

Albatross

20050

to

20098

1920

TO FISH AT 1000 METERS  
 IF THE WIRE HAS A STRAY OF  
 30° LET OUT 1156 METERS  
 40° " " 1304 " "  
 50° " " 1560 " "

19  
 20  
 380  
 387  
 1928  
 25  
 194

Station No. **C20050** Date: **Mar. 1** 191**20**

Hour: **2.<sup>33</sup>** P. M. to **4.20** P. M.

Position: Lat. **42-30** N Long. **70-18** W

Chart **HO 941**  
Locality: **Surf 7 Maine**

Depth: **176 M** Bottom: **—** Sample: **—**

Wind: Direction, **NNW** Force, **3**  
Air **44 = 6.7**

Sea: Sky:

TEMPERATURES

Depth meters	Thermometer— Make and No. BS. #	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	Typos "A"	2.4 3.0	—	+0.5	2.5	✓	G-B.
20	N.2.20873	2.10	8.6	-.15	1.95	✓	2
40	N.2.20875	2.00	9.0	-.11	1.89	✓	6
100	N2 20874	1.68	8.5	-.16	1.52	✓	4
150	N2 20872	1.86	9.0	-.18	1.68	✓	5

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

1.9  
2/30  
7.5k

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
Vertical net	150 M	3.30	3.32	
1 meter "	75-0	3.45	4.15	1/2
Surface #20	0	"	"	"
" 1/2 meter	0	"	"	"
meter net - 150 m. - out - av. $\angle$ 70° - varied 60° - 80°				

11-5314

## NOTES

Wells' alkalinity Tubes.  
 alkalinity  
 green indicator - darker than 8.  
 Red indicator, lighter than 7.8.  
 Can't get an agreement.

$$\begin{array}{r}
 1.8 \\
 \underline{2.1} \\
 3.6 \\
 \underline{3.78} \\
 3.8 \\
 \underline{3.2} \\
 35.8
 \end{array}$$

Station No. 20051

Date: Mar 1-2 1920

Hour: 7.00 P. M. to 7.30 A. M.

Position: Lat. 42-30-30 N Long. 70-08-30 W  
Chart HO 941

Locality:

Depth: 44 fms Bottom: — Sample: —  
79 meters

Wind: Direction, — Force, —

Sea: — Sky: —

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Duration in Mins Corrected Temp.	W. Sample	Knots per hour Bottle used
					13		0.50
					12.8		0.50
					15.6		0.97
					13.06		1.10
					11.8		1.10
					11.6		1.30
					11.2		0.70
					11.3		0.70
					10.5		1.20
					11.5		0.70
					11.0		0.50
					11.2		0.60
					11.5		0.60
					11.5		0.60

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction
					10.5	0.70
					11.2	0.60
					11.0	0.50

Color of water: — Transparency: 11.5 0.50

REMARKS: Anchored in 44 fms. 11.19 0.60  
11.2 0.50  
11.8 0.50  
10:21 0.60  
10.35 0.50

747  
1248  
71948

NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	

11-5314

NOTES

Current Meter # 98

Hour	Surf	Depth (50 m)	Compass
7:17-7:30P	740		ENE ✓
7:47-8:09.48		880-	W. ✓
8:21-8:26-40	2015		SW. ✓
8:52-9:05:04 1/2		1950	SW ✓
9:31-45-9:43-35	1910		W N W ✓
10:04:45-10:16:31		2120	W x S ✓
10:34-10:45:13	1060		NW ✓
11:01:35-11:12:53		1020	NW ✓
11:31:40-11:42:09	1775		NW ✓
<b>AM March 2</b>			
12:04:50-12:16:46		1120	NW ✓
12:31:25-12:42:26	670		NW ✓
1:02:20-1:13:37		885	N.W. ✓
1:55-11:30 claps	825		NSE ✓
2:20-11-28 cl.	810		E.
(at 2 m. drift from SE, seen as meter came up). SE. ✓			
3:00 = 10 <sup>th</sup> 28 cl.	880		E. ✓
3:20 = 11-16 cl.	780		NE ✓
(drift at 2 m. from E, seen as meter came up)			
4:02 4 <sup>th</sup> cl.	685		<del>per compass, N.</del>
but meter headed ESE (was visible) throughout the set)			
4:20 11 <sup>th</sup> cl.	685		at 10 m. depth; {SENE {OE
4:40 = 11:54 cl	630		N.E ✓
5:10 = 11:19 "	860		E.S.E. ✓
5:45 = 11:2 "	680		E.NE ✓
6:13 = 11:8 "	710		E.S.E ✓
6:45 = 10:21 "	720		N.E ✓
7:15 = 10:35 "	650		<del>N.</del> S.E. ✓

Station No. *C-20052* Date: *Mar. 2* 19*20*

Hour: *6:15 P* . M. to *9:30 P* . M.

Position: Lat. *42° 42' N* Long. *68° 41'*  
*Chart HO 941*

Locality:

Depth: *210 m* Bottom: \_\_\_\_\_ Sample: \_\_\_\_\_

Wind: Direction, *ENE* Force, *1*  
*Air 26 = -3.3*

Sea: *smooth* Sky: *cloudy*

TEMPERATURES

Depth meters	Thermometer— Make and No. B.S.#	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used GB#
0	<i>N.Z. 169602</i>	<i>3.13</i>				✓	
"	<i>R. 153</i>	<i>2.70</i>	<i>6.5</i>	<i>-08</i>	<i>2.62</i>	✓	<i>8</i>
20	<i>NZ 21575</i>	<i>2.29</i>	<i>7.5</i>	<i>-05</i>	<i>2.24</i>	✓	<i>8</i>
40	<i>" 20873</i>	<i>2.50</i>	<i>0°</i>	<i>-02</i>	<i>2.48</i>	✓	<i>2</i>
100	<i>" 20875</i>	<i>2.50</i>	<i>3.0</i>	<i>-03</i>	<i>2.47</i>	✓	<i>6</i>
150	<i>" 20874</i>	<i>3.60</i>	<i>.5°</i>	<i>0</i>	<i>3.60</i>	✓	<i>4</i>
200	<i>" 20872</i>	<i>5.40</i>	<i>1.0</i>	<i>-16</i>	<i>5.24</i>	✓	<i>5</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

6/20/58  
7.0

NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
Vertical (1/2 meter)	200-0	7:08	7:13	
Closing net (about 200 m)	L 35-45° 170°	7:23	8:11	
Miter net (about 125 m)		8:11	8:45	
#20 #10 (1/2 m)	0	8:15	8:45	
		"	"	
1/2 meter (cable net 125 m)	100-0	9:05	9:20	

11-5314

NOTES

Closing, miter + surface nets towed 30 min.

Closing net successful.  
Rich catch - Calanus, Euchaeta -  
Mefamychophanes - Limacina -  
Sagitta elegans. Bivalve.

Miter net carried away, one side of  
loop of sinker having parted. The  
1/2 meter net was put down to the  
same depth and towed 10 min.



Station No. *C-20053* Date: *March 3* 19*20*

Hour: *5:00* A . M. to *7:15* A . M.

Position: Lat. *42° 45'* Long. *67° 28' W*  
*chart # 0 141*

Locality:

Depth: *235 M* Bottom: *—* Sample: *—*

Wind: Direction, *ENE* Force, *1*  
*Air 32 = 0*

Sea: *smooth* Sky: *cloudy*

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>metes</i>	<i>B.S. #</i>						<i>GB#</i>
<i>0</i>	<i>Tyers "A"</i>	<i>36.5</i>		<i>+0.5</i>	<i>2.78</i>	<i>✓</i>	
<i>20</i>	<i>M. 2. 21575</i>	<i>2.18</i>	<i>1.9</i>	<i>+0.2</i>	<i>2.20</i>	<i>✓</i>	<i>8</i>
<i>40</i>	<i>" 20873</i>	<i>2.39</i>	<i>1.9</i>	<i>-0.5</i>	<i>2.34</i>	<i>✓</i>	<i>2</i>
<i>100</i>	<i>" 20875</i>	<i>2.30</i>	<i>1.0</i>	<i>-0.2</i>	<i>2.28</i>	<i>✓</i>	<i>6</i>
<i>150</i>	<i>" 20874</i>	<i>4.96</i>	<i>1.5</i>	<i>0</i>	<i>4.96</i>	<i>✓</i>	<i>4</i>
<i>225</i>	<i>" 20872</i>	<i>5.40</i>	<i>1.8</i>	<i>-0.1</i>	<i>5.39</i>	<i>✓</i>	<i>5</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
Vertical (1/2 m)	225-0	5:50	6:00	
Closing net (left net 250m)	225-0	6:10	6:25	
# 20 1/2 m	0	6:05	6:35	
Closing net (left net 100m)	75-0	6:55	7:15	
1/2 m	0	6:55	7:10	

11-5314

## NOTES

Closing + surface nets towed 30 min  
1/2 m, 2nd haul, towed 15

Station No. *C 20054* Date: *Mar. 3* 191*20*

Hour: *11.10* A.M. to *2:10 P*. M.

Position: Lat. *43° 15' N.* Long. *67° 45'*  
*Chart HO 941*

Locality:

Depth: *260 M.* Bottom: *Gy. md* Sample: *yes.*

Wind: Direction, *SW* Force, *2*  
*Air 39 = 3.9*

Sea: Sky:

TEMPERATURES

Depth meters	Thermometer— Make and No. B.S.#	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used GB #
0	<i>Tycos "A"</i>	<i>36°</i>	—	<i>+0.5</i>	<i>2.5</i>	✓	
20	<i>N.Z. 21575</i>	<i>1.82</i>	<i>2.</i>	<i>+0.2</i>	<i>1.84</i>	✓	<i>8</i>
40	<i>" 20873</i>	<i>1.87</i>	<i>2.6.</i>	<i>-0.5</i>	<i>1.84</i>	✓	<i>2</i>
100	<i>" 20875</i>	<i>1.80</i>	<i>2.5</i>	<i>-0.3</i>	<i>1.77</i>	✓	<i>6</i>
175	<i>" 20874</i>	<i>5.40</i>	<i>3.0</i>	<i>0</i>	<i>5.40</i>	✓	<i>4</i>
250	<i>" 20872</i>	<i>5.510</i>	<i>2.8.</i>	<i>+0.3</i>	<i>5.48</i>		<i>5</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS: *No water sample obtained at 250 meters; bottle put down at end of station to 225 m. + sample was gotten.*

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down AM	Up PM	
Vertical (1/2 m)	250-0	11:46	11:49 AM	
<del>Closing net (cable out 150m, ← 35°)</del>	<del>125-0</del>	<del>12:37</del>	<del>PM</del>	
1/2 m #20	} 0	11:55	12:25	
			PM	
1/2 m (cable out 150m)		1:35	2:00	

11-5314

## NOTES

Surface net, towed 30 min.  
 1/2 mile (at 150m) towed 25 min.  
 Closing net failed to open; trapping device  
 found with spring too loose, allowing  
 both lines to trap at same time. The  
 1/2 meter net went down in place of it -  
 150 meters cable out.

Station No. C-20055 Date: March 3 19120

Hour: 5:54 P . M. to 7:30 P. . M.

Position: Lat. 43° 42' N Long. 69° 55' W  
Chart H 0 941.

Locality:

Depth: 230 m Bottom: — Sample: —

Wind: Direction, WSW Force, 1  
Air- 39. = 39

Sea: Sky:

TEMPERATURES

Depth meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	B.S. # Type "A"	36.0	—	+0.5	2.5	✓	60#
20	N221575	1.900	9.0	-0.54	1.846	✓	8
40	"20873	1.92	6.	-0.10	1.82	✓	2
100	"20875	4.45	6	-0.06	4.39	✓	6
150	"20874	5.52	6.5	-0.06	5.46	✓	4
220	"20872	5.70	5.8	-0.11	5.59	✓	5

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth <i>meters</i>	TIME		Speed
		Down	Up	
Vertical net	22.5M	6.42	6.45	
Closing net $\angle$ 30°-30°	210 M <sup>out</sup> 175	6.55	7.25	
Surface # 20		"	"	
1/2 meter		"	"	

11-5314

## NOTES

closing net successful -  
good catch - Calanus &  
MeganycTiphanes.

