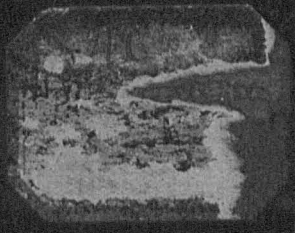
#2. Eastern Pacific.

D^{r} 4623 to D^{r} 4672.

Hy.

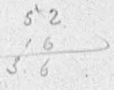
Oct. 21st to Nov. 21st, 1904.

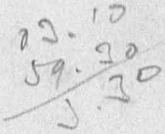


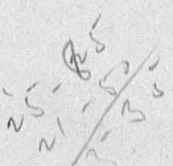
No 2, 1904-05.

Dr. 4623 – Dr. 4672.

Hy. 4504 – Hy. 4508.







507 Arikil

11—1023

No. Dr. 4624 Date 21 Oct. 04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature No Sdg.

No. of thermometer Cor.

Corrected temperature

Air 82° Surface 74° Drift

Trawl or dredge Plankton Haul.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
pm. DOWN.	UP.		pm. ~~DOWN.~~ out	~~UP.~~ in
Two Kofoids towing		0		
astern as before,		~~100~~	7.03.00	7.23
		200		
and		300	= 20 min.	
		400		
Surface Tow Net		500		
from p.l.b.		600		
1 Haul, with lectr. light,		700	7.03.00	7.23
		800		
		900	= 20 min.	
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

(Same as 23)

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
Fair.		2800		
Lt. airs, NW.		2900		
Smooth sea		3000		
Bar. 29.74		3100		
Ther. at 82°		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:

#4623 is a 6-58 N. 80-46 W. Pump Filter Station, as are also Nos 4625-26, both inclusive. 25, 6-00 N. 79-33 W. 26 6-55 N. 79-32 W.

DeLong

Dr. No. 4627 Date Nov. 2/04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 82° Surface 81 1/2° Drift

Trawl or dredge Plankton haul.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. Out	UP. In
		0	P.M.	P.M.
		100		
5-ft Surface		200	7-07-30	7-27-30
from Fort Boo		300		
(Elect Light att)		400		
		500		
		600		
		700		
12" K Lead #12 Sills		800	7-07-30	7-27-30
14" K Lead #20 Sills		900		
		1000		
Towing astern		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		
Fair		2700		
Light Breeze		S-S.E.		
Smooth Sea		2900		
Ther, att. 84°		3000		
Bar. 29-70		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. 7°. 21. 3 N.
λ (long) 79°. 55.8 W.

Nos. Δ-4628-29, both inclusive, are pump-filter stations.

7-15 N 80-55 W
6-55 " 87 42.50 W.

p.l. 61.9

Arn/vi/1

No. 4630, Dr. Date 3 November 04.

Lucas Machine. Reel. Lucas

Turns ~~556~~ Cor.+ – 0 Depth 556 fms

Shot ~~or lead~~ 35# and Snapper

Bottom gn. S.

Bottom temperature 41°

No. of thermometer 98241. Cor. 5

Corrected temperature 40.5

Air 79° Surface 81° Drift

Trawl ~~or dredge~~ 9' Bl.-Alb. as described below x)

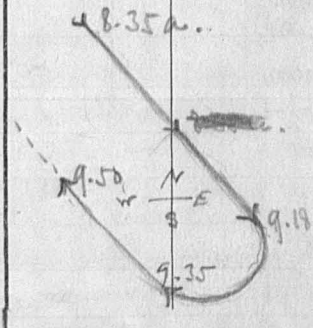
am. SOUNDING WIRE.		TURNS.	am. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8.09.00	8.25.00	0	8.35.00	10.26.40
10.30	23.40	100	39.20	22.00
11.30	22.30	200	42.40	17.30
12.30	21.15	300	46.00	14.00
13.35	19.55	400	48.30	10.10
14.14	18.30	500	52.30	06.00
8.15.30	8.17.30	556 ~~600~~	56.00	10.02.00
		700	8.59.15	57.00
		730	9.09.30	
		800	9.18.30	9.50.30
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

x) with Sinker; plain and ball-bearing swivel Shackles; preventer guy; 2 butterflies; 2 floats; mudbag; cheese cloth lining lower part net.

Trawling from 8:59 to 9:50 = 51 min.

19 min SE. and 32 " NW.

at 8:50, while running out wire fouled on drum and had to be hove in a few fms. Clear at 8:52 and running out. 9.07:45 paid out 50 fms. more, and at 9:15 veered out to 800 fms.



Dr. Course.

C. 1½ when hearing in; of hard. Set watch back 9 mins at end.

6-53: N. 87. 42.5 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		

Dr. Course: SE to 9:18, then turned rd to N.W.
Cloudy
Lt. airs from West,
Smooth sea.
Bar. 29.82
Therm. att. 82°

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 had fouled around the beam;

507 Arm K. Veith from 11-50 A. pl. 71. 9 11—1023

No. Dr. 4631. Date 3 November 04

Lucas Machine. Reel. Lucas.

Turns — Cor.+ — Depth 774 fms.

Shot ~~or lead~~ 3 off with Snapper.

Bottom gn. Sd.

Bottom temperature 38.5°

No. of thermometer 98241. Cor. 5

Corrected temperature ~~79~~ 38

Air 85° Surface 82° Drift

Trawl or dredge 9 Bl. Albatross see *

am. SOUNDING WIRE.		TURNS.	Pm. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11.45.55	12-7-20	0	12-14-15	2-25-00
47.20	6-00	100	18-00	20-50
48.30	4-50	200	21-20	16-45
49.40	3-35	300	24-40	12-05
50.50	2-20	400	28-10	08-30
52 —	12-01-00	500	31-40	05-00
53.10	59-40	600	32-00 36-00	2-01-00
54.25	58.25	700	39-30	57-20
55.20	11-57-30	774 800	42-50	53-00
		900	46-30	48-45
* as before with addition of 2 tail weights.		1000	51-10	43-40
		1100	53-00 57-45	36-40
		1200	~~1-05-45~~ ~~09-30~~	1-29-30
		1209 1300		*1-28-30
		1400		
		1500	* Veered 9 fms.	
		1600	Occasional strain on	
		1700	wire.	
		1800		
		1900	Trawled for	
		2000	30 min.	
		2100		
		2200		
		2300		
		2400		

6-26 N. 81-49 W.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
Dr. Course = NW.		2700		
		2800		
Cloudy. Lt. airs from		2900		
WSW.		3000		
Bar: 29.78		3100		
Therm. att'd. 84°		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:

4632-33 Pumps filled Stations.

5 - 48.8 N. 82 - 16.3 W. = 46

4 - 40 N. 82 - 24.4 W. 46 33

Dekong 4805

No. ~~44.4504~~. Date Nov. 3/04

Lucas Machine. Reel.

Turns — Cor.+ — Depth 1885

Shot ~~or lead~~ 60# with Snapper

Bottom Trace of Green Mud

Bottom temperature 37°

No. of thermometer 98271 Cor. 6

Corrected temperature 36°.4

Air 82 Surface 84 Drift

Trawl or dredge

SOUNDING WIRE. DOWN. (PM)	SOUNDING WIRE. UP. (PM)	TURNS.	DREDGE ROPE. DOWN.	DREDGE ROPE. UP.
10-15-45	11.17-15	0		
11-17-10	15-35	100		
-19-0	14-15	200		
20-0	13-0	300		
20-50	11-30	400		
21-50	09-10	500	Set Screw worked out	
22-50	07-15	600		
23-50	05-30	700		
24-50	03-40	800		
25-50	02-0	900		
26-50	11-00-00	1000		
28-0	58-10	1100		
29-0	56-10	1200		
30-0	54-0	1300		
31-10	52-10	1400		
32-25	50-05	1500		
33-30	48-45	1600		
34-30	45-30	1700		
35-45	42-35	1800		
10-37-0	10-39-45	1885 1900		
Down 3 min		2000		
		2100		
		2200		
		2300		
		2400		

5° - 36 N. 82 - 28 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				

REMARKS:

Lat 5° 36.4' N.
Long. 82° 28'

pl. 34.0

507 11—1023

No. Dr. 4634 Date 4 Nov. 1904.

Lucas Machine. Reel. Lucas

~~Turns~~ ~~Cor.~~ Depth 1729 fms.

Shot ~~or lead~~ 60# of Sigsbee Sty. Cup.

Bottom gn. M. Globe.

Bottom temperature 36.5

No. of thermometer 98241 Cor. 6

Corrected temperature 35.9°

Air 83° Surface 80° Drift

Trawl or dredge: Plankton Vertical Haul.

am. SOUNDING WIRE. DOWN.	UP.	TURNS.	am. DREDGE ROPE. DOWN.	UP.
10.36.00	11.42.20	0	3 Vertical	
37.20	39.30	100	Kofoid	
38.30	37.20	200	Nets, with	
39.30	35.05	300	300 fms. line	
40.20	32.45	400	from dory's	
41.15	30.20	500	after davit:	
42.10	28.00	600	down -?-	up:
43.10	25.35	700		11.48-12.07
44.10	23.05	800		
45.15	20.30	900		
46.20	18.00	1000		
47.30	15.30	1100	Line, when heaving	
48.40	13.05	1200	up, in large	
49.50	10.35	1300	angle and tending	
51.10	08.00	1400	first abeam,	
52.25	05.00	1500	then aft.	
53.40	11.02.00	1600		
54.55	59.45	1700		
10.55.30	10.57.35	1729 ~~1800~~		
		1900		
60# Shot did not		2000		
detach and		2100		
was hove up.		2200		
		2300		
		2400		

4-35.40 N. 83-32.30 W.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
Clear.		2800		
Gentle breeze from SSW.		2900		
Moderate sea.		3000		
Bar. 29.81		3100		
Therm. Att. 82°		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. D. 4635 Date 4 November

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 79° Surface 79° Drift

Trawl or dredge Plankton Haul

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Two Kofoids towing astern		0	P. M.	P. M.
		100	7-32-00	7-54-00
		200		
		300		
Surface Tow Net from port boom		400		
		500	7-32-00	7-54-00
		600		
Haul with electric light.		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

3-52.5 N 84-14.3 W

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
		2800		
Clear		2900		
Lt. breeze from		3000		
SSW.		3100		
Bar. 29.76'		3200		
Therm. att 80°		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:

Pump Filter Station at same time & same No. (4635)

Lat. 3° 52.5' N.
Long. 84° 14.3' W.

