#3. Eastern Pacific.

S 4672-4702

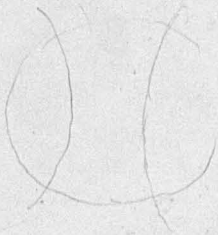
Nov. 21st. to Decr. 26th, 1904.

№ 3.

Dr. 4672. – Dr. 4702.
Hy. 4509. – Hy. 4518.

12:200 = 1
12
81

54



Next Hy = ~~4517~~

~~4518~~ Dec. 22

4519

14 dec.

4513

42.20
85.50
630

1760: 4800 = 2
3400
1400

1

20: 77 = 3
60
17

(Brilki)

No. Dr. 4672 cont. Date 21 Nov. 1904.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom (For Sounding data see previous

Bottom temperature record book)

No. of thermometer Cor.

Corrected temperature

Air 73° Surface 67° Drift

~~Trawl or dredge~~ Tanner (intermediate self closing Net.)

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		~~pm~~ DOWN.	UP.
		0	1:10.20	2:07.10
		100	14.00	04.05
		200	17.25	2:01.10
		300	20.30	58.15
		400	1:23.40	1:55.20
		500		
		600	Let go Messenger	
		700	at 1:55.20	
		800	= Towing open	
		900	about 32 min.	
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat. 13° 11.6' S		2500		
Long. 78° 18.3' W		2600		
Fair		2700		
South breeze, SE		2800		
Moderate Sea		2900		
Bar. 29.85		3000		
Therm. air. 76		3100		
Course, NNE		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:

507 Veith

P. L. 23.5

11—1023

No. D1. 4673 Date 21 Nov. 04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 71° Surface 67° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			P. M.	
5' Bobbinett		0	7-02-30	7-52-00
2 # Silk Kofoid's		100	06-00	47-00
from dredging Boom		200	9-30	43-30
lowered to		300	13-00	39-45
300 fms		400	7-16-30	7-36-30
with 400 fms. cable.		500	Towing 20 min	
		600		
		700		
5' Surface Net		800	Out P. M.	In
Electric Lt attached		900	7-01-00	7-21-00
from port boom		1000		
		1100		
1-12" Kofoid #12 silk		1200		
1-14" " #20 "		1300		
towing astern		1400	Towing 20 min	
		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:

Clear – Smooth sea
Gentle breeze from S.E.
Bar. 29.82
Therm. attached 76°

Position
Lat 12° 30.5' S. ✓
Long 77° 49.4' W.

DeLong

No. 4673 Contd. Date 21 Nov/04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 45.8 fms.

Shot ~~or lead~~ 35 lbs. + Telegraph Tubes

Bottom Rocky Bottom

Bottom temperature 43°

No. of thermometer 98241 Cor. 6-

Corrected temperature 42.8

Air 71° Surface 67° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
pm. DOWN.	UP.		DOWN.	UP.
7-54-45	8: 6-20	0		
55-00	5-10	100		
56-15	4-10	200		
57-20	3-5	300		
58-30	1-55	400		
7-59-00	8- 1-10	45.8 500		
		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.
Lat.	12° 30.5' S	2500		
Long.	77° 49.4' W.	2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

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

REMARKS:

507 11—1023

66.5

De Long. Fruki 4810.

No. Hy. ~~4509~~. Date 22 Nov. 04.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1949 fath.

Shot ~~or lead~~ 60 #9 Telegraph Tubes.

Bottom fne dk gn. M.

Bottom temperature 35.8°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.2

Air 67° Surface 67° Drift

Trawl or dredge

am. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7- 6- 0	7. 58.00	0		
7- 10	56-45	100		
8- 10	54-30	200		
9- 15	53-15	300		
10- 15	52- 5	400		
11- 10	50-50	500		
12- 5	49-35	600		
13- 0	48-15	700		
14- 0	47- 0	800		
15- 0	45-45	900		
16- 5	44-25	1000		
17- 10	43- 0	1100		
18- 15	41-35	1200		
19- 20	39-40	1300		
20-25	38- 5	1400		
21-30	36-30	1500		
22-35	34-55	1600		
23- 40	33- 5	1700		
24- 50	31- 30	1800		
25- 55	30- 0	1900		
7-26-25	7-28-35	1949 2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat.	12° 26.6' S.	2500	✓	
Long.	78° 34.5' W.	2600		
Fair		2700		
Gentle breeze, SSE.		2800		
Smooth sea.		2900		
Bar. 29.91		3000		
Therm. at 72°		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:

507 Arctic p.l. 78.5 11—1023

No. Dr. 4674 Date 22 Nov. 1904.

Lucas. Machine. Reel. Lucas.

Turns Cor.+ Depth 2338 fms.

Shot ~~or lead~~ 60# and Tele gr. Tubes.

Bottom fine dk gn M.

Bottom temperature 35.7°

No. of thermometer 98241 Cor. 6

Corrected temperature ~~35.1~~ 35.1

Air 77° Surface 68° Drift

Trawl ~~or dredge~~ 6' Bl. - Alb. as before

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
am. DOWN.	UP.		am. DOWN.	UP.
9: 20.00	9: 24.10	0	10:30.30	2-41-00
21.20	22.15	100	34.10	37-00
22.20	20.30	200	37.30	33-30
23.20	18.50	300	40.55	30-10
24.10	17.10	400	44.10	26-40
25.05	15.45	500	47.30	23-00
26.00	14.15	600	51.05	19-05
27.00	12.45	700	54.25	15-45
27.55	11.15	800	57.00	12-25
28.50	09.40	900	11:00.20	8-40
29.50	08.05	1000	03.45	4-40
30.50	06.30	1100	07.20	2-00 55
31.55	04.45	1200	11.00	1-57-00
33.00	03.05	1300	14.20	53-40
34.05	10:01.20	1400	17.40	50-05
35.10	9:59.40	1500	21.00	46-20
36.15	10:00.00 *	set watch 2 min back 1600	24.40	42-40
37.20	58.15	1700	28.00	39-00
38.25	56.30	1800	31.20	35-15
39.35	54.50	1900	34.40	31-30
40.45	53.05	2000	37.50	27-45
41.55	51.20	2100	41.10	24-05
43.00	49.35	2200	44.20	20-40
44.10	48.00	2300	48.00	17-10
9: 44.35	9:47.00	2338 ~~2400~~	11:51.05	1-12-50

12-14,4 S - 78-43,4 W

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat.	12°19.3' S.	2500	11-54-20	8-15
Long.	78°45' W.	2600	57-25	1-3-45
Fair		2700	12-00-35	58-20
Gentle breeze from SE.		2800	03-50	51-00
Moderate swell		2900	07-00	38-40
Bar. 29.90		3000	12-10-15	12-31-00
Therm. air. 75°		3100		
Dr. Course N½E.		3200	Trawled 2¢ min.	
		3300		
		3400	*Dredge fast on bottom	
		3500		
Hand bag & Butterfly nets filled with specimens		3600	Dredge came up with net torn & lashings of bridle carried away from side of frame.	
		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:

507 De Long. P.L. 14.8 11—1023

Dr No. 4675 Date 22 Nov. 1904.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom Sounding next page.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 67° Surface 68° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. PM	UP.
5' Bobbinet		0	7-1-45	7.50-45
2 #2 Koloids		100	5-25	47-00
from dredging boom		200	8-50	43-15
Lowered to 300 fath.		300	12-15	39-30
on 400 fath Cable		400	7-15-55	7-36-0
and towed for		500		
20 minutes		600		
		700		
		800		
		900		
		1000		
		1100	Out	In
1-12" Koloid #12 Sibs		1200	7-0-45	7-21-0
1-14" Koloid #20 Sibs		1300		
Towing Astern.		1400		
		1500		
		1600		
		1700		
		1800	Out	In
5' Surface Net		1900	7-0-45	7-21-0
Elect. Light Att		2000		
from Port Boom		2100		
		2200		
		2300		
		2400		

12-54 S. 78-33 W.

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:

Fair
Smooth Sea.
Light Breeze. SE
Barometer. 29.86
Ther. Attached.

Atlantic

No. Dr. 4675 and 76. Date 22 Nov. 04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 3120 fms.

Shot ~~or lead~~ bag and Telegr. Tubes

Bottom fine dk gn M.

Bottom temperature Therm. broken

No. of thermometer 98241 Cor.