Station No. *C-20056* Date: *March 3* 19*20*

Hour: *10:45* P. M. to *12:00* Mdt. M.

Position: Lat. *44° 05'* Long. *68° 08'*  
*Chart No 941*

Locality:

Depth: *100 M.* Bottom: *—* Sample: *—*

Wind: Direction, *SW* Force, *1*  
*Air 38 = 3.3*

Sea: *Smooth* Sky:

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>meters</i>	<i>B.S. #</i>						<i>G.B</i>
<i>0</i>	<i>Tyus "A"</i>	<i>33.6</i>	<i>—</i>	<i>+0.5</i>	<i>1.17</i>	<i>✓</i>	
<i>20</i>	<i>N220873</i>	<i>0.52</i>	<i>1.5°</i>	<i>-.02</i>	<i>0.50</i>	<i>✓</i>	<i>2</i>
<i>40</i>	<i>" 20875</i>	<i>.51</i>	<i>1.5°</i>	<i>-.02</i>	<i>0.49</i>	<i>✓</i>	<i>6</i>
<i>100</i>	<i>" 20874</i>	<i>2.0</i>	<i>2.0</i>	<i>-.05</i>	<i>1.95</i>	<i>✓</i>	<i>4</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth m.	TIME		Speed
		Down	Up	
Vertical net	100-0	11.15	11.18	
Closing net (open)	75-0	11.25	12:00 Mt	
Surface #20	0	11.30	12 Mt	
" 1/2 meter	0	"		

11-5314

## NOTES

Vertical net, practically nothing.  
Closing net used as open net.



Station No. C20057 Date: Mar 4 1912

Hour: 7:15 A . M. to 8:30 A . M.

Position: Lat. 43° 21' Long. 68° 58'  
Chart HO 911

Locality:

Depth: 130 m Bottom: gy M Sample: 20

Wind: Direction, S x W Force, 1  
Air 40 = 4.4

Sea: smooth Sky:

TEMPERATURES

Depth meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<u>Jyers "A"</u>	<u>35.5°</u>	<u>-</u>	<u>+0.5</u>	<u>2.22</u>	<u>✓</u>	<u>GB<sup>m</sup></u>
20	<u>M.Z. 20872</u>	<u>2.00</u>	<u>4.9.</u>	<u>-.09</u>	<u>1.91</u>	<u>✓</u>	<u>5</u>
40	<u>" 20873</u>	<u>2.00</u>	<u>5.</u>	<u>-.09</u>	<u>1.91</u>	<u>✓</u>	<u>2</u>
75	<u>" 20875</u>	<u>1.91</u>	<u>2.5</u>	<u>-.02</u>	<u>1.89</u>	<u>✓</u>	<u>6</u>
125	<u>" 20874</u>	<u>2.1</u>	<u>5.</u>	<u>-.10</u>	<u>2.00</u>	<u>✓</u>	<u>4</u>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth m.	TIME		Speed
		Down	Up	
Vertical net	120-0	7.50	7.53	
Closing net - <u>open</u>	75-0	8.00		
# 20.	0		} 1/2 hour.	
1/2 meter	0			

11-5314

## NOTES

vertical - very scanty  
 closing (used open) - small catch,  
 Calanus, Chione, 2 juv. fish.

Station No. *C-20058* Date: *March 4* 19*20*

Hour: *1:10* P. M. to *2:18* P. M.

Position: Lat. *43°41'* Long. *69°38'*  
*chart HO 941*

Locality:

Depth: *50 m* Bottom: *Sh, S* Sample: *20*

Wind: Direction, *SW* Force, *1*

Sea: *Smooth* Sky: *Clear* *Air 43 = 6.1*

TEMPERATURES

Depth meters	Thermometer— Make and No. B.S. #	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>0</i>	<i>Tycos "A"</i>	<i>34.0</i>	<i>—</i>	<i>+0.15</i>	<i>1.39</i>	<i>✓</i>	<i>GB#</i>
<i>15</i>	<i>N.Z. 20875</i>	<i>0.72</i>	<i>3.5</i>	<i>-0.04</i>	<i>0.68</i>	<i>✓</i>	<i>6</i>
<i>45</i>	<i>" 20874</i>	<i>1.52</i>	<i>4.0</i>	<i>-0.09</i>	<i>1.43</i>	<i>✓</i>	<i>4</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
Vertical (1/2 m)	45-0	1:28 <sup>PM</sup>	1:31	
Closing net - open (cable 45 m)	30-0	1:35		} 1/2 hour.
1/2 m (#10) # 20	} 0	1:35		

11-5314

## NOTES

vertical - hauls anything, but saved  
 20-0 haul - small amt. Calanus,  
 some large Pleurotrachia -  
 20 net - rich brown.

Station No. *C-20059* Date: *March 4* 19*20*

Hour: *6* P.M. to *7:05* P.M.

Position: Lat. *43° 25'* Long. *70° 12'*  
*Chart 40 941*

Locality:

Depth: *95 meters* Bottom: *md. gy. gn.* Sample: *—*

Wind: Direction, *ESE* Force, *2*  
*Air 42 = 5.6*

Sea: *Smooth* Sky:

TEMPERATURES

Depth meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>Tyess "A"</i>	<i>33.5</i>	<i>—</i>	<i>+0.5</i>	<i>1.10</i>	<input checked="" type="checkbox"/>	<i>GB<sup>11</sup></i>
20	<i>N.2.20873</i>	<i>0.60</i>	<i>8.0</i>	<i>-13</i>	<i>0.47</i>	<input checked="" type="checkbox"/>	<i>2</i>
40	<i>" 20870</i>	<i>0.70</i>	<i>7.5</i>	<i>-09</i>	<i>0.61</i>	<input checked="" type="checkbox"/>	<i>6</i>
90	<i>" 20874</i>	<i>2.40</i>	<i>4.0</i>	<i>-07</i>	<i>2.33</i>	<input checked="" type="checkbox"/>	<i>4</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11-5314

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
Vertical (1/2 m)	90-0		PM	
Closing net open (at least 75 m)	60-0	6:30	7:05	
# 70 # 10	} 0	6:30	7:00	

11-5314

## NOTES

vertical haul - nothing,  
not saved.

20 net - rich Diatom,  
other nets scanty, but both  
surf & deep, some Euphausiids.

Station No. *C-20060* Date: *Mar. 4* 19*20*

Hour: *10-30 P.M. to 12 mid.M.*

Position: Lat. *43° 02'* Long. *70° 27'*  
*Chart HO 941*

Locality:

Depth: *98 M.* Bottom: *gy md.* Sample: *no*

Wind: Direction, *ESE* Force, *2* *Air 42 = 5.6*

Sea: *Smooth* Sky:

TEMPERATURES

Depth <i>meters</i>	Thermometer— Make and No. <i>B.S. # 4</i>	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used <i>GP*</i>
<i>0</i>	<i>Tycos "A"</i>	<i>34°</i>	<i>—</i>	<i>+0.5</i>	<i>1.39</i>	<i>✓</i>	
<i>20</i>	<i>N.Z. 20873</i>	<i>1.30</i>	<i>3.</i>	<i>-0.5</i>	<i>1.25</i>	<i>✓</i>	<i>2</i>
<i>40</i>	<i>" "</i>	<i>1.32</i>	<i>2.</i>	<i>-0.4</i>	<i>1.28</i>	<i>✓</i>	<i>2</i>
<i>90</i>	<i>" 20874</i>	<i>1.23</i>	<i>3.</i>	<i>-0.8</i>	<i>1.15</i>	<i>✓</i>	<i>4</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
1/2 meter vertical	90-0	11.00	11.05	
Bigelow's open	90-0	11.19	11.49	
Surface #20	0	"	"	
" 1/2 meter	0	"	"	

11-5314

## NOTES

vertical - very scanty, but saved.

#20 - Diatom rich

1/2 m. on surf - some Calanus,  
2 juv fish

90 - g - Fair amt. Calanus,  
Thysanoessa - capillae

1 flounder, 1 ft. long Hippoglossoides  
1 juv fish



Station No. *C-20061* Date: *Mar. 5* 191*20*

Hour: *1:30* A . M. to *3:00* A . M.

Position: Lat. *43° 00'* Long. *70° 11'*  
*Chart HO 941*

Locality:

Depth: *175 M* Bottom: *gy M S* Sample: *Y<sub>20</sub>*

Wind: Direction, *SE* Force, *3*

Sea: *Smooth* Sky: *Clear*

*Air 43 = 6.1*

TEMPERATURES

Depth meters	Thermometer— Make and No. <i>B.S. #</i>	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used <i>G, B #</i>
<i>0</i>	<i>Tycos "A"</i>	<i>33.8</i>	<i>—</i>	<i>+0.5</i>	<i>1.3</i>	<i>✓</i>	
<i>20</i>	<i>N.Z. 20872</i>	<i>.92</i>	<i>4.</i>	<i>-.07</i>	<i>0.85</i>	<i>✓</i>	<i>5</i>
<i>40</i>	<i>" 20873</i>	<i>1.40</i>	<i>3.8</i>	<i>-.07</i>	<i>1.33</i>	<i>✓</i>	<i>2</i>
<i>100</i>	<i>" 20875</i>	<i>2.0</i>	<i>3.5</i>	<i>-.04</i>	<i>1.96</i>	<i>✓</i>	<i>6</i>
<i>175</i>	<i>" 20874</i>	<i>4.30</i>	<i>3.5</i>	<i>-.04</i>	<i>4.26</i>	<i>✓</i>	<i>4</i>
<i>185</i>	<i>" 20875</i>	<i>4.30</i>	<i>2.5</i>	<i>-.01</i>	<i>4.29</i>	<i>✓</i>	<i>6</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth m.	TIME		Speed
		Down	Up	
Vertical net	175-0	AM		
Below - open	100-0	2:25	3:00	
Surface #20	0	"	"	
" 1/2 m	0	"	"	

11-5314

## NOTES

Repeated the deepest Temperature  
to be certain of correctness.

vertical, scanty

deep haul lost.

While station in progress,  
bright Aurora.

Station No. *C-20062* Date: *March 5* 19*20*

Hour: *8:30* A.M. to *9:50* A.M.

Position: Lat. *42° 26'* Long. *70° 42' 30"*  
*Chart NO 941*

Locality:

Depth: *50 M* Bottom: *Br. m. shk.* Sample: *-*

Wind: Direction, *SE* Force, *3*

Sea: *Moderate* Sky: *Clear* *Air 43 = 6.1*

TEMPERATURES

Depth meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>Tycos "A"</i>	<i>32.9</i>	<i>-</i>	<i>+0.5</i>	<i>0.78</i>	<i>✓</i>	<i>GB*</i>
<i>20</i>	<i>N.Z. 20875</i>	<i>.60</i>	<i>4.</i>	<i>-.05</i>	<i>0.55</i>	<i>✓</i>	<i>6</i>
<i>50</i>	<i>" 20874</i>	<i>.45</i>	<i>4.5</i>	<i>-.12</i>	<i>0.33</i>	<i>✓</i>	<i>4.</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
1/2 meter vertical	50 - 0		AM	
Closing, used open <sup>about</sup> 40m	30 - 0	9:05	9:40	
# 20	Surface	"	" 15 min	
1/2 meter	"	"	1/2 hour	

11-5314

## NOTES

vertical - 1 juv. Tuna -  
 Several Pleurotrachia &  
 Beroe - almost nothing else.

30 - 0, 1/2 pail Pleurotrachia  
 large & small - few coves -  
 some Calanus etc

Several med. sized Tuna saved.

Station No. *C-20063* Date: *March, 11* 19*20*

Hour: *1:30* A.M. to *3:40* A.M.

