

AA #168 to AA #208.  
3<sup>d</sup> Nov<sup>r</sup> '99 to 7<sup>th</sup> Jan'y 1900

Hy<sup>d</sup>. 3934 - Hy<sup>d</sup>. 3970.

D<sup>s</sup>. 3691 - D<sup>s</sup>. 3694.

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

SERIAL TEMPERATURES.

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

REMARKS:

No. *168* Date *3 Nov. 99*  
*Sigsbee* Machine. # *17* Reel. *Build up*  
 Turns *1615* Cor. + *104* Depth *1719 fms*  
 Shot or lead *60 #*  
 Bottom *gy. s.*  
 Bottom temperature *35.0*  
 No. of thermometer *92449* Cor.  
 Corrected temperature  
 Air *80* Surface *57.9* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7.42.00</i>	<i>8.17.20</i>	0		
<i>43.30</i>	<i>16.00</i>	100		
<i>44.15</i>	<i>15.00</i>	200		
<i>45.00</i>	<i>14.00</i>	300		
<i>45.40</i>	<i>13.00</i>	400		
<i>46.30</i>	<i>12.05</i>	500		
<i>47.20</i>	<i>11.05</i>	600		
<i>48.10</i>	<i>10.00</i>	700		
<i>49.10</i>	<i>09.55</i>	800		
<i>50.10</i>	<i>09.45</i>	900		
<i>51.50</i>	<i>09.25</i>	1000		
<i>52.00</i>	<i>09.40</i>	1100		
<i>52.40</i>	<i>09.35</i>	1200		
<i>53.10</i>	<i>09.30</i>	1300		
<i>54.10</i>	<i>09.20</i>	1400		
<i>54.10</i>	<i>8.01 =</i>	1500		
<i>58.15</i>	<i>59.50</i>	1600		
<i>58.30</i>	<i>7.59.40</i>	<i>1675</i>		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

19° 54'	South	2500	144° 48'	West
OK H.C.F.		2600	6' East of Anchor line,	
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
3600	153	3600		
1615	49	3700		
1985	104	3800		
	1635	3900		
	1919	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. *169* Date *3 Nov 99*  
*Sigsbee* Machine. *#1* Reel. *1000 ft*  
 Turns *551* Cor. + *43* Depth *594 fms*  
 Shot *35* lb  
 Bottom *Cr Coral rd*  
 Bottom temperature *39.5°*  
 No. of thermometer *92449* Cor.  
 Corrected temperature  
 Air *88* Surface *78* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.10.</i>	<i>2130</i>	0		
<i>10.50</i>	<i>2035</i>	100		
<i>11.35</i>	<i>1925</i>	200		
<i>12.30</i>	<i>1830</i>	300		
<i>13.25</i>	<i>1725</i>	400		
<i>14.30</i>	<i>1620</i>	500		
<i>15.15</i>	<i>1550</i>	<i>551</i>		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

19° 54'	South	2500	149° 53'	West
		2600		
OK		2700	1' East of	
ALPS.		2800	Here he	
3		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
3600	153	3600		
551	110	3700		
3049	43	3800		
	551	3900		
	594	4000		

SERIAL TEMPERATURES.

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

REMARKS:

Hutchinson Cat Log 89.9  
 Hy<sup>o</sup> 3936

No. A.A. 170 Date 3 Nov 99

Sigsbee Machine # / Reel. Built  
 Turns 175 Cor. + 14 Depth 189 fms

Shot on load 35#

Bottom Coral sand, Mang. Cor

Bottom temperature 62.1°

No. of thermometer 92449 Cor.

Corrected temperature

Air 81 Surface 78 Drift

Trawl or dredge

DM

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

1-55 = 59.30 0  
 55.45 58.25 100  
 56.30 57.25 175

Recorder's watch  
 4 min. fast  
 deck - eleven

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

190 54'	South	2500	144° 59'	West
OK		2600	3/10'	West of
NE 2		2700	Structure	
		2800		
		2900		
		3000		
		3100		
		3200		
3600		3300		
175		3400		
<u>3425</u>	153	3500		
	<u>139</u>	3600		
	14	3700		
	<u>175</u>	3800		
	<u>189</u>	3900		
		4000		

SERIAL TEMPERATURES.

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

REMARKS:



*Hutchinson* Cat Log 94.9.  
 No. 3937.

No. *A.A. 171* Date *3 Nov. 99.*

*Sigsbee* Machine. #1 Reel. Built up

Turns *1586* Cor. + *102* Depth *1688 fms*

Shot or lead *60#*

Bottom *Sl. G. Mang. Cr. S. Br.*

Bottom temperature *35.3*

No. of thermometer *92449* Cor.

Corrected temperature

Air *81* Surface *78* Drift

Trawl or dredge

PM	SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
	DOWN.	UP.		DOWN.	UP.
<i>2:</i>	<i>36.30</i>	<i>09.40</i>	0		
	<i>37.25</i>	<i>08 =</i>	100		
	<i>38.10</i>	<i>07.20</i>	200		
	<i>38.55</i>	<i>06.10</i>	300		
	<i>39.45</i>	<i>05.05</i>	400		
	<i>40.35</i>	<i>04 =</i>	500		
	<i>41.30</i>	<i>03 =</i>	600		
	<i>42.20</i>	<i>02 =</i>	700		
	<i>43.20</i>	<i>3-01 =</i>	800		
	<i>44.15</i>	<i>30 M.</i>	900		
	<i>45.15</i>	<i>59 =</i>	1000		
	<i>46.15</i>	<i>57.55</i>	1100		
	<i>47.20</i>	<i>56.50</i>	1200		
	<i>48.20</i>	<i>55.40</i>	1300		
	<i>49.30</i>	<i>54.35</i>	1400		
	<i>50.35</i>	<i>53.35</i>	1500		
	<i>51.10</i>	<i>52.30</i>	<i>1586</i> 1600		
			1700		
			1800		
			1900		
			2000		
			2100		
			2200		
			2300		
			2400		

*Recorder's watch*  
*4 min fast of deck-*  
*clock*

19° 50'	South	2500	145° 03'	W 50'
OK		2600		
OK		2700	5 1/10' N of	of
		2800	Station	
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
	153	3500		
	51	3600		
3600	102	3700		
1556	1586	3800		
2014	1688	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:

Sigsbee No. 172 Date 3 Nov 1899  
 Machine. Reel. Reel up.  
 Turns 2195 Cor. + 127 Depth 2322 fms  
 Shot or lead 60 #  
 Bottom Cold Mud Glob.  
 Bottom temperature 35.0  
 No. of thermometer 92449 Cor.  
 Corrected temperature  
 Air 79 Surface 97 Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
10.05.00	10.53.10	0		
06.00	51.55	100		
06.20	51.50	200		
07.40	50.40	300		
08.40	49.05	400		
09.30	48.05	500		
10.30	47.30	600		
11.25	46.30	700		
12.20	45.30	800		
13.25	44.30	900		
14.25	43.20	1000		
15.30	42.00	1100		
16.35	41.05	1200		
17.40	40.05	1300		
18.50	39.00	1400		
19.55	37.55	1500		
21.05	36.50	1600		
22.15	35.40	1700		
23.20	34.30	1800		
24.30	33.30	1900		
25.45	32.20	2000		
26.55	31.10	2100		
10-28.10	10.29.50	2195		
		2300		
		2400		

19° 22'	South	2500	145° 47'	West
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
2600	103	3400		
2195	26	3500		
1400	127	3600		
	2195	3700		
	2322	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:

*Albatross* Log 947  
 No. 173 Date 22 Nov 99

Machine. Reel. *Small*

Turns 200 Cor. + 131 Depth 331 fms.

Shot or lead 60 lbs  
 Bottom *Dark Mud Glob. Coral Cor.*

Bottom temperature 34.8° F

No. of thermometer 024109 Cor.

Corrected temperature

Air 77° Surface 78° Drift

Trawl or dredge *Small deep sea*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
00 30	6.40	0	7.00	04.45
01 15	18 15	100	04.30	12- 00.15
02 00	47 15	200	07.30	56.41
02 45	36 20	300	10.35	52.55
03 30	45 20	400	13.40	49 =
04 15	10 20	500	16.50	44.50
05 00	40 25	600	21.50	40.40
05 45	42 25	700	24.50	36.20
06 30	41 20	800	26.50	31.10
07 15	40 15	900	28.50	27.40
08 00	39 15	1000	30.50	23.50
08 45	38 20	1100	33.15	19.50
09 30	36 40	1200	35.45	16 =
10 15	35 20	1300	37.40	12.30
11 00	34 30	1400	40.20	08.25
11 45	33 20	1500	43.25	04.20
12 30	32 15	1600	46.10	11- 00.20
13 15	31 05	1700	48.35	56.20
14 00	30 00	1800	50.40	51.45
14 45	28.55	1900	54 =	46.10
15 30	27.45	2000	57 =	41.40
16 15	26.40	2100	SAME	37.05
17 00	25.30	2200	53.10	31.45
17 45	24.20	2300	05.50	27.20
18 30	22.05	2400	09 =	22 =

18° 55' South 146° 32' West

OK 2405		2500	8:12.05	16.45
		2600	15.10	11.30
		2700	18.40	10:05.40
		2800	21.30	39.50
		2900	24 =	55.10
		3000	26.40	50 =
		3100	29.10	45.20
		3200	32 =	9:40.10
		3300		
		3400		
3600	153	3500		
2309	22	3600		
1291	131	3700		
	2309	3800		
	2440	3900		
		4000		

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100		410		
200		430		
300				
400				
500				
600				
700				
800				
900	Net slightly torn on			
1000	bottom			

REMARKS:

Surge Net used at 9.15 AM  
 " " " " 9.36 "  
 Wire stretched 29 fms.  
 Lost one chain hook.

