	24-40
16-40	17-50	24 1/2	24-50	30-00
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

DEPTH TEMPERATURES.

DEPTH.	FATHS.	NO. OF THERM.	TIME.	LOW TEMP.
05				
20				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Some fine sand bottom and some
 the net. Live bottom. Several
 species of small bottom fish. Numerous
 hydroids, sponges, corals, and
 small shells and mussel life.

No. 2372 Date July 7 pm.

Tanner Machine. Reel.

Turns 26 Cor. 1 Depth 27Shot or lead 18 lbBottom gravel.Bottom temperature Not taken.

No. of thermometer Cor.

Corrected temperature

Air 64.5 Surface 4.5 DriftTrawl or dredge L-10.2

SOUNDING WIRE.

DOWNS.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWNS.	UP.	TURNS.	DOWN.	UP.
<u>2-47-30</u>	<u>48-20</u>	<u>0</u>	<u>2-55-50</u>	<u>19-10</u>
<u>48-50</u>	<u>48-05</u>	<u>100</u>	<u>58-10</u>	<u>15-00</u>
		<u>200</u>		<u>2-00</u>
		<u>300</u>		
		<u>400</u>		
		<u>500</u>		
		<u>600</u>		
		<u>700</u>		
		<u>800</u>		
		<u>900</u>		
		<u>1000</u>		
		<u>1100</u>		
		<u>1200</u>		
		<u>1300</u>		
		<u>1400</u>		
		<u>1500</u>		
		<u>1600</u>		
		<u>1700</u>		
		<u>1800</u>		
		<u>1900</u>		
		<u>2000</u>		
		<u>2100</u>		
		<u>2200</u>		
		<u>2300</u>		
		<u>2400</u>		

	3000	
	2500	
	2000	
	1500	
	1000	
	500	
	0	
	500	
	1000	
	1500	
	2000	
	2500	
	3000	

SERIAL TEMPERATURES

DEPTH	TIME	NO. OF THER.	ETC.	USE TIME
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				

REMARKS

Large quantities dark shales occur
 extending since from bottom life

No. 2373 Date Feb 7th / 85

Machine. Reel.

Turns 20 Cor. + Depth 20

Shot or lead

Bottom fine sand

Bottom temperature Not taken

No. of thermometer Cor.

Corrected temperature

Air 65.5 Surface 64.5 Drift

Trawl or dredge L. B. T.

SOUNDING WIRE

DREDGE ROPE

DOWN.

UP.

TURNS

DOWN.

UP.

3-26-50

27-10"

0

3-40-50

38-30"

35-50

2-100-20

3-45-50

36-20"

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

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

SERIAL TEMPERATURES.

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

REMARKS:

Very successful haul, comprising various fish, star fish, octopods, crabs, shrimps, worms and quantities of dead shells.
 Small sea-horse

No. 2374 Date Feb 7 p.m.

Sigsbee Machine. Reel.

Turns 25 Cor. + 1 Depth 26

Shot or lead 15 lb.

Bottom S. green, br. sh.

Bottom temperature Not taken.

No. of thermometer Cor.

Corrected temperature

Air 63 Surface 64 Drift

Trawl or dredge L. 70, J

SOUNDING WIRE

DREDGE ROPE

DOWN.

UP.

TURNS.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
+ 26-40	27-45	0	+ 30-10	26-15
27-20	27-25	25 100 20	32-20	27-25
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

STANDARDIZATION

NO.	DATE	NO. OF TITRATIONS	CON.	W.E. USED
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
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29				
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36				
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38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				

REMARKS:

Standardization of Potassium Permanganate solution.

No. 2375 Date Feb 7 1900

Tanner Machine. Reel.

Turns 247 Cor. 1 Depth 30Shot or lead 15 lbBottom S. test. sh. brk. sh.Bottom temperature Not taken

No. of thermometer Cor.

Corrected temperature

Air 62 Surface 57 DriftTrawl or dredge 3 1/2 4

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

FATHOMS.

DOWN.

UP.

5-15-3016-0005-25-3029-1516-15295-25-305-26-00

100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

VERTICAL TEMPERATURES

DEPTH (m)	TEMP.	NO. OF THERM.	TIME	DATE
05				
20				
40				
60				
80				
100				
120				
140				
160				
180				
200				
220				
240				
260				
280				
300				
320				
340				
360				
380				
400				

REMARKS:

No. *571* Date *Feb 10 p.m.*

Tanner Machine. Reel.

Turns _____ Cor. + _____ Depth *324*

Shot or lead _____

Bottom *bl. s.*

Bottom temperature *61*

No. of thermometer *53755* Cor. *- 2*

Corrected temperature *60.2*

Air _____ Surface _____ Drift _____

Trawl or dredge _____

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11-43-40</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		

100
 90
 80
 70
 60
 50
 40
 30
 20
 10
 0
 -10
 -20
 -30
 -40
 -50
 -60
 -70
 -80
 -90
 -100

SPITAL TEMPERATURE

DEPTH	TIME	NO. OF THERM.	TEMP.	DATE
25				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS:

No. 572 (No. 1) Date Feb. 11th 1872,

Tanner Machine. Reel,

Turns 42 Cor. + Depth 43

Shot or lead 15 lb.

