

#22.

Hawaiian Explorations.

D<sup>r</sup> 4174-4190.

H<sup>x</sup> 4694-4720.

Aug. 11<sup>th</sup> - 27<sup>th</sup>, 1902.

4716 Hy.  
12 ang.  
929 fms.

|  |      |  |
|--|------|--|
|  | 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. *Antineuron* 384 Cat Log 47.  
 No. *5* 4174 Date *Aug 11, 1902*  
*Sigsbee* Machine. #1 Reel. *Harvey*  
 Turns *675* Cor. + *80* Depth *735 fm*  
 Shot or lead *35 lbs*  
 Bottom *gy. s. m. Glob. R*  
 Bottom temperature *38.0*  
 No. of thermometer *98237* Cor. *—*  
 Corrected temperature *38.0*  
 Air *81* Surface *78* Drift *{ north 1.3'*  
 Trawl or dredge *9' Tanner*

| SOUNDING WIRE. |              | TURNS. | DREDGE ROPE.       |                 |
|----------------|--------------|--------|--------------------|-----------------|
| DOWN.          | UP.          |        | DOWN.              | UP.             |
| <i>9-27.40</i> | <i>42.15</i> | 0      | <i>9-50.20</i>     | <i>41.00</i>    |
| <i>28.30</i>   | <i>41.10</i> | 100    | <i>54.10</i>       | <i>37.10</i>    |
| <i>29.20</i>   | <i>40.15</i> | 200    | <i>58.20</i>       | <i>33.40</i>    |
| <i>30.15</i>   | <i>39.15</i> | 300    | <i>10-01.50</i>    | <i>30.20</i>    |
| <i>31.10</i>   | <i>38.10</i> | 400    | <i>05.35</i>       | <i>27.05</i>    |
| <i>32.15</i>   | <i>37.15</i> | 500    | <i>10.10</i>       | <i>23.40</i>    |
| <i>33.20</i>   | <i>36.10</i> | 600    | <i>14.00</i>       | <i>19.35</i>    |
| <i>34.20</i>   | <i>35.30</i> | 700    | <i>18.05</i>       | <i>15.15</i>    |
|                |              | 800    | <i>22.40</i>       | <i>11.10</i>    |
|                |              | 900    | <i>26.50</i>       | <i>11-02.30</i> |
|                |              | 1000   | <i>* 30.20</i>     | <i>02.40</i>    |
|                |              | 1100   | <i>37.00</i>       | <i>43.05</i>    |
|                |              | 1200   | <i>10-40.40</i>    |                 |
|                |              | 1300   | <i>3 min</i>       |                 |
|                |              | 1400   |                    |                 |
|                |              | 1500   | <i>Took bottom</i> |                 |
|                |              | 1600   | <i>at 1015 f</i>   |                 |
|                |              | 1700   |                    |                 |
|                |              | 1800   |                    |                 |
|                |              | 1900   |                    |                 |
|                |              | 2000   |                    |                 |
|                |              | 2100   |                    |                 |
|                |              | 2200   |                    |                 |
|                |              | 2300   |                    |                 |
|                |              | 2400   |                    |                 |

West Coast of Michuan Island  
Kona Point.  $\angle 18^{\circ}45' E, 6 \frac{7}{10}'$

OK  
H.C.  
2

4310  
675  
3635

205  
145  
62  
620  
735

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     | Start | No 4174      | =    | 384        |
| 50     | "     | 4694         |      |            |
| 100    |       |              |      |            |
| 200    |       |              |      |            |
| 300    |       |              |      |            |
| 400    |       |              |      |            |
| 500    |       |              |      |            |
| 600    |       |              |      |            |
| 700    |       |              |      |            |
| 800    |       |              |      |            |
| 900    |       |              |      |            |
| 1000   |       |              |      |            |

## REMARKS:

Saved to 1122 fms under 4000  
straw.  
One bridge strap carried away  
not slightly torn; some slippage  
tent.

*Hydrographic*  
 No. *4694* Hy. Date *Aug 11 1902.*  
*Sigsbee* Machine. #1 Reel. *King*  
 Turns *795* Cor. + *70* Depth *865 fms*  
 Shot or lead *35 lb*  
 Bottom *gy s. bk sh #v*  
 Bottom temperature *37.2*  
 No. of thermometer *78237* Cor. *-0*  
 Corrected temperature *37.2*  
 Air *80* Surface *78* Drift  
 Trawl or dredge

| SOUNDING WIRE.  |                 | TURNS.     | DREDGE ROPE. |     |
|-----------------|-----------------|------------|--------------|-----|
| DOWN.           | UP.             |            | DOWN.        | UP. |
| <i>11-44.55</i> | <i>12.01.15</i> | 0          |              |     |
| <i>45.45</i>    | <i>12.00.10</i> | 100        |              |     |
| <i>46.40</i>    | <i>59.10</i>    | 200        |              |     |
| <i>47.35</i>    | <i>58.15</i>    | 300        |              |     |
| <i>48.35</i>    | <i>58.00</i>    | 400        |              |     |
| <i>49.30</i>    | <i>57.05</i>    | 500        |              |     |
| <i>50.40</i>    | <i>56.10</i>    | 600        |              |     |
| <i>51.45</i>    | <i>55.20</i>    | 700        |              |     |
| <i>11.52.50</i> | <i>11.54.20</i> | <i>795</i> |              |     |
|                 |                 | 800        |              |     |
|                 |                 | 900        |              |     |
|                 |                 | 1000       |              |     |
|                 |                 | 1100       |              |     |
|                 |                 | 1200       |              |     |
|                 |                 | 1300       |              |     |
|                 |                 | 1400       |              |     |
|                 |                 | 1500       |              |     |
|                 |                 | 1600       |              |     |
|                 |                 | 1700       |              |     |
|                 |                 | 1800       |              |     |
|                 |                 | 1900       |              |     |
|                 |                 | 2000       |              |     |
|                 |                 | 2100       |              |     |
|                 |                 | 2200       |              |     |
|                 |                 | 2300       |              |     |
|                 |                 | 2400       |              |     |

Kona Point, S 16° E, 7<sup>8</sup>/<sub>10</sub>'

|                                                                           |     |      |  |
|---------------------------------------------------------------------------|-----|------|--|
| 816<br><del>816</del><br><del>816</del><br>4310<br><del>795</del><br>3515 |     | 2500 |  |
|                                                                           |     | 2600 |  |
|                                                                           |     | 2700 |  |
|                                                                           |     | 2800 |  |
|                                                                           |     | 2900 |  |
|                                                                           |     | 3000 |  |
|                                                                           |     | 3100 |  |
|                                                                           |     | 3200 |  |
|                                                                           |     | 3300 |  |
|                                                                           |     | 3400 |  |
|                                                                           | 205 | 3500 |  |
|                                                                           | 135 | 3600 |  |
|                                                                           | 70  | 3700 |  |
|                                                                           | 795 | 3800 |  |
|                                                                           | 865 | 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. *4695* *HY* Date *11 Aug. '07*  
*Sigsbee* Machine. 1 Reel. *Wray*  
 Turns *1063* Cor. + *91* Depth *1154*  
 Shot or lead *36 lb.*  
 Bottom *36°*  
 Bottom temperature  
 No. of thermometer *98237* Cor. *-0*  
 Corrected temperature *36.0°*  
 Air *79* Surface *77* Drift  
 Trawl or dredge

| SOUNDING WIRE.  |                 | TURNS.      | DREDGE ROPE. |     |
|-----------------|-----------------|-------------|--------------|-----|
| DOWN.           | UP.             |             | DOWN.        | UP. |
| <i>12.31.40</i> | <i>12.53.10</i> | 0           |              |     |
| <i>32.20</i>    | <i>52.10</i>    | 100         |              |     |
| <i>33.20</i>    | <i>51.10</i>    | 200         |              |     |
| <i>34.15</i>    | <i>50.10</i>    | 300         |              |     |
| <i>35.10</i>    | <i>49.10</i>    | 400         |              |     |
| <i>36.05</i>    | <i>48.15</i>    | 500         |              |     |
| <i>37.05</i>    | <i>47.15</i>    | 600         |              |     |
| <i>38.00</i>    | <i>46.15</i>    | 700         |              |     |
| <i>39.00</i>    | <i>45.15</i>    | 800         |              |     |
| <i>40.05</i>    | <i>44.15</i>    | 900         |              |     |
| <i>41.10</i>    | <i>43.15</i>    | 1000        |              |     |
| <i>41.50</i>    | <i>42.30</i>    | <i>1063</i> |              |     |
|                 |                 | 1100        |              |     |
|                 |                 | 1200        |              |     |
|                 |                 | 1300        |              |     |
|                 |                 | 1400        |              |     |
|                 |                 | 1500        |              |     |
|                 |                 | 1600        |              |     |
|                 |                 | 1700        |              |     |
|                 |                 | 1800        |              |     |
|                 |                 | 1900        |              |     |
|                 |                 | 2000        |              |     |
|                 |                 | 2100        |              |     |
|                 |                 | 2200        |              |     |
|                 |                 | 2300        |              |     |
|                 |                 | 2400        |              |     |

Kona Point, S 15° E, 10  $\frac{7}{10}$ '

|      |      |      |  |
|------|------|------|--|
|      |      | 2500 |  |
|      |      | 2600 |  |
|      |      | 2700 |  |
|      |      | 2800 |  |
|      |      | 2900 |  |
|      |      | 3000 |  |
|      |      | 3100 |  |
|      |      | 3200 |  |
|      |      | 3300 |  |
|      |      | 3400 |  |
| 4310 | 201  | 3500 |  |
| 1063 | 114  | 3600 |  |
| 3247 | 91   | 3700 |  |
|      | 1063 | 3800 |  |
|      | 1154 | 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:

*54-*  
 No. *H696* Date *Aug 02*  
 Machine. / Reel. *Reel*  
 Turns *334* Cor. + *33* Depth *367 fms*  
 Shot or lead *60*  
 Bottom *gy. br. s. Msh*  
 Bottom temperature *41.2*  
 No. of thermometer *98227* Cor. *-0*  
 Corrected temperature *41.2*  
 Air *79* Surface *77* Drift  
 Trawl or dredge

| SOUNDING WIRE. |                | TURNS.     | DREDGE ROPE. |     |
|----------------|----------------|------------|--------------|-----|
| DOWN.          | UP.            |            | DOWN.        | UP. |
| <i>1.57.20</i> | <i>2.04.00</i> | 0          |              |     |
| <i>58.10</i>   | <i>03.00</i>   | 100        |              |     |
| <i>59.00</i>   | <i>02.00</i>   | 200        |              |     |
| <i>59.50</i>   | <i>01.00</i>   | 300        |              |     |
| <i>2.00.10</i> | <i>2.00.50</i> | <i>334</i> |              |     |
|                |                | 400        |              |     |
|                |                | 500        |              |     |
|                |                | 600        |              |     |
|                |                | 700        |              |     |
|                |                | 800        |              |     |
|                |                | 900        |              |     |
|                |                | 1000       |              |     |
|                |                | 1100       |              |     |
|                |                | 1200       |              |     |
|                |                | 1300       |              |     |
|                |                | 1400       |              |     |
|                |                | 1500       |              |     |
|                |                | 1600       |              |     |
|                |                | 1700       |              |     |
|                |                | 1800       |              |     |
|                |                | 1900       |              |     |
|                |                | 2000       |              |     |
|                |                | 2100       |              |     |
|                |                | 2200       |              |     |
|                |                | 2300       |              |     |
|                |                | 2400       |              |     |

Kona Point, S 18° W, 10' 10'

OK  
5000  
12

33<sup>4</sup>  
33  
36<sup>7</sup>

4310 205  
324 172  
3976 333  
334  
367

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. *Hayley* P.L. 15-  
 No. 4697 *HU* Date *11 Aug. 02*  
*Sigsbee* Machine. Reel. *Hay*  
 Turns 260 Cor. + 26 Depth 286 *ms*  
~~Shot or lead~~ 36  
 Bottom *gy + bl S. Glob.*  
 Bottom temperature 41  
 No. of thermometer 98237 Cor. -0  
 Corrected temperature 41.0  
 Air 79 Surface 77 Drift  
 Trawl or dredge

| SOUNDING WIRE. |         | TURNS. | DREDGE ROPE. |     |
|----------------|---------|--------|--------------|-----|
| DOWN.          | UP.     |        | DOWN.        | UP. |
| 2.43.05        | 2.49.30 | 0      |              |     |
| 44.05          | 48.15   | 100    |              |     |
| 45.15          | 47.25   | 200    |              |     |
| 46.00          | 46.40   | 260    |              |     |
|                |         | 300    |              |     |
|                |         | 400    |              |     |
|                |         | 500    |              |     |
|                |         | 600    |              |     |
|                |         | 700    |              |     |
|                |         | 800    |              |     |
|                |         | 900    |              |     |
|                |         | 1000   |              |     |
|                |         | 1100   |              |     |
|                |         | 1200   |              |     |
|                |         | 1300   |              |     |
|                |         | 1400   |              |     |
|                |         | 1500   |              |     |
|                |         | 1600   |              |     |
|                |         | 1700   |              |     |
|                |         | 1800   |              |     |
|                |         | 1900   |              |     |
|                |         | 2000   |              |     |
|                |         | 2100   |              |     |
|                |         | 2200   |              |     |
|                |         | 2300   |              |     |
|                |         | 2400   |              |     |

Kona Point, 837° W, 11 7/10'

OK  
1107  
2

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4310 205

SERIAL TEMPERATURES.

