

Wiebe flew this one

Bottom depth  
360 m

### MOCNESS Data Sheet (NBP01-03)

Std. Station No. 3

Tow No. #1

Date (YY/MM/DD): 30 Apr 2001

Filename (raw) MOC-01-001

Filename (processed) m-01-001

#### Net information

Net size: 1m <sup>2</sup>	Net Condition
Net Mesh: 335 µm	<u>good</u>

Start

End

Location (Lat/Lon) <u>-66 10.796 / 19 10.465</u>		Location (Lat/Lon)	
Time (Local) <u>1205D</u>	Time (GMT) <u>005D</u>	Time (Local)	Time (GMT)
MOCNESS Battery Voltage <u>19.3</u>		MOCNESS Battery Voltage	

#### Environmental parameters

Wind (Speed/direction) <u>20kts ~290</u>	Sea State <u>Rough / Big swell</u>
Clouds <u>Some</u>	Light <u>No Dark</u>
Air temp <u>-0.6</u>	SST <u>-0.198</u>

#### Net-tow information

Net #	Depth Range	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<u>0-300</u>	<u>0</u>	<u>0050</u>	<u>4300</u>	<u>0120</u>	<u>?</u>	<u>?</u>	<u>Moanet Net</u>
1	<u>300-250</u>	<u>~300</u>	<u>01:25</u>	<u>~243</u>		<u>59</u>	<u>246<sup>230.9</sup></u>	<u>Strobe #1</u>
2	<u>250-200</u>	<u>~243</u>	<u>01:32</u>	<u>~200</u>	<u>0132</u>		<u>~170<sup>195.7</sup></u>	<u>No response</u>
3	<u>200-150</u>	<u>200</u>	<u>0132</u>	<u>150</u>	<u>0137</u>	<u>~60</u>	<u>236.6</u>	<u>No response</u>
4	<u>150-100</u>	<u>150</u>	<u>0137</u>	<u>100</u>	<u>0146</u>	<u>~7</u>	<u>~1354.7</u>	<u>No response</u>
5	<u>75-100</u>	<u>100</u>	<u>0146</u>	<u>75</u>	<u>0152</u>	<u>?</u>	<u>? 203.9</u>	<u>No response</u>
6	<u>50-75</u>	<u>75</u>	<u>0152</u>	<u>50</u>	<u>0160</u>		<u>35<sup>258.2</sup></u>	<u>Response (cut 6 steps)</u>
7	<u>25-50</u>	<u>50</u>	<u>0160</u>	<u>25</u>	<u>0203</u>	<u>28</u>	<u>124.0</u>	<u>No response</u>
8	<u>0-25</u>	<u>25</u>	<u>0203</u>	<u>0213</u>	<u>0213</u>		<u>713.6<sup>252.3</sup></u>	

Comments:

Had to stop acquisition at 60 m - 600 baud too slow - Restarted it, but same problem as before - lots - This tow is not good - stopped at 150 m and started hauling back.  
@ 01:06:30 - something happened and system lost sync. They came back up at 2400 baud + seems to be working.

- So at 174 getting good data
  - No net response on net 1 - <sup>used</sup> increment Net # button
  - No net response on net 2 - used increment Net button
  - Net response worked on net 3
  - No net response on net 4 - used increment Net button
  - No response on net 5
  - Response on Net 6
  - No response on Net 7
- at the surface all nets had fired + strobe was on

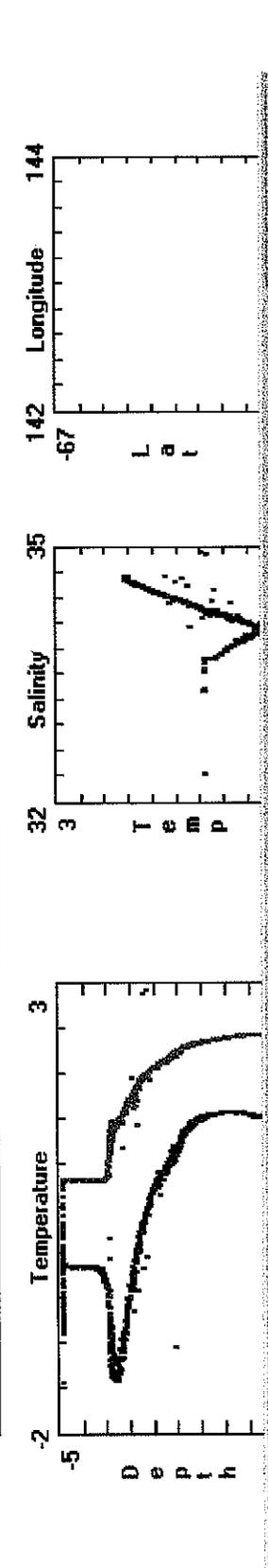
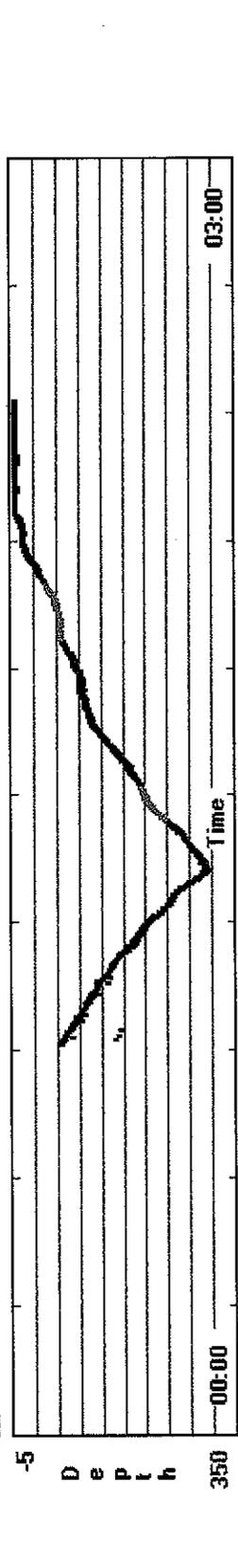
	Start	End	Flow Counts	Volume
Net 0	120.030683	120.055937	424	1717.3
1	120.055937	120.060255	60	250.9
2	120.060255	120.063692	50	195.7
3	120.063692	120.067928	60	236.6
4	120.067928	120.074282	84	354.7
5	120.074282	120.077870	45	203.9
6	120.077870	120.083530	86	358.2
7	120.083530	120.086042	28	124.0
8	120.086042	120.095891	155	713.6
		0218		

Made a BMP file of MOCHNESS tow  
 filename = M0101001.BMP

Environmental Parameters Net Operation Net - Ship Position Program Settings

Time	02:25:51	Net_Num	8	Latitude	66S 10.882
Pressure	0.2 m	OpenTime	22.0 min	Longitude	69W 16.76
Temp	-0.86 C	Vol_Filtered	886.9 m3	Net_Dist	1066.4 m
Salinity	0.36 o/oo	Angle	75 deg	Total_Dist	4347.6 m
Density	0.072	Flow_Counts	178	Processed File Name	C:\MOCNESS\MOCDATA\NBPO1-~1\M_01_001.P
Oxygen		Hor_Vel	0.0 kts	Raw File Name	C:\MOCNESS\MOCDATA\NBPO1-~1\M_01_001.ra
Fluoresc.		Vert_Vel	0.2 m/min	Acquisition Ended. trays = 3	
LightXmis		Battery			