Corrected temperature

Air 67° Surface 68° Drift

~~Trawl or dredge~~ See previous page

fm. SOUNDING WIRE. DOWN.	SOUNDING WIRE. UP.	TURNS.	DREDGE ROPE. DOWN.	DREDGE ROPE. UP.
7.53.50	9.21.15	0		
55.00	20.00	100		
56.00	19.00	200		
57.00	18.00	300		
57.50	17.00	400		
58.35	15.55	500		
59.30	14.50	600		
8.00.25	13.40	700		
01.20	12.30	800		
02.15	11.15	900		
2	10.00	1000		
03.55	08.45	1100		
05.00	07.20	1200		
06.00	06.00	1300		
07.00	04.00	1400		
08.00	9.01.45	1500		
09.05	59.35	1600		
10.15	57.30	1700		
11.20	55.30	1800		
12.25	53.20	1900		
13.30	51.30	2000		
14.35	47.40	2100		
16.00	46.50	2200		
17.10	45.55	2300		
8.18.20	8.44.00	2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8.19.30	8.42.00	2500		
20.45	40.00	2600		
22.00	38.00	2700		
23.10	36.00	2800		
24.20	34.00	2900		
25.35	32.00	3000		
26.50	29.50	3100		
8. 27.15	8.29.15	3120 ~~3200~~		
		3300		
Lat. 12° 54' S.		✓ 3400		
Long. 78° 32.8' W.		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:

507 Veith / DeLong 4811. P.I. 14.9 11—1023

No. Hy. ~~4510~~ Date 4 Dec. 1904

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2543

Shot ~~or lead~~ 60 lbs. + Telegraph Tubes

Bottom Fine light gray ooze

Bottom temperature 35.8°

No. of thermometer 98241 Cor. —

Corrected temperature 35.2

Air 70° Surface 70° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P.M.				
7-01-00	8.10-25	0		
1-55	9-15	100		
2-50	8-15	200		
3-45	7-10	300		
4-35	6-05	400		
5-25	5-00	500		
6-15	3-55	600		
7-05	2-45	700		
8-00	1-35	800		
8-55	8-0-25	900		
9-50	59-16	1000		
10-50	57-55	1100		
11-50	56-30	1200		
12-50	55-00	1300		
13-55	53-25	1400		
15-00	51-40	1500		
16-00	49-55	1600		
17-05	48-15	1700		
18-15	46-20	1800		
19-20	44-15	1900		
20-25	42-00	2000		
21-30	39-40	2100		
22-35	37-25	2200		
23-45	35-10	2300		
7-24-55	7-32-55	2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P. M.				
7-26-05	7-30-45	2500		
7-26-30	7-28-40	2543		
		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:

Position;
Lat. 13° 48' 12" S.
Long. 80° 13' 00" W.

507 De Long. Ph. 6.7 11—1023

No. Dr. 4676 Date Dec. 5 /04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2714 fath.

Shot ~~or lead~~ 60# + Telegraph tube

Bottom Fine dark brown ooze

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 70° Surface 69° Drift

Trawl or dredge 6' Bl. Alb. as before

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. A.M.	UP. A.M.		DOWN. A.M.	UP. P.M.
8-1-50	9-8-40	0	9-16-50	2.35.20
2-50	7-25	100	21-15	32.10
3-40	6-30	200	24-50	28.40
4-35	5-30	300	28-20	25.10
5-25	4-30	400	31-25	21.30
6-10	3-25	500	34-05	18.15
7-10	2-25	600	36-45	15.00
8-00	1-15	700	40-00	11.50
8-55	9-0-10	800	43-00	08.30
9-50	58-55	900	45-50	05.00
10-50	57-45	1000	49-20	2.01.00
11-50	56-25	1100	52-50	58.00
12-50	54-50	1200	56-15	54.50
13-55	53-20	1300	59-35	51.10
14-55	51-55	1400	10-02-55	48.10
15-55	50-30	1500	06-30	45.00
16-55	49-05	1600	09-45	41.40
17-55	47-35	1700	13-15	38.10
19-00	46-10	1800	17-15	34.30
20-00	44-50	1900	20-20	30.40
21-10	42-55	2000	23-55	27.30
22-15	41-20	2100	26-45	24.15
23-20	39-40	2200	29-55	21.00
24-25	28.00	2300	34-25	17.30
8-25-30	8:36.20	2400	10-36-50	1:14.00

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. AM	UP.		DOWN.	UP. PM
8-26-35	8.34.40	2500	10-40-30	1:10:00
27-40	33-05	2600	48-50	—
28-50	31-25	2700	47-20	1:03.00
8-28-55	8-31-00	2714 2800	50-55	59.00
		2900	54-20	55.15
		3000	57-30	51.00
		3100	11-01-25	38:00
		3200	04-45	12:11:00
		3300	8-35	57.55
		3400	13-15	41-55
		3500	11-20	37-05
		3600	11-15-20	11-31-00
		3700		
		3800	Towed	22 m
		3900		
		4000	Set clock back 6 min at 11-15	

Wire stretched 10 fms. - Net wrecked. - Left the bitt. - All true, 1 floss float, 2 bottle flies.

Dredge Course N.E.

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Stopped heaving in for 6 min.			
50	between 3300 + 3400. Not caught on			
100	bottom cu. registering over 5 tons. Stopped			
200	again at 11:52, 3327 fms., accumulator 5+,			
300	at 11:54, accumulator 4½. Stopped at			
400	12:05, 3250 fms., acc. 5¼. Hove in			
500	at 12.06, acc. 5-, but registering 5+ shortly			
600	after heaving in. Stopped at 12:18, 3136 fms.,			
700	acc. 5¼. At 12:31 hove in, acc. 5, but			
800	soon 5½ when stopped 12:32. In 12:33, acc. 5+,			
900	then 5½. Stopped 12:39 and 10 fms. reeled out, acc.			
	then reg. 4½. In at 12:41, acc. 5+. Stopped 12:44, acc.			
1000	5½. Strain again reeled out 4 or 5 fms. In at			
	12:45, acc. suddenly dropping 4½ and 4. Smooth			
	heaving in after that.			

11—1023

REMARKS:

Lat. 14° 28' 45" S (14-28.9

Long. 81° 23' 00" W. 81-24

Passing squalls, Overcast.

Light Breeze E.S.E.

Smooth Sea

Bar. 31°

Thermometer 72°

Station No. continued on next page

507 Arr. Gil. 12 M. Veith 4 P.M. 11—1023

No. Dr. 4676 Cont. Date 5 Dec. 1904.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

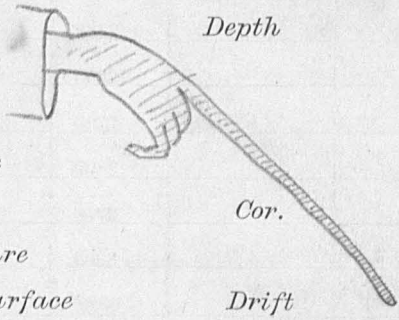
Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge



SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			P. M.	
5' Cone Net and		0	3-40-40	4-27-10
2 Silk Kofoids,		100	43-50	23-50
towing at 300 fms.		200	46-55	20-10
with 400 fms. cable		300	50-10	16-45
		400	3-53-30	4-13-30
		500		
		600	Towing 20 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		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES 2:41–3:36 pm.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Surface	69.5°	109635.		
25	66°	108154.	-.3	65.7
50	64.8°	104914.	-.4	64.4
100	53.8°	108151.	-.4	53.4
200	49.8°	104924.	-.4	49.4
300	45.4°	108156.	.6	44.8
400	42.7°	108026.	n.s.	5± — 42.2
500			(See Sta Dr 4727.)	
600	39.8°	108155.	-.7	39.1
700				
800	37.9°	108025.	-.6	37.3
~~900~~	a Silk Kofoid at end of cable.			
1000	+ Sigsbee water bottle.			

11—1023

REMARKS:

Started down at 2:41:40 pm.
800 pm down at 3:07:15 " } = 5 min. down.
Commenced up at 3:12:15 "
All up at 3:36:00

P. L. 29.0

No. Dr. 4677 Date 5 Dec. '04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 69° Surface 68° Drift

Trawl or dredge

No Sounding.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5' Surface Net		0		
Electric Dr. attached		100		
from port boom		200		
		300		
1-12" Kofoid #12 Silk		400		
1-14" " #20 "		500		
towing astern		600	P. M.	
		700	Out	In
		800	7-18-00	7-33-00
		900		
		1000	Towing 15 mi.	
		1100		
		1200		
		1300		
		1400		
Overcast & cloudy		1500		
Mod. breeze from		1600		
S.E. - mod. sea.		1700		
Barometer 29.95"		1800		
Therm. attached 74.5		1900		
		2000		
Pos:		2100		
Lat. 14°37'30S		2200		
Long. 81°41.0'W.		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				

REMARKS:

P.L. 47.3

Dehong 4812.

No. ~~4511~~ Date 6 Dec. 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2620 fath.

Shot or lead 60# and Telegraph Tubes

Bottom Light Brown Rad. Ooze

Bottom temperature 35.8

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 70° Surface 69° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-4-50	9-13-30	0		
5-45	11-55	100		
6-40	10-15	200		
7-35	8-45	300		
8-25	7-10	400		
9-20	5-35	500		
10-15	4-05	600		
11-10	2-30	700		
12-05	9-00-55	800		
13-00	59-30	900		
14-00	58-05	1000		
15-00	56-45	1100		
16-00	55-20	1200		
17-00	54-00	1300		
18-00	52-30	1400		
19-00	51-00	1500		
20-05	49-25	1600		
21-10	47-55	1700		
22-15	46-30	1800		
23-20	45-00	1900		
24-30	43-30	2000		
25-35	42-00	2100		
26-45	40-30	2200		
27-55	39-00	2300		
8-29-00	8-37-30	2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-30-05	35-50	2500		
31-15	34-10	2600		
8-31-25	8-33-35	2620		
		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:

Current to Southern
Lat. 15° 39' S
Long. 83° 27.4' W.