Position: Lat. *42°06' N.* Long. *68°10' W.*  
*Chart HO 941*

Locality:

Depth: *205* M. Bottom: *Gg. M.* Sample: *Yes*

Wind: Direction, *Sx E* Force, *1*

Sea: *Smooth* Sky: *Clear*

*Air 45 = 7.2*

TEMPERATURES

Depth meters	Thermometer— Make and No. B. S. #	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>Tycos. A</i>	<i>38°</i>	<i>—</i>	<i>+0.385</i>	<i>3.61</i>	<i>✓</i>	<i>6B*</i>
15	<i>N.Z. 21575</i>	<i>3.50</i>	<i>4.</i>	<i>-0.01</i>	<i>3.49</i>	<i>✓</i>	<i>8</i>
35	<i>" 20872</i>	<i>3.20</i>	<i>6.</i>	<i>-0.11</i>	<i>3.09</i>	<i>✓</i>	<i>5</i>
95	<i>" 20873</i>	<i>3.180</i>	<i>6.</i>	<i>-0.13</i>	<i>3.05</i>	<i>✓</i>	<i>2</i>
140	<i>" 20875</i>	<i>4.33</i>	<i>4.</i>	<i>-0.03</i>	<i>4.30</i>	<i>✓</i>	<i>6</i>
190	<i>" 20874</i>	<i>4.70</i>	<i>6.</i>	<i>-0.07</i>	<i>4.63</i>	<i>✓</i>	<i>4</i>
190	<i>" 20874</i>	<i>4.70</i>	<i>4.</i>	<i>-0.05</i>	<i>4.65</i>	<i>✓</i>	<i>4</i>

*Alkalinity - Surface 7.9*  
*" 190 meters, 7.9.*

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
1/2 m. vertical	190-0	AM		
Surface $\approx$ 20	0	2.45	3.30	
1/2 mile	0	"	"	
Closing 200 out $120^\circ$ touched bottom:	200 out 190-5	3.13	3:40	

11-5314

## NOTES

vertical - very scanty, but saved.

~~Risk hauls in all other  
nets.~~

Station No. *C-20064* Date: *March 11* 191*20*Hour: *10.00* A. M. to *12.40* P. M.Position: Lat. *42° 20' N.* Long. *67° 13' W.*  
*Chart H O 941*

Locality:

Depth: *175 fath* Bottom: *green mud.* Sample: *—*  
*315 meters*Wind: Direction, *S x E* Force, *1*Sea: *Smooth* Sky: *Clear* Air *48 = 8.9*

## TEMPERATURES

Depth meters	Thermometer— Make and No. B.S. #	Reading	Stem Temp.	Correc- tion	Corrected Temp. 39.3	W. Sample	Bottle used GB#
0	<i>Tycos "A"</i>	<i>37.8</i>		<i>0.5</i>	<i>3.50</i>	✓	
20	<i>N.Z. 21575</i>	<i>2.80</i>	<i>3.5</i>	<i>0</i>	<i>2.80</i>	✓	<i>8</i>
40	<i>" 20872</i>	<i>2.82</i>	<i>5.</i>	<i>-.09</i>	<i>2.73</i>	✓	<i>5</i>
100	<i>" 21575</i>	<i>3.19</i>	<i>3.5</i>	<i>-.01</i>	<i>3.18</i>	✓	<i>8</i>
150	<i>" 20872</i>	<i>4.36</i>	<i>5.0</i>	<i>-.10</i>	<i>4.26</i>	✓	<i>5</i>
200	<i>" 20873</i>	<i>4.48</i>	<i>6.5</i>	<i>-.16</i>	<i>4.32</i>	✓	<i>2</i>
265	<i>" 20875</i>	<i>4.30</i>	<i>6.5</i>	<i>-.06</i>	<i>4.24</i>	✓	<i>6</i>
330	<i>" 20874</i>	<i>4.13</i>	<i>7.</i>	<i>-.11</i>	<i>4.02</i>	✓	<i>4</i>
	<i>Alkalinity - Surface - 7.9</i>						
	<i>" " 330 m., 8.0</i>						

## CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11-5314

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
Vertical (1/2 meter)	340-0	AM		
Closing net (cable net $\angle 40^{\circ}$ - $50^{\circ}$ )	330 out, 11.23 1165- <del>5</del>		12:05 PM	
1/2 m # 20	0	11.20	11.50 AM	
		"	"	
			PM	
Open haul net closing net cable net 150 m $\angle 30^{\circ}$	125-0	12:20	12:40	

11-5314

## NOTES

Cup. nets - med. micro

vertical - scanty saved.

closing successful - one  
large Euphorbia, good  
condition - Stephanomia sp.?

Few cops. etc - all saved in jar.

- Intermediate haul, extremely  
scanty. all saved.

175  
140  
175  
3150



Station No. *C-20065* Date: *March 11 19120*

Hour: *5:15 P* . M. to *6:25 P* . M.

Position: Lat. *41° 55'* Long. *66° 53'*  
*Chart HO 941*

Locality: *N.E. Georges Bank.*

Depth: *38 fath.* Bottom: *—* Sample: *—*

Wind: Direction, *S x W* Force, *3*

Sea: *Smooth* Sky: *Air 47 = 8.3*  
*Cloudy*

TEMPERATURES

Depth meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
	<i>B.S.#</i>				<i>38.5</i>		<i>GB#</i>
<i>0</i>	<i>Tycos "A"</i>	<i>38.0</i>		<i>+0.5</i>	<i>3.61</i>	<input checked="" type="checkbox"/>	
<i>20</i>	<i>N.Z. 20873</i>	<i>3.10</i>	<i>6.</i>	<i>-.13</i>	<i>2.97</i>	<input checked="" type="checkbox"/>	<i>2</i>
<i>40</i>	<i>" 20875</i>	<i>3.00</i>	<i>5.5</i>	<i>-.05</i>	<i>2.95</i>	<input checked="" type="checkbox"/>	<i>6</i>
<i>80</i>	<i>" 20874</i>	<i>2.85</i>	<i>6</i>	<i>-.12</i>	<i>2.73</i>	<input checked="" type="checkbox"/>	<i>4</i>
<i>alkalinity Surface —</i>					<i>7.9</i>		
<i>" 80 meters .</i>					<i>7.9</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
Vertical net	80-0		PM	
Mesh net Current 75 m, $\angle 40-45^\circ$	75 m, (40-0)	5:45	6:20	
# 20 115 m	} 0	5:45	6:15	

11-5314

## NOTES

vertical - Some calanoids & Euchaeta  
 Mesh net - small haul.  
 # 20 - rather rich Micro.

- A. Sounded,  $41^\circ 59'$ ,  $\times 69^\circ 01'$ , 120 fath.  
 B.  $41^\circ 59'$   $\times 66^\circ 58'$ , 115 fath.  
 C.  $41^\circ 57'$   $\times 66^\circ 55'$ , 78 fath.  
 D. station,  $41^\circ 55'$ ,  $\times 66^\circ 53'$ , 38 fath.

Station No. *C-20066* Date: *March 11* 19*20*

Hour: *9.00 P.* M. to *10.15 P.* M.  
*midnight.*

Position: Lat. *41° 34'* Long. *66° 45'*  
*Chart 40 941*

Locality:

Depth: *75 meters* Bottom: *—* Sample: *—*

Wind: Direction, *SxW* Force, *2*

Sea: *Smooth* Sky: *Cloudy*  
*Air 47 = 8.3*

TEMPERATURES

Depth meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
	<i>B.S.*</i>				<i>38.0</i>		<i>GB*</i>
<i>0</i>	<i>Tycos. A.</i>	<i>37.5</i>		<i>+0.5</i>	<i>3.33</i>	<i>✓</i>	
<i>20</i>	<i>K.2. 20873</i>	<i>2.90</i>	<i>57.5</i>	<i>-1.2</i>	<i>2.78</i>	<i>✓</i>	<i>2</i>
<i>40</i>	<i>" 20875</i>	<i>2.78</i>	<i>5</i>	<i>-0.5</i>	<i>2.73</i>	<i>✓</i>	<i>6</i>
<i>70</i>	<i>" 20874</i>	<i>2.62</i>	<i>5.</i>	<i>-0.9</i>	<i>2.53</i>	<i>✓</i>	<i>4</i>
<i>Alkalinity - Surface</i>					<i>7.9</i>		
<i>" 70 meters</i>					<i>7.9</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
1/2 m. vertical	70-0	PM		
Trawl (cable out 70m)	60-0	9:10	10:10	
# 20	} Surface	9:35	10:05	
1/2 m.		"	"	
other haul	1 hour			

11-5314

## NOTES

Vertical - scanty; few cat.  
1 *Encheiella*

~~in~~  
Pick hauls in all net  
many large fish eggs.

## Trawl.

Catch - 500-1000 lb. cod & haddock -  
Cod and Tom, & mostly lost -  
saved few large cod, & haddock,  
few Sand Dab (*Hippoglossoides*) -  
Barn door skates -

## Sea scallops.

*Pseudopleuronectes*, *Limanda*, one has  
accessory branch of lat. line on eye's side

↑ approaching this station from  
the North, passed several  
fishing vessels.  
at station - fishing vessels.

haddock - several ripe  
females opened.

Station No. *C-20067* Date: *Mar. 12* 191*20*

Hour: *2:55* A. M. to *4:15* A. M.

Position: Lat. *41° 15' N.* Long. *66° 31' W*  
*Chart 40 911*

Locality:

Depth: *95 meters* Bottom: *—* Sample: *—*

Wind: Direction, *SW* Force, *2*

Sea: *Smooth* Sky: *Partly cloudy* *Air 47 = 83*

TEMPERATURES

Depth meters	Thermometer— Make and No. B.S.#	Reading	Stem Temp.	Correc- tion	Corrected Temp. 37.5	W. Sample	Bottle used GB#
0	<i>Tycos A.</i>	<i>3.7</i>		<i>+0.5</i>	<i>3.05</i>	✓	
20	<i>M. 20873</i>	<i>3.20</i>	<i>6.</i>	<i>-.13</i>	<i>3.07</i>	✓	<i>2</i>
40	<i>" 20875</i>	<i>2.90</i>	<i>6.</i>	<i>-.07</i>	<i>2.83</i>	✓	<i>6</i>
90	<i>" 20874</i>	<i>2.90</i>	<i>6.</i>	<i>-.10</i>	<i>2.80</i>	✓	<i>4</i>
albulinity surface,					<i>7.9</i>		
" 90 meters,					<i>7.9</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
1/2 m. vertical	90-0	AM		
Wheeler net (cable net 90 m)	50-0	3:34	4:10	
1/2 meter # 20	} 0	3:30	4:10	

11-5314

## NOTES

20 net - fair rich, several small medusae, some eggs.

1/2 m. surface - fair - some Simaima many eggs.

vertical. fair. few fish eggs.

Saw fishing vessels at this station

Station No. C 70068

Date: March 12

1917

Hour: 7-45 A . M. to ~~8-45~~ 9:00 A . M.Position: Lat.  $41^{\circ} 02' N$  Long.  $66^{\circ} 20'$ 

Chart HO 741

Locality:

Depth: 191 m Bottom: —

Sample: —

Wind: Direction, SW

Force, 2

Air 49 = 9.4

Sea:

Sky:

## TEMPERATURES

Depth meters	Thermometer— Make and No. BS. #	Reading	Stem Temp.	Correc- tion	Corrected* Temp.	W. Sample	Bottle used
0	Tycos A.	37.5		+0.5	3.33	✓	6 B <sup>st</sup>
20	NZ 20872	3.04	7.	-.14	2.90	✓	5
40	NZ 20873	3.06	6.5	-.14	2.92	✓	2
100	NZ 20875	3.62	6	-.06	3.56	✓	6
150	NZ 20874	4.48	6	-.08	4.40	✓	4
190	NZ 20874	4.99	5.5	-.07	4.92	✓	4
Alkalinity, surface, 7.9							
" 150 m. 7.9							
" 190 m. 7.9							

## CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11-5314

## NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
Vertical net, $\frac{1}{2}$ m.	150-0		1:19	
Milum net (cable net 150 m)		8:25	9:00	
$\frac{1}{2}$ m # 2	} 0	8:25	8:55	

11-5314

## NOTES

all nets, many eggs  
fair hauls.