Step 51 BD Net  Increment Net  Pause Acqui  End Acqui



M-01-001  
 30 April 2001  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	240.2	302.9	273.8	01.5	01.6	01.6	01.5	01.6	01.5	34.64	34.67	34.66
2	198.8	238.6	215.4	01.5	01.6	01.5	01.5	01.5	01.5	34.61	34.64	34.62
4	244.5	8510.5	182.0	-01.4	50.0	10.0	-01.4	50.1	09.9	06.27	50.00	34.98
5	102.1	144.8	117.6	-00.5	00.9	00.2	-00.5	00.9	00.2	34.18	34.47	34.34
7	22.4	48.0	35.6	-00.2	-00.1	-00.2	-00.2	-00.1	-00.2	33.68	33.69	33.69
8	-242.2	22.7	1048.4	-00.9	50.0	-23.6	-00.9	50.1	-23.5	00.09	50.00	7545.56

net#	simin	simax	siavg	cmmin	cmmax	cavg	fmmin	fmmax	fvavg	oxmin	oxmax	oxavg
1	27.72	27.74	27.73	00.70	00.70	00.70	00.30	00.30	00.30	-04.1	-04.1	-04.1
2	27.70	27.71	27.70	00.70	00.70	00.70	00.30	00.30	00.30	-04.1	-04.1	-04.1
0	-07.37	40.37	25.44	00.70	00.70	00.70	00.30	00.30	00.30	-04.1	-04.1	-04.1
4	27.45	27.63	27.56	00.70	00.70	00.70	00.30	00.30	00.30	-04.1	-04.1	-04.1
5	27.37	27.52	27.45	00.70	00.70	00.70	00.30	00.30	00.30	-04.1	-04.1	-04.1
0	-07.37	40.37	25.44	00.70	00.70	00.70	00.30	00.30	00.30	-04.1	-04.1	-04.1
7	27.05	27.06	27.06	00.70	00.70	00.70	00.30	00.30	00.30	-04.1	-04.1	-04.1
8	-00.15	27.06	6024.6400.70	00.70	00.70	229.91	00.30	00.30	98.40	-04.1	-04.1	-1355.5

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	31.0	89.0	44.3	01.1	02.0	01.5	-00.6	17.8	09.8	00092	00251✓
2	32.0	89.0	49.2	01.1	02.0	01.5	-02.9	18.6	08.2	00073	00196✓
0	00.0	89.0	50.8	-2342.	82337.1	02.0	-99.0	99.0	-09.1	00376	01717✓
4	27.0	89.0	45.9	00.6	02.0	01.4	-08.2	13.7	04.7	00136	00355✓
5	26.0	89.0	44.2	00.6	02.0	01.3	-02.4	13.3	05.5	00076	00204✓
0	00.0	89.0	50.8	-2342.	82337.1	02.0	-99.0	99.0	-09.1	00376	01717✓
7	23.0	70.0	39.9	00.9	01.4	01.2	-00.2	13.5	07.1	00053	00124✓
8	00.0	79.0	15955.000.0	00.0	03.7	409.1	-99.0	99.0	364.6	00328	00889

Row: M-01-001 RVIB NBP01-03

Date: 30 April 2001

Temperature Probe # 2691 Conductivity Probe # 1850

Pressure Probe # 146 Oxygen Probe # 230925

Transmissometer # 397 Fluorometer # 99

net	time	pres	temp	theta	sal	sigma	angle	
1	120.0602	240	30.6	1.569	1.557	34.64	27.717	38
2	120.0636	199		1.486	1.476	34.607	27.696	47
3	120.0679	145		0.909	0.903	34.473	27.628	42
4	120.0742	104		-0.293	-0.297	34.257	27.521	30
5	120.0778	76		-1.302	-1.304	34.017	27.367	60
6	120.0835	49		-0.143	-0.145	33.689	27.055	40
7	120.0886	22		-0.147	-0.147	33.69	27.056	30
8	120.0902	0		-0.128	-0.128	33.657	27.029	59
8	120.0974	0		-0.856	-0.856	0.09	-0.148	44

net	flow	hzvel	vtvel	vol	lat	lon
1	60	1.7	14.12	250.9	-66.1811	-69.2153
2	50	1.4	4.91	195.7	-66.181	-69.2206
3	60	1.7	14.3	236.6	-66.1811	-69.2272
4	84	0.9	-1	354.7	-66.1808	-69.2356
5	45	1.7	2.7	203.9	-66.1807	-69.242
6	86	1.1	6.64	358.2	-66.1806	-69.2522
7	28	0.9	11.35	124	-66.1809	-69.2557
8	49	2	10.38	252.3	-66.1811	-69.2618
8	178	3.1	0.39	888.8	-66.1813	-69.2731

any net  $\phi$ ?

9/20/01

Recommend setting ship  
speed @ 2 kt

### MOCNESS Data Sheet (NBP01-03)

Std. Station No. 10 Tow No. 2  
 Date (YY/MM/DD): 01/09/01 gmt  
 Filename (raw) M-02-01.raw Filename (processed) M-02-01.pro

#### Net information

Net size: 1m <sup>2</sup>	Net Condition net traps rotated, + indicator, bar bolts loose
Net Mesh: 335 μm	

#### Start

#### End

Location (Lat/Lon) -666 7945, -070 56544	Location (Lat/Lon)
Time (Local) 04:15	Time (GMT) 08:15
MOCNESS Battery Voltage 19.4	MOCNESS Battery Voltage 19.3 @ 44m

#### Environmental parameters

Wind (Speed/direction) 24 kn / 016°	Sea State pretty calm
Clouds yes, snowing	Light <del>dark</del> none
Air temp -1.1°C	SST -0.864

stroke 'on'

pressure @ surface: 0.3

#### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	0-800	<del>0</del> 0	0815	800	0857	<del>12165</del>	12165	no net response
1	<del>800-600</del>	800	0857	600	0917	—	—	no NR, no Δ
2	600-400	600	0917	400	0940	—	—	no NR, yes Δ
3	400-200	400	0940	197	1008	—	—	no NR, yes Δ
4	200-100	197	1008	99	1020	—	—	no NR, yes Δ
5	75-100	99	1020	67	1022	—	—	no NR, no Δ
6	50-75	67	1022	50	1024	—	—	no NR, no Δ
7	25-50	50	1024	24.7	1028	—	—	no NR, no Δ
8	0-25	24.7	1028	0.3	1033	—	—	no NR, no Δ

stroke was working @ recovery

looks like last net only 1 m, last net clogged

Comments: Oxygen sensor not giving good data  
 payout @ 15min, very little tension, angle very variable on payout  
 no difference in net to w/p payout speed  
 no fluorescence, no transmissivity  
 after net #1 tipped, flow meter not working (at least no vol. shows)  
 net flapping around, & every where, 120 to 600 w/in seconds

When net came up, 1<sup>st</sup> bar had not  
tripped, 2 cod ends had come around  
forward and were trapped between  
bottom bar + top bar of Net  $\phi$ ,  
net traps + net respace had twisted  
around off of center, & flow net  
was still present

MOCZ

M-01-002  
30 April 2001  
RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	593.9	797.8	689.3	01.2	01.4	01.3	01.1	01.4	01.3	34.68	34.70	34.69
2	397.4	592.7	494.0	01.4	01.6	01.5	01.4	01.6	01.5	34.66	34.69	34.68
3	193.1	397.9	296.8	01.3	01.7	01.7	01.3	01.7	01.6	34.54	34.68	34.64
4	93.6	193.1	150.5	-01.1	01.3	00.6	-01.1	01.3	00.6	34.12	34.54	34.41
5	65.9	93.7	78.2	-01.6	-01.1	-01.4	-01.6	-01.1	-01.4	33.93	34.15	34.06
6	50.3	65.8	57.7	-01.2	-00.8	-00.9	-01.2	-00.8	-00.9	33.72	33.94	33.78
7	23.7	50.4	37.6	-00.8	-00.8	-00.8	-00.8	-00.8	-00.8	33.71	33.72	33.72
8	00.2	23.1	07.5	-01.0	-00.8	-00.8	-01.0	-00.8	-00.8	05.67	33.79	32.49
9	00.2	00.3	00.5	-00.8	-00.8	-01.6	-00.8	-00.8	-01.6	32.91	33.63	66.54