Bottom Co. gy. S.

Bottom temperature 61

No. of thermometer 53735 Cor. - .2

Corrected temperature 60.8

Air 42 Surface 60 Drift

Trawl or dredge

SOUNDING WIRE.

DOWNS.

UP.

TURNS.

DREDGE ROPE.

DOWNS.

UP.

12-35

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

1300
 1200
 1100
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

SUBAL. TEMPERATURES.

DEPTH	TEMP.	NO. OF THER.	NO.	NO. OF THER.
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				

END OF SHEET.

No. 573 Date Feb 11th AM
 Trawl Machine. Reel.
 Turns 95 Cor. + 4 Depth 99
 Shot or lead 18 lb
 Bottom fine mud.
 Bottom temperature 59°
 No. of thermometer 53725 Cor. - .1
 Corrected temperature 58.9
 Air 43 Surface 60 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1-14-00	15-00	0		
15-00		95		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2000
 1900
 1800
 1700
 1600
 1500
 1400
 1300
 1200
 1100
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0
 -100
 -200
 -300
 -400
 -500
 -600
 -700
 -800
 -900
 -1000

HEMAL TEMPERATURES

HEM. CO.	DATE	HEMAL TEMPER.	TIME	WIND DIRECTION
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
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52				
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72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				

REMARKS:

No. 574 Date Feb 11 1898

Machine. Reel.

Turns 200 Cor. 1 6 Depth 206

Shot or lead 15 lb.

Bottom blk. mud.

Bottom temperature 49

No. of thermometer 53735 Cor. -1

Corrected temperature 48.9

Air 43 Surface 61 Drift

Trawl or dredge

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

1-5740	2-00-00	0		
	56-30	100		
55-45		200		

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

		100	
		900	
		800	
		700	
		600	
		500	
		400	
		300	
		200	
		100	
		0	
		100	
		200	
		300	
		400	
		500	
		600	
		700	
		800	
		900	
		1000	

SERIAL PROPERTIES

PROB.	TIME	NO. OF TRIES	TIME	NO. OF TRIES
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				

RESULTS

No. 575 Date Feb 11th 1881

Tanner Machine. Reel.

Turns 354 Cor. = 5 Depth 362

Shot or lead

Bottom blk. m.

Bottom temperature 43.5

No. of thermometer 53735 Cor. -.3

Corrected temperature 43.2

Air 43.5 Surface 61 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
2-36-20	52-15	0		
37-45	47-30	100		
58-55	44-20	200		
40-15	42-30	300		
40-55		354-100		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
 2000
 1750
 1500
 1250
 1000
 750
 500
 250
 0
 250
 500
 750
 1000
 1250
 1500
 1750
 2000
 2500

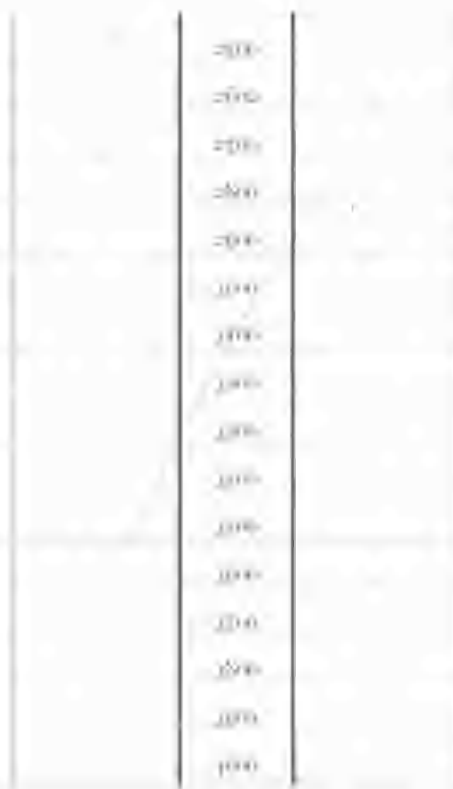
TABLE THERMISTERS.

Method	Date	no. of runs	no.	1000, 1000, 4
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				

REMARKS

No. 576 Date Feb 11/27
 Sigsbee Machine. Reel. 1
 Turns 542 Cor. 57 Depth 599
 Shot or lead 25
 Bottom gy. m.
 Bottom temperature ~~11.2~~ 11.2
 No. of thermometer ~~5375~~ Cor.
 Corrected temperature
 Air 44 Surface 61 Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3-33-45	54-50	0		
35-40	53-20	100		
37-10	51-50	200		
39-40	50-15	300		
41-10	48-40	400		
43-15	46-30	500		
44-15		542		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		



SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	TIME	DIR. WIND
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS

No. 577 Date Feb 11th a.m.
 Sigsbee Machine. Reel. 1
 Turns 670 Cor. + 70 Depth 740
 Shot or lead 35 lb
 Bottom blue mud
 Bottom temperature 40
 No. of thermometer 53735 Cor. -.2
 Corrected temperature 39.7
 Air 53 Surface Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
	8-45	0		
	7-35	100		
	6-35	200		
	5-25	300		
	4-24-20	400		
		500		
4-5-6-15	3-21-15	600		
		670		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1500
 1700
 1900
 2100
 2300
 2500
 2700
 2900
 3100
 3300
 3500
 3700
 3900
 4100
 4300