Station No. <sup>C</sup>20069 Date: *hard 12* 19*20*

Hour: *11:30 A.M.* to *2:05 P.M.*

Position: Lat. *40° 47' N* Long. *66° 08' W*  
*chart 40741*

Locality:

Depth: *1000 meters* Bottom: *—* Sample: *—*

Wind: Direction, *SSW* Force, *3*

air T, *52° = 11.1*

Sea: *smooth* Sky: *misty*

TEMPERATURES

Depth meters	Thermometer— Make and No. <i>B.S.#</i>	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
					<i>38.0</i>		<i>6 B</i>
<i>0</i>	<i>Tycosa</i>	<i>37.5</i>		<i>+0.5</i>	<i>3.33</i>	<i>✓</i>	
<i>50</i>	<i>NZ 20872</i>	<i>3.20</i>	<i>5.0</i>	<i>-0.9</i>	<i>3.11</i>	<i>✓</i>	<i>5</i>
<i>100</i>	<i>R 11499</i>	<i>7.05</i>	<i>5.0</i>	<i>+0.4</i>	<i>7.09</i>	<i>✓</i>	<i>10</i>
<i>150</i>	<i>NZ 20872</i>	<i>7.10</i>	<i>7.</i>	<i>-0.9</i>	<i>7.01</i>	<i>✓</i>	<i>5</i>
<i>200</i>	<i>R 11499</i>	<i>5.90</i>	<i>5.</i>	<i>+0.2</i>	<i>5.92</i>	<i>✓</i>	<i>10</i>
<i>300</i>	<i>NZ 21575</i>	<i>4.80</i>	<i>8.5</i>	<i>-0.7</i>	<i>4.73</i>	<i>✓</i>	<i>8</i>
<i>400</i>	<i>NZ 20873</i>	<i>4.50</i>	<i>8.</i>	<i>-1.8</i>	<i>4.32</i>	<i>✓</i>	<i>2</i>
<i>500</i>	<i>NZ 20875</i>	<i>4.35</i>	<i>8.</i>	<i>-0.9</i>	<i>4.26</i>	<i>✓</i>	<i>6</i>
<i>1000</i>	<i>NZ 20874</i>	<i>3.88</i>	<i>7.5</i>	<i>-1.1</i>	<i>3.77</i>	<i>✓</i>	<i>4</i>
<i>alkalinity</i>	<i>— surface —</i>				<i>7.9</i>		
<i>"</i>	<i>300 m</i>						
<i>sea</i>	<i>1000 m.</i>				<i>7.9</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11-5314

*Bottle No. 10 = Right B.S. No. 11499.*

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
drum, open	1000-0	1:12		
meter	500-0	}	}	1/2 hour.
# 20 } 1/2 m. }	surface			

11-5314

## NOTES

Fair micro in surface nets.  
meter net - Tom -

1000-0 - very characteristic deep sea haul - very varied.  
Black fish - Red grains - cephalopods  
Brick red Tomopteris - Several  
Red alginina - Several Salmon  
pink Phopalonema furcarium -  
Large siphon - 2 gas large  
Pleurod - genus? sp.? Shelled!  
Some small Laminaria

Some Rockweed on surface -

At 7:00 pm., in route to 20070, 1/2 meter net  
was put over and towed 20 min.; ship  
slowed down.

Misty, surf feet & gulf stream  
net far to the southward.

Station No. *C-20070* Date: *March 13 1920*

Hour: *2:00* A.M. to *3:09A* . M.

Position: Lat. *42-03-* Long. *66-15*  
*Chart H O 941*

Locality:

Depth: ~~*2250*~~ Bottom: *—* Sample: *—*

Wind: Direction, *SW* Force, *4*  
*Air 49 = 9.4*

Sea: *Rough* Sky:

TEMPERATURES

Depth <i>meters</i>	Thermometer— Make and No. <i>B.S. #</i>	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>0</i>	<i>Tycosa</i>	<i>37°</i>		<i>+0.5</i>	<i>37.5</i>	<input checked="" type="checkbox"/>	<i>GB#</i>
<i>20</i>	<i>N220873</i>	<i>2.91</i>	<i>6.5</i>	<i>-1.3</i>	<i>2.78</i>	<input checked="" type="checkbox"/>	<i>2</i>
<i>40</i>	<i>N220875</i>	<i>2.80</i>	<i>6</i>	<i>-0.6</i>	<i>2.74</i>	<input checked="" type="checkbox"/>	<i>6</i>
<i>90</i>	<i>N220874</i>	<i>2.69</i>	<i>6</i>	<i>-1.0</i>	<i>2.59</i>	<input checked="" type="checkbox"/>	<i>4</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11-5314

## NETS, ETC., USED

Description	Depth	TIME		Speed
		Down	Up	
$\frac{1}{2}$ meter # 20	Surface		$\frac{1}{2}$ hour	

11-5314

## NOTES

Too rough to make large nets.

Station No. *C20071* Date: *March 13* 191*2*

Hour: *5:00* A.. M. to *6:30*.. M.

Position: Lat. *42-19-* Long. *66-02*  
*Chart HO 941*

Locality:

Depth: *225 m* Bottom: *—* Sample: *—*

Wind: Direction, *SW* Force, *3*  
*Air 50 = 10.0*

Sea: *Rough.* Sky:

TEMPERATURES

Depth meters	Thermometer— Make and No. <i>B.S. #</i>	Reading	Stem Temp.	Correc- tion	Corrected Temp. <i>38.0</i>	W. Sample	Bottle used <i>GP#</i>
<i>0</i>	<i>Tycos A</i>	<i>37.5</i>		<i>+0.5</i>	<i>3.33</i>	<i>✓</i>	
<i>20</i>	<i>R 11499</i>	<i>3.00</i>	<i>9.</i>	<i>-1.0</i>	<i>2.90</i>	<i>✓</i>	<i>10</i>
<i>40</i>	<i>N221575</i>	<i>3.20</i>	<i>7.</i>	<i>-0.5</i>	<i>3.15</i>	<i>✓</i>	<i>8</i>
<i>100</i>	<i>N220873</i>	<i>6.63</i>	<i>7.</i>	<i>-1.5</i>	<i>6.48</i>	<i>✓</i>	<i>2</i>
<i>150</i>	<i>N220874</i>	<i>6.90</i>	<i>6</i>	<i>-0.5</i>	<i>6.85</i>	<i>✓</i>	<i>6</i>
<del><i>215</i></del>	<del><i>N220875</i></del>	<del><i>5.91</i></del>	<del><i>7</i></del>				
<i>215</i>	<i>N220875</i>	<i>6.88</i>	<i>5.5</i>	<i>-0.4</i>	<i>6.84</i>	<i>✓</i>	<i>6</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth <i>meters</i>	TIME		Speed
		Down	Up	
$\frac{1}{2}$ meter net (vertical)	150 m	5:55		
Surfau #20	0	"		
$\frac{1}{2}$ m,		"		

11-5314

## NOTES

150-0 haul - very scanty  
1 Beroe.

Surface hauls - very scanty

Station No. *C-20072* Date: *March 13* 19*20*

Hour: *8:20* A. M. to *9:30* A. M.

Position: Lat. *42-36* Long. *65-50*  
*chart #0941*

Locality:

Depth: *91 meters* Bottom: *—* Sample: *—*

Wind: Direction, *SSW* Force, *2*  
*Air - 49 = 9.4*

Sea: *Rough* Sky: *Cloudy*

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>meter</i>	<i>BS. #</i>				<i>35.5</i>		<i>GP</i>
<i>0</i>	<i>Tycos A</i>	<i>35.0</i>		<i>+0.5</i>	<i>1.95</i>	<input checked="" type="checkbox"/>	
<i>20</i>	<i>NZ 20873</i>	<i>2.00</i>	<i>6.</i>	<i>-12</i>	<i>1.88</i>	<input checked="" type="checkbox"/>	<i>2</i>
<i>40</i>	<i>NZ 20875</i>	<i>2.20</i>	<i>5.</i>	<i>-0.6</i>	<i>2.14</i>	<input checked="" type="checkbox"/>	<i>6</i>
<i>90</i>	<i>NZ 20872</i>	<i>3.50</i>	<i>5.5</i>	<i>-1.0</i>	<i>3.40</i>	<input checked="" type="checkbox"/>	<i>5</i>
<i>salinity, surface, 7.95</i>							
<i>" 90 m 8.1</i>							

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS: 11-5314

## NETS, ETC., USED

Description	Depth <i>meters</i>	TIME		Speed
		Down	Up	
<i>1/2 meter #</i>	<i>75-0</i>			

11-5314

NOTES



Station No. *C-20073* Date: *March 17 1920*

Hour: *12:57 P.* . M. to *2:29 P.* . M.

Position: Lat. *H3° 30' N* Long. *65° 06' W*  
*chart 80 741*

Locality:

Depth: *75 meters* Bottom: *—* Sample: *220*

Wind: Direction, *NW*. Force, *5-6*  
*Air 52 = 11.1*

Sea: *Rough* Sky: *clear*

TEMPERATURES

Depth Meter	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>Treas "A"</i>	<i>35.5</i>		<i>+0.5</i>	<i>2.22</i>	<i>✓</i>	<i>BB#</i>
20	<i>M.Z. 20872</i>	<i>2.20</i>	<i>5.5</i>	<i>-.10</i>	<i>2.10</i>	<i>✓</i>	<i>5</i>
40	<i>" 20870</i>	<i>2.14</i>	<i>3.5</i>	<i>-.04</i>	<i>2.10</i>	<i>✓</i>	<i>6</i>
70	<i>R. 11499</i>	<i>2.52</i>	<i>3.</i>	<i>0</i>	<i>2.52</i>	<i>✓</i>	<i>10</i>

*Alkalinity, surface, 7.9.*

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
1/2 m. vertical	70-0			
#20 } 1/2 m }	Surface		1/2 hour.	
1/2 m.	70-0	1.45		

11-5314

## NOTES

Surface net, very scanty.

70-0 - Practically nothing -  
very little - but saved.

Station No. *C-20074* Date: *Mch. 19 1920*

Hour: *10:00* A . M. to *11:28* A . M.

Position: Lat. *43° 18' N* Long. *64° 58' W.*  
*chart HO 941*

Locality: *H*

Depth: *160 meters* Bottom: *—* Sample: *—*

Wind: Direction, *NNW* Force, *H* Air *39 = 3.9*

Sea: *Smooth* Sky: *Clear*

TEMPERATURES

Depth meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>B.S. #</i>						<i>GB<sup>24</sup></i>
0	<i>Sigs "A"</i>	<i>34.0</i>		<i>+0.5</i>	<i>1.39</i>	✓	
20	<i>N.2.21575</i>	<i>1.20</i>	<i>0.5</i>	<i>+0.4</i>	<i>1.24</i>	✓	<i>8</i>
40	<i>" 20872</i>	<i>1.10</i>	<i>0.5</i>	<i>0</i>	<i>1.10</i>	✓	<i>5</i>
100	<i>" 20873</i>	<i>2.90</i>	<i>1.</i>	<i>-0.4</i>	<i>2.86</i>	✓	<i>2</i>
150	<i>R.11499</i>	<i>4.60</i>	<i>0.5</i>	<i>+0.8</i>	<i>4.68</i>	✓	<i>10</i>

Alkalinity Surface *7.9*  
" 150 m. *7.9*

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
	<del>150-0</del>		AM	
1/2 m. vertical	150-0			
7 meter (cable out boom, $\angle 40^\circ$ )	125-0	10:50	11:27	
# 20 } 1/2 m. }	Surface	"	"	

11-5314

## NOTES

vertical scanty - but more than last sta. Calanus chiefly

Station No. *C-20075* Date: *March 19* 19*20*

Hour: *2:28* P. M. to *3:47* P. M.