52-3591.

Stetson

No. 173 Date 4<sup>th</sup> Nov. 99

Machine. Reel.

Turns Cor. + Depth

Shot or lead 173

Bottom Continuing

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift Open

Trawl or dredge Large Intermediate

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
12.46.00	1.	0	12.46.00	24.30
57.30	19.40	100	17.30	19.40
12.52.30	1.17.30	142	12.52.30	1.17.30
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200				
300		19-5-11		75
400		5-11		
500				
600				
700				
800				
900				
1000				

REMARKS:



*Starky*

15. 3091.

No. *00173*

Date *4<sup>th</sup> Nov. 199.*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

*Continued.*

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air

Surface

Drift

Trawl or dredge

*Large Intermediate Open*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0	<i>2.01.00</i>	<i>3.08.10</i>
		100	<i>16.00</i>	<i>3.02.00</i>
		200	<i>10.40</i>	<i>5.10.00</i>
		300	<i>15.00</i>	<i>3.20.00</i>
		400	<i>19.40</i>	<i>4.30.00</i>
		<i>450</i>	<i>2.22.00</i>	<i>2.44.10</i>
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

⑤ SERIAL TEMPERATURES.

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

REMARKS:

W. L. Cat Log 44.7

No. *20174* Date *11<sup>th</sup> Nov. 99*

Machine. *Sigsbee* Reel. *Porter*

Turns *1969* Cor. + *118* Depth *2087 fms*

Shot or lead *60 pound*

Bottom *Mud. Mod.*

Bottom temperature *35°*

No. of thermometer *72449* Cor.

Corrected temperature

Air *79* Surface *79* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

TURNS.

DOWN.

UP.

DOWN.

UP.

DOWN.	UP.	TURNS.
<i>11.03.30</i>	<i>11-48.40</i>	0
<i>04.30</i>	<i>47.30</i>	100
<i>05.20</i>	<i>46.30</i>	200
<i>06.20</i>	<i>45.30</i>	300
<i>07.20</i>	<i>44.30</i>	400
<i>08.20</i>	<i>43.25</i>	500
<i>09.20</i>	<i>42.20</i>	600
<i>10.20</i>	<i>41.10</i>	700
<i>11.20</i>	<i>40.00</i>	800
<i>12.20</i>	<i>38.50</i>	900
<i>13.25</i>	<i>37.50</i>	1000
<i>14.25</i>	<i>36.45</i>	1100
<i>15.30</i>	<i>35.40</i>	1200
<i>16.40</i>	<i>34.30</i>	1300
<i>17.50</i>	<i>33.10</i>	1400
<i>19.05</i>	<i>31.55</i>	1500
<i>20.20</i>	<i>30.50</i>	1600
<i>21.30</i>	<i>29.40</i>	1700
<i>22.45</i>	<i>28.30</i>	1800
<i>24.00</i>	<i>27.15</i>	1900
<i>24.55</i>	<i>26.20</i>	<i>1969</i>
		2100
		2200
		2300
		2400

18 - 28 South

147° 11' West

OK 2.63 <u>2</u>		2500		
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
	3600	155	3600	
	1969	35	3700	
	1631	118	3800	
	1969	3900		
	2057	4000		

## SERIAL TEMPERATURES.

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

REMARKS:

*Hutchinson*

Pat Log 827

No. *A. A. 175* Date *5 Nov. 99.*

*Sigsbee* Machine. #1 Reel. *Built up.*

Turns *2010* Cor. + *119* Depth *2129 fms.*

Shot or lead *60 #*

Bottom *Crse Uvamic Mud*

Bottom temperature *34.8°*

No. of thermometer *92449* Cor.

Corrected temperature

Air *78* Surface *78* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>5. 23.40</i>	<i>06.10</i>	<i>0</i>		
<i>24.20</i>	<i>05 =</i>	<i>100</i>		
<i>25 =</i>	<i>04 =</i>	<i>200</i>		
<i>25.45</i>	<i>03 =</i>	<i>300</i>		
<i>26.35</i>	<i>02 =</i>	<i>400</i>		
<i>27.25</i>	<i>00.55</i>	<i>500</i>		
<i>28.20</i>	<i>6 A.M.</i>	<i>600</i>		
<i>29.10</i>	<i>59 =</i>	<i>700</i>		
<i>30.05</i>	<i>58 =</i>	<i>800</i>		
<i>31.05</i>	<i>56.55</i>	<i>900</i>		
<i>32.05</i>	<i>55.55</i>	<i>1000</i>		
<i>33.05</i>	<i>54.48</i>	<i>1100</i>		
<i>34.10</i>	<i>53.45</i>	<i>1200</i>		
<i>35.15</i>	<i>52.40</i>	<i>1300</i>		
<i>36.20</i>	<i>51.30</i>	<i>1400</i>		
<i>37.25</i>	<i>50.20</i>	<i>1500</i>		
<i>38.30</i>	<i>49.20</i>	<i>1600</i>		
<i>39.40</i>	<i>48.15</i>	<i>1700</i>		
<i>40.40</i>	<i>47.10</i>	<i>1800</i>		
<i>42 =</i>	<i>46 =</i>	<i>1900</i>		
<i>43.10</i>	<i>44.50</i>	<i>2000</i>		
<i>43.25</i>	<i>44.25</i>	<i>2010</i>		
		<i>2100</i>		
		<i>2200</i>		
		<i>2300</i>		
		<i>2400</i>		

18° 03' South

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

147° 48' West

14' 32" Magnetic

OK  
24.09  
2

3600	153
2010	34
<u>1590</u>	<u>119</u>
	2010
	<u>2129</u>

SERIAL TEMPERATURES.

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

REMARKS:

*John Smith* *Port Log*

No. *P. A. 176* Date *5 Nov. 79.*

*Sigsbee* Machine, # *1* Reel. *Built up.*

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer *72449* Cor.

Corrected temperature

Air *82* Surface Drift

Trawl or dredge

*am*

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

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

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:



*Stalley* P. Log 96,5  
 No. *A. A. 176* Date *5<sup>th</sup> Nov 99*  
 Sigsbee Machine # *4* Reel *Smith's*  
 Turns *774* Cor. + *58* Depth *832* / *115*  
 Shot or lead *60 #*  
 Bottom *10 fms coral & coral sand*  
 Bottom temperature *38*  
 No. of thermometer *92449* Cor.  
 Corrected temperature  
 Air *87* Surface *80* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>15.00</i>	<i>8.31.10</i>	0		
<i>15.40</i>	<i>30.10</i>	100		
<i>16.30</i>	<i>29.10</i>	200		
<i>17.10</i>	<i>28.10</i>	300		
<i>18.10</i>	<i>27.10</i>	400		
<i>19.10</i>	<i>26.00</i>	500		
<i>20.10</i>	<i>25.00</i>	600		
<i>21.10</i>	<i>23.10</i>	700		
<i>4.37.00</i>	<i>8.20.00</i>	<i>774</i>		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

17° 54' South	2500	148° 00' West
OK	2600	1 1/4' S.E. of
4.5	2700	Mohetia.
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
3600 103	3400	
774 95	3500	
2826 5-8	3600	
	3700	
	3800	
	3900	
	4000	

SERIAL TEMPERATURES.

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

REMARKS:

Stolley

No. *A 177* Date *5 Nov 99*  
*Sigsbee* Machine. Reel. *Bullseye*  
 Turns *131* Cor. + *11* Depth *142 (142)*  
 Shot or lead *35 lb*  
 Bottom *Gr. M. S. Pick Coral Sand*  
 Bottom temperature *69*  
 No. of thermometer *92449* Cor.  
 Corrected temperature  
 Air *79* Surface *80* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9.56.20</i>	<i>10.00.00</i>	0		
<i>57-10</i>	<i>58.40</i>	100		
<i>59.30</i>	<i>9.58.20</i>	131		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

17° 51'	South	2500	148° 08'	West
		2600		
		2700	1/2' North of	
		2800	Neheial.	
		2900		
		3000		
		3100		
		3200		
		3300		
3600	N 3	3400		
131	14 1/2	3500		
3469	11	3600		
	131	3700		
	142	3800		
		3900		
		4000		

SERIAL TEMPERATURES.

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

REMARKS:

507. *Hutchinson* Pat Log 19.5

No. *1178* Date *5 Nov 99*

Machine. *1* Reel. *1* Cor. *up*

Turns *1992* Cor. + *34* Depth *2111 fms.*

Shot or lead *60*

Bottom *U.S. Sand*

Bottom temperature *34.9°*

No. of thermometer *92449* Cor.