507 Dehong. 11—1023

No. Hyd. ~~4505~~ 4806 Date Nov 5/04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1705

Shot ~~or lead~~ 35# & Snapper

Bottom gn M. Globe

Bottom temperature 37°

No. of thermometer 98241 Cor. 6

Corrected temperature 36.4

Air 77 Surface 78 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
~~DOWN.~~ A.M.	~~UP.~~ A.M.		DOWN.	UP.
2-50-10	47-0	0		
52-50	44-50	100		
54-30	43 30	200		
56-15	41-10	300		
57-30	39.00	400		
58-50	37 50	500		
3-0-10	36-20	600		
1-50	35-55	700		
3-15	34-30	800		
4-55	33-10	900		
6-05	31-45	1000		
7-50	30-15	1100		
9-20	28-45	1200		
11-0	27-15	1300		
12-30	25-50	1400		
14-15	24-10	1500		
15 50	22-20	1600		
3-17-10	3-19 30	1700 1705		
		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:

Lat. 3° 11.6' N.
Long. 84° 07.43' W. ✓

Arrival

No. Dr. 4637 Date 5 Nov. 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1541 fms

Shot ~~or lead~~ 35 ft and Snapper.

Bottom Lge Globe ltgn Oz.

Bottom temperature 77° x)

No. of thermometer 98241 Cor.

Corrected temperature No reading

Air 75° Surface 77° Drift

Trawl or dredge 3 vert. Kofoids, dorsy dants.

pm. SOUNDING WIRE. DOWN.	UP.	TURNS.	pm. DREDGE ROPE. DOWN.	UP.
9.10.00	9.57.35	0	Recorder at 5 dg. Mob. while nets went down.	10.19
11.05	55.40	100		
12.10	54.00	200		
13.20	53.30	300		10.02.00
16.20	52.10	400		
17.30	51.00	500		
18.45	49.35	600		
20.00	48.15	700		
21.15	46.55	800		
22.40	45.30	900		
24.00	44.00	1000		
25.20	42.30	1100		
26.50	41.00	1200		
28.20	39.30	1300		
29.45	38.00	1400		
31.15	36.25	1500		
9.31.50	9.35.15	1541 ~~1600~~		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

x thermometer was turned when detached from stray line.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
Cloudy.		2800		
Gentle breeze South		2900		
Moderate sea.		3000		
Bar. 29.84		3100		
Therm. at 78°		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				64.5 60.1
300			8.02	
400				
500				
600				
700				
800				
900				
1000				

11—1023

REMARKS:

Lat. 1° 31' N.
Long. 86° 32' W.

4636 is a pump filter station.
2 - 44.5 N. 88 - 23.5 W.

507 Veith / De Long P.L. 81.6 11—1023

No. Dr 4638 Date 6 November '04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1450

Shot or lead 35 lb. & Snapper

Bottom Glob. Ooze. Black & Grey.

Bottom temperature Ther. failed to trip.

No. of thermometer 98291 Cor. —

Corrected temperature No reading

Air 74° Surface 75° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
A.M.	A.M.		AM	AM
7-35-40	16-45	0	5 ft Surface	
36-50	15-05	100	Net from Port	
37-55	13-55	200	Boom as Veloro	
39-00	12-45	300	Out	Inn
40-05	11-25	400	9-26-30	9-36-50
41-15	10-10	500		
42-30	08-50	600		
43-45	07-25	700		
45-05	06-05	800		
46-25	04-40	900		
47-50	03-15	1000		
49-15	01-50	1100		
50-35	8-00-10	1200		
52-00	58-50	1300		
53-25	57-05	1400		
54-05	7-56-10	1450 1500		
		1600		
Lat 0-27' N		1700		
Long 87°-13' W.		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

? 0-27 N. 87-13 W.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. AM	UP. AM		DOWN.	UP.
2 Vertical	Kofoids as before	2500		
from Dory's after Travit		2600		
Down	Up.	2700		
8-25-30	9-25-30	2800	Stopped heaving in	
8-37-40	8-53-50	2900	at 8-59-30 - Began	
300 fath.		3000	heaving in again	
		3100	at 9-14-45	
		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:

Bar. 29.87
Ther att. 77
Sea Smooth
Light Breeze S-S-W
Sky overcast.
Includes a pump filter collection

507 p.l. = 12.6 11—1023

Arnkil

No. Dr. 4639. Date 6 Nov. 1904

Lucas Machine. Reel. Lucas

Turns 1418 Cor. + - 0 = Depth 1418 fms

Shot ~~or lead~~ 35 ft and Snapper

Bottom Lt gy globe Oz

Bottom temperature 36°

No. of thermometer 98241. Cor. 6

Corrected temperature 35°.4

Air 77° Surface 76° Drift

Trawl or dredge Plankton Haul

pm SOUNDING WIRE.		TURNS.	pm. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1.04.25	1.41.10	0	Surface Townet,	
05.45	39.55	100	p.l. boom	
06.55	38.55	200	and 2 Kofoids	
08.00	37.55	300	from stern	
09.00	36.50	400		
10.05	35.45	500		
11.15	34.40	600	out =	in =
12.25	33.30	700	1.44.10	1.59.10
13.35	32.20	800	= towing	15 min
14.55	31.05	900		
16.05	29.55	1000		
17.25	28.35	1100		
18.45	27.20	1200		
20.00	26.00	1300		
21.20	24.45	1400		
1.21.40	1.24.15	1418 ~~1500~~		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
Fair,		2700		
Moderate Sea and		2800		
Swell from S.S.E.		2900		
Moderate breeze, South		3000		
Bar. 29.82		3100		
Ther. Att. 79.5		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				

REMARKS:

Lat. 0° 04' S.
Long. 87° 39.5' W. ✓

507 Veith P.L. 38.6 11—1023

No. ~~H 4506~~ 4807 Date 6 Nov. 1904

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1433 fms.

Shot ~~or lead~~ 35 lbs. & Snapper

Bottom gy. Oz.

Bottom temperature Foul Thermometer

No. of thermometer 98241 Cor.

Corrected temperature No reading

Air 75° Surface 75° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P.M.	P.M.			
5-00-00	5-37-45	0	37-45	
01-10	36-40	100	36-40	
02-15	35-35	200	35-35	
03-20	34-30	300	34-30	
04-30	33-25	400	33-25	
05-40	32-15	500	32-15	
06-50	31-00	600	31-00	
08-00	29-40	700	29-40	
09-10	28-20	800	28-20	
10-25	27-00	900	27-00	
11-40	25-40	1000	25-40	
13-00	24-15	1100	24-15	
14-15	22-55	1200	22-55	
15-30	21-25	1300	21-25	
16-45	20-00	1400	20-00	
17-20	5-19-20	1433 1500	5-19-20	
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
Cloudy		2700		
Lt. to gentle breeze SSW.		2800		
Barom. 29.76"		2900		
Therm. attached 78°		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. 0°. 21'. S.
Long. 87°. 57.5' W.

Delong.

Dr. No. 4640 Date 6 Nov. 1904

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1061

Shot ~~or lead~~ 35# & Snapper

Bottom- Snapper closed but empty

Bottom temperature 38°

No. of thermometer 98241 Cor. 6

Corrected temperature 37.4

Air 74° Surface 73.0 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
P.M. DOWN.	P.M. UP.		DOWN.	UP.
8-59-30	28-30	0		
9-01-30	27-00	100		
02-10	25-45	200		
03-10	24-40	300		
04-15	23-20	400		
05-20	22-10	500		
06-30	21-00	600		
07-10	19-40	700		
08-30	18-30	800		
10-15	17-15	900		
11-40	15-45	1000		
9-12-15	9-14-15	1061		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5 ft Surface Net		2500	14" Kofoid #20 Silk	
from Port Boom		2600	12" Kofoid #12 Silk	
(Elect Light att)		2700	Towing Astern	
Out.	In.	2800	Out	In
PM	PM	2900	8-32-30	8-52-30
8-32-30	8-52-30	3000	P.M.	
		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 - 0 - 39.4' S
Long. 88° 11' W.

Bar. 29.84
Ther att. 77
Overcast
Smooth Sea
Light Breeze S.

p.l. = 65.8

(Trawl)

No. Dr. 1641. Date 7 Nov., 04.

Lucas Machine. Reel. Lucas

Turns 633 Cor. + 0 Depth 633 fms.

Shot ~~or lead~~ 35 ft with Sinker

Bottom Lt. gy. glob. Os.

Bottom temperature 40°

No. of thermometer 98241. Cor. 0

Corrected temperature 39.5°

Air 76° Surface 74° Drift

Trawl ~~or dredge~~ 8' Bl.-416. as below x)

am. SOUNDING WIRE.		TURNS.	am. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8.01.20	8.27.00	0	8.24.00	10.01.00
02.50	25.35	100	39.00	56.00
04.05	24.05	200	43.00	52.40
06.05	22.40	300	47.30	49.00
09.25	21.10	400	53.15	45.40
13.00	19.50	500	59.30	42.00
15.10	18.30	600	9.03.10	37.35
8.16.00	8.18.00	633	07.00	33.00
		~~700~~ 750	9.16.00	9.30.30
		800		
x) with Sinker, b.b. and		900	= 20½ min.	
and plain Swivel shackle.		1000		
2 butterflies; preventer		1100		
guy; 2 floats. Mud bag		1200		
or tailrope; cheese cloth		1300		
lining in net.		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Dr. Cruise: ENE.		2500		
Clear, for clouds		2600		
Moderate breeze from S by W		2700		
		2800		
		2900		
		3000		
Moderate Sea		3100		
Bw. 29.86		3200		
Therm. 77°		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

Position = REMARKS:

Lat 1° 34.4' S

Long. 89° 30.2' W ✓

pl. 69, 8

No. Dr. 4642 Date 7 Nov., 04.

Lucas Machine. Reel. Lucas.

Turns ~~300~~ Cor.+ − 0 Depth 300 fms.

Shot or ~~lead~~ 35 ℔ with snapper

Bottom brk. Sh. Glob.

Bottom temperature 49°

No. of thermometer 98241 Cor. 4

Corrected temperature 48.6

Air 74° Surface 74° Drift

Trawl ~~or dredge~~ 8' Bl.-A. as before with 10 Tanks on frame at bottom of net.

am. SOUNDING WIRE.		TURNS.	am. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.27.00	10.43.25	0	10.55.00	53-40
28.20	42.00	100	57.30	50-30
33.00	40.50	200	11. 03.10	47.20
10.37.45	10.39.20	300	07.10	44.00
		400	11.15	39.45
Sd. wire not vertical;		500	11.15.00	11.34.45
angle about 45°		600	= 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		
Dr. Course, Eby N ¾ N		2700	(: Eby N ¾ N)	
Fair		2800		
Mod. breeze from SSE.		2900		
Mod. Swell		3000		
Bar. 29.84		3100		
Ther. Att. 81°		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:

Position:
Lat. 1° 30.5' S.
Long. 89° 35' W.

Veith

P.L. 85.4

No. Dz. 4643 Date 7 Nov. 04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 100 fms

Shot ~~or lead~~ 35 lbs. and Snapper

Bottom Brk Sh. Glob.