Position: Lat. *42° 55' N* Long. *64° 36' W*  
*Chart HO 911*

Locality:

Depth: *95 meters* Bottom: *—* Sample: *—*

Wind: Direction, *NNW* Force, *4-5*

Sea: *Choppy* Sky: *Clear*  
*Air 39 = 3.9*

TEMPERATURES

Depth meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>Tycos. A</i>	<i>32.5-</i>		<i>+0.5</i>	<i>0.56</i>	<i>✓</i>	<i>GB#</i>
20	<i>N2.20872</i>	<i>0.30</i>	<i>2.</i>	<i>-p3</i>	<i>0.27</i>	<i>✓</i>	<i>5</i>
40	<i>"20873</i>	<i>0.49</i>	<i>2.5.</i>	<i>-p4</i>	<i>0.45-</i>	<i>✓</i>	<i>2</i>
90	<i>R.11499.</i>	<i>3.70</i>	<i>1.0</i>	<i>+0.6</i>	<i>3.76</i>	<i>✓</i>	<i>10</i>
<i>alkalinity</i>		<i>- surface</i>		<i>- 8.</i>			
		<i>90 m.</i>		<i>8.</i>			

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
Vertical net	90-0	2:20 <sup>0</sup> PM		
meter net. Cable opt 100 m 240°	80-0	3:12	3:46	
1/2 meter } # 20 net }	Surface			hour

11-5314

## NOTES

80-0 - Swarm of large  
Pleuronotus - little else.

20 net - fair haul.

Station No. *C-20076* Date: *March 19* 19*20*

Hour: *6:26* P . M. to *8:19* P . M.

Position: Lat. *42° 33'* Long. *64° 30'*  
*Chart HD 741*

Locality:

Depth: *250 meters* Bottom: *—* Sample: *—*

Wind: Direction, *W x N* Force, *3*

Sea: *Smooth* Sky: *Clear* *Air 37 = 2.8*

TEMPERATURES

Depth meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>yers 'A'</i>	<i>33.8</i>	<i>—</i>	<i>+0.5</i>	<i>1.28</i>	<i>✓</i>	<i>GB#</i>
20	<i>N.Z. 20875</i>	<i>1.00</i>	<i>1.</i>	<i>-.01</i>	<i>0.99</i>	<i>✓</i>	<i>6</i>
40	<i>" 20874</i>	<i>1.25</i>	<i>1.</i>	<i>-.05</i>	<i>1.20</i>	<i>✓</i>	<i>4</i>
100	<i>" 21575</i>	<i>7.40</i>	<i>2.5.</i>	<i>-.01</i>	<i>7.39</i>	<i>✓</i>	<i>8</i>
150	<i>" 20872</i>	<i>8.60</i>	<i>2.5</i>	<i>+0.01</i>	<i>8.61</i>	<i>✓</i>	<i>5</i>
200	<i>" 20873</i>	<i>6.27</i>	<i>2.5</i>	<i>-.07</i>	<i>6.20</i>	<i>✓</i>	<i>2</i>
250	<i>R. 11499</i>	<i>5.20</i>	<i>1.</i>	<i>+0.08</i>	<i>5.28</i>	<i>✓</i>	<i>10</i>
<i>Repeated</i>							
150	<i>NZ 20874</i>	<i>8.80</i>	<i>3.5</i>	<i>+0.12</i>	<i>8.92</i>		<i>4</i>
250	<i>NZ 20875</i>	<i>5.55</i>	<i>3.</i>	<i>-.02</i>	<i>5.53</i>		<i>6</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed	
		Down	Up		
1/2 m, vertical	250-0		PM		
# 20 } surface.		7.40	} 1/2 hour		
Closing net - open	240	7.40		L	65°
Net, net	140	"		L	65°

11-5314

## NOTES

vertical haul,  
too small to measure -  
not saved.

# 20 net - fair.

Both deep nets - rich catches  
of small euphausiids -  
1 *Phronima* house  
1 *Mertensia* (?).  
2 *Myctophum*  
*Euchaeta* - little or no calanids  
Clione. ✓ or *Eucheirella*  
*Diphyes*.



Station No. *C-20077* Date: *March 19<sup>th</sup> 1912*  
 Hour: *9:50 P.M.* to *12:30 A.M.*

Position: Lat. *42° 24'* Long. *64° 19'*  
*Chart HO 941*

Locality:

Depth: *0* meters Bottom: *—* Sample: *—*

Wind: Direction, *WXS* Force, *1*  
*Air 41 = 5.0*

Sea: *Smooth* Sky: *Clear*

TEMPERATURES

Depth meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>0</i>	<i>Tycos A</i>	<i>34.5</i>		<i>+0.5</i>	<i>1.67</i>	<input checked="" type="checkbox"/>	<i>4-B<sup>th</sup></i>
<i>40</i>	<i>N.Z. 21575</i>	<i>1.26</i>	<i>1.5</i>	<i>7.03</i>	<i>1.29</i>	<input checked="" type="checkbox"/>	<i>8</i>
<i>100</i>	<i>" 20872</i>	<i>5.82</i>	<i>2.</i>	<i>0</i>	<i>5.82</i>	<input checked="" type="checkbox"/>	<i>5</i>
<i>150</i>	<i>" 20875</i>	<i>6.08</i>	<i>4.5</i>	<i>-.03</i>	<i>6.05</i>	<input checked="" type="checkbox"/>	<i>6.</i>
<i>200</i>	<i>" 20873</i>	<i>7.94</i>	<i>3°</i>	<i>-.05</i>	<i>7.89</i>	<input checked="" type="checkbox"/>	<i>2</i>
<i>300</i>	<i>" 20874</i>	<i>6.29</i>	<i>3°</i>	<i>7.03</i>	<i>6.32</i>	<input checked="" type="checkbox"/>	<i>4</i>
<i>500</i>	<i>" 20875</i>	<i>4.26</i>	<i>3.5</i>	<i>-.03</i>	<i>4.23</i>	<input checked="" type="checkbox"/>	<i>6</i>
<i>1000</i>	<i>R.11499</i>	<i>3.88</i>	<i>3.</i>	<i>+0.2</i>	<i>3.90</i>	<input checked="" type="checkbox"/>	<i>10</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS: 11-5314

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down PM	Up	
Closing net - open	800-0	11. <sup>30</sup>	12. <sup>30</sup> AM	
meter net	500-0.	"	"	
Surface # 20	0	11. <sup>05</sup>	11. <sup>35</sup> PM	
" 1/2 meter	0	"	"	

11-5314

## NOTES

1/2 m. Surface - Some large Copepods.

# 20 - rain.

closing net - 1500 m. out  $\angle 60^\circ$ .  
meter net 1000 out  $\angle 60^\circ$ .

500-0 - Typical deep sea

Black fish - red prawns -  
large Squilla - several  
young Penaeus - Berce.  
Copepods. Schizopods.

800-0 - Black fish -  
Red prawns - large  
Scabbard fish (Trachurus)

Several Aeginia - Halcreas,  
Phopalonema,  
Schizopods.

Station No. C 70078

Date: Mar 20

1912

Hour: 8:39 A . M. to 9:50 A . M.

Position: Lat.  $42^{\circ}58'$  Long.  $65^{\circ}48' W$   
Chart 40 941

Locality:

Depth: ~~70 fath~~  
170 m Bottom: — Sample: —Wind: Direction, E. Force, 6  
Air 36 = 7.2

Sea: very choppy Sky: cloudy (prev)

## TEMPERATURES

Depth meters	Thermometer— Make and No. B.S. #	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	"Tyers" A	35°		+0.5	1.95	✓	68 <sup>2</sup>
20	NZ 20874	1.90	3.5	-.08	1.82	✓	4
40	NZ 20873	2.20	3.5	-.08	2.12	✓	2
100	NZ 20872	2.75	4.5	-.08	2.67	✓	5
165	NZ 21575	4.60	8.	-.01	4.59	✓	8

Alkalinity, Surface, 8.

## CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11-5314

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
			11M	
1/2 meter -	110-0		9:59:50	
# 20 } 1/2 m }	Cuppa		half hour	

11-5314

## NOTES

very scanty catches  
in all nets.

1870  
126.0

getting rough - E. gale with  
snow

8 miles on run from this  
sta to Sta 79, Surf 11 Am,  
Surf T 25°.

(Quartermaster's Temps. for  
previous 5 or 6 hours  
not trustworthy.)

Station No. *C-20079* Date: *March 22 1920*

Hour: *12:35 P.* . M. to *2:55 P.* . M.

Position: Lat. *44° 21'* Long. *66° 37'*  
*Chart 40 901*

Locality:

Depth: *210 meters* Bottom: *red clay* Sample: *yes.*

Wind: Direction, *WSW* Force, *2*  
Sea: *Smooth* Sky: *Clear* *Air 46 = 7.78*

TEMPERATURES

Depth meters	Thermometer— Make and No. B.S.#	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>Jyers "A"</i>	<i>36"</i>	—	<i>0.5</i>	<i>2.50</i>	✓	<i>GB*</i>
20	<i>N.Z. 20874</i>	<i>2.28</i>	<i>3.</i>	<i>-.06</i>	<i>2.14</i>	✓	<i>4</i>
40	<i>R. 11499</i>	<i>2.19</i>	<i>4.</i>	<i>-.02</i>	<i>2.17</i>	✓	<i>10</i>
100	<i>N.Z. 20873</i>	<i>2.66</i>	<i>5.</i>	<i>-.11</i>	<i>2.55</i>	✓	<i>2</i>
150	<i>" 20872</i>	<i>3.40</i>	<i>4.5</i>	<i>-.08</i>	<i>3.32</i>	✓	<i>5</i>
200	<i>" 21575</i>	<i>4.30</i>	<i>3.5</i>	<i>-.01</i>	<i>4.29</i>	✓	<i>8</i>
	<i>skilinity</i>	<i>surface</i>			<i>7.9</i>		
	<i>"</i>	<i>200 m.</i>			<i>7.9.</i>		

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

10  
10  
10

NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
Vertical net	210-0	1:30		
Closing net (about 200m) <sup>20</sup>	170-0	2:29	2:55	
1/2 m # 20	0	1:35	2:45	
Closing net open haul (200m) <sup>20-25</sup>	180-0	1:40	2:15	

11-5314

NOTES

Station No. *C-20080* Date: *March 22 1920*

Hour: *8:15 P.* M. to *9:14 P.* M.