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	27.77	27.79	27.78	00.00	00.00	00.00	00.00	00.00	00.00	-00.2	-00.2	-00.2
2	27.74	27.77	27.75	00.00	00.00	00.00	00.00	00.00	00.00	-00.2	-00.2	-00.2
3	27.65	27.74	27.71	00.00	00.00	00.00	00.00	00.00	00.00	-00.2	-00.1	-00.2
4	27.45	27.67	27.59	00.00	00.00	00.00	00.00	00.00	00.00	-00.2	-00.1	-00.2
5	27.29	27.47	27.41	00.00	00.00	00.00	00.00	00.00	00.00	-00.2	-00.2	-00.2
6	27.11	27.30	27.16	00.00	00.00	00.00	00.00	00.00	00.00	-00.2	-00.2	-00.2
7	27.10	27.11	27.11	00.00	00.00	00.00	00.00	00.00	00.00	-00.2	-00.2	-00.2
8	04.40	27.16	26.11	00.00	00.00	00.00	00.00	00.00	00.00	-00.2	-00.2	-00.2
9	26.45	27.03	53.49	00.00	00.00	00.00	00.00	00.00	00.00	-00.2	-00.2	-00.3

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	19.0	89.0	33.4	00.0	00.0	00.0	-01.2	20.6	10.0	00301	00000
2	08.0	89.0	28.1	00.0	00.0	00.0	-02.5	21.9	08.5	00348	00000
3	14.0	89.0	29.0	00.0	00.0	00.0	-02.3	19.6	07.4	00411	00000
4	05.0	89.0	25.7	00.0	00.0	00.0	-04.9	24.3	08.6	00170	00000
5	28.0	54.0	35.7	00.0	00.0	00.0	04.6	19.4	12.8	00035	00000
6	35.0	52.0	41.6	00.0	00.0	00.0	02.9	14.6	08.9	00027	00000
7	36.0	84.0	43.9	00.0	00.0	00.0	00.7	12.1	06.6	00059	00000
8	39.0	69.0	48.0	00.0	00.0	00.0	-00.6	14.7	04.5	00080	00000
9	42.0	45.0	87.0	00.0	00.0	00.0	00.3	00.9	01.3	00002	00000

depth  
np 0 - 800 m  
vol  
1211.5 m<sup>3</sup>

flow meter not working

**MOCNESS - [Data Acquisition and Control System]**

Acquisition Setup Hardware Setup Runtime Diagnostics Plot Setup Capture Screen About

**Environmental Parameters**

Time 10:34:18  
 Pressure 0.5 m  
 Temp -0.99 C  
 Salinity 11.12 o/oo  
 Density 8.822  
 Oxygen -0.19 ml/l  
 Fluoresc. 0.0002 V  
 LightXmis 0.0000 /m

**Net Operation**

Net\_Num 9  
 Open Time 0.5 min  
 Vol\_Filtered 0.0 mg  
 Angle 58 deg  
 Flow\_Counts 0  
 Hor\_Vel 0.0 kts  
 Vert\_Vel 0.2 m/min  
 Battery

**Net - Ship Position**

Latitude 66S 9.8508'  
 Longitude 70W 57.28  
 Net\_Dist 5.2 m  
 Total\_Dist 5115.0 m

Baud Rate 2400  
 Sample Rate 4.0 sec  
 Printer Off

**Program Settings**

Processed File Name C:\MOCNESS\M\_02\_001.PRO  
 Raw File Name C:\MOCNESS\M\_02\_001.raw  
 Name ###MN-08 00 58 0184 02335 0323 890967 483576 193H:1  
 \$GPGLL,6609.8508,S,07057.2815,W,103410.878

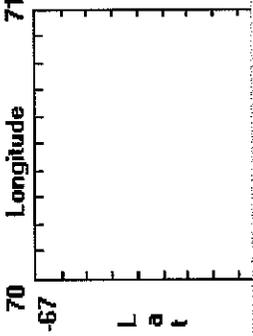
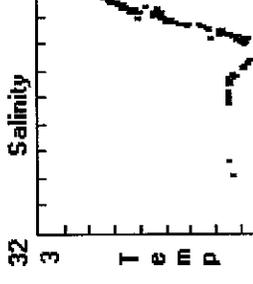
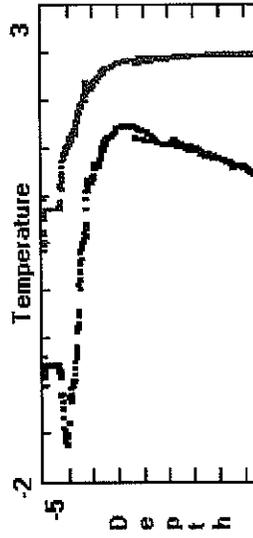
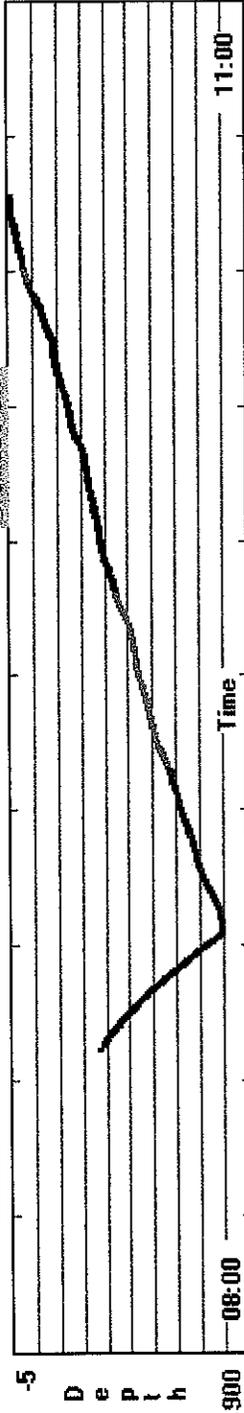
Step 5TRD Net

Increment Net#

Strobe On  
 Strobe Off

Pause Acqui

End Acqui



Start MOCNESS [Data Ac...

10:34 AM

Mac 3

M-01-003  
M-Q3-001  
30 April 2001  
RVIB NBF01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	<del>244</del> -00.7	491.8	382.1	-01.3	01.4	01.2	-01.3	01.3	01.2	00.00	34.68	31.54
2	244.7	344.0	299.5	01.4	01.4	01.4	01.3	01.4	01.4	34.64	34.66	34.65
3	149.0	241.9	198.7	01.1	01.4	01.3	01.0	01.4	01.3	34.53	34.64	34.60
4	98.3	149.0	129.4	00.1	01.1	00.7	00.1	01.1	00.7	34.34	34.54	34.47
5	71.2	97.5	88.3	-00.5	00.1	-00.1	-00.5	00.1	-00.1	34.21	34.34	34.30
6	47.7	71.1	60.7	-01.2	-00.6	-00.9	-01.2	-00.6	-00.9	34.01	34.21	34.14
7	24.3	48.5	37.5	-01.0	-00.8	-00.8	-01.0	-00.8	-00.8	33.72	33.96	33.73
8	00.4	24.8	10.2	-00.8	-00.8	-00.8	-00.8	-00.8	-00.8	33.15	33.72	33.71
9	00.6	01.7	01.0	-00.8	-00.8	-00.8	-00.8	-00.8	-00.8	33.60	33.72	33.66
0	-01.3	503.9	229.7	-01.4	01.5	00.7	-01.4	01.4	00.7	00.00	34.68	30.67

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	-00.26	27.77	25.25	00.05	01.17	00.05	00.24	00.91	00.26	04.0	08.4	03.7
2	27.73	27.75	27.74	00.05	00.06	00.05	00.24	00.32	00.29	04.0	04.0	04.0
3	27.67	27.73	27.70	00.05	00.06	00.05	00.24	00.34	00.29	03.9	04.1	04.0
4	27.57	27.67	27.64	00.06	00.07	00.06	00.25	00.33	00.29	04.0	04.7	04.2
5	27.50	27.57	27.55	00.06	00.07	00.06	00.26	00.34	00.29	04.7	05.4	04.9
6	27.36	27.50	27.45	00.07	00.11	00.09	00.27	00.40	00.32	05.4	06.4	05.8
7	27.10	27.31	27.12	00.11	00.13	00.11	00.32	00.42	00.37	06.5	07.5	07.4
8	26.65	27.11	27.10	00.11	18.27	00.65	00.31	00.40	00.36	06.7	07.9	07.5
9	27.01	27.11	27.06	00.12	05.32	02.69	00.32	00.38	00.35	07.0	07.8	07.5
0	-00.26	27.77	24.55	00.00	01.34	00.15	00.00	00.80	00.30	-00.2	50.0	04.5