Bottom temperature 67.2°

No. of thermometer 98241 Cor. +0

Corrected temperature 67.2

Air 76 Surface 74° Drift

Trawl or dredge 8' Blake Albatross as before ×
10 Tangle-Swivels

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
~~P.M.~~	~~P.M.~~			
1-41-15	1-46-30	0	1-57-15	2-38-00
43-00	1-45-00	100	48-45	
			2 10-00	33-00
		200	13-55	2-28-45
		300		
		400		
		500		
		600		
		700		
× plain & pat. swivel		800		
two tail weights		900		
10 tangles on frame		1000	× stopped letting out	
at bottom of net		1100	wire at 48 fms to	
		1200	allow dredge to clear	
1 tangle lost		1300	ship - lowered at	
when dredge came up		1400	2-09-00	
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Br. Course	NW. x W.	2500		
		2600		
Fair		2700		
Mod. breeze from SSE		2800		
Mod. swell " "		2900		
Barometer 29.84"		3000		
Therm. attached 81°		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. 1° 28.7" S. ✓
Long. 89° 48.5" W.

507 Pat Log 315 11—1023

DeLong

No. Dr. 4644 Date 7 Nov./04.

Lucas Machine. Reel.

Turns Cor.+ Depth 1752

Shot ~~or lead~~ 35# with Snapper

Bottom Glob. Ooze. very fine light grey.

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 72° Surface 72° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
P.M. DOWN.	P.M. UP.		P.M. DOWN.	P.M. UP.
8-33-0.	22-15	0	5 ft. Surface Net	
34-15	20-45	100	from Port Boom	
35-30	19-40	200	(Elect Light att)	
36-40	18-30	300	Out	In
37-50	17-15	400	8-2-40	8-25-30
39-05	16-05	500		
40-15	14-55	600		
41-30	13-35	700		
43-00	12-25	800		
44-30	11-15	900	12" Kofoid #12 Silk	
45-00	10-00	1000	14" Kofoid #20 Silk	
47-20	8-45	1100	Towing astern,	
48-45	7-30	1200	Out	In
50-00	6-5	1300	8-2-40	8-25-30
51-20	4-45	1400		
52-40	3-15	1500		
54-00	1-55	1600		
55-25	9-0-30	1700		
8-56-20	8-59-30	1752 1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2- 13'3 S, 89-42.2 W.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
		2600		
		2700		
Fair		2800		
Mod. Brge S-S-E		2900		
Mod Swell		3000		
Bar. 29.89		3100		
Ther. att. 76°		3200		
Lat. 2° 13.3' S		3300		
Long 89° 42.2 W.		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 Vaith. pl. = 27.6 11—1023

No. Dr. 4645 Date 8 Nov. 04.

Lucas Machine. Reel. Lucas

Turns — Cor.+ — Depth 1955 fms.

Shot ~~or lead~~ 35 ℔ and Snapper

Bottom Lt gy fine glob O_3.

Bottom temperature 35.8

No. of thermometer 98241 Cor. 6

Corrected temperature 35.2

Air 70° Surface 70° Drift ?

Trawl ~~or dredge~~ 8' Bl. Alb. as below x)

am. SOUNDING WIRE. DOWN.	UP.	TURNS.	am. DREDGE ROPE. DOWN.	UP.
8.05.30	8.58.00	0	9.08.45	1-03-00
06.45	56.45	100	13.30	58-40
08.00	55.45	200	17.15	54-45
09.10	54.40	300	20.30	50-50
10.20	53.35	400	23.45	47-00
11.30	52.30	500	27.20	42-50
12.45	51.25	600	30.45	39-20
14.00	50.15	700	35.00	35-35
15.15	49.05	800	38.45	31-30
16.30	47.55	900	42.30	28-10
17.55	46.40	1000	46.00	24-25
19.15	45.20	1100	51.00	20-25
20.35	44.05	1200	55.00	16-20
21.55	42.45	1300	59.30	12-15
23.20	41.25	1400	10.03.00	8-10
24.45	40.00	1500	07.30	12-4-55
26.15	38.30	1600	11.50	11-59-55
27.45	37.00	1700	16.00	55-40
29.15	35.30	1800	19.50	51-20
30.40	34.00	1900	23.40	47.00
8.31.45	8.33.00	1955 2000	27.20	43.25
		2100	31.05	39.30
		2200	34.50	35.30
		2300	38.30	31.00
		2400	10.42.00	11.25.05

x with Sinker, plain and swivel shackles; 2 b. fls.; floats; prov. guy; mud bag; 2 tailrots.

Note: Wire stretched 5 fms.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat.	3° 47.5' S	2500	10. 45. 20	11. 15. 20
Long.	89° 25' W	2600	= Trawling 30 min.	
Dr. Course	W by S. *)	2700		
Overcast		2800		
Lt. breeze, SSE, to		2900	gentle breeze	
Moderate Swell		3000		
Bar. 29.94		3100		
Therm. at. 75°		3200		
		3300		
		3400		
		3500		
		3600		
No bottom		3700	sounding.	
		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:

*) Current setting to the Southward, against the wind.

Lat. 3° 37.6" S
Long. 89° 43.1" W

507 DeLong Artificial 11—1023

No. 4646 Dr Date Nov 8/04

Lucas Machine. Reel. Lucas

Turns — Cor.+ — Depth 2058 fms

Shot ~~or lead~~ 35 ft + Snapper

Bottom lt. gy. + br. glob. O_3.

Bottom temperature 36°

No. of thermometer 98241 Cor. —6

Corrected temperature 35.4

Air 72° Surface 70° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
pm DOWN.	UP.		PM DOWN.	PM. UP.
8-16.30	9.17.30	0	5 ft 000 net	from Dredge Boom
18.00	16.00	100	2-14" #20 net	
19.10	14.30	200	Lowered to 300 fath	
20.20	13.00	300	& towed 20 min	
21.30	11.45	400	at that level	
22.40	10.30	500	Out	In
24.00	09.10	600	7-7-30	8.06.00
25.10	07.50	100 ~~700~~	-14-30	8-01.30
26.30	06.25	200 ~~800~~	18-16	56.35
27.50	05.00	300 ~~900~~	22-30	52-20
29.10	03.30	400 1000	7-27-00	7-47.00
30.40	01.55	1100		
32.00	7.00 20	1200		
33.15	58.45	1300	400 fath wire	
34.35	57.15	1400	out	
36.00	55.45	1500		
37.20	54.15	1600		
38.40	52.40	1700		
40.00	51.00	1800		
41.25	49.20	1900		
42.50	47.35	2000		
8.43.30	8.45.55	2058 ~~2100~~		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
#000 Silk				
2 ft Surface		2500	12" Kofoid #12 Silk	
Put from Port		2600	14" " #20 "	
Boom Elect Light		2700	Towing astern	
att.		2800	Out	In
		2900	7-5-30	7-34-30
Out	In	3000		
7-5-30	7-34-30	3100		
		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100	Clear			
200	Gentle breeze from S E.			
300	Moderate Sea			
400	Bar. 29.82			
500	Ther. att. 76°			
600				
700				
800				
900				
1000				

11—1023

REMARKS:

Lat. 4° 01.6 S
Long. 89° 16.3 W. ✓

Veth / De Long. P.L. 77.1

No. D.L. 4647 Date 9 November 1904

Lucas Machine. Reel. Lucas

Turns — Cor.+ — Depth 2005 fms.

Shot ~~or lead~~ Shot (35#) and Snapper

Bottom lt. glob. Oz. mixed with bn.

Bottom temperature 36°

No. of thermometer 98247 Cor. 6

Corrected temperature 36.4

Air 72° Surface 70° Drift

Trawl or dredge 8' Blake Albatross * w below

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. A.M.	UP.		DOWN. A.M.	UP. P.M.
8-03-00	8-55-15	0	9-03-30	1-47-00
04-20	54-00	100	08-00	44-35
05-30	53-00	200	12-00	40-15
06-35	52-00	300	15-40	36-40
07-40	50-55	400	18-50	32-50
08-45	49-50	500	22-50	29-30
09-55	48-40	600	26-30	26-10
11-00	47-30	700	30-15	23-10
12-10	46-20	800	34-00	19-15
13-20	45-10	900	37-30	14-30
14-35	44-00	1000	41-10	11.00
15-50	42-50	1100	45-00	07-45
17-00	41-35	1200	48-50	04-00
18-15	40-25	1300	52-40	1-00-15
19-35	39-10	1400	56-15	56-40
21-00	37-50	1500	59-40	52-50
22-30	36-25	1600	10-3-40	48-10
24-00	35-00	1700	7-25	43-30
25-30	33-30	1800	11-00	39-30
26-50	32-05	1900	14-20	35-35
28-10	30-30	2000	17-35	31 35
8 28-15	8-30-25	2005 2100	20-35	27-25
		2200	24-50	22-20
		2300	29-30	17-46
		2400	34-30	13-30

* with Sinker, plain & pat. Swivel, 2 Butterfly nets Mud Bag - 2 tail weights attached to bottom of sledge.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP. PM.
		2500	10-39-25	.08-40
		2600	44-10	12-04-00
		2700	48-50	59-20
		2800	53-20	55-10
		2900	57-40	50-40
		3000	11-02-30	11-41-00
		3100	11-10-30 *	
		3200	* Set watch to ship's time	
		3300	(Clock was set ahead 8m	
		3400	at 11-00 A.M.)	
		3500		
		3600	Dredged 30mi.	
		3700		
		3800		
		3900		
		4000		

Dredging course East

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Surface	71.6 =	read at 77.8	= 79.	
~~25~~	71.5	108026	N.S.	
50	59.4 59.0	108154	-.4	58.8 58.6
100	57.4 57.0	104914	-.6	56.7 56.4
200	51. 50.8	108025	-.4	= 50.4
300	46. 45.6	108151	-.6	45.3 45.
400	43.6 43.2	104922	-.6	42.8 42.6
500				
600	40.8 40.5	108156	-.6	39.2 39.9
700				
800	38.8 38.5	108155	-.7	37.9 37.8
900	Down 3 min 10 sec. 2 25 - - 2-28-10 PM			
1000	14" #20 K of oid at end of Cable - 800 fath.			

11—1023

REMARKS:

Cloudy
Gentle to mod. breeze from
S.E. x E.
Bar. 29.87"
Therm. att'd. 77°
Light swell from S.E.

Lat. 4°-33' S.
Long. 87° 42.5' W.

507 pl. 16.0 11—1023

Amphi

No. Dr-4648 *Date* 9 Nov. 04.