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

REMARKS:

No. 4175 Date 11<sup>th</sup> Aug. 02

Machine. Reel.

Turns 196 Cor. + 20 Depth 216 fms

Shot or lead 36

Bottom fine gy. S. R.

Bottom temperature 41.5°

No. of thermometer 98237 Cor. -0

Corrected temperature 41.5° { N 41° E

Air 81 Surface 77 Drift 1.7'

Trawl or dredge 8' Tangle Swabs

SOUNDING WIRE.

DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

|         |         |      |         |         |
|---------|---------|------|---------|---------|
| 3.13.20 | 18.15   | 0    | 3.25.00 |         |
| 14.20   | 17.10   | 100  | 29.30   |         |
| 15.30   | 3.16.10 | 196  | 32.50   |         |
|         |         | 200  | 36.20   |         |
|         |         | 300  | 40.00   |         |
|         |         | 400  | 45.30   | *       |
|         |         | 500  | 48.30   | 08.20   |
|         |         | 550  | 57.-    | 4.07.10 |
|         |         | 600  |         |         |
|         |         | 613  |         |         |
|         |         | 625  |         |         |
|         |         | 800  |         |         |
|         |         | 900  |         |         |
|         |         | 1000 |         |         |
|         |         | 1100 |         |         |
|         |         | 1200 |         |         |
|         |         | 1300 |         |         |
|         |         | 1400 |         |         |
|         |         | 1500 |         |         |
|         |         | 1600 |         |         |
|         |         | 1700 |         |         |
|         |         | 1800 |         |         |
|         |         | 1900 |         |         |
|         |         | 2000 |         |         |
|         |         | 2100 |         |         |
|         |         | 2200 |         |         |
|         |         | 2300 |         |         |
|         |         | 2400 |         |         |

6 pms 18 x 1 (psc)

Kona Point, S 43° 15' W, 12.5'

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

01  
11/28/11  
54

196  
20  
216

4310 205

SERIAL TEMPERATURES.

| DEPTH. | TEMP.                                                                                                                                                          | NO. OF THER. | COR. | COR. TEMP. |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|------|------------|
| 25     |                                                                                                                                                                |              |      |            |
| 50     | * When 580 fms were in, the cable parted. Lost the sinker & 8 hp. tangles, the frame, and 570 fms of the dredging cable. Cable caught in 1st & 2nd propellers. |              |      |            |
| 100    |                                                                                                                                                                |              |      |            |
| 200    |                                                                                                                                                                |              |      |            |
| 300    |                                                                                                                                                                |              |      |            |
| 400    |                                                                                                                                                                |              |      |            |
| 500    | Lost 570 fms. cable, 1 complete tangle frame & 8 hemp swabs, 100 # dredging sinker, 2 Crosby clips, shackles, &c -                                             |              |      |            |
| 600    |                                                                                                                                                                |              |      |            |
| 700    |                                                                                                                                                                |              |      |            |
| 800    |                                                                                                                                                                |              |      |            |
| 900    |                                                                                                                                                                |              |      |            |
| 1000   |                                                                                                                                                                |              |      |            |

REMARKS:

007.  
*Am. Kil.*

No. 4698 HY.

Date 11 Aug. '02.

Tanner Machine. - Reel.

Turns 50 Cor. + 2 Depth 52 fms.

Shot or lead 26 Lbs.

Bottom Crs. co. S. Sh. For,

Bottom temperature

No. of thermometer 98237 Cor.

Corrected temperature

Air 85° Surface 77° Drift

Trawl or dredge

| SOUNDING WIRE. |     | TURNS. | DREDGE ROPE. |     |
|----------------|-----|--------|--------------|-----|
| DOWN.          | UP. |        | DOWN.        | UP. |
| 4.12           |     | 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   |              |     |

Kona Point, 843° 15' N, 14.1'

616  
HUT  
/

496  
50  
446

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

SERIAL TEMPERATURES.

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

REMARKS:

P.d. = 68.3

not.

No. *Hy 4699* Date *11 Aug. '02*Machine. *1* Reel. *Hand*Turns *311* Cor. + *31* Depth *342 fms*Shot or lead *35 lbs.*Bottom *Co. gy. S.*Bottom temperature *42.5*No. of thermometer *98237* Cor. *-0.2*Corrected temperature *42.3°*Air *80°* Surface *77°* Drift~~Trawl or dredge~~

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

*5. 45. - 5. 53.05 0**46. - 51.55 100**47. - 50.50 200**5 48. - 5. 49.55 300**48.10 311 400*

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

East Coast of Niihau Island  
Kauahua Bent,  $55^{\circ}45'N$ ,  $14.7'$

OK  
JUL 27

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

311

31

342

4310

205

# SERIAL TEMPERATURES.

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

REMARKS:

Pat Log 72.3

507.

No. 4700

Date Aug 11, 1902.

Sigsbee Machine. #1 Reel. Navy

Turns 300 Cor. + 30 Depth 330 fm

Shot or lead 35 lbs.

Bottom Co. gy. S. Sh

Bottom temperature 44.4°

No. of thermometer 98237 Cor. -0.2

Corrected temperature 44.2°

Air 80 Surface 77 Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

6-36.30

43.25

0

37.30

42.20

100

38.35

41.20

200

39.40

40.25

300

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Kawahioa Point, 866° 30' 21, 12.7'

|                 |      |      |      |  |
|-----------------|------|------|------|--|
| OK<br>5000<br>2 | 4310 | 205- | 2500 |  |
|                 |      |      | 2600 |  |
|                 |      |      | 2700 |  |
|                 |      |      | 2800 |  |
|                 |      |      | 2900 |  |
|                 |      |      | 3000 |  |
|                 |      |      | 3100 |  |
|                 |      |      | 3200 |  |
|                 |      |      | 3300 |  |
|                 |      |      | 3400 |  |
|                 |      |      | 3500 |  |
|                 |      |      | 3600 |  |
|                 |      |      | 3700 |  |
|                 |      |      | 3800 |  |
|                 |      |      | 3900 |  |
|                 |      |      | 4000 |  |

SERIAL TEMPERATURES.

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

REMARKS:

No. 44 4701 Date Aug 11, 1902.

Machine. #1 Reel. Navy.

Turns 522 Cor. + 48 Depth 570 fms

Shot or lead 35 lbs

Bottom gy. S M Fr

Bottom temperature 39.5

No. of thermometer 95237

Cor. —

Corrected temperature 39.5

Air 80

Surface 77

Drift

~~Trawl or dredge~~

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

|       |       |      |
|-------|-------|------|
| 28.30 | 39.45 | 0    |
| 29.20 | 38.40 | 100  |
| 30.10 | 37.35 | 200  |
| 31.00 | 36.35 | 300  |
| 32.00 | 35.30 | 400  |
| 33.00 | 34.30 | 500  |
| 33.15 | 34.15 | 600  |
|       |       | 700  |
|       |       | 800  |
|       |       | 900  |
|       |       | 1000 |
|       |       | 1100 |
|       |       | 1200 |
|       |       | 1300 |
|       |       | 1400 |
|       |       | 1500 |
|       |       | 1600 |
|       |       | 1700 |
|       |       | 1800 |
|       |       | 1900 |
|       |       | 2000 |
|       |       | 2100 |
|       |       | 2200 |
|       |       | 2300 |
|       |       | 2400 |

Kawahioa Point,  $\delta 84^{\circ} 30' N, 10^{\frac{4}{10}}$

|      |     |      |  |
|------|-----|------|--|
|      |     | 2500 |  |
|      |     | 2600 |  |
|      |     | 2700 |  |
|      |     | 2800 |  |
|      |     | 2900 |  |
|      |     | 3000 |  |
|      |     | 3100 |  |
|      |     | 3200 |  |
|      |     | 3300 |  |
|      |     | 3400 |  |
| 4310 | 205 | 3500 |  |
| 522  | 157 | 3600 |  |
| 3788 | 48  | 3700 |  |
|      | 522 | 3800 |  |
|      | 570 | 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:

*Stair*  
 No. *4702* Date *11 Aug 02*  
*Sigsbee* Machine. Recl. *May*  
 Turns *1345* Cor. + *113* Depth *1458 fms*  
 Shot ~~or lead~~ *60 #*  
 Bottom *gy. s. M. Fr.*  
 Bottom temperature *35.2*  
 No. of thermometer *98237* Cor. *-0*  
 Corrected temperature *35.2*  
 Air *79* Surface *77* Drift  
 Trawl or dredge

| SOUNDING WIRE. |                | TURNS.      | DREDGE ROPE. |     |
|----------------|----------------|-------------|--------------|-----|
| DOWN.          | UP.            |             | DOWN.        | UP. |
| <i>8:25.00</i> | <i>8:52.40</i> | 0           |              |     |
| <i>25.45</i>   | <i>51.40</i>   | 100         |              |     |
| <i>26.30</i>   | <i>50.40</i>   | 200         |              |     |
| <i>27.20</i>   | <i>49.40</i>   | 300         |              |     |
| <i>28.10</i>   | <i>48.40</i>   | 400         |              |     |
| <i>29.05</i>   | <i>47.40</i>   | 500         |              |     |
| <i>30.00</i>   | <i>46.35</i>   | 600         |              |     |
| <i>30.55</i>   | <i>45.30</i>   | 700         |              |     |
| <i>31.55</i>   | <i>44.25</i>   | 800         |              |     |
| <i>32.55</i>   | <i>43.20</i>   | 900         |              |     |
| <i>34.00</i>   | <i>42.15</i>   | 1000        |              |     |
| <i>35.00</i>   | <i>41.10</i>   | 1100        |              |     |
| <i>36.10</i>   | <i>40.05</i>   | 1200        |              |     |
| <i>37.10</i>   | <i>39.00</i>   | 1300        |              |     |
| <i>8:37.35</i> | <i>8:38.30</i> | <i>1345</i> |              |     |
|                |                | 1500        |              |     |
|                |                | 1600        |              |     |
|                |                | 1700        |              |     |
|                |                | 1800        |              |     |
|                |                | 1900        |              |     |
|                |                | 2000        |              |     |
|                |                | 2100        |              |     |
|                |                | 2200        |              |     |
|                |                | 2300        |              |     |
|                |                | 2400        |              |     |

Kawahioa Point, N 76° W, 12.1'

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4310 205

1345 92

2965 113

1345

1458

SERIAL TEMPERATURES.