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	29.0	89.0	42.8	00.3	02.0	01.6	-03.5	21.2	09.0	00244	00641 1
2	39.0	89.0	50.7	01.4	02.3	01.8	-01.6	19.0	07.5	00197	00588 2
3	39.0	89.0	50.6	01.7	02.3	01.9	-06.1	20.2	07.1	00203	00628 3
4	35.0	89.0	49.1	01.4	02.0	01.6	-05.3	14.3	05.8	00130	00369 4
5	32.0	89.0	49.3	01.1	01.7	01.5	-10.8	12.9	04.0	00095	00259 5
6	34.0	89.0	49.5	01.1	01.7	01.5	-08.8	11.5	03.1	00115	00303 6
7	39.0	87.0	51.0	01.4	02.0	01.7	-04.5	09.4	03.2	00113	00343 7
8	40.0	82.0	55.1	01.4	02.6	02.1	-03.5	09.2	03.3	00113	00371 8
9	34.0	71.0	51.0	01.4	01.4	01.4	-02.0	00.0	-00.7	00004	00014
0	29.0	89.0	53.8	00.0	15.1	01.3	-85.3	14.3	-20.8	00357	00938

note MOC #3 10 Pause until 35m!

MOCNESS Data Sheet (NBP01-03)

Std. Station No. 13 <sup>MAY</sup> Tow No. 3  
 Date (YY/MM/DD): 010502  
 Filename (raw) M\_03\_001 Filename (processed) M\_03\_001

Net information

Net size: 1m <sup>2</sup>	Net Condition
Net Mesh: 335 μm	

Start -70° 21.422 W		End	
Location (Lat/Lon) 66° 48.527 S	Location (Lat/Lon) 66° 48.84 S	70° 29.47 W	
Time (Local) 0320	Time (GMT) 0710	Time (Local) 0504	Time (GMT) 0906
MOCNESS Battery Voltage 19.2	MOCNESS Battery Voltage 19.0 V		

Environmental parameters

Wind (Speed/direction) 206/275 T	Sea State 4/8 ft waves
Clouds —	Light NONE
Air temp -1.8°C	SST -0.439°C

Strobe on

Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close GMT	Flow counts	Vol filtered	Comments
0	0-500	0	0720	500	0744	100	000.6	NO NR.
1	500-300	500	0744	346	0800	165	627.7	NO NR.
2	300-200	346	0800	244.9	810	155	569	NO NR & response
3	200-150	244.9	810	150	827	166	611	NO NR & response
4	150-100	150	827	98	836	89	365	NO NR yes & res
5	100-75	98	836	74	842	62	250	NO NR Muyhr & Res
6	75-50	74	842	50	850	76	303	NO NR
7	50-25	50	850	26.2	857	87	338	NO NR
8	25-0	26.2	857	0.4			371	NR!!

0095!

With 0.5m

Strobe on @ return to surface net flapping a lot

Comments: Rebuilt Flowmeter —  
 Realigned net bar traps  
 Realigned net response indicator  
 MOCNESS requires more wt in bottom end  
 MOCNESS requires 1/2 stainless U's on feet.  
 NO net response in water depth but at skoh

846 Holiday net @ 60m to filter more  
volume

Scott reports all nets tipped

~~trapping~~

upper 2 nets had way too much  
biomass (red, sawal (vill))

Should filter <sup>less</sup> ~~more~~ <sup>USS</sup> next time  
lower nets had <sup>larger</sup> larger kull, esp bottom nets,  
but not too many, vol. filtered  
in fine future nets



**MOCNESS - [Data Acquisition and Control System]**

Acquisition Setup Hardware Setup Runtime Options EOF Setup Capture Screen About

**Environmental Parameters**

Time 09:07:28  
 Pressure 1.1 m  
 Temp -0.78 C  
 Salinity 33.72 o/oo  
 Density 27.107  
 Oxygen 7.65 ml/l  
 Fluoresc. 0.3868 V  
 LightXmis 0.1302 /m

**Net Operation**

Net\_Num 10  
 OpenTime 15 min  
 Vol\_Filtered 63.9 mls  
 Angle 4 deg  
 Flow\_Counts 16  
 Hor\_Vel 2.0 kts  
 Vert\_Vel -1.4 m/min  
 Battery

**Net - Ship Position**

Latitude 66S 48.837  
 Longitude 70W 29.54  
 Net\_Dist 81.9 m  
 Total\_Dist 6503.7 m

**Program Settings**

Baud Rate 2400  
 Sample Rate 4.0 sec  
 Printer Off  
 F16set  
 Processed File Name C:\MOCNESS\MOCDATA\NBPO1-2\M\_03\_001.P  
 Raw File Name C:\MOCNESS\MOCDATA\NBPO1-2\M\_03\_001.ra  
 Name  
 ##MN-17 00 47 1155 02338 0204 886768 323145 190H-I  
 \$GPGLL,6648.8376,S,07029.5416,W,090714.768

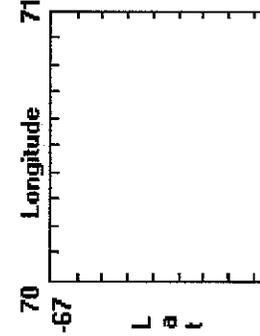
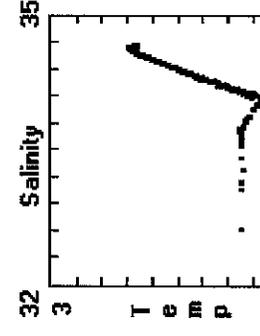
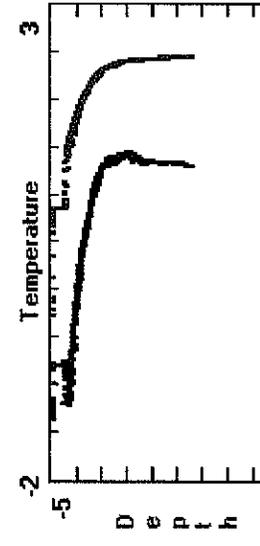
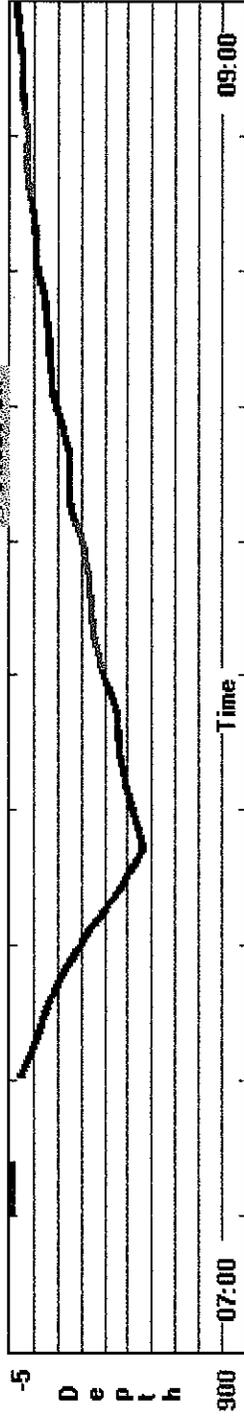
Step 5 TBD Net

Increment Net#

Strobe On  
 Strobe Off

Pause Acquis

End Acquis



Start MOCNESS [Data Ac...