Machine. *Reel.*

Turns *Cor.+* *Depth*

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer *Cor.*

Corrected temperature

Air 72° *Surface* 70° *Drift*

Trawl or dredge x)

SOUNDING WIRE.		TURNS.	pm. DREDGE ROPE.	
DOWN.	UP.		DOWN. (I.)	UP.
		0	7.04.00	7.54.00
		100	08.00	49.50
		200	12.00	46.15
		300	15.00	42.30
		400	7.18.20	7.38.20
		500		
		600		
		700	x I. One 5' Tow.	
		800	net and 2 long	
		900	(#20) Kofoids on dr.	
		1000	wire (2 ft #000	
		1100	II. Kofoid with	
		1200	elec. light towing	
		1300	from p.l.s.	
		1400	III. 2 short (#12)	
		1500	Kofoids towing	
		1600	astern.	
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500	Lat. 4.° 42' S.	
		2600	Long. 87° 07.5 W.	
		2700	Fair, nearly clear.	
		2800	Gentle breeze, SE	
		2900	Moonrise 9pm	
		3000	Bar. 29.82	
		3100	Therm. 75°	
		3200	Dr. Cors S. 88 E.	
		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				

Pr.
7.04 − 7.21 = 17 min.

REMARKS:

Veith DeLong. P. I. 30.5 miles

No. D.S. 4649 Date 10 November '04

Lucas Machine. Reel. Lucas

Turns — Cor.+ — Depth 2235 fms.

Shot ~~or lead~~ 35 lbs. and Snapper

Bottom stky gy. M. (very fine)

Bottom temperature 36°

No. of thermometer 98241 Cor. -6

Corrected temperature 35.4

Air 71° Surface 70° Drift 1 mile E. x S.

Trawl or dredge 8' Blake Albatross ×

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
A. M.			A. M.	
8-00-00	6-00	0	9-13-30	1-38-15
4-20	4-50	100	17-30	34-35
5-25	3-40	200	19-50	31-20
6-30	2-30	300	24-00	28-10
7-35	1-20	400	27-30	24-50
8-45	9-00-00	500	30-05	20-35
9-55	58-00	600	32-45	17-30
11-05	56-40	700	36-30	13-55
12-10	55-20	800	39-10	9-55
13-20	53-55	900	42-00	06-35
14-30	52-25	1000	45-10	03-10
15-40	50-55	1100	48-25	1-00-05
16-55	49-20	1200	51-40	56-45
18-05	47-45	1300	55-05	53-20
19-20	46-00	1400	58-30	49-50
20-35	44-15	1500	10-1-50	46-10
21-50	42-35	1600	5-00	42-20
23-05	40-55	1700	10-10	38-45
24-20	39-20	1800	14-30	34-45
25-40	37-40	1900	18-05	31-25
26-55	36-00	2000	21-45	27-55
28-15	34-25	2100	25-20	24-25
29-30	32-40	2200	28-45	20-35
8-30-00	8-32-00	2235 2300	32-20	15-20
		2400	10-36-05	10-00

× with Sinker, plain & pat. Swivel, 2 tail weights — Mud Bag — 2 Butterfly nets

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			A.M.	
		2500	10-39-55	12-04-20
		2600	43-50	58-30
		2700	47-30	54-20
		2800	51-15	50-20
		2900	55-00	45-45
		3000	*10-59-10 / 11-10-10	11-40-00
		3100		
		3200	Set watch with ship's time	
		3300	Clock put ahead 11 min at	
		3400	11-00 A.M.	
		3500		
		3600	Dredged 30 min.	
		3700		
		3800	Stopped at 2530 coming up for 1½ min to put	
		3900	nut on Mach.	
		4000		

Drdg. course E. x S.

P.M. SERIAL TEMPERATURES

DEPTH.	TEMP.		NO. OF THER.	COR.	COR. TEMP.
Surface	71.	Read at 75.0			
	63.4	71.0	108026	n.s.	
25		63.2	108154	-.5	62.9
50	58.3	58.1	108156	-.5	57.8
100	56.1	55.9	108025	-.5	55.6
200	51.	50.8	108155	-.7	50.3
300	45.7	45.3	108151	-.6	45.1
400	43.4	43.1	104922	-.6	42.8
500					
600	40.6	40.2	104914	-.8	39.8
700					
800	39.7	39.5	104924	-.7	39.
900	Above left down 2 min. 20 sec. from				
1000	2-14-40	P.M. to 2-17 P.M.			

11—1023

REMARKS:

Clear
Gentle, mod. breeze from SSE
Bar. 29.89
Thermom attd. 78°
Mod. sea

Lat. 5° 17' S.
Long. ~~85°~~ 85° 19.5' W.

Station

No. D. 4650 Date 10 Nov. 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 0.8 miles

Trawl or dredge Intermediate and *)

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	7.03.40	7.52.00
—		100	07.40	48.15
		200	11.00	45.00
The Intermediate consists of 5-ft Cone Net and 2 long 20 Kofoids, on dredging wire		300	14.40	41.50
		400	7.18.20	7.38.00
		500	= 20 min.	
		600		
		700	*) 2-ft Kofoid	
		800	# 000 with clutch	
		900	light, from p.l.b.	
		1000	and	
		1100	Two short Kofoids	
		1200	# 12 towing astern	
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat.	5° ~~22.2~~ S.	2500	5-21 S	✓
Long.	84° 39' W.	2600	84-39 W	
Course, East.		2700		
Cloudy to clear.		2800		
Moderate breeze from		S. ~~2900~~		
Moderate sea.		3000		
Bar. 29.84		3100		
Therm. att. 74.3		3200		
		3300		
		3400		
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100	7:03	A.M. — 7.23 =	20 min.	
200				
300				
400				
500				
600				
700				
800				
900				
1000				

11—1023

REMARKS:

Veith P. L. 87.7

No. D.S. 4651 Date 11 Nov. '04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2222 fms

Shot ~~or lead~~ 60 lbs and Snapper

Bottom sticky. fine. gy. M.

Bottom temperature 36°

No. of thermometer 98241 Cor. —.6

Corrected temperature 35.4

Air 70° Surface 76° Drift at 1 mile Ex S.

Trawl or dredge 8' Blake Albatross same as before

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
A. M.			A. M.	
8-6-15	9-3-30	0	9-12-00	1-31-15
7-50	2-15	100	15-30	27-45
8-50	1-10	200	18-50	24-20
9-50	9-00-10	300	22-10	20-50
10-55	59-05	400	25-20	17-20
12-00	58-05	500	28-50	13-40
13-05	57-00	600	32-50	9-30
14-05	55-55	700	35-50	6-25
15-05	54-45	800	38-50	1-2-30
16-05	53-30	900	42-20	59-20
17-10	52-10	1000	45-35	56-00
18-15	50-45	1100	49-00	52-15
19-20	49-25	1200	52-15	48-10
20-30	48-00	1300	55-15	44-30
21-35	46-30	1400	58-30	41-00
22-45	45-00	1500	10-2-35	37-15
23-55	43-35	1600	6-10	33-30
25-05	42-05	1700	9-30	29-40
26-15	40-35	1800	12-45	25-25
27-25	39-00	1900	16-00	21-15
28-35	37-30	2000	19-20	16-45
29-50	35-55	2100	22-40	12-20
31-00	34-00	2200	26-35	08-00
31-20	33-30	2222 2300	29-50	12-03-45 A M
		2400	10-33-10	5-9-30

5-41.7 S, 82-59.7 W.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			A.M.	
		2500	10-36-40	55-20
		2600	40-20	51-20
		2700	43-55	47-45
		2800	47-15	44-15
		2900	50-30	39-00
		3000	*10-54-00	11-32-00
		3100	11-02-00	
		3200	*Set watch by ships time	
		3300	Clock set ahead 8 min at 11 P.M.	
		3400	Dredged 30 mi.	
		3500		
		3600		
		3700		
		3800		
		3900		
		4000		

Dredging exercise Ex S.

P.M.

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Surface	67.4 Decks Ther.			
	67.0	108026	N.S.	
25	60.4	108154	-.3	60.1
50	59.1	108151	-.27	58.8
100	57.9	108156	.35	57.5
200	52.0	104924	.66	51.3
300	49.0	108155	.76	48.2
400	45.0	104917	.6	44.4
500				
600	41.1	108025	.5	40.6
700				
800	40.1	104922	.6	39.5
900	14" #20 Silk Kinked at end of Dredge Cable (800 fath.)			
1000	Down at 2-07-25 - began coming up 2-12-50			

11—1023 Last ther. Reached surface at 2-36

REMARKS: Remained at bottom 5 min 25 sec.

Clear
Gentle breeze from SE.
Mod. Sea.
Bar. 29.94"
Therm. attached 73.5°

Set
Long.

DeLong

No. Dr 4651-A Date Nov. 11/04.

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		

P.M. SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
5 ~~25~~	Failed to trip	108154		
10 ~~50~~	61.9	104914	-.4	61.5
20 ~~100~~	60.9	108155	-.3	60.6
30 ~~200~~	60.1	104924	.35	59.9
40 ~~300~~	Failed to trip	108151	✓	
50 ~~400~~	59.0	104922	.34	58.7
75 ~~500~~	58.2	108025	-.3	57.9
100 ~~600~~	57.5	108166	-.37	57.1
700	Reached Bottom at 2-49-20			
800	Began to come up at 2-54-30			
900	Remained at Bottom 5 min 10 sec.			
1000	Last ther reached surface at 3-01-10			

11—1023

REMARKS:

Clear
Gentle Breeze SE.
Smooth Sea
Bar 29-74
Ther att. 78

Lat. 5° 41.7' S
Long. 82° 48.4' W

No. D.4652. Date 11 Nov. 04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 69° Surface 66° Drift

Trawl or dredge Intermediate× and Surface××

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
×) One 5' Cone Net and Two #20 Kofoids towing at 400 fms. depth with 500 fms cable		0	7.02.00	7.55-00
		100	05.30	51.50
		200	08.40	48.50
		300	12.20	45.40
		400	15.40	42.30
		500	7.19.10	7.39.15
		600		
		700	=1st haul 20 min	
		800		
		900		
××) One 2-ft #000 Kofoid and Two #12 Kofoids		1000		
		1100		
		1200	7.03 - 7.23 = 20 m	
		1300		
		1400		
		0 ~~1500~~	P. M. 8-11-00	8-48-45
Veith Intermediate One 5' Cone Net and 2 #20 Kofoids		100 ~~1600~~	14-30	45-15
		200 ~~1700~~	17-30	42-15
		275 ~~1800~~	20-00	8-40-00
		~~1900~~		
		~~2000~~	2nd Haul 20 min	
2nd Haul 200 fms depth with 275 fms cable		2100		
		2200	8-20 to	8-40
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		P. M.
3rd. Haul		~~2500~~ 100	8-59-30	9-28-00
Same Nos		~~2600~~ 130	9-3-00	25-00
		~~2700~~	4-00	9-24-00
100 fms	depth	~~2800~~		
130 "	cable	2900	3rd Haul 20 mi.	
		3000		
		3100	9-4 to	9-24 P.M.
		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. 5° 44.7 S. Course East
Long. 82° 39.5 W.
Clear
Lt. breeze from SE
Moderate Sea.
Bar. 29.85
Therm. at 75°

507 DeLong Arriki P.L. 76.2 11—1023

H. 4808.

No. ~~H.4507~~ Date Nov. 12/04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2312 fms.