Corrected temperature

Air *83* Surface *81* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>3.42.50</i>	<i>26.15</i>	0		
<i>43.35</i>	<i>25.10</i>	100		
<i>44.20</i>	<i>24. =</i>	200		
<i>45.00</i>	<i>23.50</i>	300		
<i>46.00</i>	<i>21.45</i>	400		
<i>46.50</i>	<i>20.50</i>	500		
<i>47.25</i>	<i>19.50</i>	600		
<i>48.15</i>	<i>18.50</i>	700		
<i>49.25</i>	<i>17.50</i>	800		
<i>50.45</i>	<i>16.45</i>	900		
<i>51.45</i>	<i>15.50</i>	1000		
<i>52.45</i>	<i>14.45</i>	1100		
<i>53.50</i>	<i>13.40</i>	1200		
<i>55.00</i>	<i>12.40</i>	1300		
<i>56.05</i>	<i>11.35</i>	1400		
<i>57.10</i>	<i>10.30</i>	1500		
<i>58.25</i>	<i>09.20</i>	1600		
<i>59.40</i>	<i>08.15</i>	1700		
<i>4-00.50</i>	<i>07.05</i>	1800		
<i>02 =</i>	<i>05.45</i>	1900		
<i>03 =</i>	<i>4-04.20</i>	1992		
		2000		
		2100		
		2200		
		2300		
		2400		

17° 46' South OK H.C.S. 2		2500	148° 23' West	
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
	3600	153		3500
	1992	34		3600
	1208	119		3700
		1992		3800
	2111	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:

*Antichlor* .. *Out Log 42.5*

No. *179* Date *5 Nov. 19*  
*Sigsbee* Machine: #1 Reel. Built *Up*  
 Turns *1650* Cor. + *105* Depth *1755 fms*  
 Shot or lead *60#*  
 Bottom *dr. vol. S.*  
 Bottom temperature *35.0*  
 No. of thermometer *92449* Cor.  
 Corrected temperature  
 Air *81* Surface *80* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>44.35</i>	<i>8-21-30</i>	0		
<i>45.25</i>	<i>20-20</i>	100		
<i>46.10</i>	<i>19-20</i>	200		
<i>47.55</i>	<i>18-20</i>	300		
<i>48.40</i>	<i>17-15</i>	400		
<i>49.35</i>	<i>16-10</i>	500		
<i>50.25</i>	<i>15-05</i>	600		
<i>51.20</i>	<i>14-05</i>	700		
<i>52.20</i>	<i>13-00</i>	800		
<i>53.15</i>	<i>11-55</i>	900		
<i>54.15</i>	<i>10-45</i>	1000		
<i>55.15</i>	<i>09-35</i>	1100		
<i>56.15</i>	<i>08-25</i>	1200		
<i>57.20</i>	<i>07-10</i>	1300		
<i>58.25</i>	<i>05-45</i>	1400		
<i>59.30</i>	<i>04-30</i>	1500		
<i>00.35</i>	<i>03-00</i>	1600		
<i>01.20</i>	<i>02-20</i>	<i>1650</i>		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

17° 35'	South	2500	148° 48'	West
OK		2600		
2405		2700		
<u>2</u>		2800		
		2900		
		3000		
		3100		
		3200		
3600	153	3300		
1650	48	3400		
<hr/>	<hr/>	3500		
1950	105	3600		
	1650	3700		
	<hr/>	3800		
	1755	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:



2172 Cat No 952

No. 180 Date 15 Nov 90

Sigsbee Machine. Reel.

Turns 905 Cor. + 76 Depth 981 fms

Shot or lead 35

Bottom Cr Volc sand Pk

Bottom temperature 36.70

No. of thermometer 92429 Cor.

Corrected temperature

Air 89 Surface 79 Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
11 54 00	17 20	0		
55 20	16 30	100		
56 10	15 35	200		
57 10	14 30	300		
58 15	13 20	400		
59 25	12 10	500		
1 00 30	11 00	600		
01 50	10 10	700		
02 20	09 20	800		
03 00	07 10	900		
03 10	05 20	1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

17° 30' South ok H.C.S. <del>2000</del> <del>2100</del> <del>2200</del> <del>2300</del> <del>2400</del> <del>2500</del> <del>2600</del> <del>2700</del> <del>2800</del> <del>2900</del> <del>3000</del> <del>3100</del> <del>3200</del> <del>3300</del> <del>3400</del> <del>3500</del> <del>3600</del> <del>3700</del> <del>3800</del> <del>3900</del> <del>4000</del>		2500	149° 41' West		
		2600	Between Receptor & Morgan 5' from N.E. Pt of latter.		
		2700			
		2800			
		2900			
		3000			
		3100			
		3200			
		3300			
		3400			
		3500	4693	211	
		3600	905	135	
		3700	3788	76	
		3800		905	
	3900		981		
	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.

No.

*Surface*

Date

*16 Nov 1881*

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		

16° 40' South

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

151° 06' West

About 5' NW of  
Streakline.

SERIAL TEMPERATURES.

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

REMARKS:

Temperature 15° 33'  
" " " " 15° 32'

Stoughton

Pat Log 93.3

No. A. B. 181 Date 22 Nov. 99

Sigsbee Machine. #2 Reel. Built Up  
Turns 2335 Cor. + 163 Depth 2498 fms.

Shot or lead 60 Lb.

Bottom Sh. Sand, M. S. G. S. No. specimen

Bottom temperature 34.70

No. of thermometer 92443 Cor.

Corrected temperature

Air 81 Surface 79 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
1- 03.40	02.20	0		
05 =	01.05	100		
05.50	59.55	200		
06.40	58.45	300		
07.30	57.40	400		
08.35	56.40	500		
09.20	55.35	600		
10.15	54.30	700		
11.05	53.20	800		
12.15	52.10	900		
13.15	51 =	1000		
14.15	49.50	1100		
15.20	48.40	1200		
16.25	47.25	1300		
17.30	46.10	1400		
18.40	44.55	1500		
19.50	43.35	1600		
21 =	42.15	1700		
22.20	40.50	1800		
23.40	39.25	1900		
25 =	37.50	2000		
26.20	36.15	2100		
27.45	34.30	2200		
29.10	32.35	2300		
30 =	31.05	2335		
		2400		

18° 54' South	2500	162° 31' W
OK H. G. S.	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	4693
3600	2335	48
3700		
3800	2358	163
3900		2335
4000		2498

SERIAL TEMPERATURES.

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

REMARKS:

Spring in sounding - cup too weak to retain specimens of bottom

No. *A.A. 182* Date *23 Nov. 1899*  
*Sigsbee* Machine. *#2* Reel. *Built up*  
 Turns *2704* Cor. + *178* Depth *2882 fms.*  
 Shot ~~or lead~~ *60 #* *OK*  
 Bottom *Mud Clay - Glob. H.C.*  
 Bottom temperature *33.4*  
 No. of thermometer *92443* Cor.  
 Corrected temperature  
 Air *92* Surface *82* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9. 36.40</i>		0	<i>11. 06.15</i>	
<i>37.40</i>		100	<i>07.30</i>	
<i>39.30</i>		200	<i>08.50</i>	
<i>41.10</i>		300	<i>10.10</i>	
<i>43.05</i>		400	<i>11.25</i>	
<i>44.00</i>		500	<i>12.35</i>	
<i>45.50</i>		600	<i>13.40</i>	
<i>47.45</i>		700	<i>14.45</i>	
<i>49.40</i>		800	<i>15.50</i>	
<i>51.40</i>	<i>31-30</i>	900	<i>17.20</i>	
<i>53.40</i>	<i>30-40</i>	1000	<i>11-19.05</i>	
<i>46.30</i>	<i>29-35</i>	1100		
<i>47.10</i>	<i>28-30</i>	1200		
<i>48.45</i>	<i>27-20</i>	1300		
<i>49.50</i>	<i>26-20</i>	1400		
<i>51.00</i>	<i>25-15</i>	1500		
<i>52.10</i>	<i>24-15</i>	1600		
<i>53.20</i>	<i>23-00</i>	1700		
<i>54.30</i>	<i>21-55</i>	1800		
<i>55.45</i>	<i>20-45</i>	1900		
<i>57.00</i>	<i>19-35</i>	2000		
<i>58-20</i>	<i>18-25</i>	2100		
<i>59.45</i>	<i>17-10</i>	2200		
<i>10- 01. 10</i>	<i>15-55</i>	2300		
<i>02.30</i>	<i>10.14.50</i>	2400		

180 59' S. 164047' 20.

15-03-15	15.25	2500	
15-20	17.00	2600	
16-45	10.09.10	2700	
10.06.50		<del>2700</del>	
		2800	
		2900	4693
		3000	2704
		3100	1989
		3200	158
		3300	2704
		3400	2882
		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				

10.21.00 AM

REMARKS:

Shot Core along 140 fathoms  
 pulled up but Core wire at 9.45 fms  
 7 at 1/2 Built up reel in brackets  
 - been in balance of wires



Correction readings for  
 No. *3* Built-up Reel.  
 Date *23 Nov = 1899.*  
 No. *Sigsbee* Machine. *3* Reel. Built-up.