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

REMARKS:

No. *4703* Date *11 Aug. 12*  
*Sigsbee* Machine. *1* Reel. *1*  
 Turns *870* Cor. + *76* Depth *946* *m*  
 Shot or lead *60*  
 Bottom *gy. s. M. Fr.*  
 Bottom temperature *37.0*  
 No. of thermometer *98237* Cor. *-0*  
 Corrected temperature *37.0*  
 Air *79* Surface *77* Drift  
 Trawl or dredge

| SOUNDING WIRE. |                | TURNS.     | DREDGE ROPE. |     |
|----------------|----------------|------------|--------------|-----|
| DOWN.          | UP.            |            | DOWN.        | UP. |
| <i>9.29.00</i> | <i>9.47.00</i> | 0          |              |     |
| <i>30.10</i>   | <i>46.00</i>   | 100        |              |     |
| <i>31.00</i>   | <i>45.00</i>   | 200        |              |     |
| <i>31.50</i>   | <i>43.45</i>   | 300        |              |     |
| <i>32.40</i>   | <i>43.00</i>   | 400        |              |     |
| <i>33.30</i>   | <i>41.50</i>   | 500        |              |     |
| <i>34.30</i>   | <i>40.45</i>   | 600        |              |     |
| <i>35.20</i>   | <i>39.45</i>   | 700        |              |     |
| <i>36.20</i>   | <i>38.45</i>   | 800        |              |     |
| <i>9.37.00</i> | <i>9.38.00</i> | <i>870</i> |              |     |
|                |                | 1000       |              |     |
|                |                | 1100       |              |     |
|                |                | 1200       |              |     |
|                |                | 1300       |              |     |
|                |                | 1400       |              |     |
|                |                | 1500       |              |     |
|                |                | 1600       |              |     |
|                |                | 1700       |              |     |
|                |                | 1800       |              |     |
|                |                | 1900       |              |     |
|                |                | 2000       |              |     |
|                |                | 2100       |              |     |
|                |                | 2200       |              |     |
|                |                | 2300       |              |     |
|                |                | 2400       |              |     |

*Louise W x S (P.S.E.)*

Kauahioa Point, N 69° 45' W, 9 <sup>1</sup>/<sub>10</sub>'

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.

*Fair*

*2. 86.3*

No. *4704* Hy Date *11 Aug. 02*

*Sigsbee* Machine. *1* Reel. *1000*

Turns *440* Cor. + *41* Depth *481 fms.*

Shot or lead *35* ~~X~~  
Bottom *fine. Co. S. Fr.*

Bottom temperature *40.6*

No. of thermometer *98237* Cor. *-0*

Corrected temperature *40.6*

Air *79* Surface *77* Drift

Trawl or dredge

| SOUNDING WIRE.  |                 | TURNS.         | DREDGE ROPE. |     |
|-----------------|-----------------|----------------|--------------|-----|
| DOWN.           | UP.             |                | DOWN.        | UP. |
| <i>10.20.00</i> | <i>10.29.00</i> | 0              |              |     |
| <i>20.45</i>    | <i>28.00</i>    | 100            |              |     |
| <i>21.40</i>    | <i>27.00</i>    | 200            |              |     |
| <i>22.30</i>    | <i>26.00</i>    | 300            |              |     |
| <i>23.25</i>    | <i>25.00</i>    | 400            |              |     |
| <i>10.23.50</i> | <i>10.24.40</i> | <del>500</del> |              |     |
|                 |                 | 600            |              |     |
|                 |                 | 700            |              |     |
|                 |                 | 800            |              |     |
|                 |                 | 900            |              |     |
|                 |                 | 1000           |              |     |
|                 |                 | 1100           |              |     |
|                 |                 | 1200           |              |     |
|                 |                 | 1300           |              |     |
|                 |                 | 1400           |              |     |
|                 |                 | 1500           |              |     |
|                 |                 | 1600           |              |     |
|                 |                 | 1700           |              |     |
|                 |                 | 1800           |              |     |
|                 |                 | 1900           |              |     |
|                 |                 | 2000           |              |     |
|                 |                 | 2100           |              |     |
|                 |                 | 2200           |              |     |
|                 |                 | 2300           |              |     |
|                 |                 | 2400           |              |     |

2-571

*Sigsbee & Co. (Pse)*

Kawahioa Point, N 56° W, 5  $\frac{3}{10}$ .

OK  
J. J. J.  
7

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

4310 208  
440 164  
3870 41  
440  
481

SERIAL TEMPERATURES.

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

REMARKS:

*Stacy*  
 No. 4705 Hy Date 11 Aug. '02  
 Reel. Navy  
 Turns 357 Cor. + 30 Depth 392 fms.  
 Shot or lead 36 #  
 Bottom fine co. s. fr  
 Bottom temperature 42.0  
 No. of thermometer 98237 Cor. -0  
 Corrected temperature 42.0  
 Air 79 Surface Drift  
 Trawl or dredge

| SOUNDING WIRE. |          | TURNS. | DREDGE ROPE. |     |
|----------------|----------|--------|--------------|-----|
| DOWN.          | UP.      |        | DOWN.        | UP. |
| 11.01.25       | 11.09.20 | 0      |              |     |
| 02.20          | 08.20    | 100    |              |     |
| 03.20          | 07.20    | 200    |              |     |
| 04.20          | 06.20    | 300    |              |     |
| 11.04.40       | 11.05.40 | 357    |              |     |
|                |          | 400    |              |     |
|                |          | 500    |              |     |
|                |          | 600    |              |     |
|                |          | 700    |              |     |
|                |          | 800    |              |     |
|                |          | 900    |              |     |
|                |          | 1000   |              |     |
|                |          | 1100   |              |     |
|                |          | 1200   |              |     |
|                |          | 1300   |              |     |
|                |          | 1400   |              |     |
|                |          | 1500   |              |     |
|                |          | 1600   |              |     |
|                |          | 1700   |              |     |
|                |          | 1800   |              |     |
|                |          | 1900   |              |     |
|                |          | 2000   |              |     |
|                |          | 2100   |              |     |
|                |          | 2200   |              |     |
|                |          | 2300   |              |     |
|                |          | 2400   |              |     |

Cause of loss (PSC)

Kawahioa Point,  
N 15° W, 3 5/10'

South Coast of  
Niihau Island

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

1310 205

357 170

3953 35

357

392

# SERIAL TEMPERATURES.

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

REMARKS:

92.3

No. 4706 #4 Date 11 Aug. 02  
 Machine. 1 Reel. Navy  
 Turns 304 Cor. + 30 Depth 334  
 Shot or lead 36 lb  
 Bottom fine. c. s. 450  
 Bottom temperature  
 No. of thermometer 98237 Cor. -0  
 Corrected temperature 42.0  
 Air 99 Surface 77 Drift  
 Trawl or dredge

| SOUNDING WIRE. |           | TURNS. | DREDGE ROPE. |     |
|----------------|-----------|--------|--------------|-----|
| DOWN.          | UP.       |        | DOWN.        | UP. |
| 11. 42.30      | 11. 49.20 | 0      |              |     |
| 43.30          | 48.20     | 100    |              |     |
| 44.20          | 47.10     | 200    |              |     |
| 11. 45.20      | 11. 46.15 | 300    |              |     |
|                |           | 304    |              |     |
|                |           | 400    |              |     |
|                |           | 500    |              |     |
|                |           | 600    |              |     |
|                |           | 700    |              |     |
|                |           | 800    |              |     |
|                |           | 900    |              |     |
|                |           | 1000   |              |     |
|                |           | 1100   |              |     |
|                |           | 1200   |              |     |
|                |           | 1300   |              |     |
|                |           | 1400   |              |     |
|                |           | 1500   |              |     |
|                |           | 1600   |              |     |
|                |           | 1700   |              |     |
|                |           | 1800   |              |     |
|                |           | 1900   |              |     |
|                |           | 2000   |              |     |
|                |           | 2100   |              |     |
|                |           | 2200   |              |     |
|                |           | 2300   |              |     |
|                |           | 2400   |              |     |

2-571  
 Course 110 (p.s.c.)

Kawahio Point, N 31° E, 4 <sup>1</sup>/<sub>10</sub>'

OK  
J.H.C.  
1

304  
30  
334

4310 201

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:

S.S.M., P.L. = 95.3

607.

Franklin

No. *Hy. 4707.* Date *12 Aug. '02.*  
*Sigsbee* Machine. / Reel. *Harvey*  
 Turns *843* Cor. + *74* Depth *917 fms.*  
 Shot or lead *36 lbs.*  
 Bottom *Crs. Sab. S.*  
 Bottom temperature *37.3*  
 No. of thermometer *98237.* Cor. *-0*  
 Corrected temperature *37.3°*  
 Air *79°* Surface *77°* Drift  
 Trawl or dredge

| SOUNDING WIRE.   |                  | TURNS.     | DREDGE ROPE. |     |
|------------------|------------------|------------|--------------|-----|
| DOWN.            | UP.              |            | DOWN.        | UP. |
| <i>12. 25.20</i> | <i>12. 47.40</i> | 0          |              |     |
| <i>26.35</i>     | <i>46.45</i>     | 100        |              |     |
| <i>27.40</i>     | <i>45.05</i>     | 200        |              |     |
| <i>28.50</i>     | <i>44.55</i>     | 300        |              |     |
| <i>30. -</i>     | <i>43.40</i>     | 400        |              |     |
| <i>31.10</i>     | <i>42.25</i>     | 500        |              |     |
| <i>32.30</i>     | <i>41. -</i>     | 600        |              |     |
| <i>33.45</i>     | <i>39.40</i>     | 700        |              |     |
| <i>35. -</i>     | <i>38.10</i>     | 800        |              |     |
| <i>12. 35.40</i> | <i>12.37.25</i>  | <i>843</i> |              |     |
|                  |                  | 900        |              |     |
|                  |                  | 1000       |              |     |
|                  |                  | 1100       |              |     |
|                  |                  | 1200       |              |     |
|                  |                  | 1300       |              |     |
|                  |                  | 1400       |              |     |
|                  |                  | 1500       |              |     |
|                  |                  | 1600       |              |     |
|                  |                  | 1700       |              |     |
|                  |                  | 1800       |              |     |
|                  |                  | 1900       |              |     |
|                  |                  | 2000       |              |     |
|                  |                  | 2100       |              |     |
|                  |                  | 2200       |              |     |
|                  |                  | 2300       |              |     |
|                  |                  | 2400       |              |     |

Kawahioa Point, N 34° E, 7.0'

OK  
H.C.  
4

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

4310  
843  
3467

205  
131  
874

917

SERIAL TEMPERATURES.

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

REMARKS:

S.S.V., P.L. = 97.3

not  
Bruck.No. *H. 4708.* Date *12 Aug. '02.*  
*Sigsbee* Machine. *1* Reel. *Navy.*Turns *1200* Cor. + *102* Depth *1302* Fms.Shot or lead *60 Lbs.*Bottom *Glob.*Bottom temperature *35.6*No. of thermometer *98237.* Cor. *-0*Corrected temperature *35.6°*Air *79°* Surface *77°* Drift

Trawl or dredge

| Am. SOUNDING WIRE. |                 | TURNS. | DREDGE ROPE. |     |
|--------------------|-----------------|--------|--------------|-----|
| DOWN.              | UP.             |        | DOWN.        | UP. |
| <i>1. 19.30</i>    | <i>1. 45.55</i> | 0      |              |     |
| <i>20.15</i>       | <i>44.55</i>    | 100    |              |     |
| <i>21.05</i>       | <i>43.40</i>    | 200    |              |     |
| <i>21.55</i>       | <i>42.45</i>    | 300    |              |     |
| <i>22.45</i>       | <i>41.35</i>    | 400    |              |     |
| <i>23.35</i>       | <i>40.35</i>    | 500    |              |     |
| <i>24.25</i>       | <i>39.30</i>    | 600    |              |     |
| <i>25.20</i>       | <i>38.20</i>    | 700    |              |     |
| <i>26.25</i>       | <i>37.05</i>    | 800    |              |     |
| <i>27.20</i>       | <i>35.50</i>    | 900    |              |     |
| <i>28.20</i>       | <i>34.50</i>    | 1000   |              |     |
| <i>29.20</i>       | <i>33.20</i>    | 1100   |              |     |
| <i>1. 30.20</i>    | <i>1. 31.40</i> | 1200   |              |     |
|                    |                 | 1300   |              |     |
|                    |                 | 1400   |              |     |
|                    |                 | 1500   |              |     |
|                    |                 | 1600   |              |     |
|                    |                 | 1700   |              |     |
|                    |                 | 1800   |              |     |
|                    |                 | 1900   |              |     |
|                    |                 | 2000   |              |     |
|                    |                 | 2100   |              |     |
|                    |                 | 2200   |              |     |
|                    |                 | 2300   |              |     |
|                    |                 | 2400   |              |     |