Shot ~~or lead~~ 35# & Snapper.

Bottom Snapper found open coming up traces of bottom showed fine bl. M.

Bottom temperature 35.5°

No. of thermometer 98241 Cor. 6

Corrected temperature 34.9

Air 65° Surface 64° Drift

Trawl or dredge

am. SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
7- 6-30	8. 14-00	0		
7-45	12-30	100		
9-00	11-25	200		
10-05	10-20	300		
11-15	09-15	400		
12-30	08-00	500		
13-40	06.55	600		
14-55	05.45	700		
16-10	04.30	800		
17-25	03.15	900		
18-50	01.55	1000		
20-00	8. 00.30	1100		
21-15	59.05	1200		
22-30	57.40	1300		
23-50	56.05	1400		
25-15	54.35	1500		
26-30	53.10	1600		
27-55	51-20	1700		
29-10	50-1	1800		
30-30	48-10	1900		
31-55	46-10	2000		
33-15	44-50	2100		
34-40	41-35	2200		
36-10	39-00	2300		
7. 36-15	7. 38-20	~~2400~~ 2312		

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
Bar 29.94"
Ther Att. 71°
Lat. ~~5° 57.1~~ S. 5° 43.6' S
Long. ~~81° 46.6'~~ W. 81 43.8' W. ✓

507 p.l. 96.3 11—1023

Arnkil

No. Dr. 4653 Date 12 Nov. 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 536 fms.

Shot ~~or lead~~ 35 ft and Snipper

Bottom dk br vol M.

Bottom temperature 41.8°

No. of thermometer 98241 Cor. 5°

Corrected temperature 41.3

Air 66° Surface 65° Drift S. abt. 1 mile

Trawl ~~or dredge~~ 8-ft Bl.-Flb. as before

am. SOUNDING WIRE.		TURNS.	am DREDGE ROPE. pm.	
DOWN.	UP.		DOWN.	UP.
10.27.00	10.41.05	0	10.48.00	12-30-00
28.10	40.00	100	51.10	** 26-15 * 21-45
29.15	39.00	200	54.35	18-20
30.25	38.00	300	58.15	14-55
31.35	36.55	400	11.01.45	11-25
32.40	35.45	500	05.35	8-00
10.33.10	10.35.10	536 ~~600~~	09.30	4-30
		700	13.10	12-00-20
		800	11.17.00	11.55.00
		900	(fct clock	
		1000	8' ahead)	
		1100	= trawling	30 min.
		1200		stopped leaving dredge trending under ship's bottom
		1300		
		1400		* ahead
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Veith 12 M.

5-47 S, 81-24 W.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat. 5°47'S		2500		
Long. 81°24'W		2600		
Sd. Course South		2700		
Clear; hazy over land.		2800		
Gentle breeze, SE x E		2900		
Smooth Sea.		3000		
Bar. 29.97		3100		
Therm. att. 69°		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 Veith P. L. 99. 3 11—1023

No. Hy. ~~4808~~ 4809 Date 12 November 1904

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 685 fms.

Shot ~~or lead~~ 35 lbs. and Snapper

Bottom dk gn. M.

Bottom temperature 39°

No. of thermometer 98241 Cor. 5

Corrected temperature 38.5

Air 66° Surface 63° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P. M.				
1-1-00	1-19-35	0		
2-40	18-30	100		
4-00	17-30	200		
5-20	16-30	300		
6-40	15-30	400		
8-00	14-25	500		
9-10	13-00	600		
		685		
10-00	1-12-15	700		
		800		
		900		
		1000		
Lat. 5° 46.5' S		1100		
Long. 81° 26.9' W		1200		
Time 1-20 P. M.		1300		
		1400		
		1500		
Clear		1600		
Gentle breeze S S E.		1700		
		1800		
Barom.	29.91"	1900		
Therm attached	69.5°	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 Veith DeLong P.L. 4.3 11—1023

No. Dr. 4654 Date 12 November '04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1036 fms.

Shot ~~or lead~~ 35 lbs. and Snapper

Bottom dk bn. M.

Bottom temperature 37.9°

No. of thermometer 98241 Cor. 6

Corrected temperature 37.3

Air 66° Surface 64° Drift 1 mile SE.x E.

Trawl or dredge 8' Blake-Albatross-as before

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
P.M.			P.M.	
1-50-45	2-17-20	0	2-22-00	46-10
52-00	16-05	100	25-30	43-10
53-10	15-00	200	28-55	40-00
54-20	13-55	300	32-10	36-10
55-30	12-50	400	35-40	32-50
56-40	11-45	500	39-15	29-00
57-50	10-35	600	42-45	25-50
59-00	9-25	700	46-30	22-30
2-00-10	8-10	800	50-00	18-30
1-20	6-55	900	54-00	15-35
2-35	5-35	1000	58-05	12-00
3-00	2-5-00	1036 1100	3-2-00	8-10
		1200	6-00	4-4-00
		1300	10-15	59-15
		1400	14-30	54-50
		1500	3-19-00	3-49-00
		1600		
		1700		
		1800	Dredged	30 mi.
		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		

Dredging course SE x 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:

Clear & mod.
Gentle breeze from S/E.
Mod. sea

Bar. 29.89"
Therm attached 71.5°

Lat. 5° 46' S
Long 81° 31.9' W

507 DeLong 11—1023

No. Dr. 4655 Date Nov. 12/04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 66° Surface 65° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. P.M.	UP. PM
From dredge Boom		0	7-04-00	8-00-30
1-5 ft Conc Net		100	07-50	56-40
& 2-#20 Kofoids		200	11-20	52-35
Lowered to 400 fthms		300	14-25	49-20
500 fthms cable let		400	17-40	46-00
out and towed		500	7-22-00	7-42-15
for 20 min		600		
		700		
		800	Out	In
Tran Post Boom		900	7-04-30	7-24-00
2' Surface 000 Sills		1000		
Elect Light att		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
Towing astern —		1800	Out	In
1-12" Kofoid #12 Sills		1900	7-04-30	7-24-30
1-14" " #20 "		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:

Overcast
Smooth Sea.
Light Breeze S.S.E
Bar 29.92°
Ther Att. 70°

Lat. 5- 6'7.5 S.
Long. 81° 5-0' W.

p.l. = 40.4

Arnkr

No. Dr. 4656. Date 13 Nov. 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2222 fms.

Shot ~~or lead~~ 60 ft and Snapper

Bottom fre gn M. many Nod.

Bottom temperature 35.8°

No. of thermometer 98241. Cor. 6

Corrected temperature 35.2

Air 69° Surface 69° Drift N62°E., 1 mile

Trawl ~~or dredge~~ 8' ~~Tanner~~ Bd. as before.

am. SOUNDING WIRE.		~~TURNS.~~ Fms.	am. DREDGE ROPE. pm.	
DOWN.	UP.		DOWN.	UP.
8.04.50	9.05.10	0	9.14.30	* 1-36-00
06.05	04.00	100	18.30	32-30
07.05	03.00	200	22.20	29-15
08.00	01.55	300	29.00	26-00
09.05	9.00.50	400	32.20	22-30
10.10	59.40	500	36.10	18-50
11.10	58.30	600	40.00	16-00
12.20	57.10	700	43.55	12-50
13.25	56.00	800	52.45	9-30
14.40	54.35	900	56.15	6-15
15.45	53.10	1000	59.40	1-2-50
16.55	51.45	1100	10.03.05	12-59-00
18.05	50.10	1200	06.45	55-00
19.10	48.30	1300	10.25	51-00
20.20	46.50	1400	14.05	46-45
21.30	45.10	1500	17.20	42-30
22.45	43.25	1600	21.50	38-00
24.00	41.30	1700	25.25	33-30
25.15	39.45	1800	29.50	29-15
26.25	38.05	1900	33.15	25-10
27.35	36.20	2000	36.40	21-00
28.40	34.35	2100	40.15	16-55
29.50	32.45	2200	44.05	12-30
8.30.10	8.32.10	2222 ~~2300~~	48.00	8-00
		2400	10.51.15	12-3-20

Dredging cable stretched 10 fms.

6-54.6 S. 83-34.3 W.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat. 6° 54.6' S.		2500	10.57.00	12-58-30
Long. 83° 34.3' W.		2600	58.30	54-00
Dr. Course NEbyE½E		2700	11.02.00	49-30
Cloudy		2800	05.50	45.00
Lt. breeze from SEbyE		2900	09.40	40.50
Moderate Sea		3000	11.13.20	11.34.45
Bar. 29.95		3100	set clock	
Therm. at. 72.8°		3200	9' back. =	
		3300	Trawling 30 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:

507 DeLong

P.L. 91.5

11—1023

No. Dr. 4657 Date Nov 13/04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 70° Surface 69° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
~~DOWN.~~ PM	PM ~~UP.~~		~~DOWN.~~ PM	~~UP.~~
			Out	In
From dredge boom		0	7-4-00	5-4-00
1-5-ft Cone		100	8-00	5-0-30
2 #20 Kofoids		200	11-45	4-7-15
Lowered to 300 fath		300	16-15	4-4-00
on 400 fath Cable		400	7-20-30	7-40-30
& towed for 20		500		
minutes		600		
		700		
		800		
		900		
		1000		
Towing astern		1100	Out	In
1-14" Kofoid #20 Silk		1200	7-3-30	7-23-30
1-12" " #12 "		1300		
		1400		
		1500		
		1600		
		1700	Out	In
From Port Boom		1800	7-3-30	7-23-30
1-2 ft Surface 000 Silk		1900		
Elect light att		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:

Fair
Bar 29.83 Ther at 74°
Mod Brze S.E.
Mod Sea.

Lat 7° 12.5' S.
Long 84° 09' W.

507 1 p.l. = 6.1 11—1023

Aruki

No. Dr. 4658 Date 14 Nov. 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2370 fms.

Shot ~~or lead~~ 60 ft and Snapper.

Bottom fine gn. M. mang. Nod

Bottom temperature 35.9 6

No. of thermometer 98241. Cor.