Position: Lat. *44° 21'* Long. *67° 37'*  
*Chart No 941*

Locality:

Depth: *61 meters* Bottom: *—* Sample: *—*

Wind: Direction, *WXS* Force, *2*  
Sea: *Smooth* Sky: *Clear*  
*Air 42 = 5.56*

TEMPERATURES

Depth meters	Thermometer— Make and No. B.S. #	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>Jess' A.</i>	<i>34.0</i>	<i>—</i>	<i>+0.5</i>	<i>1.39</i>	<i>✓</i>	<i>6B#</i>
30	<i>N.Z. 20872</i>	<i>1.31</i>	<i>3.</i>	<i>-0.5</i>	<i>1.26</i>	<i>✓</i>	<i>5</i>
60	<i>" 21575</i>	<i>1.42</i>	<i>2.5.</i>	<i>+0.1</i>	<i>1.43</i>	<i>✓</i>	<i>8</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

*Unusual aurora visible,*

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
1/2 meter vertical	60-0	PM		
1 meter/cable net 50m $\angle 40^\circ$	30-0	8:42	9:14	
1/2 m # 70	} 0	8:40	9:10	

11-5314

## NOTES

vertical - very scanty.

meter net - 1 quart - mostly  
Pleurobrachia, Siphonae



Station No. *C-20081* Date: *Mar. 22-23* 191*20*Hour: *11.10* *P*<sup>*Mar 22*</sup> M. to *1:15* A. M.Position: Lat. *44° 08'* Long. *67° 26'*  
*Chart 40 141*

Locality:

Depth: *206 m.* Bottom: *—* Sample: *—*Wind: Direction, *WAS* Force, *2*Sea: *Smooth* Sky: *Clear.**Air 42 = 5.56*

## TEMPERATURES

Depth meters	Thermometer— Make and No. B.S. #	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used GB#
0	<i>Ayers "A"</i>	<i>35.0</i>	<i>—</i>	<i>+0.5</i>	<i>1.95</i>	<i>✓</i>	
20	<i>R11499</i>	<i>1.80</i>	<i>4.5</i>	<i>-.04</i>	<i>1.76</i>	<i>✓</i>	<i>10</i>
40	<i>MZ. 20872</i>	<i>1.71</i>	<i>4</i>	<i>-.08</i>	<i>1.63</i>	<i>✓</i>	<i>2</i>
100	<i>" 20872</i>	<i>2.33</i>	<i>4.</i>	<i>-.07</i>	<i>2.26</i>	<i>✓</i>	<i>5</i>
150	<i>" 20874</i>	<i>5.10</i>	<i>4</i>	<i>-.03</i>	<i>5.07</i>	<i>✓</i>	<i>4</i>
200	<i>" 21575</i>	<i>5.40</i>	<i>3</i>	<i>-.01</i>	<i>5.39</i>	<i>✓</i>	<i>8</i>

## CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11-5314

*Aurora previously noted still visible  
but less brilliant.*

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
1/2 m vertical	200-0	PM	AM	
Closing net (about 200m $\angle 30-45^\circ$ ) 170-0		11:59	12:35	
1/2 m #20	0	11:55	12:30	
1 meter net (about 200m $\angle 40^\circ$ ) 160-0		AM 12:45	1:15	

11-5314

## NOTES

vertical - Fair - some Megametyphanes  
some Calanus.

# 20 - some Calanus, little Micro

1/2 m; surface - Fair Calanus -  
large chiron.

160-0 haul - about 2/3 quart

large Euphausiids.  
Some Euchaeta - small  
amount of Calanus.

Station No. *C20082* Date: *March 23 19120*

Hour: *4:50* A . M. to *6:13 A* . M.

Position: Lat. *43° 54' N* Long. *66° 53' W*  
*Chart H&G 741*

Locality:

Depth: *125 meters* Bottom: *—* Sample: *—*

Wind: Direction, *W x S* Force, *3*  
*Alf 44 = 6.67*

Sea: *Smooth* Sky:

TEMPERATURES

Depth Meters	Thermometer— Make and No. B.S. #	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>Zycos A.</i>	<i>36.3</i>	<i>—</i>	<i>+0.5</i>	<i>2.67</i>	<i>✓</i>	<i>G-B.</i>
20	<i>R. 11499</i>	<i>2.35</i>	<i>3.</i>	<i>0</i>	<i>2.35</i>	<i>✓</i>	<i>10</i>
50	<i>N. 2.20872</i>	<i>2.59</i>	<i>4.</i>	<i>-0.7</i>	<i>2.52</i>	<i>✓</i>	<i>5</i>
120	<i>" 2.0874</i>	<i>3.40</i>	<i>3.5</i>	<i>-0.5</i>	<i>3.35</i>	<i>✓</i>	<i>4</i>

*Alkalinity, surface, 7.9.*

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth meter	TIME		Speed
		Down	Up	
1/2 meter	120-0	AM		
meter 110 out	40° 70-0	5:38	6:13	
# 20	0	5:38	6:13	
1/2 meter				

11-5314

## NOTES

Vertical - too small to measure - not saved

Surface hauls, fair.

Station No. *20083* Date: *March 23 1920*

Hour: *9:00 A*. M. to *10:07 A*. M.

Position: Lat. *43° 41' N* Long. *66° 21'*  
*Chart HO 941*

Locality:

Depth: *68 meters* Bottom: *—* Sample: *—*

Wind: Direction, *SW* Force, *3*  
Sea: *Smooth* Sky: *Clear*  
*Air 45 = 7.22*

TEMPERATURES

Depth meters	Thermometer— Make and No. B.S.#	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used GB #
<i>0</i>	<i>Jess "A"</i>	<i>35.</i>	<i>—</i>	<i>+0.05</i>	<i>1.95</i>	<i>✓</i>	
<i>20</i>	<i>R. 11499</i>	<i>1.58</i>	<i>4</i>	<i>-.04</i>	<i>1.54</i>	<i>✓</i>	<i>10</i>
<i>40</i>	<i>N. 2. 20872</i>	<i>1.61</i>	<i>4.</i>	<i>-.07</i>	<i>1.54</i>	<i>✓</i>	<i>5</i>
<i>65</i>	<i>" 20874</i>	<i>2.10</i>	<i>3.</i>	<i>-.06</i>	<i>2.04</i>	<i>✓</i>	<i>4</i>

*Alkalinity, Surface, 7.9*

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
Vertical (1/2 m)	65-0	AM		
Meter net (cable out 40 m)	20-40 [30-0]	9:40	10:06	
1/2 m # 20	} 0	9:30	10:06	

11-5814

## NOTES

vertical - scanty - saved.  
 meter net - 1 quart  
 Pleurobanchia - some  
 Siphonae - not much else.  
 sample saved.

20 net - scanty.

Station No. *C-20084* Date: *March 23 19120*

Hour: *2:00 P* . M. to *3:00 P* . M.

Position: Lat. *43° 18' N.* Long. *66° 09' W.*  
*Chart C & GS 1106*

Locality:

Depth: *55 meters* Bottom: *—* Sample: *—*

Wind: Direction, *SW* Force, *9*  
*Air 47 = 8.33*

Sea: *Choppy* Sky: *Clear*

TEMPERATURES

Depth meters	Thermometer— Make and No. B.S. #	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used GB#
0	<i>2 nos A.</i>	<i>35.3.</i>	<i>—</i>	<i>+0.2</i>	<i>2.11</i>	<i>✓</i>	
20	<i>N. 2.20870</i>	<i>1.80</i>	<i>3</i>	<i>-0.6</i>	<i>1.74</i>	<i>✓</i>	<i>2.</i>
50	<i>R. 11499</i>	<i>1.81</i>	<i>2</i>	<i>0</i>	<i>1.81</i>	<i>✓</i>	<i>10</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
vertical 1/2 meter	50-0m		PM	
meter net/catch out 5m L20-40	40-0	2:27	3:00	
1/2 m. # 20	} 0	2:27	2:57	

11-5314

## NOTES

vertical - too scanty to measure - not saved.

# 20 net has much fine sand - churned up by the tide.

meter net - very scanty - few Pteropoda & Siphonae  
1 juv. Cod (?).  
very few copepods.  
hit bottom - some sand & seaweed. Sample saved.



Station No. *C-20085* Date: *March 23 1920*

Hour: *5:15 P.* M. to *6:08 P.* M.

Position: Lat. *43-17* Long. *66° 33'*  
*chart C+65 1106*

Locality:

Depth: *70 meters* Bottom: *—* Sample: *—*

Wind: Direction, *SSW* Force, *4 2-5.*

Sea: *Choppy* Sky: *Clear*  
*Air 48 = 8.89*

TEMPERATURES

Depth meters	Thermometer— Make and No. B.S. #	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	"Tyco" A	36.0	—	+0.5	2.50	✓	GB <sup>#</sup>
30	R11499	2.40	3	0	2.40	✓	10
70	N2 20873	2.51	3.5	-0.8	2.43	✓	2
<i>stability, surface, 7.9</i>							

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
Main net (about 70m $\angle 30^\circ$ )	60-0	5:35	6:05	
1/2 m # 20	0	5:35	6:05	

11-5314

## NOTES

# 20 net - sand.

choppy sea caused by Tide

Main net - scanty  
Few Pleurobrachia, small  
comb. debris from bottom -  
little else. all saved.

1/2 meter on surface.  
Scanty - few Pleurobrachia

Station No. *C-20086* Date: *March 23 1920*

Hour: *9:30 P* . M. to *11:20 P* . M.

Position: Lat. *43° 10' 30"* Long. *67° 12'*  
*Chart C 965 1006*

Locality:

Depth: *176 m.* Bottom: *—* Sample: *—*

Wind: Direction, *W x S* Force, *3*  
*Air 47 = 8.33*  
 Sea: *Choppy* Sky: *Clear*

TEMPERATURES

Depth meter	Thermometer— Make and No. B.S.#	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used GB#
0	"Tyus" A	38°	—	+0.5	3.61	✓	
20	R11499	3.40	4.	0	3.40	✓	10
40	N2 20873	3.51	5.	-.12	3.39	✓	2
100	" 20872	4.38	5.	-.09	4.29	✓	3
170	" 20874	5.05	4.5.	-.04	5.01	✓	4

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS: 11-5314

## NETS, ETC., USED

Description	Depth meter	TIME		Speed
		Down	Up	
Vertical 1/2 m	170-0		PM	
Meteonet out 170, L 30°	150-0	10:45	11:20	
1/2 m # 20	} 0	10:45	11:20	

11-5314

## NOTES

vertical haul - small - but  
enough to save. 1 large chiron.

20 net. 20m haul.

Meteonet - very scanty.

Several large chiron - 3 juv.  
fish - Pleurobrachia.

Pale aurora - while at  
this station.

Station No. *P-20087* Date: *March 24 1920*

Hour: *3:50 P*. M. to *5:30 P*. M.

Position: Lat. *42° 37' N.* Long. *69° 27' W*  
*Chart C+65 1106*

Locality:

Depth: *255 meters* Bottom: *gy. md.* Sample: *✓*

Wind: Direction, *Sx E, Sx W* Force, *2*  
*Air 53 = 11.67*

Sea: *Smooth* Sky: *Clear*

TEMPERATURES

Depth Meters	Thermometer— Make and No. B.S. #	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	"Type" A	37.0	—	+0.5	3.05	✓	
20	N2 20875	2.78	3.5	-0.4	2.74	✓	6
40	" 21575	2.75	4.5	-0.1	2.74	✓	8
100	R 11499	2.82	4.5	-0.2	2.80	✓	10
150	N2 20873	5.51	5.5	-1.4	5.37	✓	2
200	" 20872	5.46	4.5	-0.7	5.39	✓	5
250	" 20874	5.10	4.5	-0.4	5.06	✓	4

alkalinity, surface, 7.9  
 " 250 meters 7.9

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS: 11-5314

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
1/2 meter vertical	250-0	PM		
Net/cable out 250 m $\angle 35^\circ$	200-0	4:55	5:25	
Closing net/cable 125 m $\angle 35^\circ$	105-0	4:55	5:30	
1/2 m # 70	} 0	4:45	5:20	

11-5314

## NOTES

Vertical - fair - Tanded  
bottom.

Surface - 1/2 m - Some Calanus  
closing - small amt. Calanus  
meter net. Calanus,

Some.

Station No. *C-20088* Date: *March 24 1920*

Hour: *9:40 P* . M. to *11:00 P* . M.

Position: Lat. *47-15* Long. *69-54*  
*Chart C + 651106*

Locality:

Depth: *180 meters* Bottom: *—* Sample: *—*

Wind: Direction, *S X W* Force, *2*  
Sea: *Smooth* Sky: *Clear* *Air 47 = 8.33*

TEMPERATURES

Depth Meter	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>Tycos A.</i>	<i>36°</i>	<i>—</i>	<i>+0.5</i>	<i>2.50</i>	<i>✓</i>	<i>6B<sup>m</sup></i>
20	<i>R 11499</i>	<i>2.20</i>	<i>3</i>	<i>0</i>	<i>2.20</i>	<i>✓</i>	<i>10</i>
40	<i>N2 20873</i>	<i>2.28</i>	<i>4.</i>	<i>-.08</i>	<i>2.20</i>	<i>✓</i>	<i>2</i>
100	<i>" 20872</i>	<i>3.68</i>	<i>4.</i>	<i>-.07</i>	<i>3.61</i>	<i>✓</i>	<i>5</i>
180	<i>" 20874</i>	<i>5.00</i>	<i>3.5</i>	<i>-.03</i>	<i>4.97</i>	<i>✓</i>	<i>4</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth meter	TIME		Speed
		Down	Up	
1/2 meter vertical	160-0	PM		
1 meter net/cable out 150 m $\angle 35^\circ$	125-0	10:25	11:00	
1/2 m # 20	} 0	10:25	10:53	

11-5314

## NOTES

vertical - Too scanty to measure, not saved.