ABOVE DEMONSTRATION

DEPTH	TEMP.	NO. OF THER.	WIND	WAVE, TEMP.
5				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS:

No. *Hyd 578* Date *Feb 11 1882*
Sigsbee Machine. Reel. *1*
 Turns *632* Cor. *66* Depth *698*
 Shot or lead *35 lb*
 Bottom *gy. m.*
 Bottom temperature *40*
 No. of thermometer *53730* Cor. *- 2*
 Corrected temperature *39.7*
 Air Surface Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5-49-45</i>	<i>9-30</i>	0		
	<i>8-20</i>	100		
<i>52-10</i>	<i>7-10</i>	200		
<i>53-30</i>	<i>5-50</i>	300		
<i>54-35</i>	<i>4-35</i>	400		
<i>56-10</i>	<i>3-25</i>	500		
<i>57-45</i>	<i>6:01-40</i>	600		
		<i>632</i>		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1500
 1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100

GENERAL INFORMATION

DATE	TIME	NO. OF TUBS	TONS	TONS PER
10/10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

TOTAL

No. *579* Date *Feb 11 1881*
 Sigsbee Machine. Reel. *1*
 Turns *677* Cor. = *70* Depth *747*
 Shot or Lead *35 lb*
 Bottom *gy. m.*
 Bottom temperature *40*
 No. of thermometer *5235* Cor. = *.3*
 Corrected temperature *39.7*
 Air Surface Drift
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>7-24-11</i>	<i>24-11</i>	0		
<i>6-40</i>	<i>28-11</i>	100		
<i>7-44</i>	<i>22-45</i>	200		
<i>8-50</i>	<i>21-30</i>	300		
<i>10-20</i>	<i>20-10</i>	400		
<i>11-20</i>	<i>18-50</i>	500		
<i>12-20</i>	<i>17-40</i>	600		
<i>13-20</i>	<i>16-20</i>	<i>677</i> 700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1900
11) 1900
11) 1900
11) 1900

No. 580 Date Feb 11 A.M.,

Sigsbee Machine. Reel.

Turns 553 Cor. 18 Depth 611

Shot or lead 35 lb.

Bottom gy. m.

Bottom temperature 40.5

No. of thermometer 53735 Cor. - .3

Corrected temperature 40.2

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-07-45	20-00-00	0		
15-40	20-15	100		
9-50	20-40	200		
11-15	21-05	300		
12-20	20-30	400		
13-40	15-00	500		
14-20	13-00	553 600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000
 4100

SERIAL TEMPERATURES.

DATE.	TEMP.	DAY OF YEAR.	TEMP.	
			LOW.	HIGH.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				

CHANGES.

No. 551

Date

Feb 11th 1921

Sigsbee

Machine.

Reel.

Turns 669 Cor. + 720

Depth 739

Shot or lead 35^{lb}

Bottom gm, m

Bottom temperature Not taken

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

9-25-25	40-25	0		
26-30	42-25	100		
27-30	41-25	200		
28-25	40-25	300		
30-20	39-25	400		
31-20	38-25	500		
33-25	36-25	600		
34-26	35-25	669		

669

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

11
 10
 9
 8
 7
 6
 5
 4
 3
 2
 1

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

TRIAL TEMPERATURES

DEPTH	TEMP.	No. OF THER.	LOW	COE. TEMP.
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				

REMARKS:

No. 582 Date Feb 11 am
 Sigbee Machine. Reel.

Turns 518 Cor. = 55 Depth 573

Shot or lead 35

Bottom gn. m.

Bottom temperature 40.2

No. of thermometer 53735 Cor. - .3

Corrected temperature 39.9

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11-06-20	35-35	0		
7-46	19-30	100		
8-45	18-25	200		
9-25	17-20	300		
11-15	16-10	400		
13-45	14-55	500		
15-10	14-45	518		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

49 5/11
 1/3

2000
 2100
 2200
 2300
 2400
 2500
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

SUBALYTIMIC DATA

DEPTH	TEMP.	NO. OF TUBES	TIME	CO. TIME
5				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS:

No 19th feet.

No. 583

Date Feb 11 1881

Sigsbee

Machine.

Reel. 1

Turns 439 Cor. + 47

Depth 486

Shot or lead 35 lb

Bottom gn. m.

Bottom temperature 41.3

No. of thermometer 53785

Cor. - .3

Corrected temperature 41

Air

Surface

Drift

Trawl or dredge

SOUNDING WIRE

DREDGE ROPE

DOWN.

UP.

TURNS.

DOWN.

UP.

12-0-46

12-50

0

12-2-02

17-40

100

7-30

16-25

200

9-20

15-25

300

11-25

14-10

400

12-25

13-40

439 500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

447
22
10

1400
 1300
 1200
 1100
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

GENERAL CONCENTRATION

DATE	TIME	NO. OF COUNTS	TIME	COUNT RATE
1/1	10:00	1000	10:00	1000
1/1	10:10	1000	10:10	1000
1/1	10:20	1000	10:20	1000
1/1	10:30	1000	10:30	1000
1/1	10:40	1000	10:40	1000
1/1	10:50	1000	10:50	1000
1/1	11:00	1000	11:00	1000
1/1	11:10	1000	11:10	1000
1/1	11:20	1000	11:20	1000
1/1	11:30	1000	11:30	1000
1/1	11:40	1000	11:40	1000
1/1	11:50	1000	11:50	1000
1/1	12:00	1000	12:00	1000

RESULTS

Watch 18^m fact.