Turns Cor. + Depth  
 Shot or lead  
 Bottom *H.C.S.*  
 Bottom temperature  
 No. of thermometer Cor.  
 Corrected temperature  
 Air Surface Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
Down.	Ups.		Down	Ups.
50	48 - 2	20	1400	1415 + 15
100	98 - 2	2100	50	17 + 17
50	48 - 2	2200	1500	1518 + 18
200	198 - 2	2300	50	70 + 20
50	48 - 2	1400	1600	1627 + 27
300	298 - 2	1500	50	74 + 24
50	48 - 2	1600	1700	1726 + 26
400	398 - 2	1700	50	78 + 28
50	49 - 1	0800	1800	1829 + 29
500	498 - 2	0900	50	81 + 31
50	49 - 1	01000	1900	1933 + 33
600	599 - 1	1100	50	85 + 35
50	50 - 0	1200	2000	2037 + 37
700	700 - 0	21300	50	89 + 39
50	51 + 1	31400	2100	2141 + 41
800	802 + 2	41500	50	93 + 43
50	53 + 3	51600	2200	2245 + 45
900	904 + 4	61700	50	97 + 47
50	55 + 5	71800	2300	2349 + 49
1000	1006 + 6	81900	50	2401 + 51
50	57 + 7	92000	2400	53 + 53
1100	1108 + 8	102100	50	2505 + 55
50	59 + 9	112200	2500	57 + 57
1200	1210 + 10	122300	50	2610 + 60
50	61 + 11	132400	2600	62 + 62
1300	1312 + 12	14	50	2715 + 65
50	64 + 14	15		

<u>Turns</u>	<u>Fms</u>	<u>Turns</u>	<u>Fms</u>
2700	2768 + 68	70 <sup>2500</sup>	3500
50	2821 + 71	73 <sup>2600</sup>	50
2800	2874 + 74	76 <sup>2700</sup>	3600
50	2927 + 77	79 <sup>2800</sup>	50
2900	2980 + 80	82 <sup>2900</sup>	3700
50	3033 + 83	85 <sup>3000</sup>	50
3000	3086 + 86	88 <sup>3100</sup>	3800
50	3139 + 89	91 <sup>3200</sup>	50
3100	3192 + 92	94 <sup>3300</sup>	3900
50	3245 + 95	97 <sup>3400</sup>	50
3200	3298 + 98	100 <sup>3500</sup>	4000
50	51 + 101	103 <sup>3600</sup>	50
163300	3404 + 104	106 <sup>3700</sup>	4100
50	57 + 107	109 <sup>3800</sup>	50
183400	3510 + 110	112 <sup>3900</sup>	4200
50	67 + 113	116 <sup>4000</sup>	50
			4431 + 180

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100	At 4300 fms. on measuring reel			
200	the wire on old reel became			
300	jammed between flange & bed plate.			
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

Method of filling up as before - with steam run about, and tension at 35 to 40 lbs. at crosshead. Friction line on old reel at maximum, lead height to accommodate itself to the twisted part.

No. Date

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air Surface Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4300	4485 + 155	184		
50	4540 + 194	189		
4400	94 + 194	200		
50	4649 + 199	300		
4500	4704 + 204	400		
50	59 + 209	500		
4600	4814 + 214	600		
50	69 + 219	700		
4700	4924 + 224	800		
50	79 + 229	900		
4800	5034 + 234	1000		
50	89 + 239	1100		
4900	5144 + 244	1200		
50	99 + 249	1300		
5000	5254 + 254	1400		
37	95 + 258	1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		5294
		2200		5037
		2300		<u>257</u>
		2400		

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

SERIAL TEMPERATURES

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				
200		5037		
300		258		
400		<hr/>		
500		5295		
600				
700				
800				
900				
1000				

REMARKS:

501 *W. L. Hutchinson* *Port Log 733*

No. *183* Date *24 Nov 99*

*Sigsbee* Machine. #3 Reel. Built up

Turns *2289* Cor. + *183* Depth *2472 fms*

Shot or lead *60#*

Bottom *Red Clay, Red Clay*

Bottom temperature *33.9°*

No. of thermometer *92443* Cor.

Corrected temperature

Air *78* Surface *80* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6.29.10</i>	<i>746.40</i>	0	<i>8 A.M.</i>	<i>12-38.00</i>
<i>50.50</i>	<i>45.20</i>	100	<i>04.10</i>	<i>34.40</i>
<i>51.40</i>	<i>44.15</i>	200	<i>08.45</i>	<i>30.35</i>
<i>52.30</i>	<i>43.15</i>	300	<i>12.10</i>	<i>26.20</i>
<i>53.20</i>	<i>42.10</i>	400	<i>15.35</i>	<i>22.40</i>
<i>54.20</i>	<i>41 =</i>	500	<i>18.45</i>	<i>18.50</i>
<i>55.15</i>	<i>39.50</i>	600	<i>22.10</i>	<i>14.50</i>
<i>56.10</i>	<i>38.40</i>	700	<i>24.30</i>	<i>10.40</i>
<i>57.00</i>	<i>37.25</i>	800	<i>27.40</i>	<i>09.00</i>
<i>58.05</i>	<i>36.15</i>	900	<i>30 =</i>	<i>05.10</i>
<i>59.10</i>	<i>35.10</i>	1000	<i>33.50</i>	<i>12.00-15</i>
<i>60.10</i>	<i>34.00</i>	1100	<i>35 =</i>	<i>55-14</i>
<i>01.20</i>	<i>32.45</i>	1200	<i>37.15</i>	<i>21.00</i>
<i>02.20</i>	<i>31.30</i>	1300	<i>39.30</i>	<i>16.30</i>
<i>03.30</i>	<i>30.15</i>	1400	<i>42 =</i>	<i>13.40</i>
<i>04.20</i>	<i>28.55</i>	1500	<i>44 =</i>	<i>39.00</i>
<i>05.55</i>	<i>27.30</i>	1600	<i>46.20</i>	<i>32.20</i>
<i>07.10</i>	<i>26.00</i>	1700	<i>48.30</i>	<i>27.40</i>
<i>08.20</i>	<i>24.55</i>	1800	<i>50.30</i>	<i>22.40</i>
<i>09.40</i>	<i>23.15</i>	1900	<i>53 =</i>	<i>17.40</i>
<i>10.55</i>	<i>21.50</i>	2000	<i>55.30</i>	<i>13.20</i>
<i>12.15</i>	<i>20.25</i>	2100	<i>57.50</i>	<i>09.30</i>
<i>13.40</i>	<i>19.00</i>	2200	<i>9 A.M.</i>	<i>05.20</i>
<i>15.00</i>	<i>17.30</i>	<i>2289</i>	<i>03.40</i>	<i>11-00.50</i>
		2400	<i>05.10</i>	<i>55.30</i>

190041 ३. 1670 41! २५१

457  
3

2500	08.20	51.20
2600	10.30	47.40
2700	13.40	43.30
2800	15.20	38.50
2900	17.40	33.50
3000	20.10	28.20
3100	22.10	23 =
3200	25.50	17.30
3300	27.30	10-11.50
3400	31.10	10.05 20
3500		
3600		
3700		
3800		
3900	10.00	
4000		

SERIAL TEMPERATURES.

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

REMARKS.

Wire stretched 4 1/2 turns.

Surface Net was 9<sup>30</sup> AM.  
 " " " " 9<sup>55</sup> "

W. L. Cat. Log, 159  
 No. *A. G. 184* Date *26<sup>th</sup> Nov. 20*  
 Sigsbee Machine. *3* Reel. *Reel 1*  
 Turns *292* Cor. + *216* Depth *3141* fms.  
 Shot or lead *60#*  
 Bottom *Red clay*  
 Bottom temperature *34° F*  
 No. of thermometer *92443* Cor.  
 Corrected temperature  
 Air *81°* Surface *80°* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1.01.20</i>	<i>2.20.50</i>	0		
<i>02.25</i>	<i>19.30</i>	100		
<i>03.15</i>	<i>18.25</i>	200		
<i>04.00</i>	<i>17.15</i>	300		
<i>04.50</i>	<i>16.10</i>	400		
<i>05.50</i>	<i>15.10</i>	500		
<i>06.40</i>	<i>14.05</i>	600		
<i>07.40</i>	<i>13.00</i>	700		
<i>08.40</i>	<i>11.55</i>	800		
<i>09.40</i>	<i>10.50</i>	900		
<i>10.40</i>	<i>09.40</i>	1000		
<i>11.45</i>	<i>08.35</i>	1100		
<i>12.50</i>	<i>07.25</i>	1200		
<i>14.00</i>	<i>06.10</i>	1300		
<i>15.00</i>	<i>04.45</i>	1400		
<i>16.10</i>	<i>03.20</i>	1500		
<i>17.20</i>	<i>01.45</i>	1600		
<i>18.30</i>	<i>2.00.10</i>	1700		
<i>19.40</i>	<i>58.35</i>	1800		
<i>20.55</i>	<i>56.50</i>	1900		
<i>22.10</i>	<i>54.50</i>	2000		
<i>23.30</i>	<i>52.55</i>	2100		
<i>24.45</i>	<i>51.00</i>	2200		
<i>26.00</i>	<i>49.00</i>	2300		
<i>27.25</i>	<i>47.05</i>	2400		

20° 15' South 172° 00' W.