507 11—1023

Sprukil

No. Dr. 4678. Date 6 Dec. 04.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 68° Surface 69° Drift

Trawl or dredge Surface Haul.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5' Cone Net		0	Out	In
form prol Lower		100	7:30	7:50
boom, and		200		
		300	= towing	20 min
2 Kofoids towing		400		
astern		500		
		600		
		700		
Position:		800		
16° 31.2' S.		~~900~~	(16°31.2'S)	
85° 03.8' W.		1000	85-03.8	
Partly clear, pleasant		1100		
Gentle breeze, ESE		1200		
Moderate Sea		1300		
Bar. 30.00		1400		
Therm. att. 71°		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				

REMARKS:

P.L. 68.7

No. D2. 4679 Date 7 December 1904

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2485

Shot ~~or lead~~ 60 lbs. & Telegraph Tubes

Bottom M. brn rad. Oz

Bottom temperature 35.9°

No. of thermometer 98241 Cor. ✓

Corrected temperature 35.3

Air 69° Surface 69° Drift

Trawl or dredge Intermediate Haul

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
A.M.				
8-1-10	9-1-20	0	9-07-30	9-56-00
2-20	9-00-05	100	10-50	52-10
3-15	58-50	200	14-25	48-40
4-10	57-40	300	17-15	45-00
5-05	56-35	400	9-21-00	9-41-00
6-05	55-30	500		
7-00	54-25	600		
7-55	53-15	700		
8-55	52-05	800		
9-50	50-50	900	5' Cone Net &	
10-50	49-40	1000	2 Silk Rafoids	
11-50	48-25	1100	towing at 300 fms	
12-55	47-10	1200	with 400 fms. cable	
13-55	45-50	1300		
15-00	44-35	1400	Towing 20 min.	
16-00	43-15	1500		
17-05	41-55	1600		
18-05	40-35	1700		
19-10	39-20	1800		
20-15	38-00	1900		
21-20	36-30	2000		
22-25	35-00	2100		
23-35	33-30	2200		
24-40	32-00	2300		
8-25-45	30-30	2400		
8-26-35	8-28-45	2485		

Drift while sounding 4 N.W.'d.

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:

Overcast & cloudy
Mod. breeze from S.E.
Barom. 30.03
Therm. attached 71°

Position
Lat. 17° 26' 4S
Long. 86° 46½' W

507 Veith DeLong from 11-55

11—1023

No. D1. 4679 (cont'd) Date 7 Dec. '04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 72° 10 A.M. Surface 68° Drift

Trawl or dredge Tangle (10 Sec.) plain & pot. swivel & weight

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	9-59-00	1-21-00
		100	10-2-30	17-40
		200	5-30	14-20
		300	8-25	11-25
		400	11-20	8-20
		500	14-15	5-05
		600	17-00	1-02-05
		700	19-50	58-45
		800	22-40	55-25
		900	25-40	51-50
		1000	28-35	48-00
		1100	31-30	44-00
		1200	34-20	40-15
		1300	37-15	36-45
Set watch back 12 min		1400	×10 {40-00 / 28-00	32-50
		1500	30-55	29-05
		1600	33-30	26-05
		1700	36-15	22-55
		1800	39-15	19-40
		1900	42-00	16-20
		2000	44-55	13-05
		2100	48-50	9-45
		2200	50-40	6-30
		2300	53-30	12-03-00
		2400	10-56-20	11-59-30

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	10-59-10	11-55-45
		2600	11-02-20	51-15
		2700	5-45	47-30
		2800	8-50	43-50
		2900	12-00	39-40
		3000	11-15-00	11-35-00
		3100		
		3200		
		3300	Tangle out 20 min.	
		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:

Dredg. course N.E.
Lat. 17°-26'-24" S
Long. 86° 46' 30" W.
Smooth Sea
Light Breeze E.N.E.

Bar. 29.98
Ther Att 75°

507 P.L. 47.3 11—1023

Dehong 4812.

Hy No. ~~4511~~ Date 6 Dec. 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2620 fath.

Shot or lead 60# and Telegraph Tubes

Bottom Light Brown Rad. Ooze

Bottom temperature 35.8

No. of thermometer 98241 Cor. 6

Corrected temperature 35.2

Air 70° Surface 69° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-4-50	9-13-30	0		
5-45	11-55	100		
6-40	10-15	200		
7-35	8-45	300		
8-25	7-10	400		
9-20	5-35	500		
10-15	4-05	600		
11-10	2-30	700		
12-05	9-00-55	800		
13-00	59-30	900		
14-00	58-05	1000		
15-00	56-45	1100		
16-00	55-20	1200		
17-00	54-00	1300		
18-00	52-30	1400		
19-00	51-00	1500		
20-05	49-25	1600		
21-10	47-55	1700		
22-15	46-30	1800		
23-20	45-00	1900		
24-30	43-30	2000		
25-35	42-00	2100		
26-45	40-30	2200		
27-55	39-00	2300		
8-29-00	8-37-30	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				

REMARKS:

No. Dr. 4681 Date 8 Dec. 1904

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2395 fms.

Shot ~~on lead~~ 60 lbs. and Telegr. Tubes

Bottom Lt. brn. rad. Oz.

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 68° Surface 68° Drift

Trawl or dredge Intermediate haul. not 1 plain swivel + two weights.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
A. M.			A. M.	
8-2-30	9-00-50	0	9-7-30	9-54
3 45	59-20	100	11-15	50-25
5-00	57-50	200	14-45	47-00
6-00	56-30	300	17-05	43-30
6-55	55-20	400	9 20-30	-9-40-00
7-50	54-15	500		
8-45	53-10	600	Towing 20 min.	
9-40	52-05	700		
10-35	51-00	800		
11-35	49-50	900	5' Cone Net	
12-30	48-40	1000	with 2 Koloids attch'd	
13-30	47-30	1100	from dredg'g beam	
14-30	46-20	1200	towing at	
15-30	45-10	1300	300 fms	
16-30	43-45	1400	with 400 fms. cable	
17-30	42-25	1500		
18-35	41-00	1600		
19-40	39-40	1700		
20-45	38-10	1800		
21-50	36-50	1900		
22-50	35-20	2000		
23-55	33-55	2100		
25-00	32-30	2200		
26-05	31-00	2300		
8- 27-15	8-29-20	2395 ~~2400~~		

Drift of vessel while sounding to NNE.

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:

Cloudy
Gentle breeze from S.E.
Barometer 30.02"
Thermom. at bottom 70°

Position
Lat. 18° 47.1 S
Long. 89° ~~29~~ W. ✓
89-26 W

507 Veith Dehong. continued 11—1023

No. Dr. 4681 Date 8 Dec. '04.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

* 2 Butterfly Nets - Mud Bag - Plain & pat. Swivel & weight 2 weights attached to bottom of net

Air 70° 10 A.M. Surface 70° Drift abt. 0.3 mile Eur. E.

Trawl or dredge 5½ ft Blake Albatross *

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. AM	UP. PM
		0	10-00-00	2- 0-45
		100	4-00	57-15
		200	7-40	54-10
		300	11-15	50-55
		400	14-30	47-20
		500	18-30	43-55
		600	22-15	40-30
		700	26-00	36-55
		800	29-40	33-15
Set watch back 11 mi		900	* 22-00	30-00
		1000	25-20	26-25
		1100	29-15	22-20
		1200	33-05	18-20
		1300	36-45	14-15
		1400	40-20	10-20
		1500	44-00	06-05
		1600	47-45	1- 01-55
		1700	51-25	58-25
		1800	54-55	54-30
		1900	58-30	50-45
		2000	11-2-25	46-50
		2100	6-15	42-50
		2200	10-05	38-35
		2300	13-35	34-10
		2400	17-00	12-27-30

Dredging course ENE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. AM	UP. PM.
		2500	11-20-25	12-16-15
		2600	24-00	12-1-40 AM
		2700	28-05	57-30
		2800	32-10	53-00
		2900	11-36-30	11-46-40
		3000		
		3100	Dredged 10 min.	
		3200		
Position at Mer:		3300		
Lat. 18°47'06 S.		3400		
Long. 89°26'00 W.		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	(Stopped for 1 min 12-03 AM Net being caught			
50	on bottom.)			
100	(Stopped at 12-9 PM for 2 min Net caught			
200	on bottom) also 1 min at 12-12 also			
300	1½ min at 12-15. also ½ min at 12-16			
400	also 2¼ min from 22-30			
500				
600				
700				
800				
900				
1000				

11—1023

REMARKS:

Net badly torn and bridle parted near bag on one side.

DeLong.

