



Japanese Expedition,

1906

Dr. 4780 - 4813

///

Book No 2.

Next Nos. { Dr 4780
 { Hy. 4868

Am. Kil.
 No. *H. 4868.* Date *7 June 1906.*
Lucas Machine. Reel. *Lucas*
 Turns Cor.+ Depth *1471 fms.*
 Shot or lead *35 lb and Sigsbee Sdg Cup.*
 Bottom *dk. gy. M.*
 Bottom temperature *35.9*
 No. of thermometer *108019* Cor. *-0.1°*
 Corrected temperature *35.8°*
 Air *43°* Surface *41°* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8.02.05</i>	<i>8.35.00</i>	0		
<i>02.50</i>	<i>34.05</i>	100		
<i>03.40</i>	<i>33.10</i>	200		
<i>04.35</i>	<i>32.15</i>	300		
<i>05.40</i>	<i>31.25</i>	400		
<i>06.45</i>	<i>30.35</i>	500		
<i>07.55</i>	<i>29.45</i>	600		
<i>09.05</i>	<i>28.55</i>	700		
<i>10.15</i>	<i>28.00</i>	800		
<i>11.30</i>	<i>27.05</i>	900		
<i>12.50</i>	<i>26.10</i>	1000		
<i>14.10</i>	<i>25.10</i>	1100		
<i>15.30</i>	<i>24.10</i>	1200		
<i>16.50</i>	<i>23.00</i>	1300		
<i>18.20</i>	<i>21.50</i>	1400		
<i>8.19.30</i>	<i>8.20.30</i>	<i>1471</i> 1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L. = 97.3</i> <i>Chart: C.S. 9100</i> <i>Lat. 51° 51' N.</i> <i>Long. 174° 39' E.</i>	
		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				

11-1023

REMARKS:

No. *D. 4780*. Date *7 June, 06.*Lucas Machine. Reel. *Lucas*Turns Cor.+ Depth *1046 fms*Shot or lead *35 lb y Sigsbee Sigs. Cops.*Bottom *gy MSP*Bottom temperature *36°*No. of thermometer *108019*. Cor. *-0.1*Corrected temperature *35.9°*Air *45°* Surface *41°* DriftTrawl or dredge *Agassiz 8-ft.*

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

9.54.40 *10.16.10**55.20* *15.15**56.05* *14.30**57.00* *13.40**58.10* *12.50**59.20* *12.00**10.00.30* *11.05**01.40* *10.15**02.50* *09.25**04.05* *08.35**05.20* *07.25**10.05.55* *10.06.50*

0

100

200

300

400

500

600

700

800

900

1000

1046

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

10.26.50 *8.40**29.40* *5.25**33.35* *4.40**36.55* *12.00.00**39.50* *57.15**42.45* *54.25**45.45* *51.25**48.00* *49.00**51.20* *46.20**54.20* *43.40**57.10* *40.30**59.55* *37.00**11.02.50* *33.30**05.35* *29.20**08.35* *25.50**11.30* *21.50**14.15* *11.17.00**17.00* *11.17.00**19.00**21.00**23.00**25.00**27.00**29.00**31.00**33.00**35.00*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>OK.</i> <i>L.M. S.</i> 		2500	<i>P.L. =</i>	<i>7.3</i>
		2600	<i>Chart.</i>	<i>C.S. 9100</i>
		2700	<i>Lat. 52° 01' N</i>	
		2800	<i>Long. 174° 39' E.</i>	
		2900	<i>Weather</i>	<i>om</i>
		3000	<i>Wind</i>	<i>NW. 2</i>
		3100	<i>Sea.</i>	<i>S</i>
		3200	<i>Bar.</i>	<i>29.87</i>
		3300	<i>Ther. at</i>	<i>65°</i>
		3400	<i>Course:</i>	<i>W by N (AS.G)</i>
		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				

11-1023

REMARKS:

No. *H 4869* Date *June 7 00*
Lucas Machine. Reel.
 Turns Cor.+ Depth *808*
 Shot or lead *35 lb. Sig. alp.*
 Bottom *fine. gy. s. G*
 Bottom temperature *36.3*
 No. of thermometer *108019* Cor. *-0.1*
 Corrected temperature *36.2°*
 Air *45°* Surface *42°* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>26 20</i>	<i>23 15</i>	0		
<i>27 05</i>	<i>42 20</i>	100		
<i>27 50</i>	<i>41 30</i>	200		
<i>28 45</i>	<i>40 40</i>	300		
<i>29 40</i>	<i>39 50</i>	400		
<i>30 45</i>	<i>39 00</i>	500		
<i>31 55</i>	<i>38 00</i>	600		
<i>33 05</i>	<i>37 05</i>	700		
<i>34 15</i>	<i>36 00</i>	800		
<i>34 25</i>	<i>35 40</i>	<i>808</i>		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	FL	17.3
		2600	Chart	C.S. 9100
		2700	Lat 52° 08' N	
		2800	Long 174° 25' E	
		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				

11-1023

REMARKS:

No. *1478* Date *June 7 06*
Lucas Machine. Reel.
 Turns Cor.+ Depth *482*
 Shot or lead *35 lb* *Agg* *Cup*
 Bottom *fine gy. s. p.*
 Bottom temperature *38.7*
 No. of thermometer *108019* Cor. *-0.10*
 Corrected temperature *38.6*
 Air *45* Surface *42* Drift
 Trawl or dredge *12 fanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>57.10</i>	<i>7.15</i>	0	<i>3-13</i>	<i>004-18-00</i>
<i>58.00</i>	<i>6.20</i>	100	<i>16.30</i>	<i>14-15</i>
<i>58.50</i>	<i>5.30</i>	200	<i>19.30</i>	<i>11-00</i>
<i>59.50</i>	<i>4.40</i>	300	<i>22.35</i>	<i>7-35</i>
<i>3 00.50</i>	<i>3.50</i>	400	<i>25.35</i>	<i>4-05</i>
<i>1 50.30</i>	<i>2.45</i>	<i>482</i>	<i>28.35</i>	<i>4-00-00</i>
		600	<i>31.55</i>	<i>55-45</i>
		<i>65</i>	<i>33.30</i>	<i>53.10</i>
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	FL	27.3
		2600	Becker	km
		2700	Wood	N.W. 2-1
		2800	See	5
		2900	Bar	29.1
		3000	Howatt	43
		3100	By Comma	N.W. 2-1
		3200	Lat	32° 14' 30" N
		3300	Long	174° 13' E.
		3400	Chart	C.S. 9100.
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

Traced from 700 fms wire at estimated depth of 49 fms

OK. L.M. 2

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Var 90° E.</i>			
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

De Long
No. *D 4781* Contd. Date *June 7, 1906*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *42°* Surface *42°* Drift

Trawl or dredge *Intermediate #1 and #2 and 3*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>P.M.</i>			<i>P.M.</i>	
		0	<i>4-32-35</i>	<i>4-21-30</i>
		100	<i>36-10</i>	<i>17-50</i>
		200	<i>39-50</i>	<i>14-25</i>
		300	<i>44-05</i>	<i>10-45</i>
		400	<i>4-46-30</i>	<i>5-06-30</i>
		500	<i>Towed for 20 min. with 400 fath. cable at estimated depth of 300 fath. Net badly torn and frame bent. and K net #1 lost Net dragged on bottom.</i>	
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>D. Course</i>	<i>N.W. x W.</i>
		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				

11-1023

REMARKS:

No. *H 4870* Date *June 7, 1906**Lucas* Machine. Reel. *Lucas*Turns Cor.+ Depth *70 fms.*~~Shot or lead~~ *35 lb. Sig. Sq. cup*Bottom *Green sand and pebbles. (= gn. S. P.)*

Bottom temperature

No. of thermometer *None* Cor. *0*

Corrected temperature

Air *43°* Surface *42°* Drift

Trawl or dredge

SOUNDING WIRE.			TURNS.	DREDGE ROPE.	
DOWN.	<i>P. M.</i>	UP.		DOWN.	UP.
<i>6-29-20</i>	<i>6-34-00</i>		0		
			<i>70</i>		
<i>6-29-50</i>	<i>6-32-05</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		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	<i>37.3</i>
		2600	<i>Lat. 52° 24' N</i>	
		2700	<i>Long. 173° 55' E</i>	
		2800	<i>Chart C.S. 9100</i>	
		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				

11-1023

REMARKS:

No. *H. 4871* Date *9 June, 1906*

T. N. Machine. Reel.

Turns *30* Cor.+ Depth *30 fms -*

Shot or lead *T. B. Enter y. Sinker*

Bottom *bk. S.*

Bottom temperature

No. of thermometer *none* Cor.