Kauahoa Point, N 35° 30' E, 8 <sup>8</sup>/<sub>10</sub>'

OK  
200  
7

4310  
1200  
3110

205  
102  
102  
1200  
1302

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:

Pat Log 10.5

not  
Photocopy

No. *Sy 4709* Date *Aug 12, 1902.*  
*Sigsbee* Machine. #1 Reel. *Navy*  
 Turns *218* Cor. + *22* Depth *240 fms*  
 Shot or lead *35 lbs.*  
 Bottom *S. sh. gy. s.*  
 Bottom temperature *49.8*  
 No. of thermometer *98237* Cor. *-0.2*  
 Corrected temperature *49.6°*  
 Air *78* Surface *77* Drift  
 Trawl or dredge

| SOUNDING WIRE.  |              | TURNS. | DREDGE ROPE. |     |
|-----------------|--------------|--------|--------------|-----|
| DOWN.           | UP.          |        | DOWN.        | UP. |
| <i>5- 46.50</i> | <i>52.10</i> | 0      |              |     |
| <i>47.40</i>    | <i>51.05</i> | 100    |              |     |
| <i>48.30</i>    | <i>50.00</i> | 200    |              |     |
| <i>48.50</i>    | <i>49.50</i> | 300    |              |     |
|                 |              | 400    |              |     |
|                 |              | 500    |              |     |
|                 |              | 600    |              |     |
|                 |              | 700    |              |     |
|                 |              | 800    |              |     |
|                 |              | 900    |              |     |
|                 |              | 1000   |              |     |
|                 |              | 1100   |              |     |
|                 |              | 1200   |              |     |
|                 |              | 1300   |              |     |
|                 |              | 1400   |              |     |
|                 |              | 1500   |              |     |
|                 |              | 1600   |              |     |
|                 |              | 1700   |              |     |
|                 |              | 1800   |              |     |
|                 |              | 1900   |              |     |
|                 |              | 2000   |              |     |
|                 |              | 2100   |              |     |
|                 |              | 2200   |              |     |
|                 |              | 2300   |              |     |
|                 |              | 2400   |              |     |

Kawahioa Point,

~~N 63° 35' W~~

N 61° W, 3 <sup>6</sup>/<sub>10</sub>

OK  
N 61° W

218

22

240

4310

205

{ East Coast of  
Kūhau Island }

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:

*Dist. 1007*

*Cast Log 12.5*

No. *4710* Date *Aug 12, 1902*  
*Sigsbee* Machine. #1 Reel. *Stang.*  
Turns *395* Cor. + *38* Depth *433 fms*  
Shot or lead *35 lbs.*  
Bottom *fine. Co. Vol. S.*  
Bottom temperature *41.2*  
No. of thermometer *95237* Cor. *-0*  
Corrected temperature *41.2°*  
Air *78* Surface *78* Drift  
Trawl or dredge

| SOUNDING WIRE. |              | TURNS. | DREDGE ROPE. |     |
|----------------|--------------|--------|--------------|-----|
| DOWN.          | UP.          |        | DOWN.        | UP. |
| <i>6-26.50</i> | <i>35.40</i> | 0      |              |     |
| <i>17.45</i>   | <i>34.35</i> | 100    |              |     |
| <i>28.40</i>   | <i>33.35</i> | 200    |              |     |
| <i>29.30</i>   | <i>32.40</i> | 300    |              |     |
| <i>30.30</i>   | <i>31.35</i> | 400    |              |     |
|                |              | 500    |              |     |
|                |              | 600    |              |     |
|                |              | 700    |              |     |
|                |              | 800    |              |     |
|                |              | 900    |              |     |
|                |              | 1000   |              |     |
|                |              | 1100   |              |     |
|                |              | 1200   |              |     |
|                |              | 1300   |              |     |
|                |              | 1400   |              |     |
|                |              | 1500   |              |     |
|                |              | 1600   |              |     |
|                |              | 1700   |              |     |
|                |              | 1800   |              |     |
|                |              | 1900   |              |     |
|                |              | 2000   |              |     |
|                |              | 2100   |              |     |
|                |              | 2200   |              |     |
|                |              | 2300   |              |     |
|                |              | 2400   |              |     |

Kauahoa Point. N 63° 30' W, 5 1/10'

|      |     |      |  |
|------|-----|------|--|
|      |     | 2500 |  |
|      |     | 2600 |  |
|      |     | 2700 |  |
|      |     | 2800 |  |
|      |     | 2900 |  |
|      |     | 3000 |  |
|      |     | 3100 |  |
|      |     | 3200 |  |
|      |     | 3300 |  |
|      |     | 3400 |  |
| 4310 | 205 | 3500 |  |
| 395  | 167 | 3600 |  |
| 3915 | 38  | 3700 |  |
|      | 395 | 3800 |  |
|      | 433 | 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 14.5*

No. *4711* Date *Aug 12, 1902.*  
*Sigsbee* Machine. #1 Reel. *Star.*  
Turns *470* Cor. + *44* Depth *514 fms*  
Shot or lead *60 lbs*  
Bottom *Crs Vol. S. Mob*  
Bottom temperature *40°*  
No. of thermometer *98237* Cor. *-0*  
Corrected temperature *40°*  
Air *79* Surface *78* Drift  
Trawl or dredge

| SOUNDING WIRE. |              | TURNS. | DREDGE ROPE. |     |
|----------------|--------------|--------|--------------|-----|
| DOWN.          | UP.          |        | DOWN.        | UP. |
| <i>7-13.40</i> | <i>23.25</i> | 0      |              |     |
| <i>14.35</i>   | <i>22.20</i> | 100    |              |     |
| <i>15.25</i>   | <i>21.20</i> | 200    |              |     |
| <i>16.10</i>   | <i>20.25</i> | 300    |              |     |
| <i>16.55</i>   | <i>19.25</i> | 400    |              |     |
| <i>17.30</i>   | <i>18.40</i> | 500    |              |     |
|                |              | 600    |              |     |
|                |              | 700    |              |     |
|                |              | 800    |              |     |
|                |              | 900    |              |     |
|                |              | 1000   |              |     |
|                |              | 1100   |              |     |
|                |              | 1200   |              |     |
|                |              | 1300   |              |     |
|                |              | 1400   |              |     |
|                |              | 1500   |              |     |
|                |              | 1600   |              |     |
|                |              | 1700   |              |     |
|                |              | 1800   |              |     |
|                |              | 1900   |              |     |
|                |              | 2000   |              |     |
|                |              | 2100   |              |     |
|                |              | 2200   |              |     |
|                |              | 2300   |              |     |
|                |              | 2400   |              |     |

Kawahioa Point. N 71° W, 6  $\frac{9}{10}$ '

OK  
H.D.  
in

|            |           |
|------------|-----------|
| 4310       | 205       |
| 470        | 161       |
| <hr/> 3840 | <hr/> 44  |
|            | 470       |
|            | <hr/> 514 |

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

SERIAL TEMPERATURES.

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

REMARKS:

No. 4176 *NY* Date *Aug 12, 1902.*  
*Sigsbee* Machine. #1 Reel. *King*  
 Turns 617 Cor. + *55* Depth 672, *max*  
 Shot or lead *35*  
 Bottom *gy. S. M. sh.*  
 Bottom temperature *38.3°*  
 No. of thermometer *98237* Cor. -0  
 Corrected temperature *38.3°* (*N 33° E*)  
 Air *79* Surface *78* Drift *4.0'*  
 Trawl or dredge *9 ft. Tanner*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

|                |                |            |                |                |
|----------------|----------------|------------|----------------|----------------|
| <i>7.59.30</i> | <i>8.13.05</i> | 0          | <i>8.22.45</i> | <i>9.37.10</i> |
| <i>8.00.30</i> | <i>12.00</i>   | 100        | <i>26.20</i>   | <i>48.10</i>   |
| <i>01.30</i>   | <i>11.00</i>   | 200        | <i>30.10</i>   | <i>45.00</i>   |
| <i>02.40</i>   | <i>10.00</i>   | 300        | <i>34.20</i>   | <i>41.30</i>   |
| <i>03.40</i>   | <i>09.00</i>   | 400        | <i>38.00</i>   | <i>38.10</i>   |
| <i>04.00</i>   | <i>08.10</i>   | 500        | <i>41.20</i>   | <i>35.20</i>   |
| <i>06.10</i>   | <i>07.10</i>   | 600        | <i>44.40</i>   | <i>32.00</i>   |
| <i>8.06.30</i> | <i>8.07.00</i> | <i>617</i> | <i>48.00</i>   | <i>29.00</i>   |
|                |                | 800        | <i>53.00</i>   | <i>26.00</i>   |
|                |                | 900        | <i>56.30</i>   | <i>17.30</i>   |
|                |                | 1000       | <i>4.00.00</i> | <i>11.40</i>   |
|                |                | 1100       | <i>04.30</i>   | <i>9.08.00</i> |
|                |                | 1200       |                |                |
|                |                | 1300       |                |                |
|                |                | 1400       |                |                |
|                |                | 1500       |                |                |
|                |                | 1600       |                |                |
|                |                | 1700       |                |                |
|                |                | 1800       |                |                |
|                |                | 1900       |                |                |
|                |                | 2000       |                |                |
|                |                | 2100       |                |                |
|                |                | 2200       |                |                |
|                |                | 2300       |                |                |
|                |                | 2400       |                |                |

*4 min -*

Kawahioa Point, N 73° 30' W, 8<sup>6</sup>/<sub>10</sub>'

|      |     |      |  |
|------|-----|------|--|
|      |     | 2500 |  |
|      |     | 2600 |  |
|      |     | 2700 |  |
|      |     | 2800 |  |
|      |     | 2900 |  |
|      |     | 3000 |  |
|      |     | 3100 |  |
|      |     | 3200 |  |
|      |     | 3300 |  |
| 4310 | 205 | 3400 |  |
| 617  | 150 | 3500 |  |
| 3693 | 55  | 3600 |  |
|      | 617 | 3700 |  |
|      | 672 | 3800 |  |
|      |     | 3900 |  |
|      |     | 4000 |  |

SERIAL TEMPERATURES.

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

REMARKS:

No.

4712 HV

Date

12 Aug. 1902

Machine.

Lipsey

Reel.

Turns

492

Cor. +

45'

Depth

537.00

Shot or lead

35 lb

Bottom

gy. S. M. Br.

Bottom temperature

40.0

No. of thermometer

98237

Cor. -0

Corrected temperature

40.00

Air

80

Surface

78

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

9.56.30 10.07.01

0

57.30 06.01

100

58.30 05.01

200

59.30 04.00

300

10.00.30 03.00

400

01.40 10.02.20

492

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

This marks  
end of  
514176-

Kauahua Point, 8840 30' W, 10<sup>5</sup>/<sub>10</sub>'

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4316 20 V

492 168

3818 4.6

492

538

# SERIAL TEMPERATURES.

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

REMARKS:

No. 4177

Date

12 Aug. 02

Machine.

Reel.

Turns

412

Cor. +

39

Depth

457 fms

Shot or lead

35 lb

Bottom

gy. S. M. b.

Bottom temperature

41.0

No. of thermometer

98737

Cor. - 0

Corrected temperature

41.09

58330

Air

81

Surface

78

Drift

5.3'

Trawl or dredge

9 ft Tanner

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

11.40.00

48.40

0

11.53.30

12.59.30

40.45

47.35

100

57.05

56.55

41.40

46.35

200

12.01.00

53.30

42.30

45.40

300

05.10

50. -

43.30

44.40

400

08.55

46.40

43.50

44.30

412

12.20

43.15

500

16.35

39.30

525\*

25. -

600

29.30

625

12.34. -

650

12.36.15

685

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

20 min.

\* Read on bottom

Kauahoa Point, 8 540 W, 17.5'

|                 |       |      |      |
|-----------------|-------|------|------|
| OK<br>XCT.<br>/ |       | 2500 |      |
|                 |       | 2600 |      |
|                 |       | 2700 |      |
|                 |       | 2800 |      |
|                 |       | 2900 |      |
|                 |       | 3000 |      |
|                 |       | 3100 |      |
|                 |       | 3200 |      |
|                 |       | 3300 |      |
|                 |       | 3400 |      |
|                 | 4310  | 205  | 3500 |
|                 | 412   | 166  | 3600 |
|                 | <hr/> |      | 3700 |
|                 | 3898  | 39   | 3800 |
|                 |       | 412  | 3900 |
|                 | <hr/> |      | 4000 |
|                 |       | 451  |      |

SERIAL TEMPERATURES.