# 20 & 1/2 m - some diatom

meter - saw catch  
 large Calanus - few juv. fish  
 few very large Pleurobrachia -  
 Euphausiids. all saved



Station No. *C-20089* Date: *April 6* 19*20*

Hour: *3:17* P. M. to *4:25* P. M.

Position: Lat. *42°26' N* Long. *70°42'30" W*  
*Chart C, 19. ~~1106~~ (1106)*

Locality:

Depth: *60 meters* Bottom: *—* Sample: *—*

Wind: Direction, *NW* ~~*blow, light*~~ Force, *6*  
*Air 42 = 5.56*

Sea: *Choppy* Sky: *Clear*

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>Meters</i>	<i>B.S. #</i>						<i>9-B</i>
<i>0</i>	<i>Tycosa</i>	<i>37°</i>	<i>—</i>	<i>7.05</i>	<i>3.05</i>	<i>✓</i>	
<i>10</i>	<i>N.Z. 20873</i>	<i>2.48</i>	<i>4.</i>	<i>-.09</i>	<i>2.39</i>	<i>✓</i>	<i>2</i>
<i>25</i>	<i>" 20872</i>	<i>2.38</i>	<i>4.</i>	<i>-.07</i>	<i>2.31</i>	<i>✓</i>	<i>5</i>
<i>60</i>	<i>" 20874</i>	<i>1.58</i>	<i>4.</i>	<i>-.09</i>	<i>1.49</i>	<i>✓</i>	<i>4</i>
<p><i>Alkalinity - Surface 7.95</i></p>							

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth <i>Meters</i>	TIME		Speed
		Down	Up	
Vertical (1/2 m)	60-0	PM		
Miter (cable out 60m, L30°)	50-0	3:50	4:25	
1/2 m 12" # 20	} 0	3:50	4:25	

11-5314

## NOTES

Rich Diatom

Station No. *C-20090* Date: *Apr. 9* 191*20*

Hour: *10.15 A.* M. to *11.55 A.* M.

Position: Lat. *42° 30' N* Long. *70° 19' W*  
*C. T. G. Chart # ~~944~~ (1106)*

Locality:

Depth: *134 meters* Bottom: *—* Sample: *—*

Wind: Direction, *W* Force, *3*  
*Air 40 = 41.4*

Sea: *Smooth* Sky: *Clear*

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>Meters</i>	<i>B.S. #</i>						<i>GB#</i>
<i>0</i>	<i>Zeos A</i>	<i>37.5</i>	<i>—</i>	<i>+0.5</i>	<i>3.33</i>	<i>✓</i>	
<i>1.0</i>	<i>R 11499</i>	<i>2.50</i>	<i>3.</i>	<i>0</i>	<i>2.50</i>	<i>✓</i>	<i>10</i>
<i>3.0</i>	<i>N.Z. 20873</i>	<i>2.50</i>	<i>3.5</i>	<i>-0.8</i>	<i>2.42</i>	<i>✓</i>	<i>2</i>
<i>9.0</i>	<i>" 20872</i>	<i>2.37</i>	<i>2.</i>	<i>-0.3</i>	<i>2.34</i>	<i>✓</i>	<i>5</i>
<i>12.0</i>	<i>" 20874</i>	<i>2.30</i>	<i>2.5</i>	<i>-0.5</i>	<i>2.25</i>	<i>✓</i>	<i>4</i>
<i>Alkalinity surface</i>				<i>7.9</i>			
<i>" 120 meters</i>				<i>7.9</i>			

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

235  
128  
60

NETS, ETC., USED

Description	Depth <i>Meters</i>	TIME		Speed
		Down	Up	
Vertical (1/2 m)	120-0	AM		
Closing net (cable out 75 m 235)	60-0	11:20	11:55	
net 12" #20	} 0	11:25	11:55	

11-5314

NOTES

*Arrival of diatoms*

Station No. C 20091

Date: Apr 9

19120

Hour: 1:50 P.M. to 2:55 P.M.

Position: Lat. 42° 43' N Long. 70° 22' W

C. T. G. Chart # 11 (1106)

Locality:

Depth: 60 meters Bottom: —

Sample: —

Wind: Direction, NW x N Force, 3

Air 43 = 6.1

Sea: Smooth

Sky: Clear

## TEMPERATURES

Depth Meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	Zyros A B. S. #	37.5		+0.5	3.33	✓	6B #
20	NZ. 20873	2.54	2.5	-0.6	2.48	✓	2
60	R. 11499	2.50	2.5	0	2.50	✓	10

Alkalinity - surface 8.0

## CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11-5314

## NETS, ETC., USED

Description	Depth <i>Meters</i>	TIME		Speed
		Down	Up	
Meter net / 40m ✓ <sup>40</sup>	30-0	2:18 <sup>PM</sup>	2:55	
Meter <del>42</del> #20	} 0	2:20	2:55	

11-5314

## NOTES

Meter net - Surface - about  $\frac{1}{2}$  hour  
Swarm of diatoms

Station No. *C-20092* Date: *Apr, 9* 19*20*

Hour: *5:03* P . M. to *7:45* P . M.

Position: Lat. *42° 49' N* Long. *70° 37' W*  
*C. S. G. Chart # ~~977~~ (1106)*

Locality:

Depth: *85 meters* Bottom: *—* Sample: *—*

Wind: Direction, *NW & W* Force, *3*  
*All-42 = 5.6*

Sea: *Smooth* Sky: *Clear*

TEMPERATURES

Depth Meters	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
0	<i>Dycos A</i>	<i>37.</i>	<i>—</i>	<i>+0.5</i>	<i>3.05</i>	<i>✓</i>	<i>9 B. #</i>
20	<i>N. 2. 20874</i>	<i>2.00</i>	<i>2.5</i>	<i>-0.6</i>	<i>1.94</i>	<i>✓</i>	<i>4</i>
40	<i>" 20872</i>	<i>2.50</i>	<i>2.5</i>	<i>-0.4</i>	<i>2.46</i>	<i>✓</i>	<i>5</i>
80	<i>" 20873</i>	<i>2.41</i>	<i>2.5</i>	<i>-0.6</i>	<i>2.35</i>	<i>✓</i>	<i>2</i>
<i>Alkalinity - surface 7.95</i>							

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS: 11-5314

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
Vertical (1/2 m)	80-0	P/17		
75' otter (cable net 150 fms) (270 m)	bottom	6:05	7:45	
(*) mtr net	0	7:00	7:35	
12" # 20		6:00	6:50	

11-5314

## NOTES

Many gill nets seen

\* Mtr net came up full of trash, put down again

## Diatoms

Trawl haul - *Sebastes maximus*  
*Glyptocephalus*  
*Pseudopleuronectes*  
*Paralichthys oblongus*  
*Sebastes* *eripe*





## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
Vertical (1/2 m)	160-0	PM		
Meter (cable out 150m) < 30	125-0	11:15	11:50	
Meter 12"	} 0	11:15	11:50	

11-5314

## NOTES

Swarms of diatoms.

93  
1.8  
744  
93  
1674

93  
1.8  
744  
93  
1674

Station No. *C-20094* Date: *Apr. 10* 19*20*

Hour: *3:00* A.M. to *4:15* A.M.

Position: Lat. *43° 8' N* Long. *69° 39' 30" W*  
*C. TG. S. chart 1106*

Locality:

Depth: *98 m* Bottom: *—* Sample: *—*

Wind: Direction, *N.W.* Force, *3*  
*Air 39 = 3.9*

Sea: *Smooth* Sky: *Clear*

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>m</i>	<i>B.S. #</i>						<i>6B#</i>
<i>0</i>	<i>Typos A</i>	<i>36.5</i>	<i>—</i>	<i>+0.5</i>	<i>2.78</i>	<i>✓</i>	
<i>20</i>	<i>H.Z. 20873</i>	<i>2.40</i>	<i>2.5</i>	<i>-0.6</i>	<i>2.34</i>	<i>✓</i>	<i>2</i>
<i>40</i>	<i>" 20872</i>	<i>2.50</i>	<i>2.5</i>	<i>-0.4</i>	<i>2.46</i>	<i>✓</i>	<i>5</i>
<i>90</i>	<i>" 20874</i>	<i>2.86</i>	<i>2.5</i>	<i>-0.4</i>	<i>2.82</i>	<i>✓</i>	<i>4</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS:

## NETS, ETC., USED

Description	Depth m.	TIME		Speed
		Down	Up	
Mitu (about 70m) (3)	55-0	3:31	4:05	
12m 12"	0	3:31	4:05	
Vertical	90-0			

11-5314

## NOTES

Diatoms

Deep haul, large Pleurobrachia - few

Station No. *C-20095* Date: *Apr. 10* 19*20*

Hour: *7:45 A* . M. to *8:55 A* . M.

Position: Lat. *43° 25' N* Long. *70° 12' W*  
*C. I. G. S. Chart # ~~944~~ (1106)*

Locality:

Depth: *93 meters* Bottom: *—* Sample: *—*

Wind: Direction, *NWXN* Force, *2*  
*Air 41 = 5.0*

Sea: *Smooth* Sky: *Clear*

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>0</i>	<i>B.S. #</i>	<i>37.0</i>					<i>5.12 #</i>
<i>0</i>	<i>Tyco A.</i>	<i>37.0</i>		<i>+0.5</i>	<i>3.05</i>	✓	
<i>20</i>	<i>H.Z. 20873</i>	<i>2.80</i>	<i>4.0</i>	<i>-0.9</i>	<i>2.71</i>	✓	<i>2</i>
<i>40</i>	<i>" 20872</i>	<i>2.32</i>	<i>4.0</i>	<i>-0.7</i>	<i>2.25</i>	✓	<i>5</i>
<i>90</i>	<i>" 20874</i>	<i>2.30</i>	<i>4.0</i>	<i>-0.8</i>	<i>2.22</i>	✓	<i>4</i>

*Alkalinity - surface 8.0*

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

## NETS, ETC., USED

Description	Depth meters	TIME		Speed
		Down	Up	
Vertical (1/2 m)	90-0	AM		
Net (about 70 m $\angle$ 40	55-0	8:19	8:55	
1/2 m 12'	} 0	8:19	8:50	

11-5314

## NOTES

A number of gill nets and drifters close around station.  
 Net - about 1/2 of tow board.  
 Diatoms plentiful at surface.  
 Atmosphere very clear - white Mt. Washington visible - thought to be Mt. Washington.

Station No. *C-20096* Date: *April 10* 19*20*Hour: *12,20 P* . M. to *1,35 P* . M.Position: Lat. *43-40* Long. *69-37*Locality: *Chart C+651106*  
*Off Boothbay*Depth: *80 meters* Bottom: *—* Sample: *—*Wind: Direction, *SWWS* Force, *Force 2*Sea: *Smooth* Sky: *Clear*  
*Air 54 = 12.2*

## TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>Meters</i>	<i>B.S. #</i>						<i>GR4</i>
<i>0</i>	<i>Oycos A</i>	<i>36.5</i>		<i>+0.5</i>	<i>2.78</i>	<i>✓</i>	
<i>20</i>	<i>N.Z. 20872</i>	<i>2.11</i>	<i>5.0</i>	<i>-.09</i>	<i>2.02</i>	<i>✓</i>	<i>5</i>
<i>60</i>	<i>" 20873</i>	<i>2.48</i>	<i>4.0</i>	<i>-.09</i>	<i>2.39</i>	<i>✓</i>	<i>2</i>
<i>Alkalinity—surface 8.0</i>							

## CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water:

Transparency:

REMARKS:

11-5314

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
Meter net (45 m. out) <sup>30</sup> ✓	35-0	12:58 PM	1:30	
Meter net # 20	} 0	1:05	1:30	
Vertical net	80-0			

11-5314

## NOTES

Vertical net - too small to be measurable.