Corrected temperature

Air *42°* Surface *41°* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10.31.15</i>	<i>10.32.10</i>	0		
<i>10.31.30</i>	<i>10.31.31</i>	30 400		
<i>(Vertical sig.)</i>		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.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>W. 1/2</i> <i>4 m</i> <i>Var. 8° E.</i>		2500	<i>P.L. = 5.0</i>	
		2600	<i>Chart : 9100 (CS)</i>	
		2700	<i>Lat: 52° 45' N</i>	
		2800	<i>Long: 173° 47' 40" E.</i>	
		2900	<i>Bearings: —</i>	
		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				

11-1023

REMARKS:

No. *H. 4872* Date *9 June*
Lucas Machine. Reel. *Lucas*
 Turns Cor.+ Depth *65 fms.*
 Shot or lead *35 lb* Sig. exp.
 Bottom *Wh. Sh. G. S.*
 Bottom temperature *-*
 No. of thermometer *none* Cor.
 Corrected temperature *-*
 Air *43°* Surface *41°* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.14.30</i>		0		
<i>11.14.50</i>		<i>65</i> 100		
		200		
<i>When lead struck</i>		300		
<i>bottom, at 65 fms.,</i>		400		
<i>brake was not applied</i>		500		
<i>and reel kept on revolving, missing the</i>		600		
<i>wire. Hove in slowly by hand and</i>		700		
<i>secured the lead. Then cut off</i>		800		
<i>and dropped overboard about</i>		900		
<i>125 fms. wire. Could not</i>		1000		
<i>be cleared and that was kinked</i>		1100		
<i>and unsafe for use.</i>		1200		
		1300		
<i>Lost up till this</i>		1400		
<i>date, on this cruise,</i>		1500		
<i>1354 fms. wire</i>		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L. = 10.0	
		2600	Chart 9100.	
		2700	Lat. 52° 47' 30" N.	
		2800	Long. 173° 41' E	
		2900	Buoys: —	
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

Ok
Lm 3

Var. 8' E

SERIAL TEMPERATURES

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

No. 44873 Date June 9 06

T. N. Machine. Reel.

Turns Cor. +

Depth 60 fms.

Shot or lead 35 lb

Bottom gy. s. bk. sh.

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 43° Surface 41° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12 250	12 930	0		
12 300	12 825	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

No. *D. 4782* Date *9 June, 06.**J. N.* Machine. Reel.Turns *57* Cor.+ Depth *57 fms.*Shot or lead *357 T. Lead*Bottom *R. G.*

Bottom temperature

No. of thermometer *none* Cor.

Corrected temperature

Air *43°* Surface *41°* DriftTrawl or dredge *Agassiz 8'*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1.00.30</i>	<i>1.02.10</i>	0	<i>1.18.02</i>	<i>1.36.00</i>
<i>1.01.00</i>	<i>1.01.01</i>	<i>57</i> 100	<i>1.21.30</i>	<i>1.31.15</i>
		200		
		300	<i>Trawled 10 min</i>	
		400		
		500	<i>Accumulator</i>	
		600	<i>jumping during</i>	
		700	<i>this haul, also</i>	
		800	<i>but less so when</i>	
		900	<i>heaving in.</i>	
		1000		
		1100	<i>big haul</i>	
		1200		
		1300	<i>Net slightly</i>	
		1400	<i>loose</i>	
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

No.

D. 4783

Date

9 June, 06.

Machine.

T. N.

Machine.

Reel.

Turns

59

Cor. +

Depth

59 fms.

Shot or lead

J. N.

Bottom

gn S. fm S. R.

Bottom temperature

No. of thermometer

none

Cor.

Corrected temperature

Air

42°

Surface

41°

Drift

Trawl or dredge

Agassiz 8'

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

1.44.05

1.45.45

0

1.54.10

2.10.00

1.44.45

1.44.46

100

1.57.50

2.05.00

125

2.07.15

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

At 2.00

accumulation

registered "3"

and kept jump-

ing. Veered

at to 125 fms.

through heavy

strain.

Towed 5 min

Lost 8' Agassiz

frame, 2 glass

floats and 1 tail-

weight. - Only a

ray of the net

came up in the

middle.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Observations	
		2600	as before —	
		2700		
		2800	Chart: C.S. 9100.	
		2900	Course: E.N.E.	
		3000	Lat. $52^{\circ}55'30''$ N.	
		3100	Long. $173^{\circ}33'$ E.	
		3200	Bearing: East Cape	
		3300	Allen Id. S. 31° W.	
		3400	true, dist. 4.5 miles.	
		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				

11-1023

REMARKS:

No.

4783 contd.

Date

9 June, 06

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

42°

Surface

41°

Drift

Trawl or dredge

Inter No. 4 K 4 V.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	2.20.50	2.44.30
		50 100	2.22.40	2.42.30
		200		
		300		
		400	Towed 26 min at est. depth of 30 fms.	
		500		
		600		
		700		
		800	Beastly weather	
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Weather and other observations</i>		2500	<i>as before.</i>	
		2600		
<i>OK J.M. 5/11</i>		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		<i>Var. 8° E</i>		
3700				
3800				
3900				
4000				

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	<i>Shore collecting at</i>			
50				
100	<i>At the Island.</i>			
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11-1023

REMARKS:

(See next page)

No. *D 4984* Date *June 11-06*
T. N. Machine. Reel.

Turns Cor.+ Depth
 Shot or lead *T.B. Tube* *Camo Lead*

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4.45.00</i>	<i>53.30</i>	0		
<i>4.45.00</i>	<i>50.15</i>	100		
<i>4.46.00</i>	<i>48.45</i>	200		
<i>4.46.30</i>	<i>47.00</i>	300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

No bottom at 2400

See next page

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>W. K. L. M. 2.</i>		2500	<i>FL</i>	<i>31.5</i>
		2600	<i>Weather</i>	
		2700	<i>Wind</i>	
		2800	<i>Sea</i>	
		2900	<i>Be</i>	
		3000	<i>No. 20</i>	
		3100	<i>II Cansel</i>	
		3200	<i>Chart</i>	
		3300	<i>Lat</i>	
		3400	<i>Long</i>	
		3500	<i>Bearings</i>	
		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				

11-1023

REMARKS:

No. *148* Date *June 11 06*

Machine. Reel.

Turns Cor.+ Depth *135*Shot or lead *35# Reg. cup.*Bottom *crs. F.*

Bottom temperature

No. of thermometer *No. 1110* Cor.

Corrected temperature

Air *47°* Surface *47°* DriftTrawl or dredge *9 ft Albatross Blake*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>29 40</i>	<i>35 10</i>	0	<i>5 41 30</i>	<i>13 00</i>
<i>31 30</i>	<i>33 40</i>	100	<i>44 45</i>	<i>1. 40</i>
<i>32 00</i>	<i>33 15</i>	<i>135</i>	<i>47 00</i>	<i>6. 45</i>
		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.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	FL	36.5
		2600	Weather	6.77
		2700	Wind	NE-1-
		2800	Sea	S
		2900	Bar	29.55
		3000	Therm	59
		3100	Course	SE by E 1/2 E
		3200	Chart	659100.
		3300	Lat	52-55-40 N.
		3400	Long	173-26° E.
		3500	Bearings: East Cape	
		3600	Atter Island, hg.	
		3700	S. 18° to. China	
		3800	Dist. 4.0.	
		3900		
		4000		

Towed 1/2 m to 125 fms wire at depth of 135

OK 4.77

Var. 57 E.