Corrected temperature 35.3

Air 710 Surface 700 Drift N62°E. 1 mile

Trawl ~~or dredge~~ 8-ft Bl.-Alb. as before.

am. SOUNDING WIRE.		TURNS.	am. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8.02.30	9.02.00	0	9.07.00	1-59-30
03.40	9.00.45	100	10.35	55-25
04.55	8.59.40	200	14.15	51-35
06.00	58.35	300	17.30	47-45
07.05	57.30	400	21.15	44-30
08.05	56.25	500	24.55	41-00
09.05	55.15	600	28.15	37-05
10.05	54.10	700	31.50	33-10
11.10	53.00	800	35.30	29-45
12.10	51.55	900	39.00	25-55
13.15	50.45	1000	42.30	21-45
14.20	49.30	1100	46.00	17-30
15.25	48.10	1200	49.50	12-45
16.30	46.55	1300	53.15	8-45
17.35	45.40	1400	57.00	5-30
18.45	44.15	1500	10.00.30	1-2-00
19.55	42.50	1600	04.45	58-15
21.05	41.25	1700	08.30	54-30
22.15	40.00	1800	12.15	50-50
23.20	38.30	1900	16.00	46-50
24.30	37.00	2000	20.00	42-00
25.40	35.30	2100	23.30	36-55
26.50	34.00	2200	27.00	31-45
28.00	32.20	2300	30.00	26-45
8.29.00	8.31.00	2370 ~~2400~~	10.33.45	12-21-45

8-29.5 S, 85-35.6 W

SOUNDING WIRE. DOWN.	SOUNDING WIRE. UP.	TURNS.	DREDGE ROPE. DOWN.	DREDGE ROPE. UP.
Lat. 8° 29.5' S.		2500	10.37.30	12-20
Long. 85° 35.6 W.		2600	41.15	12 4-00
Dr. Course N62°E		2700	45.00	56-00
Overcast		2800	48.30	49.45
Gentle breeze, ESE		2900	52.00	43.45
Moderate Sea		3000	55.30	37.45
Bar. 29.92		3100	10.59.00	32.30
Therm. Att. 72.8°		3200	11.02.45	11.24.45
		3300	Set mark	
		3400	8' bank =	
		3500	Trawling 30 min.	
		3600		
		3700		
		3800		
		3900		
		4000		

Veithy 12-M

SERIAL TEMPERATURES

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

Notes: Dredge brought up very fine gy Ml. & mang. Nod. the latter averaging from 3 to 5"

11—1023

REMARKS:

Veith Cont

No. Dr. 4658 Date 14 November

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature No Sounding

No. of thermometer Cor.

Corrected temperature

Air 79° Surface 72° Drift

Trawl or dredge

SOUNDING WIRE. DOWN. P.M.	SOUNDING WIRE. UP.	TURNS.	DREDGE ROPE. DOWN. P. M.	DREDGE ROPE. UP.
		0	2-16-00	3-2-00
Tanner Intermediate		100	19-30	58-55
		200	22-45	56-00
Lowered to 300 fms		300	26-00	2-53-00
		400		
Sent messenger at 2-48-00		500		
		600		
		700	Towed 27 minutes	
		800	at 2-48 sent messenger	
		900	and at 2-53 began	
		1000	to heave in	
		1100		
		1200		
Overcast & cloudy		1300	Upon not coming	
Light breeze from E.S.E.		1400	up found it had	
Bar. 29.82"		1500	not tripped	
Therm. attached 80.7°		1600	Tripping lines twisted	
		1700	around cable; probably	
		1800	caused by ball-bearing	
		1900	swivel allowing net	
		2000	to revolve too easily	
		2100	on lowering.	
		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 DeLong (Smith) P.L. 44.4 11—1023

No. 4659 Date Nov 14/04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 70° Surface 71° Drift

Trawl or dredge

SOUNDING WIRE. DOWN. P.M.	UP.	TURNS.	DREDGE ROPE. DOWN. P.M.	UP.
5 Ft Bobbinett &		0	7-35-45	8.22.30
2-#20 Kofoids		100	39.20	19.20
from dredge Boom		200	42-40	16-00
lowered to 300 fath		300	46-00	12.30
on 400 fath cable		400	7.49-00	8.09.00
+ towed 20 min		500		
		600		
		700		
		800		
		900		
		1000		
		1100	Out	In
1-2' Surface 000 Sills		1200	7-03-30	7-23-30
from Port Boom		1300		
		1400		
		1500		
		1600		
		1700	Out	In
1-12" Kofoid #12 Sills		1800	7-02-30	7-23-30
~~1-14" " #20~~ "		1900		
Towing astern		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat. 8°.54.5'S ✓		2500		
Long. 86° 05.5' W		2600		
Clear		2700		
Lt. breeze SSE		2800		
Moderate Sea		2900		
Bar. 29.86		3000		
Therm. air. 74		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:

Cut off 10 fms. of dredging cable, it having fouled in the gin.

507. Veith DeLong.-12-50 P.L. 58.00 11—1023

No. Dr 4660 Date 15 Nov. '04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2425 fms

Shot ~~or lead~~ 60 lbs. & Snapper

* Bottom Mn. Nod.

Bottom temperature 36° 6

No. of thermometer 98241 Cor.

Corrected temperature 35.4

Air 71° Surface 69° Drift 1 mile NE×E ½ E.

Trawl or dredge 6' Blake - Albatross, with attachments as before, & additional weight (1150 lb.)

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
A.M.			A.M.	PM
8-04-00	9-6-10	0	9-11-00	all in 3-15-00
5-20	4-55	100	14-40	8-35
6-25	3-50	200	17-40	5-00
7-30	2-45	300	20-45	3-1-30
8-35	1-40	400	24-25	57-45
9-35	9-0-35	500	27-40	53-50
10-40	59-30	600	31-05	50-00
11-45	58-20	700	34-45	46-00
12-55	57-15	800	38-20	41-50
14-05	56-05	900	41-55	38-00
15-20	55-00	1000	45-15	33-45
16-35	53-50	1100	48-50	29-45
17-45	52-35	1200	52-15	25-50
18-55	51-20	1300	55-40	22-10
20-10	50-05	1400	59-00	18-10
21-15	48-40	1500	10 2-30	14-20
22-25	47-15	1600	6-00	10-20
23-35	45-55	1700	9-40	2-05-00
24-50	44-30	1800	13-15	59-00
26-00	43-00	1900	16-40	53-30
27-15	41-40	2000	20-00	48-10
28-30	40-10	2100	23-15	42-45
29-45	38-40	2200	26-40	37-15
31-00	37-05	2300	30-00	30-30
32-15	35-25	2400	33-50	1-21-45
32-45	8-34-50	2425		

* Bottom: Snapper contained only a particle of mang. Nod. Furnish Bottom from Dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			A.M.	PM
Net came up		2500	10-37-20	1-08-10
upside down		2600	41-10	AM 12-48-45
and hanging by		2700	44-35	42-00
bridle. Net slightly		2800	48-00	35-45
torn.		2900	51-20	12-12-15
		3000	54-50	46-50
		3100	58-30	37-30
		3200	11-2-00	11-26-00
		3300	10-54-00	
		3400	Set watch with ships time	
		3500	8 min. back	
		3600		
		3700	Dredged 32 min.	
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50	Overcast & cloudy			
100	Gentle & mod breeze			
200	from S E.			
300	Barom 29.96			
400	Therm attached 72.2°			
500	Mod. sea			
600	Dredg'g. course			
700	N E. x E. ½ E.			
800	Lat. 9° 15.6' S. ✓			
900	Long. 87° 30' W.			
1000				

11—1023

REMARKS: Cable stretched 10 fathoms

Net caught on bottom between 2900 & 3000. Stopped heaving in for 15 min on registered 4 to 4½

Stopped again 12-18½ for 12 min. Cum registering 4½ to 4

Stopped again for 2 min. at 2 7-8 Cu. 4½ to 4

Stopped at 1-14-15 for 6 min. Cu. at 4 3/4 to 5

Cum up to 2000 registered from 4¼ to 5

" from 2000 to 1000 " " 4 to 4½

Cu from 1000 to 0 - 2 to 4

507 Arn/ 1 p.l. = 93.7 at 7:00 pm 1023.

No. Dr. 4661. Date 15 Nov. 1904.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature No Sounding

No. of thermometer Cor.

Corrected temperature

Air 69° Surface 69° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	pm. DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
5' Bobbinett and		0	7.04.15	7.54.30
2 ⅌ 20 silk Kofoids,		100	07.45	49.45
400 fms wire.		200	10.30	45.45
(Intermediate)		300	15.00	42.30
		400	7.18.15	7.39.00
		500		
		600	= 20 3/4 min	
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
1 5' Surface net		1400		
with electric lt.		1500		
from p.l.b.		1600	out:	In
and		1700	7:04:15 —	7:24.15
7 12" Kofoid, #12 silk		1800	= Towing 20 min	
~~1 14" " 20 "~~		1900		
astern		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Lat.	10° 17'	S. 2500	✓	
Long.	88° 02'	W. 2600		
Fair, almost clear.		2700	1/4 moon.	
Southbreeze, S.E.		2800		
Bar. 29.90		2900		
Therm. at. 74°		3000		
Dr. Comte, N.E.		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, DeLong. P. L. 14.9

No. D.: 4662 Date 16 Nov. '04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2439 fms.

Shot ~~or lead~~ 60 lbs and Swapper

Bottom (see "Remarks")

Bottom temperature 35.8°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.2

Air 70° Surface 69° Drift ½ mile NE x E ½ E

Trawl or dredge 6' Blake Mbatross * see under "Remarks"

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
A. M.			AM	PM.
8-5-15	9-10-00	0	9-16-00	30-55
6-30	8-45	100	20-00	27-30
7-35	7-45	200	23-30	24-30
8-35	6-40	300	26-55	21-30
9-40	5-35	400	30-35	18-30
10-40	4-30	500	34-45	15-15
11-45	3-20	600	38-30	12-05
12-45	2-10	700	42-00	9-00
13-50	9-1-00	800	45-30	5-30
14-50	59-45	900	48-50	1-2-20
15-55	58-30	1000	52-25	58-30
17-00	57-10	1100	56-10	55-20
18-10	55-45	1200	59-45	52-00
19-15	54-25	1300	10-03-20	48-35
20-25	53-00	1400	7-10	45-45
21-35	51-35	1500	10-30	42-00
22-45	50-05	1600	14-30	38-10
24-00	48-25	1700	18-30	34-40
25-10	46-45	1800	22-10	30-55
26-20	45-10	1900	25-55	27-00
27-30	43-25	2000	30-00	22-35
28-45	41-50	2100	34-20	17-50
29-55	40-10	2200	38-25	13-10
31-05	38-30	2300	41-45	8-30
32-20	36-50	2400	45-05	12-02-50
8-33-30	8-36-00	2439		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			A.M.	
		2500	10-48-25	11-57-15
		2600	51-35	53-45
Position:		2700	55-10	46-20
Lat. 11° 13.8' S.		2800	58-45	40-35
Long. 89° 35 W.		2900	11-2-20	35-25
		3000	5-50	30-20
Dredg. course:		3100	9-20	25-30
NE×E. ½ E.		3200	* 13-00	11-19-00
		3300	11 4-00	
		3400	Set watch with ship's time	
		3500		
		3600	Dredged 15 min.	
		3700		
		3800		
		3900		
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25	Overast & cloudy (8 A.M.)			
50	Mod. breeze from		Net came up hange-	
100	S.E.		ing by bridle, upside	
200	Mod sea.		down ~~Lost & butterfly~~	
300	Barom. 29.96"			
400	Therm. attached 73.5°			
500				
600				
700				
800				
900				
1000				

11—1023

REMARKS:

*with weight, plain & pat. swivel, 2 tail weights at bottom of net – no mud bag – 2 Butterfly nets

*Bottom: Snapper came up without a trace of bottom. Character of bottom to be furnished when dredge comes up

DeLong

No. Dr 4662-Contin. *Date* 16 Nov./04

Machine. *Reel.*

Turns *Cor.+* *Depth*

Shot or lead

Bottom Mn.