9:07 AM

M-04-001  
 30 April 2001  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	272.9	348.1	297.3	01.4	01.5	01.4	01.3	01.4	01.4	34.63	34.66	34.64
2	198.9	272.1	234.3	01.3	01.5	01.4	01.3	01.5	01.4	34.59	34.63	34.62
3	146.8	198.8	175.5	00.7	01.3	01.1	00.6	01.3	01.1	34.45	34.59	34.54
4	99.4	146.2	124.5	-01.0	00.6	00.0	-01.0	00.6	00.0	34.15	34.44	34.32
5	71.8	99.6	83.7	-01.3	-00.7	-01.0	-01.3	-00.7	-01.0	34.04	34.14	34.10
6	48.9	72.8	61.7	-01.4	-00.8	-01.1	-01.4	-00.8	-01.1	33.72	34.07	33.88
0	-00.9	354.6	131.7	-01.8	50.0	06.4	-01.8	50.0	06.4	00.03	34.66	29.83
7	25.1	49.1	36.7	-00.8	-00.8	-00.8	-00.8	-00.8	-00.8	33.70	33.72	33.72
8	00.5	25.3	09.8	-00.8	-00.8	-00.8	-00.8	-00.8	-00.8	28.78	33.72	33.63

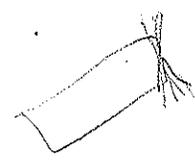
  

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	27.72	27.75	27.73	00.05	00.06	00.05	00.24	00.33	00.28	03.9	04.0	04.0
2	27.69	27.72	27.71	00.05	00.05	00.05	00.25	00.32	00.28	03.9	04.0	04.0
3	27.63	27.70	27.67	00.05	00.05	00.05	00.25	00.33	00.29	04.0	04.3	04.1
4	27.46	27.62	27.56	00.05	00.05	00.05	00.25	00.32	00.29	04.3	06.0	04.9
5	27.38	27.46	27.43	00.05	00.07	00.06	00.25	00.32	00.28	05.8	06.4	06.0
6	27.10	27.41	27.25	00.06	00.10	00.08	00.26	00.38	00.32	06.2	07.4	06.9
0	-11.91	27.75	22.49	00.00	07.63	01.05	00.00	00.80	00.31	-00.2	14.8	05.0
7	27.09	27.11	27.10	00.10	00.10	00.10	00.29	00.38	00.34	07.4	07.5	07.5
8	23.11	27.11	27.04	00.08	15.13	00.54	00.23	00.39	00.35	06.8	08.0	07.5

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	37.0	89.0	49.6	01.4	02.0	01.7	-14.0	21.0	05.5	00206	00606
2	40.0	89.0	50.2	01.7	02.0	01.8	-02.9	12.8	04.4	00254	00796
3	40.0	89.0	49.4	01.4	02.3	01.8	-07.8	11.6	03.8	00199	00655
4	39.0	89.0	49.2	01.4	02.0	01.7	-03.0	11.9	03.8	00193	00578
5	38.0	89.0	48.9	01.4	02.0	01.6	-06.5	11.3	04.1	00095	00284
6	37.0	81.0	48.9	01.4	02.0	01.7	00.4	12.3	04.7	00073	00219
0	00.0	89.0	53.6	00.0	02.6	01.2	-34.4	11.0	-16.7	00315	00782
7	39.0	86.0	51.6	01.7	02.0	01.9	00.0	09.8	04.2	00085	00268
8	36.0	84.0	51.8	01.1	02.3	01.9	-03.1	08.6	02.8	00134	00429

# MOCNESS Data Sheet (NBP01-03)



Std. Station No. 15

Tow No. 4

Date (YY/MM/DD): 01/05/02

Filename (raw) M-04-001

Filename (processed) M-04-001

### Net information

Net size: 1m <sup>2</sup>	Net Condition OK NR was not been
Net Mesh: 335 μm	working

### Start

### End

Location (Lat/Lon) 67 3.635, 69° 9.809	Location (Lat/Lon) 67 1.026, 69 16.76
Time (Local) 1742	Time (GMT) 2142
Time (Local) 19:23	Time (GMT) 23:25
MOCNESS Battery Voltage 19.2 V	MOCNESS Battery Voltage 19.0

### Environmental parameters

Wind (Speed/direction) 7 kt / ~200°	Sea State Swells
Clouds yes	Light no
Air temp -2.0°C, -7.8°C wind chill	SST -0.267

Stoke on

### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	0-350	0	2142	352	2200	170	762	
1	350-275	350	2200	274	2215	156	593	DID WIERD N TO NO PATTERN
2	275-200	274	2215	200.7	2232	203	757	NO NR
3	200-150	200	2232	149.8	2245	161	650	NO NR yes &
4	150-100	149.8	2245	99.8	2258	142	574	NO NR
5	100-75	99.8	2258	73.5	2305	69	276	NO NR
6	75-50	73.5	2305	4305(?)	2310			NR!!
7	50-25		2310	25	2316	70	268	NR!!
8	25-0	25	2316	0.7	2325	111	429	NR

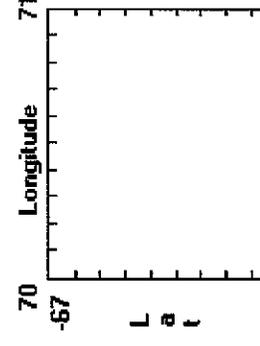
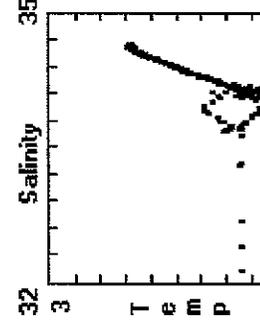
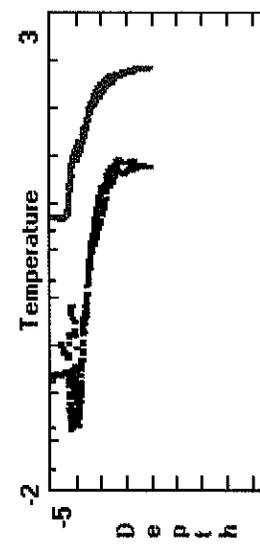
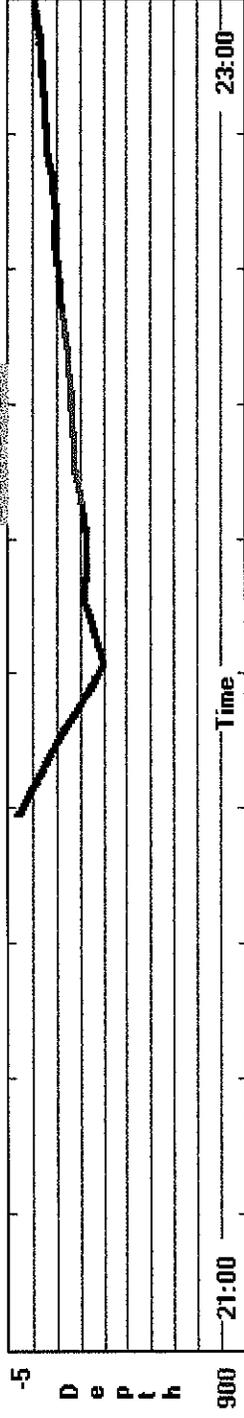
ONR TO get FLOW

Stoke on @ end of tow

Comments: Checked Stoke battery. pre-launch check all worked including net, console.  
sucked fishnet 9 @ 10 m/min!