SERIAL TEMPERATURES

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

11-1023

REMARKS:

De Long
 No. *H. 4874* Date *June 11/06*
Lucas Machine. Reel. *Lucas*
 Turns — Cor. + Depth *59 fath.*
 Shot ~~or lead~~ *35# Ags cup*
 Bottom *Coarse bk. S.*
 Bottom temperature —
 No. of thermometer *None* Cor.
 Corrected temperature —
 Air *43°* Surface *42°* Drift —
 Trawl or dredge —

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>P.M.</i>				
<i>8-05-00</i>	<i>8-07-55</i>	0		
		<i>59</i>		
<i>8-05-35</i>	<i>8-07-10</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		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L.	51.5
		2600	Lat 52° 44' N.	
		2700	Long. 173° 35' E.	
		2800	Chart. 60. 4100	
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

at L. m. 2

Var. 5' E.

SERIAL TEMPERATURES

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

11-1023

REMARKS:

No. *H 4875* Date *June 11/06*
Lucas Machine. Reel. *Lucas*
 Turns Cor.+ Depth *69 fath.*
 Shot or lead *35#* Sigs. cup.
 Bottom *bk. S.*
 Bottom temperature _____
 No. of thermometer *None* Cor. _____
 Corrected temperature _____
 Air *43°* Surface *42°* Drift _____
 Trawl or dredge _____

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9-32-55</i>	<i>9-36-10</i>	0		
		<i>69</i>		
<i>9-33-40</i>	<i>9-37-10</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		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L.	61.9
		2600	Lat 52° 39' N.	
		2700	Long 173° 22' E.	
		2800	Chart 6190	
		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				

11-1023

REMARKS:

No. *H 4876* Date *June 11/06*
Lucas Machine. Reel. *Lucas*
 Turns — Cor.+ Depth *60 fath*
 Shot ~~or lead~~ *35th* *Leads cup*
 Bottom *gy. S; brk sh. Iron*
 Bottom temperature
 No. of thermometer *None* Cor.
 Corrected temperature
 Air *43°* Surface *40* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11-03-00</i>	<i>11-03-35</i>	0		
		60		
<i>11-03-35</i>	<i>11-04-00</i>	100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	<i>72.3</i>
		2600	<i>Lat. 52° 34' N.</i>	
		2700	<i>Long. 173° 08' E.</i>	
		2800	<i>Chart 6.19100.</i>	
		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				

11-1023

REMARKS:

No. *D. 4785.* Date *12 June, 06.*

Machine. Reel.

Turns Cor.+ Depth *1850* *

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *44°* Surface *42°* DriftTrawl or dredge *Interf. 2 Kfcs. # 2 + 3.*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

0

*4:02.00**4:54.10*

100

*4:09.40**50.50*

200

*12.20**47.15*

300

*15.15**43.10*

400

*4:18.15**4:38.30*

500

* Stopped rearing
out while ship naviga-
tor clear of wire,
which chafed on
ship's side.

600

Towed 20 min.

700

at an estimated

800

depth of 200 fms.

900

5400 fms. wire

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	T.L. = 93.8	
		2600	Weather	Bar. 9
		2700	Wind	WSW. 3
		2800	Sea	S.
		2900	Bar.	29.76
		3000	Ther. attch	68° 68
		3100	Chart	H.C.
		3200	Course (P.S.C.)	NE by E.
		3300	Lat.	33° 20' N.
		3400	Long.	170° 33' E.
		3500		
		3600	Est. depth = 1850 fms.	
		3700		
		3800		
		3900		
		4000		

*Ch. 5
from 2*

Var. 5° E

SERIAL TEMPERATURES.

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

11-1023

REMARKS:

No. *D. 4786*, Date *14 June '06*
T. N. Machine. Reel.

Turns Cor.+ Depth *54 fms.*

Shot or lead *T. N. Lead*

Bottom *gn. S.*

Bottom temperature

No. of thermometer *none* Cor.

Corrected temperature

Air *49°* Surface *41°* Drift

Trawl or dredge *9-ft. Albatross-Blake*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.02.50</i>	<i>9.04.10</i>	0	<i>9.07.30</i>	<i>9.33.20</i>
<i>9.03.40</i>	<i>9.03.41</i>	(54) 100	<i>9.10.00</i>	<i>9.30.10</i>
		200		
		300		
		400	<i>Trawled for 20</i>	
		500	<i>mins.</i>	
		600	<i>at estimated</i>	
		700	<i>depth of 54 fms.</i>	
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>OK.</i> <i>2 m. 2</i> <i>Vol. 10 E.</i>		2500	P.C.	54.6
		2600	Weather	bom. 7.
		2700	Wind	Variable, 0-1
		2800	Sea	S
		2900	Bar.	29.90
		3000	Ther. at	69°
		3100	Chart:	H.C. 1690
		3200	Course	SW by W.
		3300	Lat:	54° 51' 30" N.
		3400	Long.	167° 14' E.
		3500	Bearings:	71. Pt.
		3600	Casper Id.,	71.
		3700	84° E.	(true)
		3800	(dist.,	1.2 mi.)
		3900		
		4000		

SERIAL TEMPERATURES.

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

11-1023

REMARKS:

No. *T 47 87* Date *June 14 06*Machine. *T N* Reel.Turns — Cor. + — Depth *54*Shot or lead *T N Lead*Bottom *gn. S.*

Bottom temperature —

No. of thermometer *None* Cor. —

Corrected temperature —

Air *46°* Surface *41°* DriftTrawl or dredge *10 ft Tanner*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>9-37 20</i>	<i>9-39 35</i>	0	<i>9 41 35</i>	<i>7 30</i>
<i>9-38 10</i>	<i>9-38 20</i>	<i>54 100</i>	<i>9 44 15</i>	<i>10-4-15</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Lowered for 70 m
to 75 fm wire
at an estimated
depth of 54 fm*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	FL	—
		2600	Weather	b.e.
		2700	Wind	Variable 0-1
		2800	Sea	S
		2900	Bps	27.90
		3000	Thermt	69°
		3100	Chart	11-6. 1690
		3200	Comms	SW by W
		3300	Lat	54° 50' 50" N.
		3400	Long	167° 15' 30" E
		3500	Bearings	71 PA.
		3600	Compass	2d. 72.
		3700		79° E. (true).
		3800		dist. 8.5 mi
		3900		
		4000		

Ch. 5.
f.m.

Var. 10° E.

SERIAL TEMPERATURES.

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

11-1023

REMARKS:

No. *D 1411*Date *June 1st 16*Machine *T.N.* Reel.

Turns — Cor. + —

Depth *57*Shot or lead *T.N. Lead*Bottom *gn. S.*

Bottom temperature —

No. of thermometer —

Cor. —

Corrected temperature —

Air *46°* Surface *41°* DriftTrawl or dredge *12 ft Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. <i>Am.</i>	UP.		DOWN. <i>Am.</i>	UP.
<i>10 40 30</i>	<i>22 35</i>	0	<i>10 20 40</i>	<i>51 50</i>
<i>10 41 00</i>	<i>10 21 15</i>	57	<i>28 05 10</i>	<i>48 15</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Lowered for 20 m
to 100 fms wire
at an estimated
depth of 27 fms*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	—
		2600	<i>Washer</i>	<i>P.C.</i>
		2700	<i>Wind</i>	<i>Twine 0-1</i>
		2800	<i>Sea</i>	<i>S</i>
		2900	<i>Bar</i>	<i>29.9</i>
		3000	<i>Ther. at</i>	<i>69°</i>
		3100	<i>Chart</i>	<i>N.O. 1690</i>
		3200	<i>Lat 24° 50' 24" N.</i>	
		3300	<i>Long 167° 15' E.</i>	
		3400	<i>Crest</i>	<i>S W by W</i>
		3500	<i>Bearings</i>	<i>N. Pt.</i>
		3600	<i>Copper Id.</i>	<i>N. 76°</i>
		3700	<i>E (true), dist.</i>	
		3800	<i>8.8 mi.</i>	
		3900		
		4000		