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

REMARKS:

507.  
H. K. Kil.

No. *Dr. 4178* Date *12 Aug. 02.*

*Sigsbee* Machine. / Reel. *Navy.*

Turns *290* Cor. + *29* Depth *319 fms.*

Shot or lead *36 Lbs.*

Bottom *C. P. R.*

Bottom temperature *Did not try.*

No. of thermometer *98237.* Cor.

Corrected temperature { *N 52° E*

Air *84°* Surface *78°* Drift { *1.7'*

Trawl or dredge *9' Trawl.*

| SOUNDING WIRE.                    |                | TURNS.                | DREDGE ROPE.   |                |
|-----------------------------------|----------------|-----------------------|----------------|----------------|
| DOWN.                             | UP.            |                       | DOWN.          | UP.            |
| <i>1.03.10</i>                    | <i>1.09.30</i> | 0                     | <i>1-19-30</i> | <i>2.03.05</i> |
| <i>03.55</i>                      | <i>08.30</i>   | 100                   | <i>23-35</i>   | <i>57.45</i>   |
| <i>04.45</i>                      | <i>07.30</i>   | 200                   | <i>27-30</i>   | <i>56-20</i>   |
| <i>1.05.30</i>                    | <i>1.06.40</i> | <del>270</del><br>300 | <i>31-00</i>   | <i>52-30</i>   |
|                                   |                | 400                   | <i>1-37-00</i> | <i>1-48-30</i> |
| <i>also mark end of Dr. 4177.</i> |                | 500                   |                |                |
|                                   |                | 600                   |                |                |
|                                   |                | 700                   |                |                |
|                                   |                | 800                   |                |                |
|                                   |                | 900                   |                |                |
|                                   |                | 1000                  |                |                |
|                                   |                | 1100                  |                |                |
|                                   |                | 1200                  |                |                |
|                                   |                | 1300                  |                |                |
|                                   |                | 1400                  |                |                |
|                                   |                | 1500                  |                |                |
|                                   |                | 1600                  |                |                |
|                                   |                | 1700                  |                |                |
|                                   |                | 1800                  |                |                |
|                                   |                | 1900                  |                |                |
|                                   |                | 2000                  |                |                |
|                                   |                | 2100                  |                |                |
|                                   |                | 2200                  |                |                |
|                                   |                | 2300                  |                |                |
|                                   |                | 2400                  |                |                |

*11 min*

Kawahioa Point, 86°38'N, 17.6'

OK  
HCB  
/

4210

205

290  
29

319

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:

Net (slightly) torn.

-389-

No. *Dr. 4179.* Date *12 Aug. '02*

*Sigsbee* Machine. 1 Reel. *Navy.*

Turns *344* Cor. + *34* Depth *378 fms.*

Shot or lead *36 Lbs.*

Bottom *R. P. Co.*

Bottom temperature *42.2*

No. of thermometer *98236.* Cor. *-0.2*

Corrected temperature *42.0°* (N 11° W)

Air *84°* Surface *79°* Drift *1.0'*

Trawl or dredge *5 1/2' Blakey, apron*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

|                |                |             |                  |                |
|----------------|----------------|-------------|------------------|----------------|
| <i>2.05.45</i> | <i>2.13.30</i> | 0           | <i>2.18.20</i>   | <i>3.07.30</i> |
| <i>06.30</i>   | <i>12.30</i>   | 100         | <i>22.55</i>     | <i>03.40</i>   |
| <i>07.35</i>   | <i>11.30</i>   | 200         | <i>26.40</i>     | <i>3.00.00</i> |
| <i>08.30</i>   | <i>2.10.30</i> | 300         | <i>30.-</i>      | <i>57.10</i>   |
| <i>2.09.-</i>  | <i>2.10.-</i>  | <i>344</i>  | <i>33.20</i>     | <i>54.10</i>   |
|                |                | 400         | <i>36.10</i>     |                |
|                |                | <i>420*</i> |                  |                |
|                |                | <i>475</i>  | <i>41.10</i>     | <i>50.55</i>   |
|                |                | <i>500</i>  |                  |                |
|                |                | <i>525</i>  | <i>2.42.-</i>    | <i>2.50.-</i>  |
|                |                | <i>700</i>  |                  |                |
|                |                | 800         |                  |                |
|                |                | 900         | <i>14 min.</i>   |                |
|                |                | 1000        | <i>* Bottom.</i> |                |
|                |                | 1100        |                  |                |
|                |                | 1200        |                  |                |
|                |                | 1300        |                  |                |
|                |                | 1400        |                  |                |
|                |                | 1500        |                  |                |
|                |                | 1600        |                  |                |
|                |                | 1700        |                  |                |
|                |                | 1800        |                  |                |
|                |                | 1900        |                  |                |
|                |                | 2000        |                  |                |
|                |                | 2100        |                  |                |
|                |                | 2200        |                  |                |
|                |                | 2300        |                  |                |
|                |                | 2400        |                  |                |

*Also marks in  
of  
Dr. 4178.*

Kawahioa Point, S 60° 45' W, 19.2'

OK  
HDS.  
in

4310  
344  
3966  
205  
171  
378  
344  
278

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:

Net slightly torn -

No. *Dr. 4180.* Date *12 Aug. '02.**Sigsbee* Machine. 1 Reel. *Heavy.*Turns *389* Cor. + *37* Depth *426 fms.*Shot or lead *36 Lbs.*Bottom *P. Glob. R.*Bottom temperature *41.1*No. of thermometer *98237.* Cor. *-0*Corrected temperature *41.1*Air *86°* Surface *79°* Drift *(N 50° E 6.0')*Trawl or dredge *5 1/2' Blake, open.*

| SOUNDING WIRE. |                | TURNS.         | DREDGE ROPE.     |                |
|----------------|----------------|----------------|------------------|----------------|
| DOWN.          | UP.            |                | DOWN.            | UP.            |
| <i>3.10.10</i> | <i>3.18.50</i> | 0              | <i>3.21.40</i>   | <i>18.30</i>   |
| <i>10.55</i>   | <i>17.45</i>   | 100            | <i>26. -</i>     | <i>15.20</i>   |
| <i>11.45</i>   | <i>16.45</i>   | 200            | <i>29.55</i>     | <i>12.10</i>   |
| <i>12.40</i>   | <i>15.50</i>   | 300            | <i>33.20</i>     | <i>09.05</i>   |
| <i>3.13.25</i> | <i>3.14.45</i> | <i>389</i>     | <i>36.40</i>     | <i>06.00</i>   |
|                |                | <del>400</del> | <i>40. -</i>     | <i>4.02.45</i> |
|                |                | 500*           | <del>42.45</del> |                |
|                |                | 550            | <i>51.30</i>     | <i>59.20</i>   |
|                |                | 600            | <del>52.40</del> | <i>58.20</i>   |
|                |                | 625            |                  |                |
|                |                | 700            |                  |                |
|                |                | 800            | * <i>18 min</i>  |                |
|                |                | 900            |                  |                |
|                |                | 1000           |                  |                |
|                |                | 1100           | * <i>Bottom.</i> |                |
|                |                | 1200           |                  |                |
|                |                | 1300           |                  |                |
|                |                | 1400           |                  |                |
|                |                | 1500           |                  |                |
|                |                | 1600           |                  |                |
|                |                | 1700           |                  |                |
|                |                | 1800           |                  |                |
|                |                | 1900           |                  |                |
|                |                | 2000           |                  |                |
|                |                | 2100           |                  |                |
|                |                | 2200           |                  |                |
|                |                | 2300           |                  |                |
|                |                | 2400           |                  |                |

*Also marks end of**Dr. 4179.*

Kawahioa Point, 8.58° N, 19.5' -

OK  
HOB.  
1/2

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

4310. 205  
387 168  
3921 37  
387  
426

SERIAL TEMPERATURES.

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

REMARKS:

Net slightly torn.

No. 44

4713

Date

Aug 12 1902.

Machine. #1

Reel. Starry

Turns 380 Cor. + 37

Depth 417 fms

Shot or lead 36 lbs

Bottom Gls.

Bottom temperature

41.2°

No. of thermometer

95237

Cor. -0

Corrected temperature

41.2°

Air 86

Surface 79

Drift

Trawl or dredge

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

|         |       |      |
|---------|-------|------|
| 4.20.45 | 30.05 | 0    |
| 21.45   | 29.00 | 100  |
| 22.55   | 27.55 | 200  |
| 24.05   | 26.05 | 300  |
| 24.10   | 25.20 | 400  |
|         |       | 500  |
|         |       | 600  |
|         |       | 700  |
|         |       | 800  |
|         |       | 900  |
|         |       | 1000 |
|         |       | 1100 |
|         |       | 1200 |
|         |       | 1300 |
|         |       | 1400 |
|         |       | 1500 |
|         |       | 1600 |
|         |       | 1700 |
|         |       | 1800 |
|         |       | 1900 |
|         |       | 2000 |
|         |       | 2100 |
|         |       | 2200 |
|         |       | 2300 |
|         |       | 2400 |

Kauahoa Point, 857° W, 22.3'

|      |     |      |  |
|------|-----|------|--|
|      |     | 2500 |  |
|      |     | 2600 |  |
|      |     | 2700 |  |
|      |     | 2800 |  |
|      |     | 2900 |  |
|      |     | 3000 |  |
|      |     | 3100 |  |
|      |     | 3200 |  |
|      |     | 3300 |  |
|      |     | 3400 |  |
| 4310 | 205 | 3500 |  |
| 380  | 168 | 3600 |  |
| 3930 | 37  | 3700 |  |
|      | 380 | 3800 |  |
|      | 417 | 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:

*Stacy*  
 No. 4714 *Hy* Date *12<sup>th</sup> Aug. '02*  
*Sigsbee* Machine. 1 Reel. *Stacy*  
 Turns 818 Cor. + 72 Depth 890 *fms*  
~~Shot or lead~~ 35 *X*

Bottom *br m s*  
 Bottom temperature *37.0*  
 No. of thermometer *98237* Cor. -0  
 Corrected temperature *37.00*  
 Air *75* Surface *77* Drift  
~~Trawl or dredge~~

| SOUNDING WIRE. |         | TURNS. | DREDGE ROPE. |     |
|----------------|---------|--------|--------------|-----|
| DOWN.          | UP.     |        | DOWN.        | UP. |
| 7:03.50        | 7.21.05 | 0      |              |     |
| 04.30          | 20.00   | 100    |              |     |
| 05.20          | 19.00   | 200    |              |     |
| 06.00          | 17.55   | 300    |              |     |
| 06.55          | 16.50   | 400    |              |     |
| 07.50          | 15.40   | 500    |              |     |
| 08.45          | 14.35   | 600    |              |     |
| 09.50          | 13.15   | 700    |              |     |
| 10.00          | 12.10   | 800    |              |     |
| 7 11.15        | 7.12.00 | 818    |              |     |
|                |         | 900    |              |     |
|                |         | 1000   |              |     |
|                |         | 1100   |              |     |
|                |         | 1200   |              |     |
|                |         | 1300   |              |     |
|                |         | 1400   |              |     |
|                |         | 1500   |              |     |
|                |         | 1600   |              |     |
|                |         | 1700   |              |     |
|                |         | 1800   |              |     |
|                |         | 1900   |              |     |
|                |         | 2000   |              |     |
|                |         | 2100   |              |     |
|                |         | 2200   |              |     |
|                |         | 2300   |              |     |
|                |         | 2400   |              |     |

*George W. J. (p. 2)*

South Coast of Kauri Island  
 Whula Point, N 66° E, 5.5'

OK  
 J. J. J.  
 in

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

H310 20J  
 818 138  
 3492 72  
 818  
 898

SERIAL TEMPERATURES.