No. 2076 Date Feb 11 1911

Sigsbee Machine. Reel. 1

Turns 292 Cor. + 32 Depth 324

Shot or lead 35 lb

Bottom gy m

Bottom temperature 46.4

No. of thermometer 52725 Cor. - .2

Corrected temperature 46.3

Air 50.3 Surface 62 Drift

Trawl or dredge R. S. J.

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

1-58-14	12-15	0	1-55-40	56-30
2-02-00	1-40	100	57-15	53-30
3-10-00	10-25	200	2-01-20	50-30
4-15	7-45	292	2-05-15	47-00
		400	6-15	44-15
		500	9-10	40-25
		600	12-05	36-30
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

29-40-15
28-16-20

49-10
29-10
28-10

2500
2500
2500
2500
2500
2500
2500
2500
2500
2500
2500
2500
2500
2500
2500
2500
2500
2500
2500
2500
2500

SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	TIME	DATE
25				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS

Very fine breeze - 10 knots, fresh, variable
 direction, about center, being rather dry fresh
 breeze, variable.

Wreck 8th feet

No. 2377

Date

Sept 11, 1901

Sigsbee

Machine.

Reel.

Turns 189 Cor. + 21

Depth 210

Shot or lead 35 lb

Bottom gy. m.

Bottom temperature

67.1

No. of thermometer

53735

Cor. - .1

Corrected temperature

66.9

Air 50

Surface 63

Drift

Trawl or dredge

A 70 f.

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

4-02-20"

7-20

0

4-12-40"

24-20

2-20"

6-20

100

15-20"

5-01-20"

4-00"

5-00"

189 200

17-20"

8-05-20"

300

23-20"

16-20"

400

27-20"

12-15"

500

4-28-40"

4-20-40"

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

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

DEPTH TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	TIME	DATE
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				
210				
220				
230				
240				
250				
260				
270				
280				
290				
300				
310				
320				
330				
340				
350				
360				
370				
380				
390				
400				

REMARKS:

Very good haul, with the biggest
 as the biggest; more water of hot

No. 2378 Date Feb 11/02
 Sigbee Machine. Reel.
 Turns Cor. + Depth 68 fms
 Shot or lead 35 lb
 Bottom lost lead (94 m.)
 Bottom temperature lost thermometer
 No. of thermometer 53735 Cor.
 Corrected temperature
 Air 50 Surface 63 Drift
 Trawl or dredge L. D. J.

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

5-07-40

0

5-07-40

6-36

40-15

60-100

2-05

200

5-53

6-18

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Wire gimped out.

got under bottom and

parted losing outfit,

the no. 53735, 35 lb

lead, plumb bob, and 68 turns = 75 fms wire

Skipped again with

same machine

to get specimen of

bottom.

	500	
	400	
	300	
	200	
	100	
	0	
	100	
	200	
	300	
	400	
	500	
	600	
	700	
	800	
	900	

SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	DATE	TIME
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				

REMARKS:

Very good haul

No. *Hyd 554* Date *Feb 11 1892**Tanner* Machine. Reel.Turns *45* Cor. *+ 1* Depth *46*Shot or Lead *25 lb. Cast*Bottom *gy. m.*Bottom temperature *Not taken*

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7-00-30</i>		0		
<i>2-15</i>		<i>45</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		

3500
3600
3700
3800
3900
4000
4100
4200
4300
4400
4500
4600
4700
4800
4900

SERIAL TEMPERATURES

DEPTH	TIME	No. of OBS.	CHL.	CHL. CORR.
0				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS

17 18^m fast

507

No. 580 Date Feb 10 / 1900
Tanner Machine. Reel.
 Turns 35 Cor. 1 Depth 35
 Shot or lead 25 lb
 Bottom gy. s.
 Bottom temperature Not taken
 No. of thermometer Cor.
 Corrected temperature
 Air Surface Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>7-36-00</u>	<u>38-30</u>	0		
<u>37-00</u>	<u>37-30</u>	<u>34-100</u>		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

200
 250
 300
 350
 400
 450
 500
 550
 600
 650
 700
 750
 800
 850
 900
 950
 1000

GENERAL TEMPERATURES.

TIME	TEMP.	WIND DIRECTION	DIR.	WIND FORCE
15				
30				
45				
60				
75				
90				
105				
120				
135				
150				
165				
180				

REMARKS:

Water 15^m feet

No. 586 Date Feb 11 1901.
 Tarnen Machine, Reel,
 Turns 31 Cor. 1 Depth 32

Shot or lead

Bottom gy. S. m.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-07-20	8-40	0		
7-55		31		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

HEAT	COND.	NO. OF THER.	TEMP.	DATE TIME.
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				

REMARKS

No. 584 (21) Date Feb 11 / 1924
 Sigsbee Machine. Reel.

Turns 29 Cor. Depth 30

Shot or lead 25 lb

Bottom gm. m.