1.2845	45.15	2500		
32.05	45.20	2600		
31.30	46.20	2700		
32.50	39.15	2800		
34.15	37.00	2900		
34.35	36.50	2925		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600	5035	360
		3700	2925	44
		3800	2110	216
		3900		2925
		4000		3141

SERIAL TEMPERATURES.

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

REMARKS:



Starbuck Pat. Log. 6-5

No. 185 Date 27 Nov 99  
 Machine #3 Reel Built up  
 Turns 3925 Cor. + 258 Depth 4173 fms.  
 Shot or lead 40 lb  
 Bottom No specimen  
 Bottom temperature  
 No. of thermometer 22443 Cor.  
 Corrected temperature  
 Air 74 Surface 77 Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
4.36 =	6.24.30	0	7.25.30	4.09.40
07.10	23.10	100	30.20	54.10
08 =	21.35	200	34.30	50.10
08.55	20.55	300	38.30	45.40
09.50	19.50	400	42.10	10.25
10.40	18.40	500	45.40	06.35
11.40	17.35	600	49 =	3.02.45
12.30	16.30	700	52.00	37.05
13.35	15.25	800	55.50	36.00
14.35	14.20	900	57.40	32.15
15.40	13.10	1000	59.40	47.45
16.45	12 =	1100	1.01.50	43.40
17.55	10.50	1200	03.50	39.35
19 =	09.35	1300	05.40	35.55
21.10	08.15	1400	07.30	31.45
22.20	06.55	1500	09.15	27.30
23.30	05.30	1600	11.25	23.20
24.40	04 =	1700	13.10	19.45
25.55	02.30	1800	15.00	15.45
27.10	5.00.50	1900	17.00	11.45
28.25	59.20	2000	18.00	07.25
29.40	57.45	2100	20.30	2.02.50
31 =	56.10	2200	25.30	58.35
32.20	54.30	2300	27.00	53.50
33.35	52.30	2400	28.25	48.40

21° 18 South 173° 31' W,

35 =	47.20	2500	8.31.20	43.45
36.20	47.45	2600	32.15	38.55
38.45	47.40	2700	35.00	34.20
40.10	47.15	2800	36.35	29.50
41.25	48.15	2900	40.00	25.15
43 =	37.20	3000	45.30	19.30
45.25	35.30	3100	57.10	13.45
46.15	32.30	3200	56.10	08.10
47.40	29.30	3300	9.02.10	1.02.00
48.10	26.30	3400	05.10	54.20
50.40	23.30	3500	10.20	48.30
52.15	20.20	3600	14.20	41.30
53.40	16.30	3700	17.30	34.20
55.20	12.50	3800	21.30	26.30
56.55	08.25	3900	25.45	19.10
57.30	5.09.10	4000	9.00	12.00

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
25				
50				
100				260
200				19
300				248
400				3955
500				4173
600				
700				
800				
900				
1000				

REMARKS:

Lost stray line, sounding cup and thermometer  
7x 92448.

First haul 700 fms  
At 336 fms stopped, found large kinks in wire - vent on clamps  
Took out kinks; began reeling in at 3.03.  
3.57.30 (stop) large kinks. - stopped.

*At sea*  
*185*

*Continued*

No. 185 Date 27<sup>th</sup> May, 1899

Machine. Reel.

Turns 392 Cor. + 258 Depth 4173 fms

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		
		4 100	9.34.10	12.04.10
		4 200	30.50	55.20
		4 300	41.50	47.30
		4 400	42.40	39.50 =
		4 500	49.25	32.50
		4 600	52.50	25.50
		4 700	59.50	17.10
		4 800	10-01.00	16.40
		4 900	02.30	56.10
		5 000	10-09-40	10.47.10
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

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

SERIAL TEMPERATURES.

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

REMARKS:

Reel again to 20 fms - stopped at  
 4:30 - ahead at 4:07 20  
 Reel started 41 fms

Hutchinson

Pat. Log 22.7

No. 186 Date 27 Nov 99

Sigsbee Machine #3 Reel. Built 1890

Turns 4255 Cor. + 255 Depth 4540 fms.

Shot or lead 60#

Bottom Light Brown Yef muds.

Bottom temperature 34.2

No. of thermometer 92779 Cor.

Corrected temperature Sounding Cup #2.

Air 76 Surface 77 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
6-26 =	9-17.15	0		
27.45	16.05	100		
28.35	15.00	200		
29.20	13-15	300		
30.15	12.10	400		
31.10	11.45	500		
32 =	10.40	600		
33 =	09.30	700		
34.10	08.20	800		
34.55	07.05	900		
35.10	05.50	1000		
36.15	04.35	1100		
37.20	03.15	1200		
38.25	02.00	1300		
39.35	9-00.30	1400		
40.45	59.00	1500		
42 =	57.20	1600		
43.20	55.40	1700		
44.30	54-00	1800		
45.45	52.20	1900		
48 =	50.30	2000		
49.20	48.45	2100		13
50.45	46.45	2200		
52.05	44.40	2300		145
53.30	8-42.20	2400		

21° 18' S. 173° 51' W.

54.55	32.50	2500	
56.20	31.20	2600	
57.45	30.45	2700	1.35
59.05	29.10	2800	
7:00.30	27.75	2900	
01.50	26.15	3000	
03.20	25.10	3100	
04.40	19.00	3200	
06.35	15.20	3300	
08.05	10.20	3400	
09.40	04.50	3500	
11.20	57.30	3600	5.20
13.35	51.35	3700	
15.30	46.10	3800	
17.20	41.10	3900	
19 =	37.15	4000	

SERIAL TEMPERATURES.

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

*Continued  
in next page*

*260*

*52.35*

REMARKS:

Continued

No. *A.A. 186* Date *27 Nov 99*  
*Sigsbee* Machine. *#3* Reel. *Built up*  
 Turns *4285* Cor. + *255* Depth *4540 fms*  
 Shot or lead *60 lb*  
 Bottom *Lt br vol M*  
 Bottom temperature  
 No. of thermometer *92449* Cor.  
 Corrected temperature  
 Air Surface Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
		0		
<i>7-20.40</i>	<i>33.40</i>	<i>100</i>		
<i>21.35</i>	<i>29.50</i>	<i>200</i>		
<i>23 =</i>	<i>7-26.30</i>	<i>4285</i>		
		<i>300</i>		
		<i>400</i>		
		<i>500</i>		
		<i>600</i>		
		<i>700</i>		
		<i>800</i>		
		<i>900</i>		
		<i>5000</i>		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

OK  
24.87

	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		5035		260
300		4275		0
400		<u>750</u>		<u>255</u>
500				4280
600				<u>4540</u>
700				
800				
900				
1000				

REMARKS:



No. *W.L.* *Cat. Log.* *85.7*

No. *A 9* *187* Date *4<sup>th</sup> Dec 1899*

*Sigsbee* Machine. *3* Reel. *Built up*

Turns *619* Cor. + *63* Depth *682 fms*

Shot or lead *35 pounds*

Bottom *Coral sand & lot of shells*

Bottom temperature

No. of thermometer = = = Cor.

Corrected temperature

Air *76* Surface *79* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2.15.00</i>	<i>37.10</i>	0		
<i>16.50</i>	<i>35.25</i>	100		
<i>18.00</i>	<i>34.20</i>	200		
<i>20.00</i>	<i>33.15</i>	300		
<i>21.50</i>	<i>32.10</i>	400		
<i>23.30</i>	<i>31.00</i>	500		
<i>25.30</i>	<i>29.50</i>	600		
<i>26.00</i>	<i>22.30</i>	<i>619</i>		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

18° 47' South 174° 15' W.

OK H.C.P. 2		2500	West of Taveuni Group - Tonga Is.	
		2600		
		2700		
		2800		
		2900		
		3000		
		3100		
		3200		
		3300		
		3400		
		3500		
		3600		
	5035	260		3700
	619	197		3800
<u>4416</u>	<u>663</u>	3900		
	617	4000		
	<u>682</u>			

SERIAL TEMPERATURES.

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

REMARKS:

Hutchinson Port Aug 102

No. 22188 Date 6 Dec 1879

Sigsbee Machine #3 Reel. Built Up

Turns 1265 Cor. + 116 Depth 1381 fms

Shot or lead 60#

Bottom Thomas r gbb. oz.

Bottom temperature 36.2

No. of thermometer 92449 Cor.

Corrected temperature

Air 78 Surface 79 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3-42.10	17.50	0		
43.30	16.40	100		
44.20	15.30	200		
45.10	14.20	300		
46 =	13.55	400		
47 =	12.30	500		
48.05	11 =	600		
49.05	09.30	700		
50.10	07.55	800		
51.15	06.20	900		
52.25	04.45	1000		
53.35	03.10	1100		
54.50	4:00.30	1200		
56 =	59.30	1265		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

18° 47' South

175° 28' W.