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

REMARKS:

*Story*  
 No. *4715* # *Hy* Date *12 Aug. 02*  
*Sigsbee* Machine. Reel. *Navy*  
 Turns *929* Cor. + *8* Depth *1010 fms*  
 Shot or lead *60*  
 Bottom *br m. s.*  
 Bottom temperature *36.6°*  
 No. of thermometer *98237* Cor. *-0*  
 Corrected temperature *36.6°*  
 Air *79* Surface *78* Drift  
 Trawl or dredge

| SOUNDING WIRE. |                | TURNS.     | DREDGE ROPE. |     |
|----------------|----------------|------------|--------------|-----|
| DOWN.          | UP.            |            | DOWN.        | UP. |
| <i>7.40.50</i> | <i>7.59.10</i> | 0          |              |     |
| <i>41.35</i>   | <i>58.10</i>   | 100        |              |     |
| <i>42.10</i>   | <i>57.10</i>   | 200        |              |     |
| <i>43.00</i>   | <i>56.10</i>   | 300        |              |     |
| <i>43.50</i>   | <i>55.10</i>   | 400        |              |     |
| <i>44.40</i>   | <i>54.05</i>   | 500        |              |     |
| <i>45.30</i>   | <i>53.00</i>   | 600        |              |     |
| <i>46.25</i>   | <i>51.50</i>   | 700        |              |     |
| <i>47.20</i>   | <i>50.50</i>   | 800        |              |     |
| <i>48.20</i>   | <i>49.40</i>   | 900        |              |     |
| <i>48.40</i>   | <i>49.30</i>   | <i>929</i> |              |     |
|                |                | 1100       |              |     |
|                |                | 1200       |              |     |
|                |                | 1300       |              |     |
|                |                | 1400       |              |     |
|                |                | 1500       |              |     |
|                |                | 1600       |              |     |
|                |                | 1700       |              |     |
|                |                | 1800       |              |     |
|                |                | 1900       |              |     |
|                |                | 2000       |              |     |
|                |                | 2100       |              |     |
|                |                | 2200       |              |     |
|                |                | 2300       |              |     |
|                |                | 2400       |              |     |

Ukula Point, N 59° 30' E., 6.3'

81C  
500m  
82

11310 20V  
929 124  
3381 86  
929  
1010 pm  
4000

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

# SERIAL TEMPERATURES.

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

REMARKS:

No. *4716* Date *12 Aug '02*  
*Rigsbee* Machine. / Reel. *Heavy*  
 Turns *854* Cor. + *75* Depth *929 fms.*  
 Shot or lead *60 Lbs*  
 Bottom *gy S M Fr*  
 Bottom temperature *36.8*  
 No. of thermometer *98237* Cor. *-0*  
 Corrected temperature *36.8*  
 Air *78°* Surface *77°* Drift  
 Trawl or dredge

| SOUNDING WIRE.  |                 | TURNS.         | DREDGE ROPE. |     |
|-----------------|-----------------|----------------|--------------|-----|
| DOWN.           | UP.             |                | DOWN.        | UP. |
| <i>10.25.50</i> | <i>10.41.25</i> | 0              |              |     |
| <i>26.40</i>    | <i>40.20</i>    | 100            |              |     |
| <i>27.30</i>    | <i>39.25</i>    | 200            |              |     |
| <i>28.25</i>    | <i>38.25</i>    | 300            |              |     |
| <i>29.20</i>    | <i>37.30</i>    | 400            |              |     |
| <i>30.10</i>    | <i>36.30</i>    | 500            |              |     |
| <i>31.10</i>    | <i>35.20</i>    | 600            |              |     |
| <i>32.15</i>    | <i>34.15</i>    | 700            |              |     |
| <i>33.15</i>    | <i>35.20</i>    | 800            |              |     |
| <i>10.33.40</i> | <i>10.34.40</i> | <i>854</i>     |              |     |
|                 |                 | <del>900</del> |              |     |
|                 |                 | 1000           |              |     |
|                 |                 | 1100           |              |     |
|                 |                 | 1200           |              |     |
|                 |                 | 1300           |              |     |
|                 |                 | 1400           |              |     |
|                 |                 | 1500           |              |     |
|                 |                 | 1600           |              |     |
|                 |                 | 1700           |              |     |
|                 |                 | 1800           |              |     |
|                 |                 | 1900           |              |     |
|                 |                 | 2000           |              |     |
|                 |                 | 2100           |              |     |
|                 |                 | 2200           |              |     |
|                 |                 | 2300           |              |     |
|                 |                 | 2400           |              |     |

Ukula Point, N 37° 45' W, 6.5'

|      |     |      |  |
|------|-----|------|--|
|      |     | 2500 |  |
|      |     | 2600 |  |
|      |     | 2700 |  |
|      |     | 2800 |  |
|      |     | 2900 |  |
|      |     | 3000 |  |
|      |     | 3100 |  |
|      |     | 3200 |  |
|      |     | 3300 |  |
|      |     | 3400 |  |
|      |     | 3500 |  |
|      |     | 3600 |  |
| 4310 | 205 | 3700 |  |
| 854  | 130 | 3800 |  |
| 3456 | 75  | 3900 |  |
|      | 854 | 4000 |  |
|      | 929 |      |  |

SERIAL TEMPERATURES.

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

REMARKS:

*Hutchinson*  
507

*Pat. Log 62.3*

No. *4717* Date *Aug 13 '02.*  
*Sigsbee* Machine. / Reel. *Harvey*  
Turns *347* Cor. + *34* Depth *381 fms*  
Shot or lead *60 lbs.*  
Bottom *fine co S*  
Bottom temperature *42.5*  
No. of thermometer *95237* Cor. *-0.2*  
Corrected temperature *42.30*  
Air *78* Surface *76* Drift  
~~Trawl or dredge~~

| SOUNDING WIRE. |              | TURNS. | DREDGE ROPE. |     |
|----------------|--------------|--------|--------------|-----|
| DOWN.          | UP.          |        | DOWN.        | UP. |
| <i>1-14.40</i> | <i>23.10</i> | 0      |              |     |
| <i>15.35</i>   | <i>22.05</i> | 100    |              |     |
| <i>16.20</i>   | <i>20.50</i> | 200    |              |     |
| <i>17.10</i>   | <i>19.40</i> | 300    |              |     |
| <i>17.40</i>   | <i>19.00</i> | 400    |              |     |
|                |              | 500    |              |     |
|                |              | 600    |              |     |
|                |              | 700    |              |     |
|                |              | 800    |              |     |
|                |              | 900    |              |     |
|                |              | 1000   |              |     |
|                |              | 1100   |              |     |
|                |              | 1200   |              |     |
|                |              | 1300   |              |     |
|                |              | 1400   |              |     |
|                |              | 1500   |              |     |
|                |              | 1600   |              |     |
|                |              | 1700   |              |     |
|                |              | 1800   |              |     |
|                |              | 1900   |              |     |
|                |              | 2000   |              |     |
|                |              | 2100   |              |     |
|                |              | 2200   |              |     |
|                |              | 2300   |              |     |
|                |              | 2400   |              |     |

Ukula Point, N 74° 15' W, 13.5'

OK  
H.P.  
24

4310 205  
347 171  
3963 34  
347  
381

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:

*Autotachism*

Pat Log 72.3

507

No. *Ny 471.8* Date *Aug 13, 1902*

Machine. # *1* Reel. *Wavy*

Turns *320* Cor. + *32* Depth *352 fms*

Shot or lead *35 lbs.*

Bottom *fine co. S. For*

Bottom temperature *42.6°*

No. of thermometer *98237* Cor. *-0.2*

Corrected temperature *42.4°*

Air *78* Surface *76* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*3-47.55* *56.00*  
*48.50* *54.40*  
*49.45* *53.30*  
*50.40* *52.25*  
*51 =* *52.10*

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

East Coast of Hanamantlu (Atankini) Whse  
Kauai, N 51° W, 5.7'

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4310 205

320 173

3990 32

320

352

# SERIAL TEMPERATURES.

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

REMARKS:

391- P. 74.3.  
 No. 4181 Date 13 Aug. 02  
 Machine Reel. Trawl  
 Turns 745 Cor. + 66 Depth 811 fms  
 Shot or lead 60 #

Bottom mang. S. 38'

Bottom temperature

No. of thermometer 98237 Cor. - 0.2 N,

Corrected temperature 38.1

Air 78 Surface 76 Drift 2.2'

Trawl or dredge 52 ft Blake, apron

## SOUNDING WIRE.

## DREDGE ROPE.

DOWN.

UP.

TURNS.

DOWN.

UP.

|         |         |      |         |         |
|---------|---------|------|---------|---------|
| 5.17.30 | 5.33.20 | 0    | 5.43.30 | 7.14.30 |
| 18.40   | 32.20   | 100  | 47.00   | 21.40   |
| 19.30   | 31.20   | 200  | 50.30   | 18.00   |
| 20.20   | 30.30   | 300  | 54.00   | 15.00   |
| 21.20   | 29.30   | 400  | 57.40   | 12.00   |
| 22.30   | 28.30   | 500  | 6.01.30 | 08.30   |
| 23.25   | 27.10   | 600  | 05.00   | 05.00   |
| 24.25   | 26.10   | 700  | 08.30   | 7.01.30 |
| 5.25.00 | 5.25.40 | 745  | 12.00   | 58.00   |
|         |         | 900  | 15.15   | 54.20   |
|         |         | 1000 | 19.20   | 50.30   |
|         |         | 1100 | 26.00   | 45.00   |
|         |         | 1200 |         |         |
|         |         | 1300 |         |         |
|         |         | 1400 |         |         |
|         |         | 1500 |         |         |
|         |         | 1600 |         |         |
|         |         | 1700 |         |         |
|         |         | 1800 |         |         |
|         |         | 1900 |         |         |
|         |         | 2000 |         |         |
|         |         | 2100 |         |         |
|         |         | 2200 |         |         |
|         |         | 2300 |         |         |
|         |         | 2400 |         |         |

26"

\* Look around

Course N. N. E. (p.p.c.)

Atanamaulu Whse, N 56° W, 6.6'

|                  |          |      |  |
|------------------|----------|------|--|
| OK<br>HOB.<br>in |          | 2500 |  |
|                  |          | 2600 |  |
|                  |          | 2700 |  |
|                  |          | 2800 |  |
|                  |          | 2900 |  |
|                  |          | 3000 |  |
|                  |          | 3100 |  |
|                  |          | 3200 |  |
|                  |          | 3300 |  |
|                  |          | 3400 |  |
|                  |          | 3500 |  |
|                  | 4310 205 | 3600 |  |
|                  | 745 13.9 | 3700 |  |
|                  | 3565 66  | 3800 |  |
|                  | 745      | 3900 |  |
|                  | 811      | 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. *4182* Date *13 Aug '07*  
 Machine. *1* Reel. *Mary*  
 Turns *616* Cor. + *55* Depth *671 fms*  
 Shot or lead *60 #*  
 Bottom *many s. o. f. R*  
 Bottom temperature *38.4*  
 No. of thermometer *98237* Cor. *-0*  
 Corrected temperature *38.40* (*N 190 E*)  
 Air *78* Surface *77* Drift *1.8'*  
 Trawl or dredge *10' Blake*

| SOUNDING WIRE. |         | TURNS. | DREDGE ROPE. |         |
|----------------|---------|--------|--------------|---------|
| DOWN.          | UP.     |        | DOWN.        | UP.     |
| 7.32.00        | 7.43.50 | 0      | 7.55.15      | 8.40.20 |
| 32.40          | 42.50   | 100    | 58.55        | 36.35   |
| 33.35          | 42.00   | 200    | 5.02.15      | 33.30   |
| 34.30          | 41.10   | 300    | 06.50        | 30.10   |
| 35.25          | 40.20   | 400    | 09.55        | 26.40   |
| 36.20          | 39.30   | 500    | 12.50        | 23.-    |
| 37.20          | 38.30   | 600    | 17.40        | 19.-    |
| 37.35          | 38.20   | 616    | 21.50        | 14.50   |
|                |         | 800    | 24.50        | 09.25   |
|                |         | 900    | 27.55        | 05.-    |
|                |         | 980*   | 32.10        | 9.00.-  |
|                |         | 1000*  | 35.30        | 8.55.-  |
|                |         | 1050   |              |         |
|                |         | 1100   |              |         |
|                |         | 1200   |              |         |
|                |         | 1300   |              |         |
|                |         | 1400   |              |         |
|                |         | 1500   |              |         |
|                |         | 1600   |              |         |
|                |         | 1700   |              |         |
|                |         | 1800   |              |         |
|                |         | 1900   |              |         |
|                |         | 2000   |              |         |
|                |         | 2100   |              |         |
|                |         | 2200   |              |         |
|                |         | 2300   |              |         |
|                |         | 2400   |              |         |

*Also marks end of Dr. 4181.*  
*\* Bottom*  
*20 min.*

Hanamaula Whse, N 74° 30' W, 5.6'

OK  
JCH  
2

4310 201  
616 150  
3694 55  
616  
671

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:

Not worked completely.