35-0, very scanty.



Station No. *C-20097* Date: *April 10<sup>th</sup> 1912*

Hour: *11:00 P.M.* to *12:25 A.M.*

Position: Lat. *43-19* Long. *68-54-30*  
*Chart C & G S 1106*

Locality:

Depth: *130 meters* Bottom: *—* Sample: *—*

Wind: Direction, *SW* Force, *Calm 2*  
*Air 40 = 41.4*

Sea: *Smooth* Sky: *Clear*

TEMPERATURES

Depth <i>Meters</i>	Thermometer— Make and No. <i>B.S. #</i>	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used <i>GB#</i>
<i>0</i>	<i>Tyco A</i>	<i>37.5</i>	<i>—</i>	<i>+0.5</i>	<i>3.33</i>	<i>✓</i>	
<i>20</i>	<i>R 11499</i>	<i>2.40</i>	<i>3</i>	<i>0</i>	<i>2.40</i>	<i>✓</i>	<i>10</i>
<i>40</i>	<i>NZ 20871</i>	<i>2.20</i>	<i>3.5</i>	<i>-.07</i>	<i>2.13</i>	<i>✓</i>	<i>4</i>
<i>100</i>	<i>" 20872</i>	<i>3.50</i>	<i>3</i>	<i>-.04</i>	<i>3.46</i>	<i>✓</i>	<i>5</i>
<i>125</i>	<i>" 20873</i>	<i>4.60</i>	<i>3</i>	<i>-.09</i>	<i>4.51</i>	<i>✓</i>	<i>2</i>

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: Transparency:

REMARKS: 11-5314

## NETS, ETC., USED

Description	Depth <i>Meters</i>	TIME		Speed
		Down	Up	
Vertical ( $\frac{1}{2}$ meter)	130-0		AM	
Meter (cable out 100m) L30	80-0	11:17	12:22	
Meter #20	} 0	11:15	12:20	

11-5314

## NOTES

Vertical net carried away

no diatom  
chione

Station No. *C 20098* Date: *April 11* 191*30*

Hour: *7:00 A* . M. to *9:30 A* . M.

Position: Lat. *43-42-30* Long. *67-55*  
*Chart C + 651106*

Locality:

Depth: *216 meters*, Bottom: \_\_\_\_\_ Sample: \_\_\_\_\_

Wind: Direction, *E* Force, *1 Calm*

*Air 44 = 6.7*

Sea: *Smooth* Sky: *Clear*

TEMPERATURES

Depth	Thermometer— Make and No.	Reading	Stem Temp.	Correc- tion	Corrected Temp.	W. Sample	Bottle used
<i>0</i>	<i>Agass A,</i>	<i>37.0</i>	<i>—</i>	<i>+0.5</i>	<i>3.05</i>	<input checked="" type="checkbox"/>	<i>9 B #</i>
<i>20</i>	<i>NZ 21575</i>	<i>2.30</i>	<i>4</i>	<i>+0.03</i>	<i>2.33</i>	<input checked="" type="checkbox"/>	<i>8</i>
<i>40</i>	<i>" 20875</i>	<i>2.58</i>	<i>5</i>	<i>-0.05</i>	<i>2.53</i>	<input checked="" type="checkbox"/>	<i>6</i>
<i>100</i>	<i>" 20874</i>	<i>3.60</i>	<i>5</i>	<i>-0.07</i>	<i>3.53</i>	<input checked="" type="checkbox"/>	<i>4</i>
<i>150</i>	<i>" 20872</i>	<i>5.00</i>	<i>5</i>	<i>-0.09</i>	<i>4.91</i>	<input checked="" type="checkbox"/>	<i>5</i>
<i>210</i>	<i>" 20873</i>	<i>5.39</i>	<i>4</i>	<i>-0.11</i>	<i>5.28</i>	<input checked="" type="checkbox"/>	<i>2</i>
<i>Alkalinity surface 7.95</i>							

CURRENTS

Depth	Hour	Tide	Time down	Revolutions	Speed	Direction

Color of water: \_\_\_\_\_ Transparency: \_\_\_\_\_

REMARKS: \_\_\_\_\_ 11-5314

## NETS, ETC., USED

Description	Depth Meters	TIME		Speed
		Down	Up	
Closing cable 150m $\angle 40$	125	8:00	8:35	
Meter net # 20	} 0	8:00	8:35	
Meter (about 125 $\angle 40-60$		9:00	9:30	

11-5314

## NOTES

Impossible to use closing net  
act. quantity of seaweed.

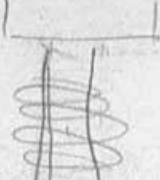
Surface meter net clogged with seaweed  
no diatoms

62  
89  
95  
119

33.8  
1.5  
34.3

1.8) 2.0 1.1 2.3  
1.8  
2.0

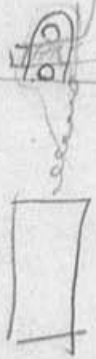
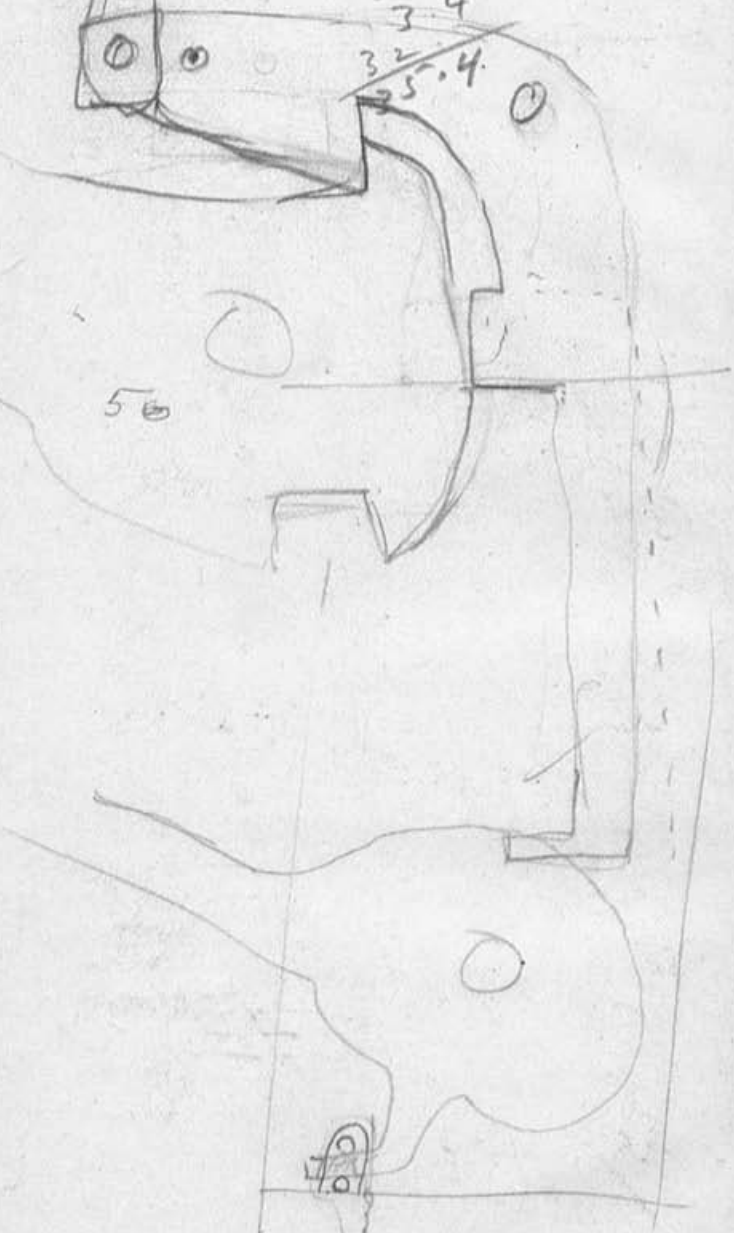
1.8) 2.3 1.2  
1.8  
50  
36



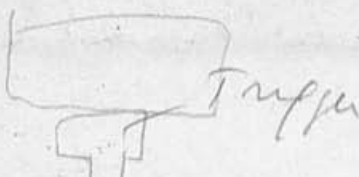
1.9 7  
1.8  
152  
19  
342  
32  
25.4

35.5

50



BB  
WW



$$\begin{array}{r}
 3.6 \\
 1.8 \\
 \hline
 2.8 \text{ f} \\
 3.6 \\
 \hline
 6.4 \text{ f} \\
 32 \\
 \hline
 38.7 \text{ f}
 \end{array}$$

$$\begin{array}{r}
 1.8 \\
 2.2 \\
 \hline
 3.6 \\
 3.6 \\
 \hline
 3.96 \\
 32 \\
 \hline
 35.9
 \end{array}$$

$$\begin{array}{r}
 1.8 \\
 1.8 \\
 \hline
 1.44 \\
 1.6 \\
 \hline
 3.24 \\
 32 \\
 \hline
 35.22 \\
 3.6 \\
 \hline
 35.6
 \end{array}$$

$$\begin{array}{r}
 36 \\
 32 \\
 \hline
 35.6
 \end{array}$$

$$\begin{array}{r}
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 7 \text{ f} \\
 \hline
 126 \\
 32 \\
 \hline
 33.26
 \end{array}$$

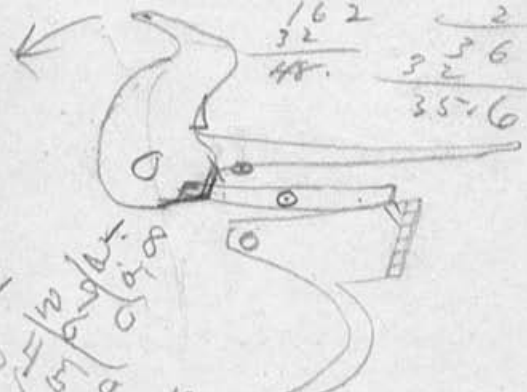
MLZ  
MLZ

329

$$\begin{array}{r}
 1.8 \\
 9 \text{ f} \\
 \hline
 162 \\
 32 \\
 \hline
 48.
 \end{array}$$

$$\begin{array}{r}
 1.8 \\
 2 \\
 \hline
 3.6 \\
 32 \\
 \hline
 35.6
 \end{array}$$

$$\begin{array}{r}
 1.31 \\
 1.8 \\
 \hline
 10.98 \\
 1.31 \\
 \hline
 23.58
 \end{array}$$



$$\begin{array}{r}
 1.8 \\
 1.8 \\
 \hline
 3.6 \\
 3.6 \\
 \hline
 7.2 \\
 32 \\
 \hline
 35.6
 \end{array}$$

$$\begin{array}{r}
 32. \\
 2.4 \\
 \hline
 34.4
 \end{array}$$

$$\begin{array}{r}
 1.8 \\
 3.6 \\
 \hline
 5.4 \\
 32 \\
 \hline
 35.6
 \end{array}$$



$$\begin{array}{r}
 1.8 \\
 2.4 \\
 \hline
 7.2 \\
 3.6 \\
 \hline
 10.8 \\
 32 \\
 \hline
 35.6
 \end{array}$$

$$\begin{array}{r}
 1.8 \\
 1.8 \\
 \hline
 3.6 \\
 3.6 \\
 \hline
 7.2 \\
 32 \\
 \hline
 35.6
 \end{array}$$