SERIAL TEMPERATURES

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

11-1023

REMARKS:

No. *D 47 19* Date *June 14 06*
TN Machine. Reel.
 Turns Cor.+ Depth *56*

Shot or lead *TN Lead*

Bottom *gn S*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *43°* Surface *41°* Drift

Trawl or dredge *12 ft Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11-1-14</i>	<i>3 40</i>	0	<i>11-1-10</i>	<i>35 10</i>
<i>1 55</i>	<i>11-2-05</i>	<i>56</i>	<i>11 50</i>	<i>11. 31.55</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Towed 20 m to
 100 fm. before at
 an estimated
 depth of 56 fm*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	PL	—
		2600	Wrecks	bc 7
		2700	Wind	NE. 1.
		2800	Sea	S
		2900	Bar	29.90
		3000	Ther att	66.0
		3100	Course	SW by W
		3200	Lat	54° 49' 45" N.
		3300	Long	167° 12' 30" E
		3400	Bearings	N. Pt. Cooper
		3500	Id.	N. 73° E. (true)
		3600	dist.	9.1 mi.
		3700		
		3800	Chart used.	H.C. 1690
		3900		
		4000		

SERIAL TEMPERATURES

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

11-1023

REMARKS:

No. *D 4790*

Date

June 14-1906

T.N.

Machine.

Reel. *T.N.*Turns *60* Cor.+Depth *64 fath*~~Shot or lead~~ *T.N.*Bottom *P.*

Bottom temperature

No. of thermometer *None*

Cor.

Corrected temperature

Air *50°*Surface *41°*

Drift

Trawl or dredge *9' Albatross Blake*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>PM</i>			<i>PM</i>	
<i>1- 02- 03</i>	<i>1- 04- 30</i>	0	<i>1- 12- 00</i>	<i>1- 31- 30</i>
<i>1- 02- 45</i>	<i>1- 02- 55</i>	<i>64</i>		
		100	<i>13- 00</i>	<i>27- 50</i>
		<i>125</i>		
		200	<i>1- 15- 45</i>	<i>1- 26- 25</i>
		300		
		400		
		500	<i>Very rough bottom. Towed for 10 1/2 min with 125 fath. wire Net torn and one side detached from frame.</i>	
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>PL.</i>	<i>664</i>
		2600	<i>Weather</i>	<i>Mostly overcast</i>
		2700	<i>Wind</i>	<i>Variable</i>
		2800	<i>Sea</i>	<i>Smooth</i>
		2900	<i>Bar</i>	<i>29.92</i>
		3000	<i>Ther. Att.</i>	<i>65°</i>
		3100	<i>Dr. Course</i>	<i>W.S.W.</i>
		3200	<i>Lat. 54° 38' 45" N.</i>	
		3300	<i>Long. 167° 11' 45" E.</i>	
		3400	<i>Bearings</i>	<i>to Monade.</i>
		3500	<i>Bering Id., S. 84° E.</i>	
		3600	<i>(true) dist. 15 mi.</i>	
		3700		
		3800	<i>Chart used, H. O. 1690</i>	
		3900		
		4000		

SERIAL TEMPERATURES

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

11-1023

REMARKS:

No. *Dr 4791* Date *June 14, 1906*
T.N. Machine. Reel. *T.N.*
 Turns *76* Cor. + *0* Depth *76 fath.*
 Shot or lead *T.N.*

Bottom *shy, lead dented.*

Bottom temperature *—*

No. of thermometer *None* Cor. *—*

Corrected temperature *—*

Air *44°* Surface *43°* Drift

Trawl or dredge *9' Albatross-Blake, with
new net haul on.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-41-30</i>	<i>2-44-00</i>	0	<i>2-47-00</i>	<i>3-16-45</i>
<i>2-42-10</i>	<i>2-42-20</i>	76	<i>47-55</i>	<i>18-25</i>
		100	<i>2-51-30</i>	<i>3-11-30</i>
		150		
		200		
		300		
		400		
		500	<i>Towed for 20 min. with 150 fath. wire</i>	
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	<i>72.7</i>
		2600	<i>Weather</i>	<i>Cloudy.</i>
		2700	<i>Wind</i>	<i>Variable</i>
		2800	<i>Sea</i>	<i>Smooth</i>
		2900	<i>Bar.</i>	<i>29.92</i>
		3000	<i>Ther At</i>	<i>65°</i>
		3100	<i>Dr. Course</i>	<i>West.</i>
		3200	<i>Lat. 54° 36' 15" N.</i>	
		3300	<i>Long. 166° 58' 15" E.</i>	
		3400	<i>Bearings, 6. Monati,</i>	
		3500	<i>Bernig Id. N. 52° W.</i>	
		3600	<i>(True). dist. 8.75 mi.</i>	
		3700		
		3800	<i>Chart used, A.C. 1690</i>	
		3900		
		4000		

SERIAL TEMPERATURES

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

REMARKS:

No. *D 4792*Date *June 14, 1906*

T.N.

Machine.

Reel. *T.N.*Turns *72* Cor.+ *0*Depth *72 fath.*Shot or lead *T.N.*Bottom *P*

Bottom temperature

No. of thermometer *None*Cor. *—*

Corrected temperature

Air *44°*Surface *42°*Drift *—*Trawl or dredge *12' Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-22-55</i>	<i>25-45</i>	0	<i>3-26-00</i>	<i>3-54-50</i>
<i>3-23-40</i>	<i>3-24-00</i>	<i>72</i> 100	<i>29-00</i>	<i>51-15</i>
		<i>130</i> 200	<i>3-30-00</i>	<i>3-50-05</i>
		300		
		400	<i>Towed for 20 min. with 130 fath. wire.</i>	
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Weather	Nearly overcast
		2600	Wind	N.
		2700	Sea	Smooth
		2800	Bar.	29.92
		2900	Ther. Att.	65°
		3000	D. Course	W.
		3100	Lat. 54°	36' 15" N.
		3200	Long.	166° 57' 15" E.
		3300	Bearings:	L. Monah.
		3400	Bearing Id.	N. 50° W.
		3500	(true), dist.	8.7 mi.
		3600		
		3700		
		3800	Charlused	No. 1690
		3900		
		4000		

OK.
P.M. 5

Var 10° E.

SERIAL TEMPERATURES.

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

11-1023

REMARKS:

No. *D. 4793* Date *16 June, 06.*
 Machine. Reel. *4*
 Turns Cor.+ Depth *2700 fms.*
 Shot or lead
 Bottom *No. Sdg*
 Bottom temperature
 No. of thermometer Cor.
 Corrected temperature
 Air *45°* Surface *41°* Drift
 Trawl or dredge *Inter. #1. 2 Kfts. #2 & 3.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>10.02.10</i>	<i>10.47.50</i>
		100	<i>05.10</i>	<i>44.40</i>
		200	<i>08.00</i>	<i>41.20</i>
		300	<i>10.40</i>	<i>37.00</i>
		400	<i>10.13.30</i>	<i>10.33.30</i>
		500		
		600	<i>Towed 20 min. at estimated depth of 300 fms.</i>	
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Chart used, H. O. 68.</i> <i>Test depth, 2700 fms.</i> <i>at 9 AM.</i> <i>Var 1° to</i>		2500	P.L. =	95.3
		2600	Weather	om. 10
		2700	Wind	TRSH. 2
		2800	Sea.	S.
		2900	Bar.	30.11
		3000	Ther. at S.	68°
		3100	Course (ASC)	SW by W
		3200	to West (slight)	
		3300	current to NW. and	
		3400	ed helm to keep	
		3500	wire clear of ship's	
		3600	side).	
		3700	Lat. 54° 48' N.	
		3800	Long. 164° 54' E.	
		3900	Bearings: Cape Horn Id.	
		4000	Harbor of Melville.	

SERIAL TEMPERATURES.

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

11-1023

REMARKS:

No. 4794

Date

June 20, 06

Machine.

Reel.