Bottom temperature Not taken

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

T.W.C.

T.P.

FATHOMS

DOWN.

UP.

8-36-00

0

26-20

29 100

07-00

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

3900
3800
3700
3600
3500
3400
3300
3200
3100
3000
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

IRIAL NIBIBAYERS

IRIAL	IRIAL	IRIAL	IRIAL	IRIAL
3900				
3800				
3700				
3600				
3500				
3400				
3300				
3200				
3100				
3000				
2900				
2800				
2700				
2600				
2500				
2400				
2300				
2200				
2100				
2000				

IRIAL

No. 588 Date Feb 11 1902
 Tarnes Machine. Reel.
 Turns 35 Cor. + 1 Depth 36
 Shot or lead 25 lb
 Bottom gn. m
 Bottom temperature Not taken
 No. of thermometer Cor.
 Corrected temperature
 Air Surface Drift
 Trawl or dredge

SOUNDING WIRE

DOWN.

UP.

TURNS

DREDGE ROPE

DOWN.

UP.

9-02-02

03-30

0

02-30

35-100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

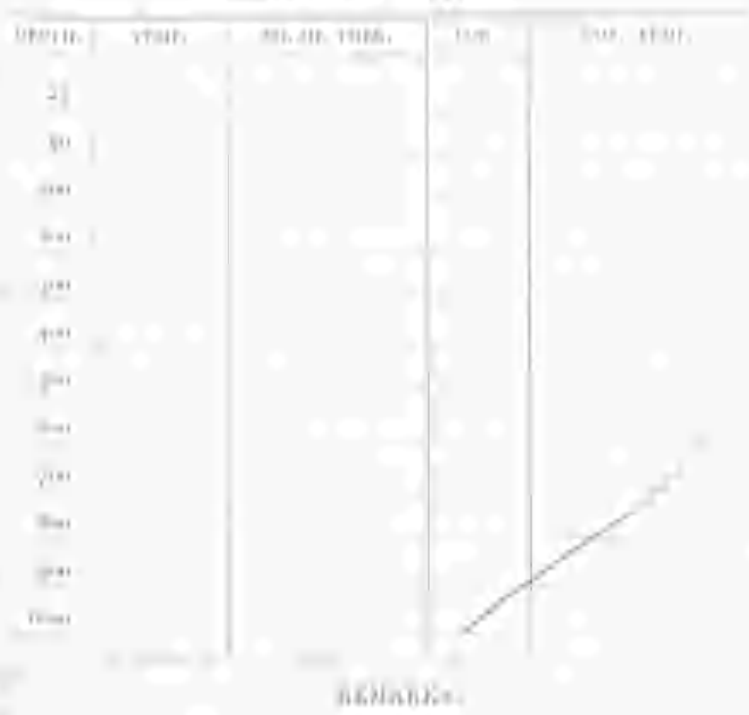
2200

2300

2400

2500
 2000
 1500
 1000
 500
 0
 -500
 -1000
 -1500
 -2000
 -2500
 -3000
 -3500
 -4000
 -4500
 -5000

SUBIAL. CESTRUM (USIA)



REMARKS:

No. 2379 Date March 2^d 1872.
 Sigbee Machine. Reel. 1
 Turns 1336 Cor. + 131 Depth 1467
 Shot or lead 30 lb Shot,
 Bottom *yl. oz.*
 Bottom temperature *How did not trip*
 No. of thermometer 53733 Cor.
 Corrected temperature
 Air 60 Surface Drift
 Trawl or dredge *L. B. J.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5-40-00	18-30	0	6-27-00	04-45
41-00	17-30	100	29-00	31-30
42-50	16-45	200	44-10	28-55
43-10	15-50	300	49-20	26-25
44-30	15-00	400	52-30	23-55
45-35	14-00	500	56-35	21-30
46-50	12-55	600	7-50-55	18-45
48-15	11-30	700	04-50	16-05
49-45	9-50	800	08-05	13-10
51-25	8-40	900	11-45	10-15
53-15	7-15	1000	14-50	7-20
55-05	5-55	1100	18-55	04-25
56-55	4-25	1200	23-05	10-01-15
58-55	02-45	1300	25-55	58-15
59-50	6-02-10	1336	29-35	55-35
		1500	34-15	52-40
		1600	37-25	49-30
		1700	41-45	46-10
		1800	45-20	42-35
		1900	50-30	39-30
		2000	54-55	36-05
		2100	58-00	32-25
		2200	01-10	28-20
		2300	12-00	9-20-20
		2400		

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THERM.	TIME	COR. TEMP.
55				
70				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS

Deep joints hard; several specimens
 become fish, shrimp, sponges, thhale
 human, worms, of human, & thhirdness
 (maldivian) sponges.