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.
Deck Ther 70.0				
Surface	69.4	108026	n.s.	
25	69.2	108025	-.1	69.1
50	59.6	104924	-.3	59.3
100	54.0	104922	-.5	53.5
200	50.3	108155	-.6	49.7
300	46.8	108154	.63 ~~-.77~~	46.2
400	43.2	104914	.7	42.5
500				
600	40.0	108151	-.6	39.4
700				
800	38.0	108156	-.6	37.4
900	#20 Kofoid at end of Cable (800 faths)			
1000	12			

11—1023

REMARKS:

Began to go down at 1-40-30 PM
Down to 800 Faths at 2- 1- 50 PM
Began to haul in at 2- 6- 50 PM
Last Ther. up at 2-30- 0

pl. at 7:00, 53.8

No. Dr. 4663. Date 16 Nov. 1904.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer No Cor.

Corrected temperature

Air 69° Surface 69° Drift E by N. 0.4 m.

Trawl or dredge x) and xx)

Sounding

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
x) Intermediate = The 5' Bobbinett and 2 #20 Silk Rofinds, 400 fms wire		0	7:04.15	7:51.30
		100	07.45	— " —
		200	11.30	44.30
		300	15.00	41.20
		400	7.18.00	7.38.00
		500		
		600	= Towing 20 min	
		700		
		800		
		900		
		1000		
xx) 1 5' Surface Net with electric lt. from p. c. b. and 1 12" Rofind #12 Silk 1 14" " #20 " astern		1100		
		1200		
		1300	out	In
		1400	7:03.00	7:23.00
		1500		
		1600	= Towing 20 min.	
		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	Lat.	11°20.3 S	✓	
50	Long.	88°55.2 W		
100	Course,	E by N		
200	Cloudy			
300	Moderate breeze from SE by E			
400	Moderate sea.			
500	Bar. 29.91			
600	Ther. Att. 73°			
700				
800				
900				
1000				

11—1023

REMARKS:

Veith

P. I. 60.2 (at 8 AM)

No. D.: 4664 Date 17 Nov. '04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 69° Surface 68° Drift East 0.4 mile

Trawl or dredge see below

No Sounding

SOUNDING WIRE. DOWN.	SOUNDING WIRE. UP.	TURNS.	DREDGE ROPE. DOWN.	DREDGE ROPE. UP.
			A.M.	A.M.
		0	8-7-30	8-54-00
5' Bobbinett		100	11-00	51-10
2 " 20 Silk Kafoids		200	14-25	47-50
from dredging boom		300	17-45	44-30
300 fms.!		400	8-21-00	8-41-00
with 400 fms. cable		500	Towing 20 min.	
		600		
		700		
		800		A.M.
1 5' Surface Net		900	Out 8-10 in 8-30	
from port boom		1000	Towing 20 min.	
and		1100		
1 12" Kafoid # 12 Silk		1200		
1 14" " " 20 "		1300		
towing astern		1400		
		1500		
Tanner		1600	Intermediate	
		~~1700~~	A.M.	
Towing at a depth of		0 ~~1800~~	9-4-30	9-56-00
300 fms		100 ~~1900~~	8-00	53-00
with 400 fms. cable		200 ~~2000~~	11-30	50-00
		300 ~~2100~~	14-40	46-45
Drift: NNW. 0.4 mile		400 ~~2200~~	9-18-00	9-48-30
		2300		
		2400	Towing 25 min.	

Sent messenger at 9-40 - began to heave in at 9-48-30

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
Overcast & cloudy		2600		
Mod. breeze from		2700		
SE.		2800		
Barom. 29.90"		2900		
Therm. attached 67°		3000		
Position		3100		
Lat. 11° 45' S.		3200	11 - 30.3 S	✓
Long. 87° 46' W.		3300	87 - 19 W	
		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:

Note: Tanner Intermediate Net failed to close - tripping line caught over top of clamp.

507 De Long. P.L. 40.2. 11—1023

No. Dr 4665 Date Nov. 17/04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 69° Surface 68° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. P.M.	UP. P.M.
5' Bobbinett from Dredge		0	7-3-00	48-20
Boom with 2-#20		100	6-30	45-40
Kofoids. Towed for		200	10-30	42-40
min at 300 fath		300		39-15
on 400 fath Cable		400	16-30	36-00
		500		
		600		
		700	Out	
1-12" Kofoid #12 Sills		800	7-2-0	7-22-40
~~1-14" " #20 "~~		900		
Towing astern		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
1-5' Surface Net		1600		
Elect Light att.		1700	7-2-0	7-22-40
from Port Boom		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
Overcast		2500		
Mod Breeze S.E		2600		
Mod Sea		2700		
Barr. 29.84		2800		
Ther att 78		2900		
Lat. 11° 45' S		3000		
Long. 86° 5.2' W		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:

Register got out of order after 200 fath. were let out so remainder of Cable was measured by time preceding 200 fath took it run out. P.S. Register fixed while down and set at 400 fath. On coming to Surface found 10 fath short.

507 pl. = 52.0 11—1023

Arnkil

No. Dr. 4666. Date 18 November 04.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2600 fms

Shot ~~or lead~~ 6 off and Snapper.

Bottom fine gy rad Oz.

Bottom temperature 35.5°

No. of thermometer 98241. Cor. 6

Corrected temperature 34.9

Air 68° Surface 67° Drift 1/3 mile E x N.

Trawl ~~or dredge~~ 6' Bl.-Alb. with Mudbag etc.

am. SOUNDING WIRE. am.		TURNS.	am. DREDGE ROPE. pm.	
DOWN.	UP.		DOWN.	UP.
8:04.40	9:12.00	0	9:18.40	1-51-20
05.50	09.50	100	22.15	47-25
06.50	08.50	200	25.40	44-15
07.50	07.45	300	29.00	41-15
08.50	06.45	400	32.30	38-05
09.55	05.45	500	36.00	34-50
11.00	04.45	600	39.30	31-40
12.10	03.45	700	43.00	28-25
13.20	02.40	800	46.40	25-00
14.30	01.30	900	50.20	21-35
15.40	9:00.25	1000	53.50	18-15
16.50	59.15	1100	57.10	14-50
18.05	58.00	1200	10:00.40	11-30
19.25	56.45	1300	04.00	8-15
20.45	55.30	1400	07.25	4-50
22.00	54.10	1500	12.00	1-01-15
23.10	52.50	1600	15.50	57-35
24.10	51.30	1700	19.30	54-00
25.25	50.05	1800	*) 33.00	50-30
26.35	48.45	1900	36.30	46-45
27.45	47.20	2000	40.00	43-10
29.00	45.55	2100	44.00	39-10
30.10	44.30	2200	47.10	35-25
31.20	43.00	2300	50.20	31-30
8:32.30	8:41.30	2400	10:53.40	12-27-30

*) Set watch 10 min ahead.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
8: 37.45	8: 40.00	2500	10: 57.00	23-30
8: 35.00	8: 38.00	2600	11: 00.25	19-00
		2700	03.50	13-20
Lat. 11°55'24"S.		2800	07.20	7-20
Long. 84° 22.4' W		2900	10.45	12-02-00
Course, E by N. ¼ N.		3000	14.35	55-55
Overcast.		3100	18.15	49.00
Gentle breeze from ESE		3200	21.45	42.30
Smooth Sea.		3300	11: 25.00	11: 36.15
Bar. 29.92		3400	= Trawling 11¼ min.	
Therm. air. 72°		3500		
		3600		
Noon position:		3700		
Lat. 11°55'36"S		3800	11-53.5	
Long 84° 20'18"W		3900	84-20.3	
		4000		

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Surface	69.0°	108026	N.S.	
25	67.2°	108156	-.2	67.
50	58.9°	104922	-.4	58.5
100	55.8°	104914	-.5	55.3
200	51.0°	104924	-.4	50.6
300	45.8°	108025	-.5	45.3
400	43.7°	108151	-.5	43.2
500				
600	39.9°	108155	-.6	39.3
700				
800	38.0°	108154	-.7	37.3
900	#17 Sell. Kofoid at end of cable = 800 fms.			
1000	& Water Cup for spec. of water at 800 fms.			

11—1023

REMARKS:

Let down at 2-02-00 P.M.
Reached 800 fms. at 2-20-10 "
Began to heave in 2-25-10 "
Last Therm up 2-47-00 "

Dr. No. 4667 Date 18 Nov. 04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom No Sounding.

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 68° Surface 68° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. P.M.	UP. P.M.
5' Bobbinett and		0	7-02-15	47-00
2-#20 Kofoids		100	5-25	43-10
from Dredge Boom		200	8-25	40-15
lowered to 300 fath and		300	11-15	7-37-10
towed for 20 min		400	14-45	7-34-30
on 400 fath. Cable		500		
		600		
		700		
		800		
		900		
		1000	Out	In
5' Surface Net		1100	7-0-45	7-20-45
with Elect Light		1200		
attached from		1300		
Port Boom		1400		
		1500		
		1600		
		1700		
		1800	Out	In
1-12" Kofoid #12 Silk		1900	7-0-45	7-20-45
1-14" " #20		2000		
Towing astern		2100		
		2200		
		2300		
		2400		

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
Fair		2600		
Smooth Sea		2700		
Light Breeze SE.		2800		
Bar 86		2900		
Ther att. 69°		3000		
Lat. 11° 5' 9.5" S		3100		
Long. 83° 40.4' W		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:

Pl. 5.0

No. Dr 4668. Date 19 Nov. 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2620 fms.

Shot ~~or lead~~ 60# Snapper.

Bottom fine gry Oz. Glob. Red.

Bottom temperature Thermometer did not trip.

No. of thermometer 98241 Cor.