Turns

Cor. +

Depth

59

Shot or lead

T. N. Lead

Bottom

S. P.

Bottom temperature

None used.

No. of thermometer

Cor.

Corrected temperature

Air

44.0

Surface

44.0

Drift

Trawl or dredge

1/2 ft Tanner

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

9 54 50	56 25	0	10 12 40	39 10
55 25	9 55 35	58 10	15 30	10 35 20
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Dredge for 20 m
 to go for wire
 at depth of 59 fms

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	PL	11.6
		2600	Weather	AS x N
		2700	Wind	SE ~
		2800	Sea	5
		2900	Bar	30.24
		3000	Thermer	60
		3100	Lat 52° 44' 20" N	
		3200	Long 158° 44' 30" E.	
		3300	Course	SE (poc)
		3400	Bearings, Staritechop	
		3500	Starite bearing 170°	
		3600	to (true), dist. 5 mi.	
		3700		
		3800	Chart.	H.C. 54.
		3900		
		4000		

SERIAL TEMPERATURES.

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

REMARKS:

No. *4795*Date *June 20 16*

Machine

Reel.

Turns

Cor. +

Depth *69*Shot or lead *T.N.*Bottom *gn S m F*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *46°*Surface *46°*

Drift

Trawl or dredge *12 ft Tanner*

SOUNDING WIRE.

DOWN. *dm*

UP.

TURNS.

DREDGE ROPE.

DOWN. *dm*

UP.

*10.45.20**47 30*

0

*46.00**10.46.10**69 100*

200

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*10.48.00**15.30**51.05**11-11-10*

*Joined for 70m
to 100 for wire
at an estimated
depth of 69*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>at 2 m 2</i>		2500	FL	—
		2600	Weather	N 2 A 5
		2700	Wind	SE. 2.
		2800	Sea	S
		2900	Bar	30 in
		3000	Ther at	60
		3100	Lat	57° 46' 50" N.
		3200	Long	158° 44' 30" E.
		3300	Course	N W (FSC)
		3400	Bearings	Staritschkoj
		3500	Island, S. 76° 0' (true)	
		3600	dist. 4.8 miles	
		3700		
		3800		
		3900	Chart	H. 6. 51
		4000		

SERIAL TEMPERATURES.

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

REMARKS:

No. *D 4796* Date *June 20 06*

Machine. Reel.

Turns Cor.+ ——— Depth *48*Shot or lead *T.N.*Bottom *S.F. Sh*

Bottom temperature ———

No. of thermometer ———

Cor. ———

Corrected temperature ———

Air *46°* Surface *46°* DriftTrawl or dredge *1 rft Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.17.10</i>	<i>19.10</i>	0	<i>11.22.00</i>	<i>47.25</i>
<i>17.50</i>	<i>11.18.10</i>	<i>47.10</i>	<i>24.30</i>	<i>47.10</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Towed for 20 m
to 75 for wire
at depth of
48 fms*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	FL	-
		2600	Wreck	N. A. S.
		2700	Wreck	SE 7
		2800	Sea	S
		2900	Base	30 20
		3000	Shoal	60
		3100	Lat 52° 47' N	
		3200	Long 158° 43' E.	
		3300	Course N	
		3400	Bearings: Staritschkoj	
		3500	D. d. D. 71° 40' (true).	
		3600	distant L. micar	
		3700		
		3800		
		3900	Chart: N. O. 54	
		4000		

SERIAL TEMPERATURES.

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

11-1023

REMARKS:

See next page.

No. *7* Date *June 20, 1906*
 T.N. Machine. Reel. T.N.
 Turns Cor.+ Depth *No bottom*
 Shot or lead *at 204 fath*
 Bottom
 Bottom temperature
 No. of thermometer Cor.
 Corrected temperature
 Air Surface Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1 - 03-05</i>	<i>1 - 10-20</i>	0		
<i>4-00</i>		100		
<i>4-50</i>		200		
<i>1 - 4-55</i>	<i>1 - 05-00</i>	<i>204</i> 300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	<i>21.6</i>
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
<i>Var. 2.40.</i>		4000		

SERIAL TEMPERATURES.

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

11-1023

REMARKS:

No. *H. 4877*Date *June 20/06*

Machine.

Reel.

Depth *804 fath.*

Turns

Cor. +

Shot or lead

35# and Sigbee sounding cup.

Bottom

gn M. - cr. bk. S. - bk. sh.

Bottom temperature

36.1°

No. of thermometer

*108019*Cor. *-.01°*

Corrected temperature

36°

Air

47°

Surface

45°

Drift

Trawl or dredge

SOUNDING WIRE.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.

UP.

1-12-25 1-31-20

0

14-20 30-15

100

15-30 29-25

200

16-40 28-30

300

17-50 27-40

400

19-00 26-45

500

20-10 25-50

600

21-25 25-00

700

22-45 23-55

800

1-22-30 1-23-50~~900~~

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	<i>21.6</i>
		2600	<i>Lat. 52° 41' N.</i>	
		2700	<i>Long. 158° 54' 30" E.</i>	
		2800	<i>Bearings, Kailua Pt.</i>	
		2900	<i>N. 32° 10' (true).</i>	
		3000	<i>distance 13.5 mi.</i>	
		3100		
		3200		
		3300		
		3400	<i>Chart. 4-6 54.</i>	
		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				

11-1023

REMARKS:

No. *D. 4797*Date *June 20, 1906*Machine. *Lucas*Reel. *Lucas*

Turns

Cor. +

Depth *682 fath.*Shot or lead *35^{lb} and ligket sounding angle*Bottom *gn. M., crs. bk. S and Lk. Sh.*Bottom temperature *36.7°*No. of thermometer *108019*Cor. *-0.1*Corrected temperature *36.6°*Air *47°* Surface *46°* DriftTrawl or dredge *Alt. Bk. 7'*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2-11-00</i>	<i>2-27-00</i>	0	<i>2-32-00</i>	<i>3-43-30</i>
<i>12-05</i>	<i>25-55</i>	100	<i>35-20</i>	<i>44-30</i>
<i>13-15</i>	<i>25-00</i>	200	<i>38-10</i>	<i>40-30</i>
<i>14-20</i>	<i>24-03</i>	300	<i>40-55</i>	<i>37-45</i>
<i>15-40</i>	<i>23-10</i>	400	<i>43-20</i>	<i>34-10</i>
<i>16-50</i>	<i>22-15</i>	500	<i>46-40</i>	<i>27-20</i>
<i>18-05</i>	<i>21-15</i>	600	<i>51-15</i>	<i>25-40</i>
<i>2-19-00</i>	<i>2-20-10</i>	700	<i>54-20</i>	<i>22-00</i>
		800	<i>2-56-30</i>	<i>3-17-00</i>
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	<i>26.6-</i>
		2600	<i>Wind</i>	<i>S.E.</i>
		2700	<i>Sea</i>	<i>Smooth</i>
		2800	<i>Bar.</i>	<i>30.18</i>
		2900	<i>Ther. att</i>	<i>70°</i>
		3000	<i>Lat. 52° 37' 30" N.</i>	
		3100	<i>Long. 158° 50' E.</i>	
		3200	<i>Weather</i>	<i>Overcast</i>
		3300	<i>D. Course</i>	<i>W.N.W.</i>
		3400	<i>Bearings</i>	<i>Staritskoy</i>
		3500	<i>2d, N. 43° W (true)</i>	
		3600	<i>dist. 11.5 mi</i>	
		3700		
		3800	<i>Chart N.C. 54.</i>	
		3900		
		4000		

Act. L.M. 2.

Var. 30 W.