Environmental Parameters		Net Operation		Net - Ship Position		Program Settings	
Time	23:25:14	Net_Num	9	Latitude	67S 1.0298'	Freset	
Pressure	0.7 m	OpenTime	0.0 min	Longitude	69W 16.74	Baud Rate	2400
Temp	-0.8 C	Vol_Filtered	4.9 m3	Net_Dist	13.0 m	Sample Rate	4.0 sec
Salinity	33.71 o/oo	Angle	48 deg	Total_Dist	6427.5 m	Printer	Off
Density	27.104	Flow_Counts	1	Processed File Name	C:\MOCKNESS\MOCDATA\M_04_001.PRO		
Oxygen	6.78 ml/l	Hor_Vel	0.6 kts	Raw File Name	C:\MOCKNESS\MOCDATA\M_04_001.raw		
Fluoresc.	1.1666 V	Vert_Vel	-0.4 m/min				
LightXmis	0.2301 /m	Battery					

Step 5 TBD Net  Increment Net#  Strobe On  Strobe Off  Pause Acqui End Acqui



M-01-005  
 03 May 2000  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	297.0	397.7	339.5	01.3	01.4	01.4	01.3	01.4	01.4	34.65	34.68	34.67
2	198.9	296.2	243.8	01.1	01.4	01.3	01.1	01.4	01.3	34.56	34.65	34.62
0	11.5	402.6	202.1	-01.6	01.4	00.6	-01.6	01.4	00.6	00.64	34.69	34.27
3	149.5	199.6	176.5	00.7	01.1	00.9	00.7	01.1	00.9	34.46	34.57	34.52
4	100.8	148.8	122.8	-01.5	00.6	-00.2	-01.5	00.6	-00.2	34.09	34.46	34.30
5	74.7	99.5	85.0	-01.6	-01.1	-01.3	-01.6	-01.1	-01.3	33.92	34.11	34.04
6	50.7	73.6	61.3	-00.9	-00.7	-00.7	-00.9	-00.7	-00.7	33.69	33.84	33.72
7	24.3	50.4	38.9	-00.7	-00.7	-00.7	-00.7	-00.7	-00.7	33.71	33.72	33.72
8	00.4	23.5	06.4	-00.7	-00.7	-00.7	-00.7	-00.7	-00.7	32.13	33.72	33.69

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	27.74	27.77	27.75	00.06	00.07	00.06	00.25	00.33	00.29	04.0	04.2	04.0
2	27.69	27.74	27.72	00.06	00.07	00.06	00.26	00.32	00.29	04.0	04.1	04.0
0	00.38	27.77	27.48	00.00	00.12	00.07	00.00	00.40	00.29	-00.2	50.0	05.3
3	27.63	27.69	27.67	00.06	00.07	00.06	00.25	00.33	00.29	04.1	04.3	04.2
4	27.43	27.63	27.55	00.06	00.08	00.07	00.25	00.33	00.29	04.3	06.5	05.0
5	27.28	27.45	27.39	00.07	00.11	00.09	00.27	00.41	00.33	06.4	06.7	06.5
6	27.08	27.21	27.10	00.11	00.12	00.12	00.31	00.41	00.35	06.7	07.6	07.5
7	27.09	27.10	27.10	00.12	00.16	00.12	00.31	00.40	00.35	07.5	07.6	07.6
8	25.82	27.10	27.08	00.00	21.11	01.53	00.31	00.45	00.36	06.5	08.2	07.5

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	37.0	66.0	48.2	01.4	02.3	01.9	-04.3	21.0	07.2	00210	00679
2	44.0	67.0	49.5	01.7	02.3	02.1	03.3	16.3	09.6	00153	00517
0	37.0	89.0	53.7	00.9	12.8	01.4	-31.5	02.8	-19.3	00311	01021
3	44.0	77.0	50.7	01.7	02.3	02.0	-06.7	12.3	04.4	00163	00549
4	44.0	70.0	49.9	01.7	02.3	02.0	-04.3	11.7	05.3	00136	00462
5	43.0	69.0	50.9	01.7	02.3	01.9	-05.1	11.9	03.3	00121	00403
6	44.0	86.0	49.9	01.7	02.3	01.9	-01.2	09.2	03.9	00091	00312
7	45.0	67.0	51.0	01.7	02.3	02.0	01.4	09.6	05.3	00073	00247
8	43.0	79.0	56.6	01.7	02.6	02.3	-02.4	09.4	03.5	00106	00360

10 m/min for 50 m Zs  
5 m/min for 25 m Zs  
except net 8

### MOCNESS Data Sheet (NBP01-03)

Std. Station No. 19

Tow No. 5

Date (YY/MM/DD): 01/05/03

Filename (raw) M-05-001.raw

Filename (processed) M-05-001.pro

#### Net information

Net size: 1m <sup>2</sup>	Net Condition <i>good, all sensors</i>
Net Mesh: 335 μm	<i>+systems</i>

#### Start

#### End

Location (Lat/Lon) <i>66 49.65 7130.44</i>	Location (Lat/Lon) <i>66 47.10871 35.66</i>
Time (Local) <i>1727</i>	Time (GMT) <i>2127</i>
MOCNESS Battery Voltage <i>19.3 V</i>	MOCNESS Battery Voltage <i>18.9 V</i>

#### Environmental parameters

Wind (Speed/direction) <i>20-25 kts, 300° T</i>	Sea State
Clouds <i>low + thick</i>	Light <i>dark</i>
Air temp <i>-0.3°C / -17.8°C wind chill</i>	SST <i>-0.676</i>

*Strobe on*

#### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	0-400	0	2127	401	2117	197	10165	NO NR
1	400-300	400	2147	300	2202	163	653.4	NO NR
2	300-200	300	2202	200	2212	139	509.7	YES NR
3	200-150	200	2212	149.5	2223			YES NR
4	150-100	149.5	2223	100	2232	119	459	YES NR
5	100-75	100	2232	74	2241	102	403	YES NR
6	75-50	74	2241	49	2247	78	308	YES NR
7	50-25	49	2247	24	2252	65	246	YES NR
8	25-0	24	2252	0	2259		359.6	YES NR

*Strobe on at end*

#### Comments:

*net steps seem awfully fast. It seems like maybe it's stuck on step 3*

**MOCKNESS - [Data Acquisition and Control System]**

Acquisition Status Hardware Setup Runtime Options EOI Setup Capture Screen About

**Environmental Parameters**

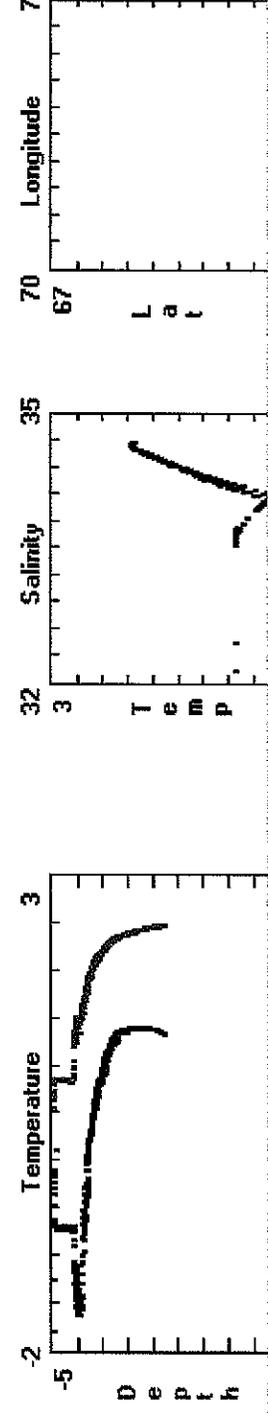
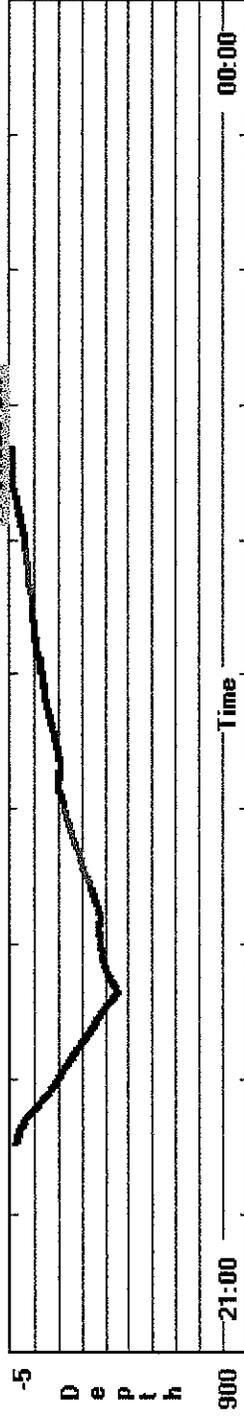
**Net Operation**