No. 4681 f Cont. Date 8 Dec, 1904

Machine. *Reel.*

Turns *Cor.+* *Depth*

Shot or lead

Bottom

Bottom temperature

No. of thermometer *Cor.*

Corrected temperature

Air *Surface* *Drift*

Trawl or dredge

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

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.
Surface	70.3	104922	3	~~70.~~
25	68.7	108151	-.2	68.5
50	68.0	108025	-.2	67.8
100	61.6	104924	-.3	61.3
200	49.6	108156	-.5	49.1
300	44.5	108026	n.s.	±4 ~~44~~.1*
400	42.5	108155	-.7	41.8
500				
600	39.8	108154	-.7	39.1
700				
800	38.0	104914	-.7	37.3
~~900~~	Water bottle and Kofoid Net #12 Silk			
~~1000~~	at bottom of Cable (800 fath			

11—1023
P.M.

REMARKS:

2-07-20 Started down.
2-31-30 Reached bottom (?)
2-33-50 Started up.
2-55-00 Last reached surface

* Su Sta Dr 4721

507 Arnkil. p.L. = 88.5 11—1023

No. Dr. 4682. Date 8 Dec. 04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead No Soundings.

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 69° Surface 69° Drift

Trawl or dredge Surface Haul as before

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	Out.	In.
		100	7:32	7:52
Lat.	19° 07.6' S.	200		
Long.	90° 10.6' W.	300	= Towing	20 min
Fair.		400		
Light Breeze, S.E.		500		
Bar. 29.96		600		
Therm. att. 72°		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				

REMARKS:

Arctic

p.l. = 4.9

11—1023

No. Dr. 4683. Date 9 Dec. 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2385 fms.

Shot ~~on lead~~ 60# and J. C. Tubes.

Bottom dk. choc. d. rad. Oz.

Bottom temperature 35.8°

No. of thermometer 98241. Cor. 6

Corrected temperature 35.2

Air 72° Surface 70° Drift

Trawl or dredge Intermed. 5' Core - and 2 Kofoid Nets as before.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
am. DOWN.	UP.		am. DOWN.	UP.
8: 04.50	8: 59.20	0	9: 12.20	10: 01.00
05.50	58.05	100	16.10	57.20
06.40	57.00	200	19.30	52.40
07.30	56.00	300	23.00	50.30
08.20	55.00	400	9: 27.00	9: 47.00
09.10	53.55	500	= Towing 20 min.	
10.00	52.55	600		
10.55	51.50	700		
11.55	50.50	800		
12.50	49.50	900		
13.45	48.45	1000		
14.45	47.40	1100		
15.45	46.20	1200		
16.50	45.10	1300	Lat. 70-02.45	
17.50	44.00	1400	Long. 91-52.5 W	
18.55	42.45	1500	Fair.	
19.55	41.30	1600	Var. lt. airs.	
21.00	40.20	1700	Moderate Swell.	
22.10	39.00	1800	Bar. 30.02	
23.15	37.40	1900	Therm. at 74°	
24.25	36.20	2000	Course, S. 87° W.	
25.30	35.00	2100	and	(= S. 81° W.)
26.35	33.30	2200	remove.	
27.45	32.05	2300		
8: 28.45	8.30.45	~~2400~~ 2385		

No perceptible drift of ship while Sounding.

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.
Surf.	70.6°	104922	.3	70.3
25	69.3°	108154	.3	69.
50	68.7°	108151	.2	68.5
75	68.7°	104914	-.3	68.4
100	63.0°	104924	-.3	62.7
125	62.8°	108155	-.3	62.5
150	53.0°	108026	n.s.	-3 ≠ ~~52.7~~
175	50.8°	108025	-.4	50.4
200	51.1°	108156	-.5	50.6
700				
800				
900				
1000				

11—1023

REMARKS:

Starter down at 10:03.10
200 fms. down at 10:15:45
Starts heave in 10:20:45
up at 10:30:00

De Long

No. Dr 4684 Date 9 Dec 1904.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 70° Surface 72° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		~~DOWN.~~ Out PM	~~UP.~~ In
5 ft. Surface net from port boom with Elect. light attached.		0	7-30-30	7-50-30
		100		
		200		
		300		
		400		
		500		
		600		
2 Kofoids 12" #12 Silk		700	7-30-30	7-50-30
1 Kofoid 14" #20 Silk		800		
Towing astern		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:

Fair 2
Smooth Sea ~~S.S.E~~
Light Breze S.S.E
Bar 29-98
Ther Att 73°

Lat 20° 40.3' S
Long 93° 19.2' W

507 Arrival

p.l. 10.9

11—1023

contd. on next pge

No. Dr. 4685. Date 10 Dec. 1904

Lucas Machine. Reel. Lucas.

Turns Cor.+ Depth 2205 fms.

Shot ~~or lead~~ 60 ft of J.C.o Tubes

Bottom dk. choc. red. red. Oz.

Bottom temperature 35.9°

No. of thermometer 98241. Cor. 6

Corrected temperature 35.3

Air 80° Surface 72° Drift

Trawl or dredge Intermediate, as before.

am. SOUNDING WIRE.		TURNS.	am. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8:01.50	8:50.30	0	9:01.15	9:52.00
02.55	49.25	100	04.45	47.30
03.45	48.30	200	07.50	43.05
04.40	47.40	300	11.20	39.00
05.30	46.45	400	9:14.45	9:34.45
06.20	45.45	500	= Towing 20 min.	
07.10	44.45	600		
08.00	43.45	700	Lat. 21°36' 12" S ✓	
09.00	42.45	800	Long. 94°56' 00" W.	
09.55	41.45	900	Fairly clear.	
10.50	40.40	1000	Lt. airs from NNE	
11.50	39.40	1100	Bar. 30.00	
12.50	38.35	1200	Therm. 78.5°	
13.45	37.25	1300	Moderate Swell.	
14.50	36.15	1400	Course, N. 10° E.	
15.50	35.05	1500		
16.55	33.50	1600		
18.00	32.40	1700		
19.05	31.25	1800		
20.10	30.10	1900		
21.15	28.45	2000		
22.20	27.25	2100		
23.25	25.50	2200		
8:23.27	8:25.27	~~2300~~ 2205		
		2400		

No apparent drift of ship while sounding.

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.
Surface	72.5° / 72°	104922	.3	71.7
25	68.9°	108154	-.3	68.6
50	68.0°	108156	-.3	67.7
100	65.1°	108151	-.3	64.8
200	49.8°	104914	-.6	49.2
300	43.3°	104924	-.6	42.7
400	41.8°	108155	-.7	41.1
500				
600	39.2°	108026	h.s.	-.5 38.7
700				
800	37.9°	108025	.7	37.2
900	A Roford net at end of cable, and			
1000	Sigsbee water bottle.			

11—1023

REMARKS:

Commenced to lower at 9:55.00
800 fms. down at 10:19.00 } 5 min
Commenced heave up at 10:24.00
up at 10:46.00

Set clock back 12 min.

Arafi. Veith 12M

507 11—1023

No. Dr. 4685 cont'd Date 10 Dec. 1904.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead (For sounding data see record

Bottom of beginning of this station, pre-

Bottom temperature vious page)

No. of thermometer Cor.

Corrected temperature

Air 78° Surface 71° Drift 0.4 mile SSE.

Trawl or dredge 5½ ft Bl.-(Alb. Special: ×

SOUNDING WIRE.		TURNS.	am DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Dr. Course,	S 27° E.	0	10: 35:20	2-20-00
Noon Lat.	21°36'10"S	100	38.50	15-15
Long.	94°56'00"W	200	42.00	11-40
Nearly clear.		300	45.30	7-55
Lt. airs to lt breeze, NNE		400	49.00	4-20
Smooth sea, gentle swell.		500	53.00	2-00-45
Bar. 30.00		600	56.50	57-00
Therm. att. 79.6°		700	11. 00.15	53-15
		800	03.50	49-50
× with Sinker; patent bb.		900	07.20	46-10
and plain shackles, prevented		1000	10.45	42-25
guy; 2 glass floats; 2		1100	14.20	38-30
butterfly nets; tail weight;		1200	17.40	34-30
and mudbag. The "Special"		1300	21.05	30-20
applies to the construction		1400	24.30	26-00
of the net.		1500	27.50	22-30
		1600	31.25	18-55
		1700	34.50	15-15
		1800	38.10	11-35
		1900	42.00	7-45
		2000	45.10	1 03-45
		2100	49-20	59-40
		2200	53-00	55-20
		2300	56-30	50-45
		2400	12-00-15	12-45-20

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			P.	M.
		2500	12-4-00	40-40
		2600	7-30	34-20
		2700 ✓	12-11-30	12-26-30
		2800		
		2900		
		3000	Dredging	15 min.
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

Dredging cause S.S.C.

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:

Note: Dredging cable stretched 14 fms.

507 DeLong. PL. 62.2 11—1023

No. 4686 D.-. Date 10 Dec. 1904

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 71° Surface 71° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		~~DOWN.~~ Out PM	~~UP.~~ In
5' Surface Net		0	7-32-0	7-52-30
from Port Boom		100		
Elect light att		200		
		300		
		400		
		500		
		600		
		700		
1-12" Kofoid #12		Silk 800	7-32-0	7-52-30
1-14" " #20		" 900		
Towing astern		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:

Overcast - light showers Long. 95° 52' W.
Smooth Sea Lat. 22° 22' S.
Light Breeze N. by N.
Bar. 29.98
Ther att. 75.