No. 2380 Date *March 2 a.m.*
Sigsbee Machine. Reel. 1

Turns *1305* Cor. + *125* Depth *1430*

Shot or lead *30-lb*

Bottom *fm. M. foram.*

Bottom temperature *40.5*

No. of thermometer *53741* Cor. - *.4*

Corrected temperature *40.1*

Air *59.7* Surface Drift

Trawl or dredge *L.B.V.*

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10-43-24"</i>	<i>16-25"</i>	0	<i>11-30-40</i>	<i>19-50</i>
<i>44-30</i>	<i>17-30</i>	100	<i>28-40</i>	<i>16-50</i>
<i>45-40</i>	<i>16-40</i>	200	<i>32-40</i>	<i>14-50</i>
<i>46-55</i>	<i>15-50</i>	300	<i>36-10</i>	<i>12-15</i>
<i>48-15</i>	<i>15-00</i>	400	<i>38-50</i>	<i>9-55</i>
<i>49-35</i>	<i>14-55</i>	500	<i>42-55</i>	<i>7-40</i>
<i>51-00</i>	<i>13-10</i>	600	<i>47-55</i>	<i>04-55</i>
<i>52-25</i>	<i>12-10</i>	700	<i>51-55</i>	<i>01-55</i>
<i>53-55</i>	<i>11-55</i>	800	<i>55-40</i>	<i>59-10</i>
<i>55-25</i>	<i>9-55</i>	900	<i>59-10</i>	<i>56-15</i>
<i>57-25</i>	<i>8-45</i>	1000	<i>1-00-30</i>	<i>53-20</i>
<i>58-45</i>	<i>7-35</i>	1100	<i>6 35</i>	<i>50-25</i>
<i>00-45</i>	<i>6-10</i>	1200	<i>10 30</i>	<i>47-20</i>
<i>2-50</i>	<i>04-45</i>	1300	<i>14 00</i>	<i>44-15</i>
<i>3-45</i>	<i>4-40</i>	<i>305</i> 1400	<i>17 30</i>	<i>41-55</i>
		1500	<i>20 40</i>	<i>37-55</i>
		1600	<i>24 15</i>	<i>34-15</i>
		1700	<i>29. 20</i>	<i>31-10</i>
		1800	<i>34 05</i>	<i>28-10</i>
		1900	<i>37-35</i>	<i>24-40</i>
		2000	<i>41-55</i>	<i>21-50</i>
		2100	<i>46-30</i>	<i>2-17-15</i>
		2200	<i>50-45</i>	<i>2-09-55</i>
		2300	<i>54-20</i>	<i>1-54-15</i>
		2400		

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

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO OF THER.	DIR.	WIND TEMP.
25				
50				
100				
150				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Same as preceding.

No. 2381 Date *March 2 1898**Sigsbee* Machine. Reel. 1

Turns 1211 Cor. + 119 Depth 1330

Shot ~~or lead~~ = 30 lb shotBottom *lt. br. M., forams.*Bottom temperature *ther. tripart but having*

No. of thermometer 53741 Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge *L. T. J.*

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3-59-00	03-05	0	4-37-45	55-30
4-00-00	02-45	100	42-25	52-40
01-10	01-50	200	46-35	50-20
02-20	30-05	300	50-50	47-50
3-45	29-10	400	54-40	45-25
7-25	28-10	500	57-50	43-00
8-45	27-05	600	01-40	40-30
10-20	26-00	700	5-40	37-55
11-50	24-50	800	8-15	35-20
13-20	22-40	900	12-25	32-50
14-45	22-25	1000	16-20	30-30
16-10	21-05	1100	20-20	27-40
17-40	19-40	1200	24-05	24-50
17-50	17-20	1211/1300	27-10	22-50
		1400	32-	19-05
		1500	35-55	16-10
		1600	40-25	12-55
		1700	43-40	9-55
		1800	47-35	6-50
		1900	52-00	03-30
		2000	56-40	1-40-00
		2100	6-00-15	6-56-15
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES

DEPTH	TEMP.	NO. OF THER.	TIME	SUR. TEMP.
5				
10				
15				
20				
25				
30				
35				
40				
45				
50				
55				
60				
65				
70				
75				
80				
85				
90				
95				
100				