**Net - Ship Position**

**Program Settings**

Time	23:00:25	Net_Num	9	Latitude	66S 47.078	Reset
Pressure	0.6 m	OpenTime	1 min	Longitude	71W 35.71	Baud Rate
Temp	-0.14 C	Vol_Filtered	50 Steps	Net_Dist	85.0 m	Sample Rate
Salinity	0.05 o/oo	Angle	12 deg	Total_Dist	6161.1 m	Printer
Density	-0.126	Flow_Counts	8	Processed File Name	C:\MOCKNESS\MOCDATA\NBPO1~2\M-05_001.PR	
Oxygen	8.42 ml/l	Hor_Vel	1.4 kts	Raw File Name	C:\MOCKNESS\MOCDATA\NBPO1~2\M-05_001.ra	
Fluoresc.	1.0654 V	Vert_Vel	-0.2 m/min	###MN-13 00 12 1139 02332 0183 873940 866433 189M:1		
LightXmis	1.9875 /m	Battery		\$6PGLL.6647.0785.S.07135.7139.W.230001.582		

Scribe On
  Scribe Off



M-06-001  
 04 May 2000  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	-00.1	1000.6	875.5	00.3	01.5	01.4	00.3	01.5	01.4	00.00	50.00	34.00
2	-00.1	793.8	528.5	00.3	01.7	01.2	00.3	01.6	01.2	00.00	34.69	26.09
3	00.1	593.5	371.7	00.3	01.8	01.3	00.3	01.8	01.3	00.00	34.69	25.98
4	197.0	397.4	296.2	01.4	01.8	01.8	01.3	01.8	01.7	34.53	34.67	34.63
5	100.1	196.6	143.8	-01.0	01.4	00.4	-01.0	01.3	00.4	34.14	34.53	34.36
6	49.0	101.5	82.1	-01.4	-00.9	-01.1	-01.4	-00.9	-01.1	33.68	34.15	34.00
7	21.8	48.9	35.9	-00.9	-00.9	-00.9	-00.9	-00.9	-00.9	33.70	33.71	33.71
8	00.7	20.0	08.1	-00.9	-00.9	-00.9	-00.9	-00.9	-00.9	33.70	33.71	33.71
0	-02.3	1004.7	442.1	-01.4	01.9	01.1	-01.5	01.9	01.1	00.00	34.70	31.38

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	-00.14	40.22	27.21	00.03	04.86	00.05	00.25	00.41	00.28	04.2	08.0	04.2
2	-00.14	27.77	20.88	00.03	05.61	00.04	00.25	00.43	00.22	04.1	07.9	03.2
3	-00.13	27.75	20.78	00.04	06.36	00.05	00.25	00.44	00.22	04.0	06.8	03.1
4	27.64	27.72	27.69	00.04	00.04	00.04	00.24	00.32	00.29	03.8	04.0	03.9
5	27.46	27.64	27.57	00.04	00.05	00.04	00.24	00.32	00.29	04.0	06.2	04.8
6	27.08	27.46	27.35	00.05	00.08	00.06	00.27	00.35	00.31	06.2	07.6	06.8
7	27.10	27.11	27.10	00.06	00.10	00.07	00.28	00.36	00.32	07.5	07.7	07.6
8	27.09	27.11	27.10	00.06	11.59	00.91	00.29	00.37	00.32	07.0	07.8	07.6
0	-00.14	27.78	25.12	00.00	35.86	00.47	00.00	01.22	00.28	-00.2	50.0	04.4

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	22.0	58.0	31.7	00.0	00.0	00.0	-00.6	20.8	13.1	00235	00000
2	31.0	77.0	30.0	00.0	00.0	00.0	-01.0	20.2	08.5	00351	00000
3	33.0	60.0	31.1	00.0	00.0	00.0	-00.6	19.8	09.8	00299	00000
4	38.0	78.0	45.2	00.0	00.0	00.0	-02.3	15.7	08.2	00367	00000
5	39.0	74.0	45.8	00.0	00.0	00.0	02.1	14.9	09.1	00161	00000
6	25.0	89.0	39.3	00.0	00.0	00.0	-03.2	13.9	05.9	00128	00000
7	24.0	80.0	37.5	00.0	00.0	00.0	-02.2	10.7	04.1	00095	00000
8	39.0	87.0	53.7	00.0	00.0	00.0	-00.4	12.5	07.1	00047	00000
0	00.0	88.0	41.6	00.0	09.1	00.5	-38.8	05.5	-23.6	00638	01000

*Flowmeter  
not working*

<u>Net #</u>	<u>m3</u>	<u>wt</u>
0.0000000e+00	2.2967858e+03	2296 0
1.0000000e+00	1.0291014e+03	1029 1
2.0000000e+00	1.4511532e+03	1457 2
3.0000000e+00	1.3163211e+03	1316 3
4.0000000e+00	1.5766326e+03	1577 4
5.0000000e+00	6.8480916e+02	684.9 5
6.0000000e+00	4.6918021e+02	469.2 6
7.0000000e+00	3.7046907e+02	370.5 7
8.0000000e+00	1.9280167e+02	192.8 8

Volume Filtered  
For NBPO103

MOC 6

# MOCNESS Data Sheet (NBP01-03)

Std. Station No. 22

Tow No. 6

Date (YY/MM/DD): 5/4/01

Filename (raw) M-06-001.PRO

Filename (processed) M-06-001.PRO

### Net information

Net size: 1m <sup>2</sup>	Net Condition <u>whole</u>
Net Mesh: 335 μm	

Start		End	
Location (Lat/Lon)	<u>66 40.166 73 22.08</u>	Location (Lat/Lon)	<u>66 36.34 73 23.36</u>
Time (Local)	<u>1332</u>	Time (GMT)	<u>1732</u>
		Time (Local)	<u>1555</u>
		Time (GMT)	<u>1955</u>
MOCNESS Battery Voltage	<u>19.4V</u>	MOCNESS Battery Voltage	<u>18.6</u>

DEPTH 3639

### Environmental parameters PAR 981

Wind (Speed/direction)	Sea State <u>MOD</u>
Clouds <u>overcast</u>	Light <u>65.8 PAR</u>
Air temp <u>0.1 C</u>	SST <u>-0.5</u>

### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<u>0-1000</u>	<u>0</u>	<u>1732</u>	<u>1001.6</u>	<u>1810</u>	<u>SUSPCT 152</u>	<u>? NOT 100%?</u>	<u>NO NET REASON</u>
1	<u>1000-800</u>	<u>1001.6</u>	<u>1810</u>	<u>800.7</u>	<u>1825.53</u>	<u>0</u>	<u>X</u>	<u>NO NET REASON</u>
2	<u>800-600</u>	<u>800.7</u>	<u>1825</u>	<u>600.2</u>	<u>1843</u>	<u>0</u>	<u>X</u>	<u>NO NET REASON</u>
3	<u>600-400</u>	<u>600.2</u>	<u>1843</u>	<u>400.6</u>	<u>1858</u>	<u>0</u>	<u>X</u>	<u>NO NET REASON</u>
4	<u>400-200</u>	<u>400.8</u>	<u>1858</u>	<u>198.0</u>	<u>1923</u>	<u>0</u>	<u>X</u>	<u>NO NET REASON</u>
5	<u>200-100</u>	<u>198.0</u>	<u>1923</u>	<u>100.9</u>	<u>1934</u>	<u>0</u>	<u>X</u>	<u>NO NET REASON</u>
6	<u>100-50</u>	<u>100.9</u>	<u>1934</u>	<u>46.9</u>	<u>1942</u>	<u>0</u>	<u>X</u>	<u>NO NET REASON</u>
7	<u>50-25</u>	<u>46</u>	<u>1942</u>	<u>25.5</u>	<u>1949</u>	<u>0</u>	<u>X</u>	<u>NO NET</u>
8	<u>25-0</u>	<u>25.0</u>	<u>1949</u>	<u>1.0</u>	<u>1952</u>	<u>0</u>	<u>X</u>	<u>NO NET</u>

FLOW METER STOPPED ? 149 comb very slow.