507 p.l. = 78.3 11—1023

Arnfri

No. D.-4687 Date 11 Dec. 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2184 fms.

Shot ~~or lead~~ bof with J. C. Tubes.

Bottom dk. choc. red. rad. Oz.

Bottom temperature 36°

No. of thermometer 98241. Cor. 6

Corrected temperature 35.4

Air 84° Surface 73° Drift

Trawl or dredge I. Interm: 5' Kuhn - and 2 Kofoid-Nets.
II. " 5' Cone - " 2 " "

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
am. DOWN.	UP.		am. DOWN.	UP.
			I.	
8:03.15	8.52.50	0	8:58.30	9:49.00
04.10	51.45	100	9:02.30	45.00
05.10	50.50	200	05.30	41.10
06.00	49.50	300	09.30	36.45
07.05	48.50	400	9:12.50	9:32.50
08.00	47.50	500	= 20 min. tow.	
08.55	46.45	600	net sighted at 9 fms.	
09.45	45.35	700	II. 5' Cone Net and	
10.40	44.35	800	2 Kofoids:	
11.35	43.30	900	(Intermediate)	
12.30	42.30	1000	= 10. 9:56.20	12-35-10
13.30	41.20	1100	= 100. 10.00.00	31-50
14.30	40.10	1200	03.15	28-25
15.30	39.00	1300	06.20	25-00
16.30	37.45	1400	09.25	21-20
17.30	36.30	1500	12.50	17-50
18.30	35.15	1600	16.10	14-20
19.40	34.00	1700	19.15	11-15
20.40	32.40	1800	23.00	8-00
21.50	31.20	1900	26.30	4-55
22.55	29.50	2000	1000 29.45	12-1-20
24.00	28.30	2100	1100 33.00	57-35
8.25.00	8.27.00	2184. ~~2200~~	1200 36.25	54-30
		2300	1300 39.50	51-15
		2400	1400 10.42.15	11.47.50

Slight drift to N.W. while sounding.

2125

SOUNDING WIRE.		TURNS.		DREDGE ROPE.		
DOWN.	UP.			DOWN.		UP.
I. Lat. (8 am) 22°49'00" S.		0	2500	1500	10:46.30	44.20
Long. 97° 99' 30" W.		100	2600	1600	50.00	40.50
Nearly clear		200	2700	1700	53.50	37.15
Lt. breeze from East.		300	2800	1800	57.20	33.45
Smooth Sea		400	2900	1900	11:01.00	30.00
Bar. 30.01			3000	2000	04.45	26.15
Therm. att. 78°			3100	2100	08.20	22.20
Course, west, then stopped.			3200	2125	11:09.15	11:20.15
			3300	Clock set back 10 min		
			3400	trying 20 min.		
II.			3500			
Nearly clear.			3600			
Calm to var. lt. airs.			3700			
Smooth Sea.			3800			
Bar. 30.02			3900			
Therm. att. 79°			4000			

Course S. 15° W. Drawing

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Noon Lat. 22° 49' 30" S.			
50	Long. 97° 30' 36" W.			
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11—1023

REMARKS:

507 P.L. 45.2 11—1023

De Long

Dr No. 4688 Date 11 Dec. 1907

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 72° Surface 72° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5' Surface Net from Port boom with Elect light attached		0	7-32-30 P.M.	7-53-00
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
1 - 12" Koloid #12		1000	7-32-30	7-53-00
1 - 14" " #20		1100		
Towing asleve -		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Cloudy (nearly overcast)		2500		
Smooth Sea		2600		
Light Air - Variable		2700		
Bar	30.01	2800		
Ther. Att	76°	2900		
		3000		
Lat. 23°	17.2'	3100		
Long. 98°	37.5'	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:

507 P.L. = 63.1 11—1023

Fruitfil

No. Dr. 4689. Date 12 Dec. 04.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2185 fms.

Shot ~~or lead~~ 60# + T. C. Tubes

Bottom dk. choc. rd. rad. Oz.

Bottom temperature 36.°

No. of thermometer 98241. Cor. 6

Corrected temperature 35.4

Air 81° Surface 72° Drift

Trawl or dredge Intr: 5' Cone - and 2 Kofrids.

am. SOUNDING WIRE.		TURNS.	am. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8: 02.50	8: 54.10	0	9: 00.00	9: 49.00
04.20	53.05	100	03.45	45.45
05.25	52.10	200	07.00	42.30
06.15	51.10	300	10.40	39.00
07.15	50.05	400	9: 14.00	9: 35.30
08.10	49.05	500	= Towing 20½ Min.	
09.00	48.00	600		
09.55	46.50	700	~~23 17.2~~ Sit	
10.50	45.45	800	Lat. ~~24°05' S.~~	
11.50	44.30	900	Long. 100°20' W.	
12.45	43.20	1000	Coarse, various.	
13.45	42.00	1100	Fair.	
14.40	40.45	1200	Lt. airs, W.N.W.	
15.40	39.30	1300	Bar. 30.04	
16.45	38.15	1400	Therm. att. 77.6°	
17.45	36.55	1500		
18.50	35.40	1600		
19.55	34.20	1700		
21.00	33.00	1800		
22.05	31.45	1900		
23.10	30.20	2000		
24.10	29.00	2100		
8: 25.20	8: 27.20	2185 ~~2200~~		
		2300		
no drift while sdg.		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.
Surface	74°	104922	.3	73.7
25	70.4°	108156	-.3	70.1
50	69.1°	108151	-.3	68.8
100	64.9°	104914	-.5	64.4
200	51.5°	104924	-.5	51.
300	44.9°	108155	-.8	44.1
400	41.8°	108026	n.s.	41.4
500				
600	39°	108025	-.7	38.3
700				
800	37.8°	108154	-.8	37.
~~900~~	Sigsbee water bottle and a Kofoid net at end.			
1000				

11—1023

REMARKS:

Lowered at 9:53.00
Down at 10-18.30 } 5 min.
Started up at 23.30
Up at 10.47.30

P. I. 50.9

No. Dr. 4690 Date 12 Dec. '04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 73° Surface 75° Drift

Trawl or dredge Surface haul

No Soundings

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5' Surface Net, with electric light attached from port boom		0		
		100		
		200	P. M.	
		300		
		400	Out	In
		500	7-30-00	7-50-00
		600		
1 Kofoid 12" #12 Silk		700		
1 " 14" #20 "		800		
towing astern		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:

Clear - Smooth sea
Lt. airs from West
Barom. 30.01"
Thermom. attached 77°

Position
Lat. 24° 45' 00" S.
Long. 101° 45' 00" W.

507 DeLong.

11—1023

Dr No. 4691 Date 13 Dec. 1904

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1939 fath.

Shot ~~or lead~~ 60# and Telegraph tubes.

Bottom Light Brown Glob. Ooze.

Bottom temperature 33°

No. of thermometer 98241 Cor. 6

Corrected temperature 32.4°.

Air 78° Surface 73° Drift

Trawl or dredge 5' Bobbinett Net as Intermediate.
2-#20 Kjords attached

Am SOUNDING WIRE.		TURNS.	Am DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-4-10	8-47-30	0	8-53-00	9-40-45
5-10	46-25	100	56-45	37-30
6-10	45-30	200	59-50	33-40
7-05	44-35	300	9-03-00	30-10
7-55	43-35	400	9-06-30	9-26-30
8-50	42-35	500		
9-45	41-35	600		
10-40	40-35	700		
11-40	39-30	800		
12-40	38-25	900	This station is	
13-35	37-20	1000		
14-35	36-15	1100	Continued	
15-35	35-10	1200	on next page.	
16-35	34-00	1300		
17-35	32-55	1400		
18-40	31-45	1500		
19-40	30-30	1600		
20-45	29-10	1700		
21-50	27-50	1800		
22-50	26-25	1900		
		1939		
8-23-05	8-25-45	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:

Fair
Smooth Sea
Light Breeze S.W.
Bar. 30.05
Ther. att. 79

8 am { Lat. 25° ~~28'45"~~ 27.3 S.
Long. 103° ~~30'48"~~ 29.3 W.

[illegible]

507 De Long. 11—1023

13 Dec. 04.

No. Dr. 4691 Contd. Date ~~6 Dec. 1904~~

Machine. Reel.