Sanamaulu Whse,  $\delta 87^{\circ} 15' W$ , 6.1'

OK  
1000  
2

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

4310  
880  
2430

205  
128  
77  
880  
957

SERIAL TEMPERATURES.

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

REMARKS:

394

No. *4184* Date *Aug 13, 1902.*Sigsbee Machine. # *1* Reel. *Star*Turns *982* Cor. + *85* Depth *1067 fms*Shot or lead *60 lbs.*Bottom *gy. S. Glob.*Bottom temperature *36.30*No. of thermometer *78237* Cor. *-0*Corrected temperature *36.30* (*N 70° W*)Air *81* Surface *77* Drift *3.2'*Trawl or dredge *9' Tanner; wing weights each side*

## SOUNDING WIRE.

DOWN.

UP.

TURNS.

## DREDGE ROPE.

DOWN.

UP.

|                 |              |             |                 |                |
|-----------------|--------------|-------------|-----------------|----------------|
| <i>12-12.00</i> | <i>42.55</i> | <i>0</i>    | <i>12-48.40</i> | <i>54.30</i>   |
| <i>22.55</i>    | <i>41.50</i> | <i>100</i>  | <i>52.30</i>    | <i>50.20</i>   |
| <i>23.45</i>    | <i>40.50</i> | <i>200</i>  | <i>56.20</i>    | <i>47.10</i>   |
| <i>24.40</i>    | <i>39.50</i> | <i>300</i>  | <i>1-00.20</i>  | <i>44.00</i>   |
| <i>25.40</i>    | <i>38.55</i> | <i>400</i>  | <i>03.50</i>    | <i>40.45</i>   |
| <i>26.35</i>    | <i>37.55</i> | <i>500</i>  | <i>06.45</i>    | <i>37.10</i>   |
| <i>27.30</i>    | <i>36.55</i> | <i>600</i>  | <i>10.15</i>    | <i>33.55</i>   |
| <i>28.35</i>    | <i>35.55</i> | <i>700</i>  | <i>13.55</i>    | <i>30.25</i>   |
| <i>29.35</i>    | <i>34.50</i> | <i>800</i>  | <i>17.35</i>    | <i>26.50</i>   |
| <i>30.35</i>    | <i>33.50</i> | <i>900</i>  | <i>21.30</i>    | <i>23.15</i>   |
| <i>31.30</i>    | <i>33.00</i> | <i>1000</i> | <i>24.30</i>    | <i>19.35</i>   |
|                 |              | <i>1100</i> | <i>28.30</i>    | <i>15.45</i>   |
|                 |              | <i>1200</i> | <i>32.00</i>    | <i>12.00</i>   |
|                 |              | <i>1300</i> | <i>35.20</i>    | <i>07.10</i>   |
|                 |              | <i>1350</i> | <i>37.25</i>    |                |
|                 |              | <i>1400</i> | <i>46.00</i>    | <i>2-02.30</i> |

*Also marks and*  
*of No 4183.*

*25<sup>m</sup>*

Hanamaulu whse, 87° 45' W., 7 $\frac{2}{10}$ '

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

4310 205  
 982 120  
 3328 85  
 982  
 1067

# SERIAL TEMPERATURES.

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

## REMARKS:

\* Bottom 1330

57.  
*Autelins*  
*Stalley*  
*Appl*  
 No. *5* 4185 Date *Aug 13, 1902.*  
*Sigsbee* Machine. #1 Reel. *Navy.*  
 Turns 920 Cor. + 80 Depth 1000 fms  
 Shot or lead 60 lbs.  
 Bottom gy S. M. For.  
 Bottom temperature 36.6°  
 No. of thermometer 98237 Cor. -0  
 Corrected temperature 36.6 { N 17° E  
 Air 81 Surface 77 Drift } 4.2'  
 Trawl or dredge 9' Tanner, Tail & Wing Hights

| SOUNDING WIRE. |       | TURNS. | DREDGE ROPE.    |          |
|----------------|-------|--------|-----------------|----------|
| DOWN.          | UP.   |        | DOWN.           | UP.      |
| 3:01.15        | 20.50 | 0      | 3:26.30         | 6.01.30  |
| 02.05          | 19.45 | 100    | 31.20           | 59.40    |
| 02.50          | 18.45 | 200    | 35.00           | 55.40    |
| 03.50          | 17.45 | 300    | 39.20           | 52.40    |
| 04.45          | 16.50 | 400    | 42.50           | 49.40    |
| 05.40          | 15.55 | 500    | 46.30           | 46.30    |
| 06.40          | 14.55 | 600    | 49.50           | 43.10    |
| 07.40          | 13.55 | 700    | 53.00           | 40.00    |
| 08.50          | 12.50 | 800    | 56.30           | 36.25    |
| 09.55          | 11.45 | 900    | 4.00.00         | 33.10    |
| 10.10          | 11.30 | 1000   | 03.30           | 29.40    |
|                |       | 1100   | 06.45           | 26.10    |
|                |       | 1200   | 10.00           | 22.50    |
|                |       | 1300   | 15.30           | 19.10    |
|                |       | 1400   | 20.00           | 15.30    |
|                |       | 1500   | 25.00           | 11.30    |
|                |       | 1600   | 29.20           | 07.40    |
|                |       | 1700   | 33.40           | 04.00    |
|                |       | 1800   | 38.00           | 01.00.00 |
|                |       | 1900   |                 |          |
|                |       | 2000   | 22 <sup>m</sup> |          |
|                |       | 2100   |                 |          |
|                |       | 2200   |                 |          |
|                |       | 2300   |                 |          |
|                |       | 2400   |                 |          |

Henamaulu Whse, 849°30'N, 8 $\frac{4}{10}$ '

81C  
stop  
1/2

|            |            |
|------------|------------|
| 4310       | 205        |
| 920        | 125        |
| <hr/> 3390 | <hr/> 80   |
|            | 920        |
|            | <hr/> 1000 |

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

2 More SERIAL TEMPERATURES *L.S.*  
397

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

REMARKS:

No. *4719* Date *13<sup>th</sup> Aug 02*  
 Machine. *1* Reel. *Heavy*  
 Turns *1211* Cor. + *103* Depth *1314 fms*  
 Shot or lead *60 lbs*  
 Bottom *Hk Spi.*  
 Bottom temperature *35*  
 No. of thermometer *98237* Cor. *-0*  
 Corrected temperature *35.0*  
 Air *79* Surface *77* Drift  
 Trawl or dredge

| SOUNDING WIRE. |                | TURNS.      | DREDGE ROPE. |     |
|----------------|----------------|-------------|--------------|-----|
| DOWN.          | UP.            |             | DOWN.        | UP. |
| <i>6.10.10</i> | <i>6.34.30</i> | 0           |              |     |
| <i>11. -</i>   | <i>33.40</i>   | 100         |              |     |
| <i>11.50</i>   | <i>32.45</i>   | 200         |              |     |
| <i>12.40</i>   | <i>31.50</i>   | 300         |              |     |
| <i>13.35</i>   | <i>31. -</i>   | 400         |              |     |
| <i>14.30</i>   | <i>30. -</i>   | 500         |              |     |
| <i>15.30</i>   | <i>29.10</i>   | 600         |              |     |
| <i>16.30</i>   | <i>28.10</i>   | 700         |              |     |
| <i>17.30</i>   | <i>27.10</i>   | 800         |              |     |
| <i>18.35</i>   | <i>26.10</i>   | 900         |              |     |
| <i>19.40</i>   | <i>25.10</i>   | 1000        |              |     |
| <i>20.45</i>   | <i>24.10</i>   | 1100        |              |     |
| <i>6.21.50</i> | <i>6.23. -</i> | 1200        |              |     |
|                |                | <i>1211</i> |              |     |
|                |                | 1300        |              |     |
|                |                | 1400        |              |     |
|                |                | 1500        |              |     |
|                |                | 1600        |              |     |
|                |                | 1700        |              |     |
|                |                | 1800        |              |     |
|                |                | 1900        |              |     |
|                |                | 2000        |              |     |
|                |                | 2100        |              |     |
|                |                | 2200        |              |     |
|                |                | 2300        |              |     |
|                |                | 2400        |              |     |

Station *Manila* *W. 83° 45' N, 12.2'*

*OK  
HVS*

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

*4310 205*  
*1211 102*  

---

*3099 103*  
*1211*  

---

*1314*

SERIAL TEMPERATURES.

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

REMARKS:

396 P.L. = 80.3

No. *Dr. 4186* Date *13 Aug. '02*

*Sigsbee* Machine. / Reel. *Kamp*

Turns *626* Cor. + *56* Depth *682 fms*

Shot or lead *60 Lbs*

Bottom *gy S. Frv*

Bottom temperature *38.1*

No. of thermometer *78237* Cor. *-0*

Corrected temperature *38.1°* *(N 5° W)*

Air *76* Surface *77* Drift *1.7'*

Trawl or dredge *9' Tanner, Tail & Ring Nights*

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

|                |                |             |                |                |
|----------------|----------------|-------------|----------------|----------------|
| <i>7.34.15</i> | <i>7.47.45</i> | 0           | <i>7.54.10</i> | <i>37.50</i>   |
| <i>35.05</i>   | <i>46.45</i>   | 100         | <i>58-50</i>   | <i>34.15</i>   |
| <i>36.05</i>   | <i>45.45</i>   | 200         | <i>8-05-00</i> | <i>31.15</i>   |
| <i>37.05</i>   | <i>44.45</i>   | 300         | <i>07-30</i>   | <i>28.30</i>   |
| <i>38.-</i>    | <i>43.45</i>   | 400         | <i>11-45</i>   | <i>24.50</i>   |
| <i>38.55</i>   | <i>42.50</i>   | 500         | <i>15-50</i>   | <i>21.20</i>   |
| <i>39.50</i>   | <i>41.50</i>   | 600         | <i>19-00</i>   | <i>17.45</i>   |
| <i>7.40.-</i>  | <i>7.41.25</i> | <i>626</i>  | <i>23-50</i>   | <i>14.10</i>   |
|                |                | 700         |                |                |
|                |                | 800         | <i>28-00</i>   | <i>09.50</i>   |
|                |                | 900         | <i>32-35</i>   | <i>05.10</i>   |
|                |                | 1000        | <i>35-50</i>   | <i>9-00.50</i> |
|                |                | <i>1055</i> | <i>38-10</i>   | <i>58.40</i>   |
|                |                | <i>1100</i> |                |                |
|                |                | 1200        |                |                |
|                |                | 1300        |                |                |
|                |                | 1400        |                |                |
|                |                | 1500        |                |                |
|                |                | 1600        |                |                |
|                |                | 1700        |                |                |
|                |                | 1800        |                |                |
|                |                | 1900        |                |                |
|                |                | 2000        |                |                |
|                |                | 2100        |                |                |
|                |                | 2200        |                |                |
|                |                | 2300        |                |                |
|                |                | 2400        |                |                |

*20 Min*

*Bottom at 840 fms*

Handmade Whse, 848°15' N, 71°10'

OK  
JTB  
/

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

4310  
626  
J684  
205  
149  
56  
626  
682

SERIAL TEMPERATURES.

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

REMARKS:

Lost one ring weight -  
35 lb. shrt.

397

507.