⑤  
24

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

5035	260
<u>1265</u>	<u>144</u>
3770	116
	<u>1265</u>
	1381

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
05				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

No. *N 184* Date *Dec 1899*  
*Sigsbee* Machine *#31* Reel *Lucas*  
 Turns *411* Cor. + *218* Depth *453 fms*  
 Shot or lead *35 pounds*  
 Bottom *fn. oz. Coral Sand, few sh.*  
 Bottom temperature *42*  
 No. of thermometer *92449* Cor.  
 Corrected temperature  
 Air *80* Surface *79* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>7-34-50</i>	<i>8-49-50</i>	0		
<i>35-40</i>	<i>48-30</i>	100		
<i>16-45</i>	<i>47-30</i>	200		
<i>37-50</i>	<i>46-15</i>	300		
<i>38-55</i>	<i>44-40</i>	400		
<i>8-39-00</i>	<i>8-44-30</i>	<i>411</i>		<i>33</i>
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

18° 50' South 178° 28' 70.

OK 2100		2500	Center of space between Notoke, Nomonke, and Yanqasa - Low Amp Tiji.
		2600	
		2700	
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
		3700	
		3800	
3900			
4000			

50.35	360
411	218
<hr/>	<hr/>
4624	42
	411
	203

SERIAL TEMPERATURES.

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

REMARKS:

No. *A. H. 190* Date *7 Dec 1891*  
 Machine *3* Reel *1*  
 Turns *324* Cor. + *30* Depth *324 fms*  
 Shot or lead *35 lb*  
 Bottom *coral sand green mud*  
 Bottom temperature *47*  
 No. of thermometer *9259* Cor.  
 Corrected temperature  
 Air *81* Surface *79* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>9:48</i>	<i>10-</i>	0		
<i>55-40</i>	<i>57-40</i>	100		
<i>53-00</i>	<i>16-30</i>	200		
<i>9:53-20</i>	<i>9:55-25</i>	<i>324</i>		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

18° 54' S. 178° 35' W.

OK  
H. C.

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

Bottom - depth of  
gyroscopic group  
W. Thompson's

5035 260  
294 230  
4971 30  
320

SERIAL TEMPERATURES.

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

REMARKS:



No. *A. D. 191* Date *7 Dec 1899*  
 Machine. *Sigsbee* Reel. *Reel 56*  
 Turns *545* Cor. + *55* Depth *600*  
 Shot or lead *35 lb*  
 Bottom *60 fms Sigsbee Bk. sh. spec. fine*  
 Bottom temperature *39.2*  
 No. of thermometer *72449* Cor.  
 Corrected temperature  
 Air *79* Surface *79* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.03.30</i>	<i>11.17.25</i>	0		
<i>04.30</i>	<i>16.26</i>	100		
<i>05.10</i>	<i>15.29</i>	200		
<i>07.10</i>	<i>14.10</i>	300		
<i>08.50</i>	<i>13.15</i>	400		
<i>09.40</i>	<i>12.10</i>	500		
<i>10.20</i>	<i>11.11.00</i>	<i>545</i>		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

18° 56' South 178° 43' W.

OK  
 1100  
 2

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

318130 W (map)  
 from West end  
 of Kamaoka Id.

53.5 260  
 54.0 200  
 54.5  
 600

SERIAL TEMPERATURES.

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

REMARKS:

No. *192* Date *11 Dec 1904*  
 Machine. *Sigsbee* Reel. *No. 1*  
 Turns *409* Cor. + *41* Depth *450*  
 Shot or lead *35 lb*  
 Bottom *Coar. Sand. Mang. G. S. Sh.*  
 Bottom temperature *42.0*  
 No. of thermometer *72449* Cor.  
 Corrected temperature  
 Air *65* Surface *79* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12:12</i>	<i>24:00</i>	0		
<i>13:10</i>	<i>22:40</i>	100		
<i>14:20</i>	<i>21:20</i>	200		
<i>15:30</i>	<i>19:50</i>	300		
<i>16:50</i>	<i>17:15</i>	400		
<i>17:00</i>	<i>17:05</i>	<i>409</i>		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

18° 56' South		2500	178° 50' W.
OK		2600	2 7/10 mile
2400		2700	N 190 W (mag)
		2800	low of aramoto.
		2900	Is. Fiji,
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
50.25	2.00	3600	
42.8	2.19	3700	
46.26	4.1	3800	
	40.2	3900	
	45.0	4000	

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
75				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:

*Hutchinson* Pat Log. 16.4

No. *N. A. 193* Date *9 Dec '99*  
*Sigsbee* Machine # *3* Reel. *Built up*  
 Turns *902* Cor. + *88* Depth *990 fms.*  
 Shot or lead *35 #*  
 Bottom *Very fine St. fl. Coral sand day.*  
 Bottom temperature *37*  
 No. of thermometer *72449* Cor.  
 Corrected temperature  
 Air *82* Surface *80* Drift  
 Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>33.50</i>	<i>58.15</i>	0		
<i>34.55</i>	<i>57 =</i>	100		
<i>35.50</i>	<i>55.50</i>	200		
<i>36.50</i>	<i>54.35</i>	300		
<i>37.55</i>	<i>53.20</i>	400		
<i>39 =</i>	<i>52.05</i>	500		
<i>40.15</i>	<i>50.50</i>	600		
<i>41.40</i>	<i>49.30</i>	700		
<i>43.15</i>	<i>48.10</i>	800		
<i>44.50</i>	<i>45.03</i>	900		
<i>44.51</i>	<i>45 =</i>	<i>902</i>		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

18° 56' 30" South 179° 16' 51"	2500	
	2600	
	2700	
	2800	
	2900	
	3000	
	3100	
	3200	
	3300	
	3400	
	3500	
	3600	
	3700	
	3800	
	3900	
4000		

OK  
H.C.F.

5035  
902  
-----  
4133

260  
172  
-----  
88  
912  
-----  
990

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. *194* Date *Feb 21 1909*  
 Machine *#3* Reel *Quill*  
 Turns *121* Cor. + *121* Depth *1445 fms.*  
 Shot or lead *60 lb.*  
 Bottom *S. gy. 35-6*  
 Bottom temperature  
 No. of thermometer *92449* Cor.  
 Corrected temperature  
 Air *87* Surface *85* Drift  
 Trawl or dredge *G. M. L. T. No. 1*

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>03.15</i>	<i>3.36.35</i>	0	<i>4.08.00</i>	<i>54.00</i>
<i>04.20</i>	<i>30.30</i>	100	<i>13.30</i>	<i>50.00</i>
<i>05.10</i>	<i>34.25</i>	200	<i>17.50</i>	<i>46.10</i>
<i>06.00</i>	<i>33.20</i>	300	<i>21.20</i>	<i>42.30</i>
<i>06.50</i>	<i>32.10</i>	400	<i>24.55</i>	<i>38.25</i>
<i>07.00</i>	<i>31.00</i>	500	<i>28.20</i>	<i>34.15</i>
<i>09.05</i>	<i>29.45</i>	600	<i>31.55</i>	<i>30.00</i>
<i>10.10</i>	<i>28.35</i>	700	<i>35.15</i>	<i>26.00</i>
<i>11.15</i>	<i>27.15</i>	800	<i>38.15</i>	<i>23.40</i>
<i>12.20</i>	<i>25.50</i>	900	<i>42.15</i>	<i>19.00</i>
<i>13.30</i>	<i>24.30</i>	1000	<i>46.15</i>	<i>15.05</i>
<i>14.40</i>	<i>23.00</i>	1100	<i>49.55</i>	<i>11.00</i>
<i>15.50</i>	<i>21.40</i>	1200	<i>53.20</i>	<i>07.30</i>
<i>17.10</i>	<i>20.15</i>	1300	<i>56.30</i>	<i>7.02.25</i>
<i>17.40</i>	<i>3.19.55</i>	<i>1320</i>	<i>59.30</i>	<i>58.00</i>
		1400	<i>5.02.30</i>	<i>53.00</i>
		1500	<i>05.40</i>	<i>48.35</i>
		1600	<i>08.35</i>	<i>44.00</i>
		1700	<i>11.50</i>	<i>39.30</i>
		1800	<i>15.20</i>	<i>33.20</i>
		1900	<i>19.00</i>	<i>25.00</i>
		2000	<i>21.05</i>	<i>10.00</i>
		2100	<i>27.20</i>	<i>6.05.20</i>
		2200		
		2300		
		2400		

12° 43' S      179° 50' W

OK  
ACF

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

235-260  
1324 130  
3711 1321  
1352  
1447

SERIAL TEMPERATURES.

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

450

REMARKS:

...  
 Halls at 2060 fms. for 2 mi.  
 " " 9120  
 Now stretched 20 fms  
 lost travel frame -  
 Arrived net  
 Very hard to start netting



*W. H. C. Sigsbee* *Reel Log*

No. *195* Date *22 Dec 1877*

*Tanner* Machine. Reel.

Turns *245* Cor. + *—* Depth *245 fms.*

Shot or lead *26#*

Bottom *Coar.*

Bottom temperature }  
No. of thermometer } *none* Cor.