Turns Cor.+ Depth

Shot or lead (For sounding data see previous page)

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge 8' Blake All.*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
*Sinker, plain + Bb		0	9-44-30	2.21.30
Shackle, 2 butterfly nuts,		100	47-05	18.10
2 glass floats, 2 tail weights,		200	50-10	15.00
preventer guy, + mud bag.		300	53-30	11.45
		400	57-05	08.40
		500	10-00-50	05.25
		600	04-10	2.02.15
		700	07-45	59.15
		800	11-15	55.45
		900	14-45	52.05
		1000	18-15	48.45
		1100	21-35	45.15
		1200	24-55	41.45
		1300	28-30	38.10
		1400	32-15	34.25
		1500	36-05	30.35
		1600	39-40	26.55
		1700	43-10	23.10
*Set Clock back 11 min.		1800	* 35-40	1:19.20
		1900	39-25	45.00
		2000	43-05	40.50
		2100	46-40	36.40
		2200	50-30	12:14.30
		2300	54-05	57.45
		2400	10-58-10	11-26-25

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11-02-30	11-17-45	2500	Mer. Lat.	25°27'21"S.
		2600	Long.	103°29'18"W.
		2700	Dr. Course, S. 54° W.	
xx rolled 1860 fms. out, acc. fell to 4, and stopped heaving in. Several attempts were made to haul in, acc. betw. 4-4½, gear still foul on bottom. At 1:18, 1818 fms. out, acc. suddenly dropped to 2½. Then hove in smoothly. Lost: The 8' Bl. Alb. frame; 2 floss floats. Net wrecked.		2800	Partly clear.	
		2900	Gentle breeze from NW by W.	
		3000	Smooth Sea.	
		3100	Bar. 30.04	
		3200	Therm. att. 81°	
		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:

Net caught on bottom (stopped for 1 min between 2500 - 2400. Stopped heaving in 9 times between 2400-2300 Gear 4 to 4¾. Betw. 2300 - 2200 fms 3 times; acc. 4. Betw. 2200-2100 4 times; acc. 4½. At 12:34, 2150 fms. out, acc. fell to 3 suddenly; shortly after another hitch, and then again acc. 3 and wire came in easily. xx

507 Leith

P. L. 96.8

11—1023

No. Dr: 4692 Date 13 Dec. '04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 73° Surface 72° Drift

Trawl or dredge Surface haul

No Sounding.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5' Surface Net,		0		
with electric light		100		
attached from		200		
port boom		300	P. M.	
		400	Out	In
		500	7-30-00	7-50-00
		600		
1 Kofoid 12" # 12 Silk		700		
1 " 14" # 20 "		800		
towing astern		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:

Overcast & cloudy with light drizzling rain
Barometer 30.05"
Thermom. attached 78°
Light to gentle breeze from W.N.W.

Position:
Lat. 25°40.4' S.
Long. 104°1.3' W.

507 P.L. 88.1 11—1023

DeLong

No. ~~4512~~ 4813. 47. Date 14 Dec/04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 885 fath.

Shot ~~or lead~~ 35# and Telegraph Tubes

Bottom rocky.

Bottom temperature 37°

No. of thermometer 98241 Cor. 6

Corrected temperature 36.4

Air 71° Surface 71° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8-2-45	8-23-45	0		
3-55	22-40	100		
5-05	21-40	200		
6-10	20-40	300		
7-10	19-40	400		
8-15	18-40	500		
9-15	17-40	600		
10-20	16-35	700		
11-25	15-25	800		
8-12-05	8-13-10	885 900		
		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:

Lat. 26 - 17.3 S.
Long. 105 25.2 W

Dehong. Arll Kil — AL. 9.0

No. Dr 4693 Date 14 Dec. 1904

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1142 fath.

Shot ~~or lead~~ 35 lb Ped Snapper.

Bottom Many. Nos.

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4 ✓

Air 75° Surface 73° Drift

Trawl or dredge 5½' Blake Alb. special, 2 butterfly nets att. prevent'g, tail weight, mud bag, plain & Blo shackles, 2 glass floats

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN 9 P.M.	UP.		DOWN.	UP.
11-8-10	11-35-40	0	11-41-45	3.32.05
9-10	34-40	100	44-20	29.15
10-15	33-40	200	47.35	26.15
11-35	32-40	300	51.—	23.00
12-35	31-40	400	54.00	20.20
13-35	30-40	500	57.30	17.35
14-45	29-40	600	12.00.50	14.25
15-55	28-35	700	04.20	11.15
17-10	27-30	800	07.40	08.20
18-15	26-25	900	10.50	3.05.20
19-20	25-15	1000	14-30	2-15.00
20-40	24-05	1100	18.00	52.40
11-21-15	11-23-25	1142. ~~1200~~	21.25	1.44.00
		1300	25.15	49.50
		1400	12.29.00	12.39.30
		1500	= Trawling	10½ min.
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

When started to haul on bottom, indicator jumps of the acc., fore and aft. Net had fouled many times. 2 to 4, and haul in slowly and with several stops before 1400 — 1204. Reached bottom, apparently. Veered out 6 fms., 1204-1210; 6 more, 1210-1216; and again to 1228. Veered several times more, till 1265 fms. were out, acc. at times registering 5+. Then haul in carefully and with many stops. Reached 1200 fms., acc. average 4. Then 1100 fms. without stops, but ×

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Dredge Course N.E.		2500	xx Since 1150 fms.	
Fair.		2600	Stopped many times before	
Gentle breeze from SSE		2700	getting in 950 fms.; every time	
Moderate Swell		2800	acc. reqd 5. Up till this,	
Bar. 30.12		2900	acc. eased up at each	
Thermr. att. 75°		3000	stop. At 9½ fms. there	
Mer. Lat. 26°30.1' S. ✓		3100	was a sudden release,	
Long. 105°45.2' W.		3200	after which have in	
		3300	readily, acc. 2. —	
		3400	Trawl came up by	
		3500	the tail, bridle & tops	
x under heavy strain (4).		3600	having carried away.	
Stopped at 1050 fms. Have		3700	Lost: 1 butterfly net.	
in again, but stopped several		3800	— Frame of madbag broken	
times before getting in 1000, acc.		3900		
4-4½. Wire perpendicular		4000 xx		

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:

P. L. 8.4

No. Hy ~~4513~~ 4814 Date 15 Dec '04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1696 fms.

Shot ~~or lead~~ 35 lbs + Telegraph Tubes

Bottom No specimen of bottom (rocky)

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 71° Surface 70° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
A.	M.			
2-5-30	2-46-00	0		
6-30	45-00	100		
7-35	44-05	200		
8-40	43-10	300		
9-45	42-10	400		
10-55	41-10	500		
12-05	40-10	600		
13-15	39-10	700		
14-25	38-10	800		
15-35	37-10	900		
16-50	36-10	1000		
18-00	35-05	1100		
19-10	34-00	1200		
20-25	32-50	1300		
21-40	31-40	1400		
22-55	30-25	1500		
24-10	29-05	1600		
2-25-30	2-27-45	1696 1700		
		1800	Position:	
		1900	Lat. 26° ~~15.1~~ 50 5	
		2000	Long. 107° ~~57~~ 30.5' W	
		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:

Clear - smooth sea.
Light breeze from ENE
Barom. 30.11"
Therm. attchd. 75°

507 De Long. P.L. 6.6 11—1023

No. Hdy. ~~4514~~ 4815. Date 15 ~~Dec~~ Dec 1904

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1552 fm

Shot ~~or lead~~ 35# and Tel. tubes.

Bottom Volcanic bottom with glob.

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4 ~

Air 78° Surface 74° Drift

Trawl or dredge

SOUNDING WIRE. PM		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12-55-15	1-31-40	0		
56-20	30-35	100		
57-25	29-35	200		
58-25	28-35	300		
59-30	27-35	400		
1-00-35	26-40	500		
1-40	25-40	600		
2-45	24-40	700		
3-55	23-40	800		
5-05	22-40	900		
6-20	21-35	1000		
7-30	20-30	1100		
8-40	19-20	1200		
9-50	18-10	1300		
11-05	17-00	1400		
12-15	15-40	1500 1552		
1-12-45	1-14-45	1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat. 27° 16' S		2500		
Long. 108° 56'		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

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

REMARKS:

P.L. = 57.0

11—1023

No. 44 ~~4515~~ 4816. Date 22 Dec. 1904.

Lucas Machine. Reel. Lucas.

Turns Cor.+ Depth 1145 fms.

Shot ~~or lead~~ 35# J. C. Jukes.

Bottom fine vol S. few foram.

Bottom temperature 36.1°

No. of thermometer 98241. Cor. 6

Corrected temperature 35.5

Air 77° Surface 72° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11: 01.40	11:29.10	0		
03.00	28.10	100		
04.15	27.15	200		
05.15	26.25	300		
06.15	25.25	400		
07.20	24.25	500		
08.25	23.20	600		
09.30	22.15	700		
10.40	21.10	800		
11.45	20.05	900		
13.00	18.50	1000		
14.10	17.35	1100		
11: 14.50	11:16.50	~~1200~~ 1145		
		1300		
		1400		
		1500		
Position		1600		
Lat. 26° 58.7' S.		1700		
Long. 109. 20.3' W.		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				

REMARKS:

Veith P.L. 62.00

No. Hy. ~~4516~~ 4817. Date 22 Dec. '04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1627 fms.

Shot ~~or lead~~ 35 lbs. & Tel. Tubes

Bottom vole. S.

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 76° Surface 74° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P.M.				
12-22-15	1-01-00	0		
23-10	59-50	100		
24-05	58-50	200		
25-05	57-50	300		
26-05	56-50	400		
27-05	55-50	500		
28-10	54-45	600		
29-20	53-40	700		
30-30	52-35	800		
31-40	51-30	900		
32-45	50-20	1000		
33-55	49-10	1100		
35-00	47-55	1200		
36-10	46-45	1300		
37-20	45-30	1400		
38-35	44-15	1500		
39-50	42-50	1600		
12-40-15	12-41-20	1627 1700		
		1800		
		1900		
Position		2000		
Lat. 26°54.8' S.		2100		
Long. 109°16.4' W.		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				

REMARKS:

Veith P. L. 67.00

No. Hy. ~~4517~~ 4818. Date 22 Dec. 04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1733 fms.