REMARKS

Halobutyrin Monoglycol ether
 - fish

No. 2382 Date *Mon 3^d am*
Sigsbee Machine. Reel. 1

Turns *1142* Cor. + *113* Depth *1250*

Shot or lead *30 lb shot*

Bottom *Gy. M. forams.*

Bottom temperature *40*

No. of thermometer *53741* Cor. *-.4*

Corrected temperature *39.6*

Air Surface Drift

Trawl or dredge *L. W. S.*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>5-27-10</i>	<i>04-00</i>	0	<i>6-10-15</i>	<i>20-00</i>
<i>35-00</i>	<i>03-15</i>	100	<i>13-20</i> ^{0.05}	<i>27-20</i>
<i>39-00</i>	<i>02-25</i>	200	<i>17-30</i> ^{0.05}	<i>24-20</i>
<i>40-05</i>	<i>01-45</i>	300	<i>21-20</i> ^{0.10}	<i>21-45</i>
<i>41-14</i>	<i>6-00-00</i> ^{0.15}	400	<i>25-25</i> ^{0.15}	<i>19-10</i>
<i>42-20</i>	<i>59-50</i>	500	<i>29-20</i> ^{0.20}	<i>16-25</i>
<i>43-20</i>	<i>58-50</i>	600	<i>33-25</i> ^{0.25}	<i>13-40</i>
<i>44-50</i>	<i>57-50</i>	700	<i>37-15</i> ^{0.30}	<i>11-00</i>
<i>46-15</i>	<i>56-50</i>	800	<i>42-25</i> ^{0.35}	<i>08-15</i>
<i>47-40</i>	<i>55-45</i>	900	<i>46-20</i> ^{0.40}	<i>05-15</i>
<i>49-05</i>	<i>54-30</i>	1000	<i>51-20</i> ^{0.45}	<i>02-20</i>
<i>50-20</i>	<i>53-20</i>	1100	<i>55-05</i> ^{0.50}	<i>59-15</i>
<i>51-10</i>	<i>52-40</i>	<i>1142</i> 1200	<i>59-05</i> ^{0.55}	<i>56-15</i>
		1300	<i>63-10</i> ^{0.60}	<i>52-10</i>
		1400	<i>6-55</i> ^{0.65}	<i>49-45</i>
		1500	<i>11-20</i> ^{0.70}	<i>46-20</i>
		1600	<i>16-10</i> ^{0.75}	<i>43-15</i>
		1700	<i>20-50</i> ^{0.80}	<i>39-35</i>
		1800	<i>24-50</i> ^{0.85}	<i>35-40</i>
		1900	<i>27-20</i> ^{0.90}	<i>32-15</i>
		2000	<i>33-00</i> ^{0.95}	<i>27-40</i>
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	LOG.	LOG. TEMP.
45				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				
160				
170				
180				
190				
200				

REMARKS:

No bottom specimens
Net probably not on bottom.

No. 2383 Date *March 3rd a.m.*
Sigsbee Machine. Reel. 1

Turns 1075 Cor. 106 Depth 1181

Shot ~~on beach~~ 30 lb shot

Bottom *br. gn. M. foram.*

Bottom temperature 40.2

No. of thermometer 53741 Cor. -.4

Corrected temperature 39.8

Air Surface Drift

Trawl or dredge *L. T. J.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

10-22-05 ^{11.18}	29-40	0	10-21-05 ^{12.10}	6-30
24-10 ^{11.27}	48-45	100	54-05 ^{12.20}	8-45
25-20 ^{11.37}	57-50	200	58-45 ^{12.30}	12-01-15
26-45 ^{11.47}	67-00	300	02-15 ^{12.40}	03-00
28-05 ^{11.57}	76-10	400	4-45 ^{12.50}	54-10
29-25 ^{12.07}	85-15	500	7-25 ^{13.00}	51-40
30-50 ^{12.17}	94-15	600	10-25 ^{13.10}	48-10
32-15 ^{12.27}	103-15	700	14-10 ^{13.20}	44-30
33-40 ^{12.37}	112-15	800	17-00 ^{13.30}	40-25
35-05 ^{12.47}	121-10	900	21-15 ^{13.40}	36-25
36-35	130-00	1000	26-30 ^{13.50}	32-10
37-45	39-00	1100	30-25 ^{14.00}	28-15
		1200	34-40 ^{14.10}	24-25
		1300	37-45 ^{14.20}	17-15
		1400	41-40 ^{14.30}	12-30
		1500	45-25 ^{14.40}	8-30
		1600	48-30 ^{14.50}	04-50
		1700	52-50 ^{15.00}	00-10
		1800	56-35 ^{15.10}	56-30
		1900	59-30 ^{15.20}	52-25
		2000	1-30 ^{15.30}	48-30
		2100		
		2200		
		2300		
		2400		

1500
 1400
 1300
 1200
 1100
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

SERIAL TEMPERATURES

DEPTH	DATE	NO. OF THERM.	TEMP.	TEMP. (FATH)
0				
10				
20				
30				
40				
50				
60				
70				
80				
90				
100				
110				
120				
130				
140				
150				

REMARKS:

Strong lead mud - no fish -

No. 2384 Date Mar 3 1900
Sigsbee Machine. Reel. 1
 Turns 555 Cor. + 55 Depth 940
 Shot or lead 30 lb Shot.
 Bottom br. gy. M.
 Bottom temperature 40
 No. of thermometer 53741 Cor. -.4
 Corrected temperature 39.6
 Air Surface Drift
 Trawl or dredge L. T. J.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>2-49-00</u>	<u>19-00</u>	0	<u>21-45</u> <small>1.00</small>	<u>51 55</u>
<u>3-02-00</u>	<u>18-25</u>	100	<u>26-45</u> <small>2.45</small>	<u>52 15</u>
<u>01-00</u>	<u>17-15</u>	200	<u>30-30</u> <small>3.45</small>	<u>49 00</u>
<u>02-00</u>	<u>16-35</u>	300	<u>34-15</u> <small>2.45</small>	<u>47 25</u>
<u>3-10</u>	<u>15-30</u>	400	<u>37-00</u> <small>4.00</small>	<u>45 05</u>
<u>4-20</u>	<u>14-30</u>	500	<u>40-45</u> <small>4.45</small>	<u>43 10</u>
<u>5-35</u>	<u>13-25</u>	600	<u>45-30</u> <small>5.35</small>	<u>39 30</u>
<u>6-55</u>	<u>12-30</u>	700	<u>49-00</u> <small>6.35</small>	<u>36 35</u>
<u>8-20</u>	<u>11-05</u>	800	<u>53-10</u> <small>7.35</small>	<u>33-45</u>
<u>9-45</u>	<u>10-30</u>	<u>855</u>	<u>58-00</u> <small>8.30</small>	<u>30-40</u>
		1000	<u>02-55</u> <small>9.25</small>	<u>27-30</u>
		1100	<u>6-30</u> <small>10.15</small>	<u>24-15</u>
		1200	<u>10-40</u> <small>11.05</small>	<u>5-20-50</u>
		1300	<u>15-15</u> <small>11.55</small>	
		1400	<u>20-00</u> <small>12.45</small>	
		1500	<u>24-15</u> <small>13.35</small>	
		1600	<u>27-00</u> <small>14.25</small>	
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	TIME.	WIND, WAVE.
25				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS.