Corrected temperature

Air *86* Surface *86* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>11.39 =</i>	<i>47.05</i>	0		
<i>40.30</i>	<i>45.40</i>	100		
<i>41.30</i>	<i>43.50</i>	200		
<i>42 =</i>	<i>42.30</i>	<i>245</i>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

10° 47' S 179° 30' E

OK  
H.C. 1/2

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

Pos<sup>n</sup> - about 2  
miles south  
west of south  
end of Sophia  
or Yubakita Is.

SERIAL TEMPERATURES.

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

REMARKS:

The correction for number of  
turns at this station is est<sup>d</sup>  
to be practically the same  
as the loss from trend of  
wire from perpendicular.

H.C.

Stamps

No. 196 Date 20 June 1899

Machine. Reel.

Turns — Cor. + — Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air 92 Surface 88 Drift

Trawl or dredge Large submersible

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>11:00</u>	<u>37:40</u>	0		
<u>12:00:20</u>	<u>34:40</u>	100		
<u>04:50</u>	<u>30:30</u>	200		
<u>07:00</u>	<u>27:30</u>	<u>250</u>		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

8° 25' South 179° 08' E,

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

3' 7 1/2 (New)  
of North East  
to Funafuti  
Lagoon.

SERIAL TEMPERATURES.

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

REMARKS:

Surface net cast at 11-27-00  
" " " " " " 12-28-00

F. Hutchinson Cat Log } 9.8  
 16.8

No. *S. A. 197* Date *2<sup>nd</sup> Jan 1900*  
*Sigsbee* Machine. #3 Reel. Built Up  
 Turns *2050* Cor. + *171* Depth *2221 fms*  
 Shot or lead *60 lb.*  
 Bottom *gl. s. m. light sh.*  
 Bottom temperature *35*  
 No. of thermometer *92449* Cor.  
 Corrected temperature  
 Air *83* Surface *83* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>2. 42.35</i>	<i>34.20</i>	0		
<i>43.50</i>	<i>33.10</i>	100		
<i>44.40</i>	<i>32.05</i>	200		
<i>45.50</i>	<i>31 =</i>	300		
<i>46.45</i>	<i>30.50</i>	400		
<i>47.45</i>	<i>29.50</i>	500		
<i>48.40</i>	<i>28.45</i>	600		
<i>49.45</i>	<i>27.35</i>	700		
<i>50.55</i>	<i>26.25</i>	800		
<i>51.55</i>	<i>25.15</i>	900		
<i>53 =</i>	<i>24 =</i>	1000		
<i>54.20</i>	<i>22.45</i>	1100		
<i>55.25</i>	<i>21.30</i>	1200		
<i>56.45</i>	<i>20.25</i>	1300		
<i>58 =</i>	<i>19.20</i>	1400		
<i>3.00.20</i>	<i>18.45</i>	1500		
<i>01.45</i>	<i>16.55</i>	1600		
<i>03.10</i>	<i>15.35</i>	1700		
<i>04.30</i>	<i>14.10</i>	1800		
<i>05.50</i>	<i>12.20</i>	1900		
<i>07.10</i>	<i>10.40</i>	2000		
<i>08 =</i>	<i>09.50</i>	<i>2050</i> <i>2100</i>		
		2200		
		2300		
		2400		

0° 30' N.

173° 35' E

OK  
11/10/06

2500		
2600	about	16m
2700	NW of	aperture
2800		
2900		
3000		
3100		
3200		
3300		
3400	5035	260
3500	2050	57
3600	2985	171
3700		2050
3800		2221
3900		fms
4000		

SERIAL TEMPERATURES.

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

REMARKS:

*[Handwritten mark]*

Station *198* Date *Jan 15 1900*  
 No. *198* Machine *Reel*  
 Turns *1249* Cor. + *1/6* Depth *1365 fms.*  
 Shot or lead *35 lb.*  
 Bottom *very large Sp. of gy. sponges*  
 Bottom temperature *35 -*  
 No. of thermometer *92449* Cor.  
 Corrected temperature  
 Air *84* Surface *84* Drift  
 Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>8.56.30</i>	<i>9.30.30</i>	0		
<i>57.30</i>	<i>29.30</i>	100		
<i>58.30</i>	<i>28.45</i>	200		
<i>59.30</i>	<i>27.30</i>	300		
<i>60.40</i>	<i>26.20</i>	400		
<i>01.10</i>	<i>25.10</i>	500		
<i>02.15</i>	<i>23.45</i>	600		
<i>03.25</i>	<i>22.35</i>	700		
<i>04.40</i>	<i>21.15</i>	800		
<i>05.20</i>	<i>19.55</i>	900		
<i>06.40</i>	<i>18.25</i>	1000		
<i>10.30</i>	<i>17.05</i>	1100		
<i>12.40</i>	<i>16.00</i>	1200		
<i>9.13.00</i>	<i>9.15.00</i>	<i>1249</i>		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

0046' N

173° 09' E

OK  
1100  
✓

9 m SE of  
Maiana

5030	260	3500
1240	100	3600
5750	116	3700
	1240	3800
	1360	3900
		4000

SERIAL TEMPERATURES.

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

REMARKS:



*W. M. L. Pat Log 692*

No. *190* Date *2 Jan 1900*

Machine, *3* Reel, *Built up*

Turns *375* Cor. + *38* Depth *413* fms

Shot or lead *60 pounds*

Bottom *cr. G. br. glob. Gy.*

Bottom temperature

No. of thermometer *92220* Cor.

Corrected temperature *43.50 F*

Air *92* Surface *84* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>06 00</i>	<i>14 50</i>	0		
<i>00 45</i>	<i>13 40</i>	100		
<i>07 35</i>	<i>12 30</i>	200		
<i>08 25</i>	<i>11 15</i>	300		
<i>09 00</i>	<i>10 15</i>	<i>375</i>		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1° 12' N.

173° 05' E

		2500	
		2600	St. Maiana
		2700	* Tarawa
		2800	
		2900	
		3000	
		3100	
		3200	
		3300	
		3400	
		3500	
		3600	
5035	265	3700	
375	222	3800	
4660	38	3900	
	375	4000	
	413		

## SERIAL TEMPERATURES.

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

REMARKS

*W. L. O. L.*  
 No. *200* Date *2<sup>nd</sup> June 1900*  
 Cannon Machine. Reel.

Turns *95* Cor. + *4* Depth *99 fms.*  
 Shot or lead

Bottom *Co.*

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *86* Surface *84* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>6<sup>00</sup> pm</i>	<i>95.</i>	0		
		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1° 20' N

173° 03' E

OK  
HCOI496  
95  
401

12

8

4

95

99

2500  
2600  
2700  
2800  
2900  
3000  
3100  
3200  
3300  
3400  
3500  
3600  
3700  
3800  
3900  
4000 $\frac{1}{2}$  m off South  
Coast of  
Jarawa

## SERIAL TEMPERATURES.

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

REMARKS:

*F. Hutchinson*

No. *201* Date *2<sup>nd</sup> Jan 79*  
Tanner Machine. Reel.  
Turns *200* Cor. + *8* Depth *208 fms.*

Shot or lead  
Bottom *Coval*

Bottom temperature  
No. of thermometer Cor.

Corrected temperature  
Air *86* Surface *84* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>1/3 Mile from</i>	<i>200 fms</i>	<i>0</i>		
<i>800 fms</i>		100		
		200		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

10 20' N

173° 04' E

~~10~~

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

abt 1/2 m off  
South coast  
of Tarawa

496

200

296

12

4

8

200

208

## SERIAL TEMPERATURES.

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

REMARKS:

*F. Hutchinson, Cat. Log 82*

No. *202* Date *3<sup>rd</sup> Jan 99*  
*Sigsbee* Machine. #3 Reel. *Built up*  
 Turns *1439* Cor. + *130* Depth *1569 fms*  
 Shot or Lead *35 lb*  
 Bottom *sl. G.*  
 Bottom temperature *35.3'*  
 No. of thermometer *93449* Cor.  
 Corrected temperature  
 Air *86* Surface *84* Drift  
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

<i>11.16 =</i>	<i>54.20</i>	0		
<i>17 =</i>	<i>53.05</i>	100		
<i>19.10</i>	<i>51.55</i>	200		
<i>20.20</i>	<i>50.55</i>	300		
<i>21.20</i>	<i>49.50</i>	400		
<i>22.40</i>	<i>48.45</i>	500		
<i>24 =</i>	<i>47.35</i>	600		
<i>24.50</i>	<i>46.30</i>	700		
<i>25.40</i>	<i>45.25</i>	800		
<i>27.10</i>	<i>44.15</i>	900		
<i>28.55</i>	<i>43.05</i>	1000		
<i>30.25</i>	<i>41.55</i>	1100		
<i>32 =</i>	<i>40.40</i>	1200		
<i>33.50</i>	<i>39.20</i>	1300		
<i>35.30</i>	<i>37.50</i>	1400		
<i>36.20</i>	<i>37.20</i>	1439		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1° 17' N

173° 09' E

OK  
H.C.O.  
→

2500		
2600	alt 5 m	
2700		
2800	512' S (true)	
2900		
3000	from S 87° E	
3100		
3200	of Jarawa	
3300		
3400		
3500	5035	260
3600	1439	130
3700	3596	130
3800		1439
3900		1569
4000		700

SERIAL TEMPERATURES.