Shot ~~or lead~~ 35 lbs. & Tel. Tubes

Bottom Lt. brn Clg. with Glob.

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 75° Surface 74° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P. M.				
1-51-50	41-20	0		
52-55	40-10	100		
54-00	38-55	200		
55-05	37-35	300		
56-10	36-15	400		
57-20	34-55	500		
58-30	33-30	600		
59-45	32-05	700		
2-00-55	30-35	800		
2-10	29-05	900		
3-25	27-30	1000		
4-45	26-00	1100		
6-00	24-20	1200		
7-15	22-35	1300		
8-30	20-50	1400		
9-50	19-15	1500		
11-10	17-30	1600		
12-25	15-45	1700		
2-13-00	2-15-00	1733 1800		
		1900		
Position:		2000		
Lat. 26° 50.9'		2100		
Long. 109 12.5'		2200		
		2300		
		2400		

Brought up short

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
Clear		2600		
Gentle breeze from		2700		
E.S.E.		2800		
Mod Swell from ESE		2900		
Barometer	29.77"	3000		
Therm. attached	81.5°	3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

Hy. No. 4517 stands for

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Surface	74.9°	104922	-.3	74.6°
25	73.8°	108156	-.2	73.6°
50	69.1°	108151	-.3	68.8°
100	67.4°	104914	-.4	67.0°
200	56.6°	108025	-.4	56.2°
300	53.8°	108155	-.6	53.2°
400	42.0	104924	-.4	41.6°
500				
600	39.1	109635	-.45	38.6°
700				
800	37.6	108154	-.8	36.8°
900				
1000	Water Cup & Stopcock not attached to bottom			

11—1023

REMARKS:

	P.M.	
Lowered at	3-02-00	
Down to 800 fms.	3-36-00	5 minutes
Started to heave in	3-41-00	
Up at	4-00-00	

507 De Long. P.L. 72.0 11—1023

No. Hy. ~~4518~~ 4819. Date 22 Dec. 04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1770 faths.

Shot ~~or lead~~ 35# and Tel. Tubes.

Bottom Tine Light brown vol. mud with glob.

Bottom temperature 35.9

No. of thermometer 98241 Cor. 6

Corrected temperature 35.3 ✓

Air 78° Surface 75° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. PM	UP.		DOWN.	UP.
4-49-40	5-32-40	0		
50-35	31-40	100		
51-35	30-40	200		
52-35	29-45	300		
53-35	28-45	400		
54-40	27-40	500		
55-50	26-40	600		
57-00	25-30	700		
58-05	24-25	800		
59-10	23-15	900		
5-0-20	22-05	1000		
1-25	20-55	1100		
2-35	19-40	1200		
3-45	18-20	1300		
4-55	17-05	1400		
6-05	15-40	1500		
7-15	14-15	1600		
8-30	12-10	1700		
5-9-25	5-11-45	1770 1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
Position		2600		
Lat. 26°47.3' S.		2700		
Long. 109° 9.3' W.		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:

507 p.l. at 7:56 = 89.5 11—1023

Arikiri

No. Dr. 4694. Date 22 Dec., 04.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead No Sdg.

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 73° Surface 72° Drift

Trawl or dredge Surface Haul = The 5-ft

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
→ Bobbinett with elec. lt from Port lower boom, and				
Two Rafoids towing astern =		100		
		200	out.	in.
Lat. 26° 34' S.		300	7:58.00	8:18.00
Long. 108° 57.3' W.		400		
Clear overhead, horizon cloudy.		500		
Lt. airs from E.S.E.		600		
Heavy swell		700	= towing 20 min	
Barometer 29.80		800		
Therm. atto 78°		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				

REMARKS:

P. L. 90.8

No. Dr. 4695 Date 23 Dec. '04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2020 fms.

Shot ~~or lead~~ 35 lbs. & Tel. Tubes

Bottom Last 70 fms of sounding wire, Telegraph Tube attachment and Thermometer No 98241

Bottom temperature

No. of thermometer 98241 Cor.

Corrected temperature

Air 75° Surface 74° Drift ½ mile S x E

Trawl or dredge Intermediate Haul

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
A. M.			A. M.	
8-4-30	~~53-15~~	0 70	8-59-00	46-55
5-30	52-05	100	9-02-55	43-15
6-35	51-05	200	06-10	39-30
7-40	50-00	300	09-20	35-45
8-40	49-00	400	12-30	9-32-30
9-45	48-00	500		
10-50	47-00	600	Towing 20 min	
12-00	45-55	700		
13-10	44-50	800		
14-25	43-50	900		
15-40	42-50	1000	5' Cone Net &	
16-55	41-45	1100	2 Silk Kofoids	
18-10	40-40	1200	towing at	
19-25	39-35	1300	300 fms	
20-40	38-30	1400	with 400 fms cable	
21-55	37-25	1500		
23-10	36-15	1600		
24-25	35-00	1700	Dr. Course S x E	
25-40	33-45	1800		
26-55	32-30	1900		
28-20	31-10	2000 2020		
8-28-45	8-30-45	2100		
		2200		
Wire parted at 70 fms from bottom.		2300		
		2400		

A slight drift to Ed. while sounding.

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		

= Character of Bottom
lt. br. vol. Oz. (specimen from dredge haul recorded on next page)

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:

Clear
Lt. & gentle breeze from NW.
Barometer 29.85"
Thermo attached 78°

Position 2.4
Lat. 25° ~~20'12"~~ S
Long. 107° ~~43'42"~~ W
45-

No. Dr. 4695 Date 23 Dec. '04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

* 2 Butterfly nets, Spud bag 2 Tail weights attached to bottom of net, plain & patt. swivel Cor. & weights.

Air Surface Drift abt. 3/4 mile S.W.

Trawl or dredge 5 1/2' Blake Albatross Special

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. AM	UP. PM
		0	9-52-00	33-00
		100	56-20	29-50
		200	10-00-50	26-00
		300	03-00	22-20
		400	06-30	19-00
		500	10-30	15-30
		600	15-20	11-30
		700	19-05	08-15
		800	23-50	04-50
Sch watch ahead 6 min		900	* 32-30	1-01-25
		1000	35-50	57-50
Lat. 25°22'24" S.		1100	39-10	54-00
Long. 107°45'00" W.		1200	42-30	50-15
		1300	46-00	46-20
		1400	49-00	42-30
		1500	52-30	38-35
		1600	56-00	34-45
		1700	59-30	30-10
		1800	11 04-00	26-10
		1900	06-00	21-45
		2000	08-50	17-00
		2100	11-00	11-20
		2200	15-30	12-06-40
		2300	18-30	57-15
		2400	11-21-45	11-53-50

* ~~11-34-00~~

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
* At 11-34 veered to		2500	~~11-38-00~~	11-48-00
		2600		
		2700		
		2800	Dredged 5 minutes	
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

Dredging course S W ½ 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. Dr. 4696. Date 23 Dec. 04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 75° Surface 74° Drift

Trawl or dredge Surface Haul.

No Soundings

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat. 24°40.3' S		0	4-ft Surface Net	
Long. 107°05.3' W		100	with electric lt.	
Cloudy		200	from p.l. boom	
Lt. breeze, WNW		300	and	
Moderate Swell		400	Two Nofrids	
Bar. 29.90		500	towing astern,	
Therm. at. 79°		600	out	in
		700	7:45:00	8:05:00,
		800	= 20 min tow.	
		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				

REMARKS:

P.L. = 43.9

11—1023

No. Dr. 4697 Date 24 Dec. 04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2188 fms.

Shot ~~or lead~~ 35# with T. Co's Tubes

Bottom rd. C.

Bottom temperature 36.9

No. of thermometer 108026. Cor. 5°

Corrected temperature 36.4

Air 77° Surface 75° Drift

Trawl or dredge 5' Bobbinott & 2 Kofriks as Inter.

am. SOUNDING WIRE. DOWN.	UP.	TURNS.	am. DREDGE ROPE. DOWN.	UP.
8:03.10	8:58.05	0	9:07.35	9:56.20
04.20	57.05	100	11.20	52.50
05.30	57.10	200	14.45	49.00
06.35	56.15	300	18.20	45.05
07.45	55.15	400	9:21.05	9:41.05
08.55	54.15	500	= Towing 20 min.	
10.10	53.15	600	at 300 fms. depth	
11.20	52.15	700	with 400 fms. cable.	
12.35	51.10	800		
13.50	50.05	900		
15.05	49.00	1000		
16.20	47.50	1100		
17.40	46.45	1200		
18.55	45.25	1300		
20.15	44.10	1400		24.4
21.30	42.55	1500	Lat. 23° ~~27.4~~ 44" S	
22.50	41.35	1600	Long. ~~105° 57.36"~~ W.	
24.10	40.10	1700	106-02.2	
25.35	38.50	1800	Fairly clear	
26.55	37.25	1900	Gentle breeze, NNW	
28.20	36.00	2000	Moderate sea	
29.45	34.35	2100	Bar. 29.97	
8:31.00	8:33.00	~~2200~~ 2188	Therm. Air. 80.3°	
		2300	Dr. Course, N 32° W.	
		2400		

No drift while sounding.