Corrected temperature

Air 68° Surface 67° Drift

Trawl or dredge Tanner / Intermediate

am. SOUNDING WIRE. am. DOWN.	UP.	TURNS.	am. DREDGE ROPE. am. DOWN.	UP.
8- 3- 5	9: 06.50	0	8: 57.00	9: 59.10
4- 0	05.35	100	9: 00.10	56.30
4- 55	04.40	200	03.35	53.30
5- 50	03.40	300	07.20	50.45
6- 50	02.40	400	9: 11.30	9: 47.50
7- 45	01.35	500	= down	36 min.
8- 35	9: 00.35	600	Started messenger	9.43.40
9- 30	59.30	700	Messenger struck	
10- 30	58.20	800	(approx.)	9.47.40
11- 25	57.15	900		
12- 25	56.00	1000		
13- 30	54.40	1100		
14- 30	53.35	1200		
15- 35	52.15	1300		
16- 40	50.55	1400		
17- 50	49.35	1500		
18. 55	48.15	1600		
20. 00	46.50	1700		
21. 10	45.20	1800		
22. 20	43.55	1900		
23. 25	42.25	2000		
24. 30	40.55	2100		
25. 40	39.25	2200		
26. 45	37.55	2300		
8: 27. 50	8: 36. 20	2400		

12-09.3 S, 81-45.2 W

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
am. DOWN.	UP. am.		DOWN.	UP.
8: 29.00	8: 34.40	2500		
30.05	32.50	2600		
8: 30.20	8: 32.20	2620 ~~2700~~		
		2800		
Lat.		2900		
Long.		3000		
Course, N. by W.		3100		
Overcast.		3200		
Lt. breeze from S.E.		3300		
Moderate Swell.		3400		
Bar. 29.90		3500		
Therm. att. 72°		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 Veith P.L. 87.8 (at 7-00 P.M.) 11—1023

No. D1: 4669 Date 19 November '04

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 68° Surface 67° Drift

Trawl or dredge

No Sounding

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
			P. M.	
5' Bobbinett &		0	7-02-00	51
2 #20 Kofoids		100	5-15	47-20
from dreding boom		200	9-00	44-00
lowered to 300 fms		300	12-45	40-30
with 400 fms. cable.		400	17-00	7-37-00
		500		
		600	Towing 20 min.	
		700		
		800		
5' Surface Net		900	Out	In
with electric light		1000	7-00-00	7-20-00
attached from post boom		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
1 - 12" Kofoid #12 Silk		1700		
1 - 14" " #20 "		1800		
towing astern		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

Towing 20 min.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		2500		
Cloudy		2600		
Gentle breeze from		2700		
S.E. smooth sea		2800		
		2900		
Barometer 29.81"		3000		
Therm. attached 74°		3100		
		3200		
		3300		
Position		3400		
Lat 12° 12.7' S.		3500		
Long. 80° 25.6' W		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:

Delong Strait P.L. = 74.8

No. Dr. 4670 Date 20 Nov. 1904.

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 3209 fms

Shot or ~~lead~~ 6 lbs and Snapper

Bottom No specimen in Snapper: very fine dk brn M. (from mud bag)

Bottom temperature 36°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 68° Surface 66° Drift

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

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
AM DOWN.	AM UP.		DOWN.	UP.
7- 10- 0	8: 37.40	0	8: 43.30	2 - 17 - 00
11 05	36.00	100	47.30	13 - 35
12 - 15	34.35	200	50.45	10 - 15
13 - 15	33.05	300	53.45	7 - 00
14 - 15	31.35	400	57.25	3 - 40
15 - 15	30.05	500	9: 00.55	2 - 00 - 30
16 - 15	28.30	600	04.35	57 - 10
17 - 15	27.00	700	08.15	53 - 55
18 - 20	25.20	800	11.50	50 - 45
19 - 20	24.00	900	15.05	47 - 20
20 - 25	22.30	1000	18.40	43 - 45
21 - 30	21.10	1100	22.00	40 - 05
22 - 35	19.40	1200	25.10	36 - 20
23 - 40	18.10	1300	28.45	33 - 20
24 - 45	16.40	1400	31.50	30 - 05
25 - 55	15.10	1500	34.55	26 - 35
27 - 00	13.35	1600	38.15	23 - 00
28 - 10	12.05	1700	41.15	20 - 00
29 - 20	10.35	1800	44.15	16 - 20
30 - 30	09.00	1900	47.30	12 - 15
31 - 35	07.25	2000	50.40	09 - 00
32 - 45	05.50	2100	53.45	05 - 10
33 - 55	04.20	2200	57.10	1 - 01 - 10
35 - 0	02.45	2300	10: 00.10	55 - 50
36 - 10	8: 01.05	2400	10: 03.20	12 - 51 - 40

Note: Cable stretched 15 fms.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN. AM	UP. AM.		Am. DOWN.	UP.
37-20	7:59.25	2500	10:06.40	47-25
38-30	57.40	2600	09.50	43-00
39-40	56.00	2700	13.00	38-15
40-50	54.30	2800	15.55	33-15
42-5	53.00	2900	19.10	28-15
43-15	51.30	3000	22.10	23-30
44-30	50.00	3100	25.10	19-00
45-45	47-45	3200	28.20	13-30
7-45-55	7-47-55	3209 ~~3300~~	31.25	7-00
	set clock 9 min ahead ×	3400	43.30	12-00-20
Lat. 12°	8.7' S. ✓	3500	46.40	55-45
Long. 79°	2.44' W.	3600	49.50	51-10
Course	N.W. by W. South	3700	53.10	44.00
Overcast		3800	56.10	35.10
Lt. breeze from SE.		3900	11:59.20	26.10
Gentle Swell		4000	11:02.30	11:18.10

Bar. 29.91
Therm. att. 71° = trawling 15 2/3 min

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
Surface	67°	108026	n.s.	
Veith 25	64.1°	108155	-.25	63.8
50	61°	104922	-.3	59.7
100	54.6°	104914	-.5	54.1
200	49.5°	104924	-.6	48.9
300	45.1°	108156	-.5	44.6
400	42.6°	108154	-6	42.
500				
600	39.9°	108025	-.5	39.4
700				
800	38.7°	108151	-.6	38.1
900	No 12	Silk Kofoid at end of cable - 800 fms.		
1000	+ Water cup			

11—1023

REMARKS:

	P. M.
Let out cable at	2-23-00
Reached 800 fms.	2-44-00
Began to heave in	2-49-00
Last Therm. up	3-14-00

DeLong.

No. 4671 Date 20 Nov. 1904.

Machine. Reel.

Turns Cor.+ Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 65° Surface 66° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN. P.M.	UP. P.M.
5' Bobbinett		0	7-10-0	49-30
2-#20 Silk Kafoods		100	5-15	45-50
from dredge Boom		200	8-50	42-40
lowered to 300 fath		300	12-35	39-20
on 400 fath Cable		400	16-20	7-36-0
+ towed for 20 Mins		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
1-12" Sk found #12	Sinker	1300	7-1-0	7-21-30
1-14" " " #20		1400		
Towing astern		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
5' Surface Net		2200	7-1-0	7-21-30
Elect light Att		2300		
from Port Boom		2400		

12-69 S., 78-28,2 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				

REMARKS:

Fair
Smooth Sea
Light Breeze S.E.
Bar. 29.84
Ther. attached. 73°

507 De Long. Arnkey 11—1023

No. 4671 Date 20 Nov/04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 1490 fms

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

Bottom very fine greenish dark Clay. Siliceous infusorial

Bottom temperature 36° (Infusorial earth

No. of thermometer 98241 Cor. 6

Corrected temperature 35.4

Air 65° Surface 66° Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
~~DOWN.~~	UP.		DOWN.	UP.
7-53-35	8:30.35	0		
55-10	29.30	100		
56-20	28.30	200		
57.25	27.30	300		
59.15	26.25	400		
8:00.15	25.25	500		
01.05	24.20	600		
02.05	23.10	700		
03.05	22.00	800		
04.05	20.40	900		
05.05	19.20	1000		
06.10	18.00	1100		
07.15	16.30	1200		
08.15	15.15	1300		
09.20	13.50	1400		
8.10-10	8:12.15	1490 ~~1500~~		
		~~1600~~		
		1700		
Lat. 12°06.9' S		1800		
Long. 78°28.2 W		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 D. Long Struki P. I. 70.1

No. Dr. 4672 Date 21 Nov. 04

Lucas Machine. Reel. Lucas

Turns Cor.+ Depth 2845 fms.

Shot ~~or lead~~ 60 lbs. and Telegraph Cable

Bottom Fine infusorial mud - dark brown

Bottom temperature 35.8°

No. of thermometer 98241 Cor. 6

Corrected temperature 35.2

Air 66° Surface 65° Drift

Trawl or dredge 6' Blake - Albatross as before

SOUNDING WIRE. DOWN.	SOUNDING WIRE. UP.	TURNS.	DREDGE ROPE. DOWN.	DREDGE ROPE. UP.
A. M.	A. M.		A.M.	
7-01-00	14-15	0	8-20-50	12.58.45
2-05	13-0	100	24-15	54.55
3-05	12-0	200	27-20	52.00
4-00	10-35	300	30-20	49.00
4-55	9-55	400	33-25	46.00
5-50	8-45	500	37-15	43.00
6-50	7-35	600	40-45	40.00
7-50	6-35	700	44-30	36.50
8-45	5-15	800	48-10	33.30
9-45	4-0	900	51-0-55	30.10
10-45	2-35	1000	54-00	27.05
11-45	8-1-10	1100	57-05	24.00
12-45	59-50	1200	9-0-25	20.25
13-50	58-35	1300	3-30	17.25
14-55	57-00	1400	6-45	13.45
16-00	55-45	1500	9-40	10.45
17-00	54-10	1600	12-50	07.35
18-05	52-35	1700	16-00	04.40
19-10	51-05	1800	18-55	12.01.05
20-15	49-35	1900	21-55	57.40
21-25	48-05	2000	24-45	54.20
22-30	46-30	2100	27-40	51-00
23-40	44-55	2200	30-45	47-30
24-55	43-20	2300	33-55	44-5
7-26-05	7-41-50	2400	9-37-10	11-40-25

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
A M	M		A M	
7-27-15	7-40-10	2500	40-10	36-50
28-25	38-35	2600	43-20	33-15
29-40	36-55	2700	46-20	29-45
30-55	35-10	2800	49-20	26-5
7-31-40	7-33-50	2845 2900	52-25	22-10
		3000	55-30	16-15
		3100	58-45	10-20
		3200	10-1-35	11-4-10
		3300	5-10	58-25
		3400	8-20	53-00
		3500	11-45	47-15
		3600	10-15-15	10-40-5
		3700	Dredge 20 min.	
		3800	(Clock set ahead 4')	
		3900		
		4000		

SERIAL TEMPERATURES

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

This Station is continued in the next book

11—1023

REMARKS: Noon

Cloudy
Gentle to mod. breeze from S.E. Smooth sea.
Barometer 29.89
Thermometer attached 68.5

Position
Lat. 13°11.6' S. ✓
Long. 78°18.3' W
Dredge Course - East.

5
3 1/2

1 1/2

30 : 102 = 3.4
9
12

3.24