Many hauls and - new fish.

No. 2380- Date Feb 3 1891
 Sigsbee Machine. Reel. 1
 Turns 665 Cor. 65 Depth 730
 Shot or lead 35 lb lead
 Bottom gy. M.
 Bottom temperature 40.5
 No. of thermometer 58741 Cor. -.4
 Corrected temperature 40.1
 Air Surface Drift
 Trawl or dredge A. B. J.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
37-15	57-00	0	7-01-10	45-35
38-20	56-25	100	6-40	43-25
39-25	55-20	200	9-50	41-15
41-30	54-10	300	13-15	39-05
42-25	53-40	400	16-45	36-50
44-20	51-30	500	21-15	34-25
45-20	50-35	600	25-30	32-20
47-20	49-15	665/700	29-40	28-00
		800	33-15	27-45
		900	37-10	25-15
		1000	42-20	22-30
		1100	47-05	20-15
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2000
 1900
 1800
 1700
 1600
 1500
 1400
 1300
 1200
 1100
 1000
 900
 800
 700
 600
 500
 400
 300
 200
 100
 0

SUBIAL TEMPERATURES.

DEPTH.	TIME.	NO. OF THERM.	DIR.	WIND TEMP.
4 1/2				
10				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				
1100				
1200				
1300				
1400				
1500				
1600				
1700				
1800				
1900				
2000				

REMARKS

Very foggy breeze

No. 2386 Date Mar 4, 1881
 Sigsbee Machine. Reel.
 Turns 54 Cor. 6 Depth 60 fms.
 Shot or lead 35 lb.
 Bottom Lu. M.
 Bottom temperature 62°
 No. of thermometer 53741 Cor. - 2
 Corrected temperature 61.8
 Air 62 Surface 67 Drift
 Trawl or dredge L.T.S.

SOUNDING WIRE.		FATHOMS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>5-36-10</u>		0	<u>5-46-30</u>	<u>27-00</u>
		<u>54-100</u>	<u>57-30</u>	<u>63-25</u>
		200	<u>58-00</u>	<u>6-19-00</u>
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2300
 2600
 2700
 2800
 2900
 3000
 3100
 3200
 3300
 3400
 3500
 3600
 3700
 3800
 3900
 4000

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THERM.	DIR.	DIR. TEMP.
25				
50				
100				
150				
200				
250				
300				
350				
400				
450				
500				
550				
600				
650				
700				
750				
800				
850				
900				
950				
1000				

REMARKS:

Therm failed bottom - lost all but mud bag and end of net.

No. 589 (Hud) Date March 1st 1882

Sigsbee Machine. Reel.

Turns 51 Cor. 1 Depth 51 fathShot or Lead 35 lbBottom bu, s, mBottom temperature Not taken.

No. of thermometer Cor.

Corrected temperature

Air 54 Surface 66 Drift

Trawl or dredge

SOUNDING WIRE

DREDGE ROPE

TURNS.

FATH.

TURNS.

DOWN.

UP.

6-20-82

0

51 100

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

2500
 2550
 2600
 2650
 2700
 2750
 2800
 2850
 2900
 2950
 3000
 3050
 3100
 3150
 3200
 3250
 3300
 3350
 3400

WIND, VISIBILITY, etc.

DEPTH.	TEMP.	DIR. OF CUR.	DRIFT	TIME
05.				
20.				
100.				
200.				
300.				
400.				
500.				
600.				
700.				
800.				
900.				
1000.				

REMARKS.

11 11 11 11
 11 11 11 11
 11 11 11 11
 11 11 11 11

Chlorophyll a and b in 10^{-6} g/l
Total Chlorophyll 10^{-6} g/l

1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9
10	10
11	11
12	12
13	13
14	14
15	15
16	16
17	17
18	18
19	19
20	20
21	21
22	22
23	23
24	24
25	25
26	26
27	27
28	28
29	29
30	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
38	38
39	39
40	40
41	41
42	42
43	43
44	44
45	45
46	46
47	47
48	48
49	49
50	50
51	51
52	52
53	53
54	54
55	55
56	56
57	57
58	58
59	59
60	60
61	61
62	62
63	63
64	64
65	65
66	66
67	67
68	68
69	69
70	70
71	71
72	72
73	73
74	74
75	75
76	76
77	77
78	78
79	79
80	80
81	81
82	82
83	83
84	84
85	85
86	86
87	87
88	88
89	89
90	90
91	91
92	92
93	93
94	94
95	95
96	96
97	97
98	98
99	99
100	100

100