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				

REMARKS:

Anini

No. Dr. 4697 contd. Date 24 Dec. 1904.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead (For Sounding data see record on previous page.)

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 81° Surface 75° Drift 0.7 miles NW

Trawl or dredge 5½-ft Bl.- Alb. as before, but only 1 tail rot.

SOUNDING WIRE.		TURNS.	Am. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	9:59.30	2-22-30
Lat. 23°24'23"S		100	10:03.00	18-45
Long. 106°02'12"W.		200	06.15	15-20
Cloudy, to overcast, drizzling		300	09.20	12-00
Gentle breeze, NNW		400	12.10	8-40
Moderate Sea		500	15.20	5-20
Bar. 29.98		Set clock 7m. ahead. 600	26.20	2-02-00
Therm. att. 82°		700	29.50	1-58-30
Dr. Course NW ~~1/4 N 1/4 N~~		800	33.30	55-00
		900	37.00	51-45
		1000	10.40.00	48-10
		1100	43.20	44-20
		1200	46.45	40-55
		1300	50.05	37-30
		1400	53.40	34-00
		1500	57.05	30-40
		1600	11:00.25	26-45
		1700	03.30	22-20
		1800	06.45	19-00
		1900	09.50	15-30
		2000	12.45	11-50
		2100	16.20	08-00
		2200	19.40	1-04-00
		2300	23.00	36-00
		Bottom. 2400	11:27.15	12-17-00

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		am DOWN.	UP.
		2500	11:31.50	12-04-00
		✓ 2600	11:36.30	11-57-00
		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:

When dredge came up found lashings of bridle (to frame) carried away and net bottom up. Bird bag & butterfly nets returned.

567 DeLong. P.L. 87.7 11—1023

No. Dr. 4698 Date 24 Dec. 1904

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 76° Surface 75° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. P.M.	UP.
Lat 22° 50.4' S		0	4' Surface Net	
Long 105° 31.7' W		100	from port boom	
Overcast		200	with elect. light	
Light breeze, North		300	attached	
Smooth Sea		400	and	
Bar. 29.98		500	two Kofoids towing	
Ther. Att. 78°		600	astern	
		700	Out	In
		800	7-46-0	8-06-0
		900	towed 20 min.	
		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				

REMARKS:

507 P.L. 86.8 11—1023

De Long

No. Dr. 4699 Date 25 ~~Nov.~~ Dec. 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2168 faths.

Shot ~~or lead~~ 60# and telegraph tubes.

Bottom red clay.

Bottom temperature 36°

No. of thermometer 108026 Cor. 5-

Corrected temperature 35.5

Air 76° Surface 75° Drift

Trawl or dredge 5' bobbinett and 2 K foids as interm

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. AM	UP.		DOWN. AM	UP.
8-5-40	8-55-10	0	9-5-45	9-56-30
6-45	54-10	100	11-25	53-00
7-40	53-15	200	14-55	49-20
8-30	52-10	300	18-20	46-35
9-25	51-00	400	9-21-30	9-41-30
10-15	50-00	500		
11-10	48-55	600		
12-05	47-45	700		
13-05	46-40	800		
14-05	45-30	900		
15-05	44-20	1000		
16-05	43-10	1100		
17-05	41-55	1200		
18-10	40-45	1300		
19-10	39-40	1400		
20-15	38-20	1500		
21-20	37-05	1600		
22-25	35-50	1700		
23-30	34-35	1800		
24-35	33-15	1900		
25-45	32-00	2000		
26-55	30-35	2100		
8-27-30	8-29-35	2168 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:

Cloudy Lat. 21° 39.5' S.
Light Breeze N.E. by N Long. 104° 27.8'
Smooth Sea
Bar. 29.98"
Thermometer .80"
Dredge Course N. 23° E.

P.L. = 68.8

507 Fruki

11—1023

No. Dr. 4700 Date 25 Dec., 1904.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 75° Surface 74° Drift

Trawl or dredge Surface Haul.

SOUNDING WIRE.		TURNS.	DREDGE ROPE. pm.	
DOWN.	UP.		DOWN.	UP.
4-ft. Surface Net		0		
with electric lt.,		100	out.	in.
from port lower		200	7:48	8:18
boom, and		300		
The Two usual		400	= Towing	30 min.
Silk Kofoids		500		
towing astern.		600		
		700		
		800		
Lat. 20° 28' 48" S.		900		
Long. 103° 26' 18" W.		1000		
Fairly clear.		1100		
Lt. breeze from NE by N.		1200		
Moderate Sea.		1300		
Barometer 29.96		1400		
Therm. att. 78°		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				

REMARKS:

P.L. = 67.3

11—1023

Amski

No. Dr. 4701. Date 26 Dec., 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2265 fms.

Shot ~~or lead~~ 60# with J. Co Tubes.

Bottom r-d. C.

Bottom temperature 35.8

No. of thermometer 108026. Cor. 0°

Corrected temperature 35.3

Air 75° Surface 72° (II) Drift 0.2 mile NNE

Trawl or dredge { I. 1 returned. II. 8-ft. Tanner, Medboy, 2 Butterflies, 2 flotts, 2 wing-dis Halibut, 1 baby pl. shackles.

am. SOUNDING WIRE. DOWN.	UP.	TURNS.	am. DREDGE ROPE. DOWN.	UP.
8: 06.10	8.57.40	0	10.00.00	1-54-30
07.20	56.40	100	03.35	50-45
08.20	55.45	200	06.55	47-00
09.05	54.50	300	10.15	43-35
10.05	53.55	400	13.35	40-15
11.00	53.00	500	22.15	36-50
12.00	52.00	600	25.20	33-05
13.00	51.00	700	29.00	29-15
14.00	50.00	800	32.30	25-20
15.00	48.55	900	35.20	22-00
16.10	47.50	1000	38.40	18-20
17.10	46.40	1100	41.40	14-10
18.10	45.30	1200	44.45	10-10
19.15	44.22	1300	48.10	06-00
20.20	43.12	1400	51.25	1-02-00
21.25	42.00	1500	54.35	58-10
22.25	40.45	1600	58.00	54-20
23.30	39.25	1700	11: 01.30	51-00
24.35	38.05	1800	05.00	47-30
25.45	36.45	1900	08.30	44-00
26.55	35.20	2000	11.50	40-20
28.00	34.00	2100	15.20	36-30
29.10	32.40	2200	18.20	31-20
8: 29.30	8: 31.30	~~2300~~ 2265	22.00	25-50
		2400	11: 25.50	12-20-30

Slight N.W. drift while sounding.

watch ahead 6 min.

Δ. ~~SOUNDING~~ WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
I. Intermediate Haul		2500	11: 29.20	12-15-00
as before:		2600	32.25	9-50
9:03.30 am.	9.56.00	0 2700	36.00	12 4-40
07.25	50.50	100 2800	11: 39.10	11-59-10
11.00	46.40	200 2900		
14.30	41.45	300 3000	Dredged	20 min.
9:17.50	9:37.50	400 3100		
= Towing 20 min.		3200		
at 300 fms. depth with		3300	Lat. 19° 11' 30" S.	
400 fms. cable.		3400	Long. 102° 24' 00" W.	
Lat. 19°10'48" S.		3500	Cloudy	
Long. 102° 24' 24" W.		3600	Lt. br. from NE by N.	
Cloudy. Course, N 23° E. 1.4 m.		3700	Moderate Sea	
Lt. br. from E NE		3800	Bar. 29.97	
Bar. 29.96		3900	Therm. att. 82°	
Therm. att. 81.1°		4000	Course, N N E.	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Surface	75.0°	104922	-.3	74.7°
25	72.8°	108155	-.2	72.6°
50	71.0°	109635	-.1	70.9°
100	68.8°	108154	-.3	68.5°
200	50.9°	108151	-.5	50.4°
300	44.2°	104914	-.7	43.5°
400	41.9°	108156	-.6	41.3°
500				
600	39.6°	104924	-.6	39.0°
700				
800	37.9°	108025	-.7	37.2°
900				
1000	Water Cup & Kofoid Net attached			

11—1023

REMARKS:

Lowered 1-59-00

Down to 800 fms. 2-23-00 } 5 minutes

Started to heave up 2-28-00 }

Up at 2-51-00

De Long.

No. Dr. 4702 Date 26 Dec/04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 75° Surface 73° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Cloudy		0	4' Surface Net	
Light breeze NE by E.		100	from port boom	
Smooth sea		200	and 2 Kofoids	
Bar. 29.93		300	towing astern	
Ther. att. 79°		400	Out	In
Lat. 18° 39.5'		500	PM	
Long. 102°		600	7-46-30	8-06-30
		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				

REMARKS:

1760: 5280 = 3
5180

29
6.7
22.3
12
211

1760: 8000 = 4
7040