SERIAL TEMPERATURES

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

11-1023

REMARKS:

No. *D. 4797 cont.* Date *20 June, 06.*

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *47°* Surface *46°* DriftTrawl or dredge *Interfl., 2 Kfds. p 2 + 3.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	3.53.30	4.38.50
		100	56.45	35.40
		200	59.45	32.20
		300	4.02.45	28.50
		400	4.05.30	4.25.30
		500		
		600	<i>Tried net 20 min. at an estimated depth of 300 fms.</i>	
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600	Weather	om.
		2700	Wind	SE. 0-1.
		2800	Sea.	S.
		2900	Bar.	30.17
		3000	Therm. at 3000.	72°
		3100	Course:	E.S.E.
		3200		
		3300	other data as at beginning of station.	
		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				

11-1023

REMARKS:

No. *D 4798* Date *June 21. 06*
 T. N. Machine. Reel.
 Turns Cor.+ Depth *75*
 Shot or lead *T H 2 1/2*
 Bottom *gn S*
 Bottom temperature *37*
 No. of thermometer *108019* Cor. *-0.1°*
 Corrected temperature *36.9°*
 Air *46°* Surface *42°* Drift
 Trawl or dredge *12 ft Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3.31.30</i>	<i>3.42.00</i>	0	<i>3.42.15</i>	<i>05.40</i>
<i>3.32.00</i>	<i>3.42.30</i>	100	<i>43.55</i>	<i>4.03.55</i>
		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.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	PL	38. ✓
		2600	Weather	ten
		2700	Wind	N x E 7
		2800	Sea	S
		2900	Bar	30.01
		3000	Throat	5 1/2
		3100	Course	E. N. E.
		3200	Lat	51° 37' N.
		3300	Long.	156° 21' E
		3400	Bearings	Mancha
		3500	Hansen River	7.71° E
		3600	(true) dist.	8.5 mi.
		3700		
		3800	Chart	B. A. 3405
		3900		
		4000		

SERIAL TEMPERATURES

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

11-1023

REMARKS:

No. *Dr 4799* Date *June 21/06*

Machine. Reel.

Turns Cor.+ Depth *25**

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *47-45* Surface *42-40* DriftTrawl or dredge *17 ft. Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
	<i>B.W.</i>	0	<i>4-14-00</i>	<i>4-59-20</i>
		100	<i>4-16-20</i>	<i>4-57-50</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

*Towed 41 wire
with 50 fath
wire.*

*Handline
over side for
about 10 min
about 5:00
o'clock p.m.*

*Catch - 8 cod fish
weighing 20, 18,
16 (2), and 10.*

Lengths - 2 to 3 ft.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Weather	Clear
		2600	Wind	S.
		2700	Sea	Smooth
		2800	Bar.	29.96
		2900	Ther. Air	66
		3000	Course	E. N. E.
		3100	Lat	51° 38' 22."
		3200	Long	156° 21' E.
		3300	Bearing	Mouth of
		3400	Amazon River,	
		3500	N. 75° E. (true)	8 mi
		3600		
		3700	Chart	B.A. 2405
		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				

11-1023

REMARKS:

No. *D. 4800.* Date *22 June, 1906.*

Machine. Reel.

Turns Cor.+ Depth *1000 fms.*
(from chart)

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air *39°* Surface *37°* Drift

Trawl or dredge *Inter #1. 2 Kfds # 2 & 3.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>4:00.40</i>	<i>4:59.00</i>
		100	<i>03.50</i>	<i>* 42.00</i>
		200	<i>06.50</i>	<i>39.00</i>
		300	<i>09.40</i>	<i>35.55</i>
		400	<i>4.12.30</i>	<i>4.32.30</i>
		500		
		600	<i>Towed net 20 min. at depth estimated to 300 fms.</i>	
		700		
		800		
		900		
<i>* Stopped hauling in to navigate ship dredge rope.</i>		<i>1000</i>	<i>about 14 min. of the</i>	
		<i>1100</i>		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L. =	44.0
		2600	Weather	omd.
		2700	Wind	NE. 3.
		2800	Sea.	MT.
		2900	Bar.	29.94
		3000	Therm. at	67°
		3100	Chart used	B.A. 2405.
		3200	Course (P.C.)	NE.
		3300	Lat. 49° 06' N.	
		3400	Long. 153° 06' E.	
		3500	Bearings: Chirintotan	
		3600	Id. S. 77° E., true,	
		3700	Dist. 13 miles.	
		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				

11-1023

REMARKS:

No. *D 4801* Date *June 24 06*
Lucas Machine. Reel.

Turns Cor.+ Depth *107*

~~Shot or~~ lead *35# No. 2 lead*

Bottom *crs bk S F*

Bottom temperature *35.5*

No. of thermometer *10 1019* Cor. *-0.1*

Corrected temperature *35.4*

Air *43°* Surface *87°* Drift

Trawl or dredge *12 ft Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10 40 05</i>	<i>10 40 00</i>	0	<i>10.37.10</i>	<i>56 00</i>
<i>21.30</i>	<i>10 40 55</i>	100	<i>35.15</i>	<i>52.35</i>
<i>21.45</i>	<i>10 40 50</i>	<i>107</i>	<i>37 25</i>	<i>10 40 30</i>
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Towed for m to 175 fms at an estimated depth of 107

Heaved in at 10 40 30 to 126 fms towed until 51.15

*lost frame
 net and three
 weights only
 buoys come up*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>Obs. 5</i> <i>L.M.</i>		2500	<i>FL</i>	<i>6</i>
		2600	<i>Wacha</i>	<i>bern</i>
		2700	<i>Wind</i>	<i>Kanaka 1</i>
		2800	<i>Sea</i>	<i>M</i>
		2900	<i>Bar</i>	<i>30.06</i>
		3000	<i>Therom</i>	<i>69</i>
		3100	<i>Course</i>	<i>S 65 SW</i>
		3200	<i>Chart</i>	<i>S.A. 7405 and</i>
		3300	<i>Lat</i>	<i>N. 6. 2184</i>
		3400	<i>Long</i>	<i>46° 46' 40" W.</i>
		3500	<i>Bearings</i>	<i>151° 41' E.</i>
		3600	<i>Simushu Island</i>	
		3700	<i>do x 11 (true) dist. 5 mi.</i>	
		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				

11-1023

REMARKS:

No. *11412* Date *June 26*
Lucas Machine. Reel.

Turns Cor. + Depth *228 1/2*

Shot or lead *35 lb No. 20 ind*

Bottom *gy s. cs. G*

Bottom temperature *36.2*

No. of thermometer *108019* Cor. - *41*

Corrected temperature *36.1°*

Air *42°* Surface *37°* Drift

Trawl or dredge *9 ft Albion Block*

SOUNDING WIRE.

DOWN. *Am* UP.

TURNS.

DREDGE ROPE.

DOWN. *Am* UP.

<i>11.21.00</i>	<i>26.30</i>	0	<i>11.30.40</i>	<i>1-01-40</i>
<i>22.00</i>	<i>25.30</i>	100	<i>33.35</i>	<i>54-00</i>
<i>23.00</i>	<i>24.30</i>	200	<i>36.35</i>	<i>55-15</i>
<i>23.15</i>	<i>24.05</i>	<i>228 1/2</i>	<i>11-31.00</i>	<i>11-51-10</i>
		300	<i>Towed for 20 mins with 2 1/2 fath wire</i>	
		400		
		500		
		600		
<i>Let clock back 8 m</i>		700		
		800		
		900		
<i>Paused 20 m to</i>		1000		
<i>295 fms wire at</i>		1100		
<i>an indicated depth</i>		1200		
<i>of 228 1/2 fms</i>		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	HL	9
		2600	Weather	fair
		2700	Wind	Variable
		2800	Sea	M
		2900	Bar	30.05
		3000	Tho alt	68
		3100	Course	S S W
		3200	Lat	46° 44' 21
		3300	Long	151° 44' 5
		3400	Readings	Large Ballin.
		3500	Simulair Id.	71.66' 50
		3600	(true), dist.	8.0 mi.
		3700		
		3800	Chart	B.A. 3405
		3900		and H.C. 2184
		4000		

SERIAL TEMPERATURES.

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

11-1023

REMARKS:

No. *D. 4803*

Date

June 24/96

Machine.

Lucas

Reel.