DEPTH.	TEMP.	NO. OF THER.	COR.	COR. TEMP.
05				
50				
100				
200				
300				
400				
500				
600				
700				
800				
900				
1000				

REMARKS:



Station

No. *AA 203* Date *4<sup>th</sup> June 1900*

Signature *[illegible]* Machine. *10* Reel, *Rever 36*

Turns *174* Cor. + *16* Depth *170 (172)*

Shot or lead *35*

Bottom *glab. g. H. gr.*

Bottom temperature *51.3*

No. of thermometer *92449* Cor.

Corrected temperature

Air *81* Surface *84* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>00.30</i>	<i>01.30</i>	0		
<i>01.45</i>	<i>04.20</i>	100		
<i>02.15</i>	<i>03.30</i>	174		
		300		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

1° 40' 30" N

172° 59' 30" E

OK  
H.C. 2

5035  
154  
4881  
=

260  
244  
16  
152  
170

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

2<sup>m</sup> South of  
Apianq  
line with  
N Pt of  
Jeraisa

SERIAL TEMPERATURES.

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

REMARKS:

W. W. L. P. L. 55.0

No. *A. A. 204* Date *4 Jan 1900*  
 Machine. *#3* Reel. *Reel*  
 Turns *989* Cor. + *167* Depth *2156 fms*  
 Shot or lead *35 #*  
 Bottom *glb oz (small) lt gr*  
 Bottom temperature *34.9*  
 No. of thermometer *92449* Cor.  
 Corrected temperature  
 Air *85* Surface *84* Drift

Trawl or dredge

SOUNDING WIRE.

DREDGE ROPE.

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>10 37.00</i>	<i>28 25</i>	0		
<i>38 30</i>	<i>27 15</i>	100		
<i>39 30</i>	<i>26 05</i>	200		
<i>40 25</i>	<i>55</i>	300		
<i>41 25</i>	<i>24 00</i>	400		
<i>42 30</i>	<i>22 55</i>	500		
<i>43 25</i>	<i>21 50</i>	600		
<i>44 50</i>	<i>20 40</i>	700		
<i>46 00</i>	<i>19 30</i>	800		
<i>47 20</i>	<i>18 20</i>	900		
<i>48 35</i>	<i>17 10</i>	1000		
<i>49 50</i>	<i>16 00</i>	1100		
<i>51 15</i>	<i>14 50</i>	1200		
<i>52 40</i>	<i>13 50</i>	1300		
<i>54 05</i>	<i>12 45</i>	1400		
<i>55 35</i>	<i>11 40</i>	1500		
<i>57 05</i>	<i>10 30</i>	1600		
<i>58 45</i>	<i>09 20</i>	1700		
<i>1 1 = 25</i>	<i>08 00</i>	1800		
<i>02 00</i>	<i>06 25</i>	1900		
<i>04 00</i>	<i>05 00</i>	<i>989</i>		
		2100		
		2200		
		2300		
		2400		

10521 JV

1730 15' E

OK  
Hob  
4

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

At halfway  
bet<sup>n</sup> Apianq  
& Maraki.

5035	260
1989	93
3046	167
	1989
	2156

SERIAL TEMPERATURES.

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

REMARKS:

F. Hutchinson

Cat Log

No. 205

Date 4 Jan 1900

Sigsbee Machine. #3 Reel.

Built up

Turns 392 Cor. + 39

Depth 431 fms

Shot or lead 35 lb

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 85

Surface 83

Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
3- 21.10	31.30	0		
22.15	30.20	100		
23.10	29.05	200		
24.10	27.50	300		
25.34	26.30	392		
		400		
		500		
		600		
		700		
		800		
		900		
		1000		
		1100		
		1200		
		1300		
		1400		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2004' JV 1730 16' E

OK  
H.C.  
7

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

1/2 m NW x W  
(true) of Monument  
on West Shore  
of Maraki

5035	260
392	221
<u>4643</u>	<u>39</u>
	392
	<u>2131</u>
	from

SERIAL TEMPERATURES.

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

REMARKS:

001. *W. H. S. 1004-837*

No. *99206* Date *5 June 1900*

*Sigsbee* Machine. *K* Reel. *Hand up*

Turns *2082* Cor. + *173* Depth *2255 fms*

Shot or lead *60 lb*

Bottom *glb 3480*

Bottom temperature

No. of thermometer *9249* Cor.

Corrected temperature

Air *83* Surface *83* Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<i>12-01.30</i>	<i>12-51.00</i>	0		
<i>02.20</i>	<i>49-10</i>	100		
<i>03.00</i>	<i>48-40</i>	200		
<i>03.20</i>	<i>47-40</i>	300		
<i>04.30</i>	<i>46-30</i>	400		
<i>05.20</i>	<i>45-30</i>	500		
<i>06.20</i>	<i>44-20</i>	600		
<i>07.10</i>	<i>43-10</i>	700	<i>5035</i>	<i>260</i>
<i>08.10</i>	<i>42-00</i>	800	<i>2082</i>	<i>87</i>
<i>09.00</i>	<i>40-40</i>	900	<i>2953</i>	<i>173</i>
<i>10.10</i>	<i>39-30</i>	1000		<i>2082</i>
<i>11.10</i>	<i>38-10</i>	1100		<i>2250</i>
<i>12.10</i>	<i>36-55</i>	1200		
<i>13.20</i>	<i>35-30</i>	1300		
<i>14.30</i>	<i>34-10</i>	1400		
<i>15.30</i>	<i>32-50</i>	1500		
<i>16.45</i>	<i>31-30</i>	1600		
<i>17.55</i>	<i>30-00</i>	1700		
<i>19.05</i>	<i>28-40</i>	1800		
<i>20.15</i>	<i>27-10</i>	1900		
<i>21.25</i>	<i>25-30</i>	2000		
<i>22.10</i>	<i>24-20</i>	<i>2082</i>		
		2100		
		2200		
		2300		
		2400		

2027' N

1730 09' E

OK  
11005  
2

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

260  
208  
2953 173  
208  
225  
173

SERIAL TEMPERATURES.

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

REMARKS:



7977L Pat Log 5.2

No. 46207 Date 5 Jan 1900

Machine #3 Reel Built up

Turns 1339 Cor. + 122 Depth 1461 fms

Shot or lead 60

Bottom glot

Bottom temperature 35.3°

No. of thermometer 42449 Cor.

Corrected temperature

Air 83 Surface 83 Drift

Trawl or dredge

SOUNDING WIRE.		TURNS.	DREDGE ROPE.	
DOWN.	UP.		DOWN.	UP.
<u>4.45.50</u>	<u>21.15</u>	0		
<u>46.50</u>	<u>20.00</u>	100		
<u>47.40</u>	<u>18.50</u>	200		
<u>48.30</u>	<u>17.30</u>	300		
<u>49.30</u>	<u>16.00</u>	400		
<u>50.25</u>	<u>14.30</u>	500		
<u>51.25</u>	<u>12.55</u>	600		
<u>52.25</u>	<u>11.15</u>	700		
<u>53.20</u>	<u>09.30</u>	800		
<u>54.25</u>	<u>07.40</u>	900		
<u>55.30</u>	<u>06.00</u>	1000		
<u>56.35</u>	<u>04.30</u>	1100		
<u>57.45</u>	<u>03.00</u>	1200		
<u>58.50</u>	<u>01.40</u>	1300		
<u>59.30</u>	<u>5.01-</u>	<u>1339</u>		
		1500		
		1600		
		1700		
		1800		
		1900		
		2000		
		2100		
		2200		
		2300		
		2400		

2049 N

173001 E

OK  
102  
1/2

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

50.30  
13.39  
36.96

260  
138  
122  
1339  
1461

SERIAL TEMPERATURES.

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

REMARKS:

F. Hutchinson, Cat Log 94.3

No. *P. A. 208* Date *7 Jan. 1900*  
*Sigsbee* Machine. # *3* Reel. Built up.  
 Turns *2300* Cor. + *186* Depth *2486 fms*  
 Shot or lead *60#*  
 Bottom *lt. yk. Glob.*  
 Bottom temperature *34.7*  
 No. of thermometer *93449* Cor.  
 Corrected temperature  
 Air *53* Surface *53* Drift  
 Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

DOWN.	UP.	TURNS.
8-07.40	02.55	0
08.30	01.40	100
09.20	00.35	200
10.05	59.30	300
10.50	58.30	400
11.45	57.20	500
12.35	56.15	600
13.30	55.10	700
14.30	54.10	800
15.30	53 =	900
16.35	51.50	1000
17.40	50.30	1100
18.45	49.10	1200
19.50	48 =	1300
21.05	46.45	1400
22.15	45.25	1500
23.25	44.10	1600
24.40	43 =	1700
25.55	41.45	1800
27.10	40.30	1900
28.25	39.10	2000
29.45	37.50	2100
31.15	36.30	2200
32.40	34.25	2300
		2400

305412V 172000'E

CR  
MCS

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

5335  
2300  
2735

260  
74  
186  
2350  
2436

SERIAL TEMPERATURES.

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

REMARKS:

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

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