*Antelium*  
 No. *4187* Date *Aug 13, 1902*  
*Sigsbee* Machine # *1* Reel. *Navy*  
 Turns *465* Cor. + *43* Depth *508 fms*  
 Shot or lead *60 lbs.*  
 Bottom *gy. S. For*  
 Bottom temperature *40.0*  
 No. of thermometer *98237* Cor. *-0*  
 Corrected temperature *40.0*  
 Air *76* Surface *77* Drift *N 13° E 1.5'*  
 Trawl or dredge *9 Tanner, Tail & Wing weights*

| SOUNDING WIRE. |              | TURNS.     | DREDGE ROPE.    |                 |
|----------------|--------------|------------|-----------------|-----------------|
| DOWN.          | UP.          |            | DOWN.           | UP.             |
| <i>9-45.10</i> | <i>55.55</i> | 0          | <i>15.02.10</i> | <i>18.00</i>    |
| <i>45.55</i>   | <i>54.55</i> | 100        | <i>06.40</i>    | <i>14.45</i>    |
| <i>46.50</i>   | <i>53.55</i> | 200        | <i>10.20</i>    | <i>11.30</i>    |
| <i>47.40</i>   | <i>52.55</i> | 300        | <i>14.20</i>    | <i>08.05</i>    |
| <i>48.35</i>   | <i>52.00</i> | 400        | <i>17.45</i>    | <i>04.40</i>    |
| <i>49.25</i>   | <i>51.20</i> | 500        | <i>20.10</i>    | <i>11.01.05</i> |
|                |              | 600        | <i>23.00</i>    | <i>57.30</i>    |
|                |              | 700        | <i>27.50</i>    | <i>53.45</i>    |
|                |              | <i>750</i> | <i>31.00</i>    | <i>51.45</i>    |
|                |              | 800        |                 |                 |
|                |              | 900        |                 |                 |
|                |              | 1000       |                 |                 |
|                |              | 1100       |                 |                 |
|                |              | 1200       |                 |                 |
|                |              | 1300       |                 |                 |
|                |              | 1400       |                 |                 |
|                |              | 1500       |                 |                 |
|                |              | 1600       |                 |                 |
|                |              | 1700       |                 |                 |
|                |              | 1800       |                 |                 |
|                |              | 1900       |                 |                 |
|                |              | 2000       |                 |                 |
|                |              | 2100       |                 |                 |
|                |              | 2200       |                 |                 |
|                |              | 2300       |                 |                 |
|                |              | 2400       |                 |                 |

*Marks end of*  
*5<sup>th</sup> 4186*

*21 min*  
*Bottom 580 fms*

Hanamaulu Whse, S38°45'N, 81°13'

|      |     |      |  |
|------|-----|------|--|
|      |     | 2500 |  |
|      |     | 2600 |  |
|      |     | 2700 |  |
|      |     | 2800 |  |
|      |     | 2900 |  |
|      |     | 3000 |  |
|      |     | 3100 |  |
|      |     | 3200 |  |
|      |     | 3300 |  |
|      |     | 3400 |  |
| 4310 | 205 | 3500 |  |
| 465  | 162 | 3600 |  |
| 3845 | 43  | 3700 |  |
|      | 465 | 3800 |  |
|      | 508 | 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*  
*Autism*

No. *Ny 4720* Date *Aug 13, 1902.*

*Sigsbee* Machine. #1 Reel. *Navy.*

Turns *645* Cor. + *58* Depth *703 fms*

Shot or lead *85 lbs.*

Bottom *gy. S. M. S.*

Bottom temperature *38.3°*

No. of thermometer *98237* Cor. *-0*

Corrected temperature *38.3°*

Air *78* Surface *77* Drift

Trawl or dredge

SOUNDING WIRE.

DOWN.

UP.

TURNS.

DREDGE ROPE.

DOWN.

UP.

*11.23.40* *37.35*

0

*24.30* *36.30*

100

*25.20* *35.30*

200

*26.20* *34.30*

300

*27.15* *33.25*

400

*28.10* *32.20*

500

*29.10* *31.20*

600

*29.45* *30.45*

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Honamanku Mse, 8°40'45"N, 95°10'

|      |     |      |  |
|------|-----|------|--|
|      |     | 2500 |  |
|      |     | 2600 |  |
|      |     | 2700 |  |
|      |     | 2800 |  |
|      |     | 2900 |  |
|      |     | 3000 |  |
|      |     | 3100 |  |
|      |     | 3200 |  |
|      |     | 3300 |  |
|      |     | 3400 |  |
| 4310 | 205 | 3500 |  |
| 645  | 147 | 3600 |  |
| 3665 | 58  | 3700 |  |
|      | 645 | 3800 |  |
|      | 703 | 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:

Ran off 1300 fms. dredge cable in forenoon of 14<sup>th</sup> August, wiped it, and tared it with the tar-preparation furnished by the cable mfrs.

398

*Sally*

No. 4188

5

Date Aug. 23-07

Machine.

Reel.

Turns

Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Corrected temperature

Air

74

Surface

Drift

Trawl or dredge

Two surface nets

*Surface net*

$1\frac{9}{10}$  '  $N\frac{1}{2}E$

| SOUNDING WIRE.        |      | TURNS. | DREDGE ROPE.                                     |     |
|-----------------------|------|--------|--------------------------------------------------|-----|
| DOWN.                 | UP.  |        | DOWN.                                            | UP. |
| 6.54                  | 7.04 | 0      | 10 <sup>m</sup>                                  |     |
| 7.08                  | 7.18 | 100    | 10 <sup>m</sup>                                  |     |
| 7.22                  | 7.32 | 200    | 10 <sup>m</sup>                                  |     |
| 7.37                  | 7.47 | 300    | 10 <sup>m</sup>                                  |     |
| 7.50                  | 8.00 | 400    | 10 <sup>m</sup>                                  |     |
| <del>XXXXXXXXXX</del> |      | 500    | 542 hauls = 10 hls<br>total time 50 <sup>m</sup> |     |
|                       |      | 600    |                                                  |     |
|                       |      | 700    |                                                  |     |
|                       |      | 800    |                                                  |     |
|                       |      | 900    |                                                  |     |
|                       |      | 1000   |                                                  |     |
|                       |      | 1100   |                                                  |     |
|                       |      | 1200   |                                                  |     |
|                       |      | 1300   |                                                  |     |
|                       |      | 1400   |                                                  |     |
|                       |      | 1500   |                                                  |     |
|                       |      | 1600   |                                                  |     |
|                       |      | 1700   |                                                  |     |
|                       |      | 1800   |                                                  |     |
|                       |      | 1900   |                                                  |     |
|                       |      | 2000   |                                                  |     |
|                       |      | 2100   |                                                  |     |
|                       |      | 2200   |                                                  |     |
|                       |      | 2300   |                                                  |     |
|                       |      | 2400   |                                                  |     |

Honolulu to San Francisco.  
 28°13'42"N 145°44'W.

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

At bottom of port ~~bottom~~

# SERIAL TEMPERATURES.

| DEPTH. | TEMP.                                                                                    | NO. OF THER. | COR. | COR. TEMP. |
|--------|------------------------------------------------------------------------------------------|--------------|------|------------|
| 25     | Water is cloudy. Quite<br>breezy from N.E. &<br>S. north sea, pass-<br>ing rain squalls. |              |      |            |
| 50     |                                                                                          |              |      |            |
| 100    |                                                                                          |              |      |            |
| 200    |                                                                                          |              |      |            |
| 300    |                                                                                          |              |      |            |
| 400    |                                                                                          |              |      |            |
| 500    |                                                                                          |              |      |            |
| 600    |                                                                                          |              |      |            |
| 700    |                                                                                          |              |      |            |
| 800    |                                                                                          |              |      |            |
| 900    |                                                                                          |              |      |            |
| 1000   |                                                                                          |              |      |            |

REMARKS:

399

No. *SV 4189* Date *Aug 25 1902*

Machine. Reel.

Turns Cor. + Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer Cor.

Corrected temperature

Air *74* Surface *69* DriftTrawl or dredge *2 Surface Nets, S & O. Lines.*

## SOUNDING WIRE.

DOWN.

UP.

## TURNS.

## DREDGE ROPE.

DOWN.

UP.

6.32 6.42

0

10 min, 2 nets

6.47 6.57

100

10 min, 2 nets

7.00 7.10

300

10 min, 2 nets

7.14 7.24

500

Std. side only  
Port net torn.

7.29 7.39

700

800

Shifted net  
to Port beam

900

1000

3 hauls with 2 nets

2

"

1100

1200

" 1 "

1300

= 8 hauls 50 min.

1400

1500

1600

1700

1800

1900

2000

2100

2200

2300

2400

Lat Log 40.5

31° 34' 12" N.

139° 08' 12" W.

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     | Clear & Cloudy -<br>Light breeze<br>from N. N. E.<br>Smooth Sea. |              |      |            |
| 50     |                                                                  |              |      |            |
| 100    |                                                                  |              |      |            |
| 200    |                                                                  |              |      |            |
| 300    |                                                                  |              |      |            |
| 400    |                                                                  |              |      |            |
| 500    |                                                                  |              |      |            |
| 600    |                                                                  |              |      |            |
| 700    |                                                                  |              |      |            |
| 800    |                                                                  |              |      |            |
| 900    |                                                                  |              |      |            |
| 1000   |                                                                  |              |      |            |

REMARKS:

Both net badly  
torn

507  
Kil-

-400-

P.L. 24.5 } 0.4 m.  
24.9 }

No. Dr. 4190. Date Aug. 27th, '02.

Machine. - Reel

Turns - Cor. +

Depth

Shot or lead

Bottom

Bottom temperature

No. of thermometer

Cor.

Corrected temperature

Air 69° Surface 69° Drift

{ N 65° E  
2.0'

~~Trawl or dredge~~ 2 Surface Nets, S. & P. booms,

| -SOUNDING WIRE.-                                 |      | TURNS. | -DREDGE ROPE.- |     |
|--------------------------------------------------|------|--------|----------------|-----|
| DOWN.                                            | UP.  |        | DOWN.          | UP. |
| 6.33                                             | 6.43 | 100    | 10 m. each.    |     |
| 6.46                                             | 6.56 | 200    | 10 m.          | "   |
| 6.59                                             | 7.09 | 300    | 10 m.          | "   |
| 7.12                                             | 7.22 | 400    | 10 m.          | "   |
| 7.25                                             | 7.35 | 500    | 10 m.          | "   |
| 7.38                                             | 7.48 | 600    | 10 m.          | "   |
| = 12 hauls (for 6 simultaneous-);<br>60 minutes. |      | 700    |                |     |
|                                                  |      | 800    |                |     |
|                                                  |      | 900    |                |     |
|                                                  |      | 1000   |                |     |
|                                                  |      | 1100   |                |     |
|                                                  |      | 1200   |                |     |
|                                                  |      | 1300   |                |     |
|                                                  |      | 1400   |                |     |
|                                                  |      | 1500   |                |     |
|                                                  |      | 1600   |                |     |
|                                                  |      | 1700   |                |     |
|                                                  |      | 1800   |                |     |
|                                                  |      | 1900   |                |     |
|                                                  |      | 2000   |                |     |
|                                                  |      | 2100   |                |     |
|                                                  |      | 2200   |                |     |
|                                                  |      | 2300   |                |     |
|                                                  |      | 2400   |                |     |

34° 39' 18" N. 132° 04' W.

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     | <i>Fair, partly cloudy, and pleasant.<br/>Gentle breeze from North. Smooth<br/>Sea.</i> |              |      |            |
| 50     |                                                                                         |              |      |            |
| 100    |                                                                                         |              |      |            |
| 200    | <i>Pat. Log at beginning 24.5, and<br/>at end of surface tank, 24.9</i>                 |              |      |            |
| 300    |                                                                                         |              |      |            |
| 400    | <i>Ship having made 0.4 mile.</i>                                                       |              |      |            |
| 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   |              |     |

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

# SERIAL TEMPERATURES.

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

REMARKS:

*No.**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   |              |     |

2500

2600

2700

2800

2900

3000

3100

3200

3300

3400

3500

3600

3700

3800

3900

4000

## SERIAL TEMPERATURES.

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

REMARKS:

*No.**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   |              |     |

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

# SERIAL TEMPERATURES.

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

REMARKS:

*No.**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   |              |     |

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

SERIAL TEMPERATURES.

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

REMARKS:

*No.**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   |              |     |

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

SERIAL TEMPERATURES.

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

REMARKS:

No.

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   |              |     |