Lucas

Turns

Cor. +

Depth *229 fath.*~~Shot~~ or lead *35th. No red.*Bottom *crs. P and bk. S.*Bottom temperature *36°*No. of thermometer *108049*Cor. *-1*Corrected temperature *35.9*Air *43°*

Surface

37°

Drift

Trawl or dredge *9' Alb-Blk.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12-45-30</i>	<i>12-51-40</i>	0	<i>12-55-25</i>	<i>1-37-30</i>
<i>46-40</i>	<i>50-30</i>	100	<i>58-00</i>	<i>35-40</i>
<i>47-30</i>	<i>49-20</i>	200	<i>1-00-35</i>	<i>28-05</i>
<i>12-47-45</i>	<i>12-49-00</i>	<i>229</i>	<i>3-00</i>	<i>24-00</i>
		300	<i>1-6-35</i>	<i>1-22-00</i>
		350		
		400		
		500		
		600	<i>Stopped at 1-30-15</i>	
		700		
		800	<i>Began heaving in</i>	
		900		
		1000	<i>at 1-34-25</i>	
		1100		
		1200	<i>Towed for 20 min</i>	
		1300		
		1400	<i>with 350 fath. wire</i>	
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L.	11.0
		2600	Weather	Cloudy.
		2700	Wind	Variable
		2800	Sea	Smooth
		2900	Bar.	30.86
		3000	Ther. Air.	68°
		3100	Up. Current	S. W.
		3200	Lat.	46° 45' N.
		3300	Long.	151° 45' E.
		3400	Bearings: Cape Rollin.	
		3500	Simushir Id. 7159° W.	
		3600	(True), dist. 9 mi.	
		3700		
		3800	Chart: B.A. 2405	
		3900	H.O. 2184	
		4000		

O.K.
L.M. 2

SERIAL TEMPERATURES.

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

11-1023

REMARKS:

No. *D. 4804* Date *June 24/06*
Lucas Machine. Reel. *Lucas*
 Turns Cor.+ Depth *229 fath*
 Shot or lead *35# No cup*
 Bottom *cr. P. and bk. S.*
 Bottom temperature —
 No. of thermometer *None* Cor. —
 Corrected temperature —
 Air *45°* Surface *38°* Drift —
 Trawl or dredge *9' Alb.-Blk.*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.	DOWN.	UP.
<i>1-51-50</i>	<i>1-56-53</i>	0	<i>2-00-20</i>	<i>2-40-20</i>
<i>53-45</i>	<i>55-55</i>	100	<i>3-20</i>	<i>3-36-30</i>
<i>53-45</i>	<i>54-55</i>	200	<i>6-15</i>	<i>33-15</i>
<i>1-54-00</i>	<i>54-45</i>	300	<i>2-7-20</i>	<i>2-29-20</i>
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Obaether	beam.
		2600	Wind	Variable 2
		2700	Sea	S. smooth
		2800	Bar.	30.06
		2900	Ther. alt.	68°
		3000	Course	S. D.
		3100	Lat.	46° 47' N.
		3200	Long.	151° 44' E.
		3300	Bearings	Cape Pallin.
		3400	Simushir Id.	71.58° W.
		3500	(true). dist.	9.7 mi.
		3600		
		3700	Chart	R. A. 7405 and
		3800		S. O. 7184
		3900		
		4000		

SERIAL TEMPERATURES.

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

11-1023

REMARKS:

No. *D. 4805.* Date *25 June, 1906.*

Machine. Reel. *about*

Turns Cor.+ Depth *1000 fms.*
(from chart.)

Bottom *No*

Bottom temperature

No. of thermometer

Corrected temperature

Air *45°* Surface *40°* Drift

Trawl or dredge *Inter. No 1. 2 Kfs No 2 & 3.*

Sounding taken.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	10.03.20	10.40.35
		100	06.20	37.35
		200	09.20	34.15
		275 200	10.11.45	10.31.45
		400		
		500	<i>Towed net, at an estimated depth of 200 fms. for 20 min. (275 fms. wire)</i>	
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L. :	87.6
		2600	Weather	om.
		2700	Wind	South 3.
		2800	Sea	S.
		2900	Bar.	30.06
		3000	Therm. M.	63°
		3100	Course	S.E. (R.S.C.)
		3200	Chart	B.A. 2405.
		3300	Lat. 44°	33' N.
		3400	Long. 149°	04 E.
		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				

11-1023

REMARKS:

No. *2. 4806.* Date *26 June, 1906.*

Machine. Reel.

Turns Cor.+ Depth *Depth not*
Shot or lead *charted.*

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air *56°* Surface *53°* Drift

Trawl or dredge *Inter. N^o 1, 2 Kfcs. N^o 2 & 3.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>4.26.45</i>	<i>5.03.45</i>
		100	<i>29.35</i>	<i>5.00.30</i>
		200	<i>32.20</i>	<i>57.30</i>
		<i>225</i> 300	<i>4.34.30</i>	<i>4.54.30</i>
		400		
		500	<i>Towed net 20 min. at an approximate depth of 200 fms., rearing to 275 fms. dredge rope.</i>	
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L. =	51.4
		2600	Weather	om
		2700	Wind	W by S. 1.
		2800	Sea	Smooth.
		2900	Bar.	29.77
		3000	Therm. Wtd.	64°
		3100	Course	West (P.S.C.)
		3200	Chart	H.O. 2124.
		3300	Lat. 42° 13' N	
		3400	Long. 144° 21' E.	
		3500	Position: From Saki	
		3600	S. 71° W., true, dist.	
		3700	51.3 miles.	
		3800		
		3900		
		4000		

*Ok. S.
L.M. 5.*

SERIAL TEMPERATURES

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

*Shore collections
made at Yokohama Japan
between June 27 and July 1
16. 1906*

REMARKS:

No. *D4807* Date *July 16, 1906*Machine. Reel. *TN*Turns Cor.+ Depth *44*Shot or lead *Shank Lead*Bottom *Sh. crs G.*

Bottom temperature

No. of thermometer *70* Cor. —

Corrected temperature

Air *77* Surface *67* DriftTrawl or dredge *12 ft Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8.59.00</i>	<i>8.59.40</i>	0	<i>9-6.05</i>	<i>33.05</i>
<i>8.59.30</i>	<i>9.00.35</i>	<i>4/89</i>	<i>9.05.29.30</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		

*Traced for 20 m
to 87 fms wire
at an estimated
depth of 44 fms*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	FL	10.4
		2600	Wabber	from
		2700	Wind variable.	1
		2800	Sea	2
		2900	Bar	29.93
		3000	Ther Att	7.0
		3100	Chart	4.0 53
		3200	Cause	S (poc)
		3300	Lat	41° 36' 15" N
		3400	Long	140° 36' E.
		3500	Bearings	Cape
		3600	Sanka,	155' 4 (trans)
		3700		dist. 10.3
		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				

11-1023

REMARKS:

No. 4808 Date July 16 06

T N Machine. Reel. T N

Turns — Cor. + — Depth 47

Shot or lead Shank Lead

Bottom S. Sh co g.

Bottom temperature —

No. of thermometer — Cor. —

Corrected temperature —

Air 78 Surface 67 Drift

Trawl or dredge 12 ft Tanner

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

9.41.25	9 43 05	0	9.51.50	10 18 30
9.42	9 42 10 47	100	55.00	10.15.10
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Added for 20 m
to 75 fms wire
at an estimated
depth of 47 fms

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P.L.</i>	<i>-</i>
		2600	<i>Weather</i>	<i>Clear</i>
		2700	<i>Wind</i>	<i>Variable</i>
		2800	<i>Sea</i>	<i>S</i>
		2900	<i>Bar</i>	<i>29.93</i>
		3000	<i>Therm</i>	<i>70</i>
		3100	<i>Chart</i>	<i>N. 53.</i>
		3200	<i>Course</i>	<i>S.S.W.</i>
		3300	<i>Lat</i>	<i>41° 55' 50" N</i>
		3400	<i>Long</i>	<i>140° 36' 45" E.</i>
		3500	<i>Bearings</i>	<i>16 S. 10.6 mi.</i>
		3600	<i>S. 61.4 (true).</i>	
		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				

11-1023

REMARKS:

No. *D 4809*

Date

*June 16, 1906**Lucas*

Machine.

Reel.

Lucas

Turns

Cor. +

Depth *207 fath.*~~Shot~~ or lead *35# lead.*Bottom *gy S., P and brk. Shi.*Bottom temperature *Not used*

No. of thermometer

Cor.

Corrected temperature

Air *75°* Surface *70°* DriftTrawl or dredge *12' Tanner*

SOUNDING WIRE.

DOWN.

P.M.

UP.

TURNS.

DREDGE ROPE.

DOWN.

P.M.

UP.

2-21-00 2-27-50

0

*2-34-25 2-17-35**22-10 26-40*

100

*37-40 12-40**23-13 25-10*

200

*40-35 8-15**2-23-25 2-25-05*

300

*2-44-05 3-04-10**Depth 207 fath.*

400

Stopped at 100 fath

500

to take turn of wire

600

off overide 1 1/2 min.

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>W. L.</i>	<i>45.1</i>
		2600	<i>Weather</i>	<i>bcz.</i>
		2700	<i>Wind</i>	<i>West - 1</i>
		2800	<i>Sea</i>	<i>Smooth</i>
		2900	<i>Bar.</i>	<i>29.90</i>
		3000	<i>Ther. att.</i>	<i>74.53.</i>
		3100	<i>Chart</i>	
		3200	<i>Course</i>	<i>L. W.</i>
		3300	<i>Lat.</i>	<i>41° 18' N.</i>
		3400	<i>Long.</i>	<i>140° 08' 40" E.</i>
		3500	<i>Bearings:</i>	<i>Cape</i>
		3600	<i>Siraham Lt.,</i>	
		3700	<i>N. 72° E. (true)</i>	<i>6.8 mi.</i>
		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				

11-1023

REMARKS:

No. *D 4809* Date *July 16, 1906*
Lucas Machine. Reel. *Lucas*
 Turns Cor.+ Depth *90 fath.*
 Shot or lead *35# lead*
 Bottom *shy.*
 Bottom temperature *49°*
 No. of thermometer *105019* Cor. *0.4°*
 Corrected temperature *48.8°*
 Air *76°* Surface *70°* Drift
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3-26-35</i>	<i>2-32-10</i>	0		
<i>3-27-30</i>	<i>2-30-20</i>	100		
<i>Depth 90 fath</i>		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.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		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				

11-1023

REMARKS:

No. *D. 4810* Date *16 Jul. 06*
Lucas Machine. Reel. *Lucas*
 Turns Cor.+ Depth *195 fms.*
 Shot or lead *35-lb lead*
 Bottom *fine gy. S.*
 Bottom temperature *44.8°*
 No. of thermometer *108019* Cor. *-0.1*
 Corrected temperature *44.7°*
 Air *76* Surface *70* Drift
 Trawl or dredge *12 ft. Tanner*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>4.04.05</i>	<i>4.10.20</i>	0	<i>4.14.45</i>	<i>4.52.40</i>
<i>05.15</i>	<i>09.00</i>	100	<i>17.00</i>	<i>49.05</i>
<i>4.06.30</i>	<i>4.07.35</i>	<i>195. 200</i>	<i>20.00</i>	<i>45.35</i>
		225	<i>4.22.30</i>	<i>4.42.30</i>
		300	<i>Trawled 20 min</i>	
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L. =	48.1
		2600	Weather	623.9.
		2700	Wind	NNW 2
		2800	Sea	S.
		2900	Baromet	29.82
		3000	Therm. at	76°
		3100	Chart	No. 53
		3200	Course	SW
		3300	Lat. 41° 17' 30" N	
		3400	Long. 140° 07' 00" E	
		3500	Bearings. C. Sign.	
		3600	Kami Is. N. 28° E	
		3700	(true) dist 8 miles.	
		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				

11-1023

REMARKS:

No.

D. 4810.

Contd.

Date

16 July 08

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

74°

Surface

70°

Drift

Trawl or dredge

Inter N^o 1., 2 Kfds. N^o 2 & 3.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	4:58.30	5.29.10
		100	5.01.40	24.50
		150	5.03.00	5.23.00
		200		
		300		
		400		
		500	Towed 20 min at an estimated depth = 100 fms.	
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

11-1023

REMARKS:

No. 4811 Date July 17. 06Machine. Reel.Turns — Cor. + — Depth —Shot or lead —Bottom —Bottom temperature —No. of thermometer — Cor. —Corrected temperature —Air 77 Surface 73 Drift —Trawl or dredge bet #1 No 2-3 E.L.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	8.5.30	8.27.00
		100		
Towed on surface for 20 m		200		
		300		
Two H towing aft. in separate lines about 10 ft apart.		400		
		500		
bet towing from part bottom		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	<i>P. L.</i>	<i>895</i>
		2600	<i>Weather</i>	<i>cl. cu.</i>
		2700	<i>Wind</i>	<i>SW 0.1</i>
		2800	<i>Sea</i>	<i>A</i>
		2900	<i>Bar</i>	<i>30.00</i>
		3000	<i>Therm</i>	<i>77</i>
		3100	<i>Chart</i>	<i>40 11300</i>
		3200	<i>Current</i>	<i>S 39 W</i>
		3300	<i>Lat</i>	<i>39° 26' N</i>
		3400	<i>Long</i>	<i>139° 20' 30" E</i>
		3500	<i>Bearing</i>	<i>—</i>
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

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

REMARKS:

No. *D. 4812*Date *July 18, 1916*Machine. *Sigsbee*Reel. *Sigsbee*

Turns

Cor. +

Depth *176 fath*

Shot or lead

35^{lb} shot + ligebc rod

Bottom

fine br. M(?)

Bottom temperature

35.0

No. of thermometer

108019

Cor. - .1

Corrected temperature

34.9

Air

79.0

Surface

73.0

Drift

Trawl or dredge

12' Tanner

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

8-03-00 8-09-00

0

*8-18-15 8-55-10**4-25**7-45*

100

*21-40**52-50**8-15-25 8-06-50*

176

*24-55**48-20*

200

230

250

300

8-26-30

400

8-32-30 8-46-25

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

*Towed for 5 min
with 235 fath
wire then brought
20 fath more wire,*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	P.L.	5.24
		2600	Wind	S. 10
		2700	Sea	Smooth
		2800	Bar	30.02
		2900	Ther. Att	76°
		3000	Course	S. E. x E.
		3100	Lat.	38° 33' N.
		3200	Long.	138° 40' E.
		3300	Bearings;	N. Point
		3400	of Sigs Id.	
		3500	S. 31° W. (True)	15 mi
		3600		
		3700	Chart	N.A. 1300
		3800	Weather	b-c - 7
		3900		
		4000		

SERIAL TEMPERATURES

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

11-1023

REMARKS:

No. *D 4813*

Date

July 18, 1906

Lucas

Machine.

Reel.

Lucas

Turns

Cor. +

Depth

200 fath

Shot or lead

30^{lb} and Ligate 100^{lb}

Bottom

br. M. and bk. S.

Bottom temperature

34°

No. of thermometer

*108019*Cor. - *1°*

Corrected temperature

33.9°

Air

81

Surface

73

Drift

Trawl or dredge

12' Tanner

SOUNDING WIRE.

DOWN.

A.M.

UP.

TURNS.

DREDGE ROPE.

DOWN.

A.M.

UP.

9-10-05 9-15-55

0

*9-19-50 10-00-00**11-20 14-50*

100

*23-30 56-30**9-12-30 9-13-35*

200

*27-10 52-30**275*~~300~~*9-29-30 9-49-30*

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Wind	0
		2600	Weather	by 7
		2700	Sea	Smooth
		2800	Bar.	30.01
		2900	Ther. Alt	79°
		3000	Course	S.E. x E.
		3100	Lat.	38° 35' N.
		3200	Long	138° 41' E.
		3300	Chart	H. O. 1300.
		3400	Bearings	N. P.
		3500	Side Id.	A. 30° W.
		3600	(True) dist.	17 mi.
		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				

11-1023

REMARKS:

10-

37
2/2