STROBE OFF

Comments: AT 30 → 40 ⇒ 22 m/min

CAP SCR  
END ACQUI

STOP AT 1000 STROBE ON GO TO 15 m/min W/NET!

STEP STRO NET

ANGLE ≈ 45  
DUMP OUT WIRE TO SINK

TENSION 1800

506 1.7 ADLP 0.8 → 1.1 1.4

15-10-15

WIRE 30-40 regular

PHOT  
21380  
1136  
900  
673  
315  
149  
68.2  
25

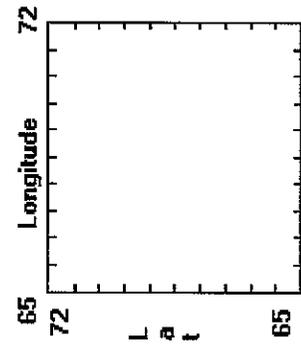
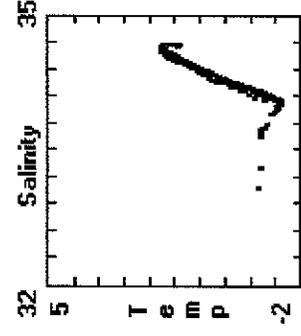
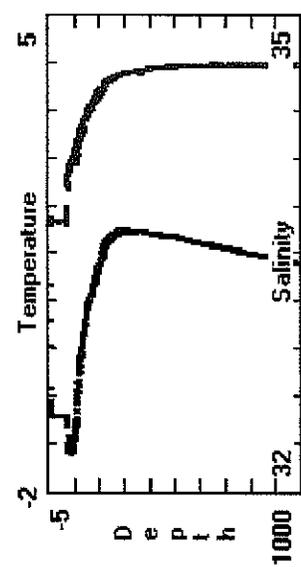
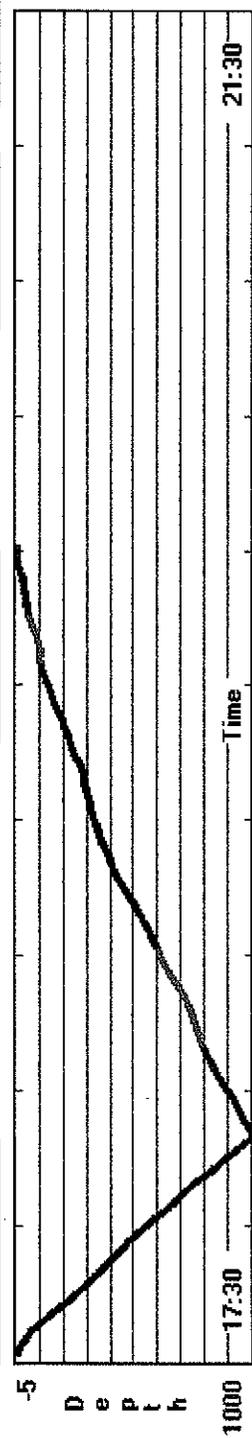
**MOCNESS - [Data Acquisition and Control System]**

Acquisition Status Hardware Setup Runtime Options Edit Setup Capture Screen About

**Environmental Parameters      Net Operation      Net - Ship Position      Program Settings**

Time	19:55:04	Net_Num	9	Latitude	66S 36.311	<input type="button" value="Reset"/>	
Pressure	0.8 m	OpenTime	2.4 min	Longitude	73W 23.35	Baud Rate	2400
Temp	-0.85 C	Vol_Filtered	0.0 m3	Net_Dist	139.8 m	Sample Rate	4.0 sec
Salinity	30.66 o/oo	Angle	32 deg	Total_Dist	7366.4 m	Printer	Off
Density	24.63	Flow_Counts	0	Processed File Name	C:\MOCNESS\MOCDATA\NBPO1~2\AM_06_001.P		
Oxygen	7.12 ml/l	Hor_Vel	0.0 kts	Raw File Name	C:\MOCNESS\MOCDATA\NBPO1~2\AM_06_001.ra		
Fluoresc.	0.2868 V	Vert_Vel	0.0 m/min	Acquisition Ended. tsys = 0			
LightXmis	1.5204 /m	Battery	<input type="checkbox"/>	<input type="button" value="Pause Acq"/> <input type="button" value="End Acq"/>			

Step 5100 Net



M-07-001  
 05 May 2000  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	-00.6	396.3	332.4	-00.4	01.3	01.2	-00.4	01.3	01.2	00.01	34.67	32.35
2	295.1	320.8	309.0	01.3	01.3	01.3	01.3	01.3	01.3	34.63	34.65	34.64
3	195.3	293.7	254.2	00.8	01.3	01.2	00.8	01.3	01.2	34.51	34.64	34.60
4	149.0	194.5	171.7	00.1	00.8	00.5	00.1	00.8	00.5	34.34	34.51	34.44
5	95.3	149.2	124.3	-01.1	00.1	-00.4	-01.1	00.1	-00.4	34.08	34.35	34.22
6	74.0	94.8	83.5	-01.5	-01.1	-01.3	-01.5	-01.1	-01.3	33.99	34.08	34.03
7	47.1	73.8	57.8	-01.5	-00.7	-00.8	-01.5	-00.7	-00.8	33.70	33.99	33.75
8	24.1	49.0	38.5	-00.8	-00.7	-00.7	-00.8	-00.7	-00.7	33.69	33.70	33.70
9	00.6	24.5	08.8	-00.8	-00.7	-00.8	-00.8	-00.7	-00.8	17.18	33.70	33.17
9	00.6	24.5	08.8	-00.8	-00.7	-00.8	-00.8	-00.7	-00.8	17.18	33.70	33.17

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	-00.18	27.76	25.90	00.00	00.24	00.21	00.23	00.41	00.27	03.9	07.2	03.8
2	27.73	27.74	27.74	00.22	00.24	00.23	00.25	00.31	00.28	04.0	04.0	04.0
3	27.66	27.73	27.71	00.22	00.24	00.23	00.25	00.33	00.29	04.0	04.2	04.0
4	27.57	27.66	27.62	00.23	00.26	00.24	00.25	00.34	00.29	04.1	04.7	04.4
5	27.41	27.57	27.50	00.24	00.26	00.25	00.25	00.34	00.30	04.6	05.9	05.2
6	27.35	27.41	27.38	00.26	00.34	00.29	00.31	00.47	00.37	05.8	06.4	06.1
7	27.08	27.35	27.14	00.35	00.43	00.40	00.45	00.75	00.57	06.3	07.6	07.3
8	27.08	27.09	27.09	00.35	00.40	00.38	00.44	00.67	00.53	07.5	07.6	07.6
9	13.74	27.09	26.66	00.12	10.64	01.10	00.15	04.32	00.68	06.4	08.6	07.5
9	13.74	27.09	26.66	00.12	10.64	01.10	00.15	04.32	00.68	06.4	08.6	07.5

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol	no
1	33.0	82.0	42.7	00.0	00.0	00.0	-01.1	13.8	05.4	00210	00000	>
2	37.0	68.0	45.0	00.0	00.0	00.0	03.2	14.3	07.8	00046	00000	no results
3	36.0	86.0	46.2	00.0	00.6	00.0	-04.3	17.4	07.4	00204	00009	X
4	39.0	88.0	46.5	00.0	00.3	00.1	-01.0	11.7	06.7	00104	00015	X
5	32.0	80.0	45.1	00.0	01.7	01.0	-02.6	12.1	05.0	00156	00299	X
6	34.0	69.0	44.0	01.1	01.7	01.3	03.3	16.0	08.1	00041	00099	?
7	36.0	83.0	47.1	01.1	02.0	01.7	-00.6	14.1	07.4	00054	00160	✓
8	40.0	84.0	49.6	01.7	02.0	01.8	-02.4	11.3	03.7	00087	00274	✓
9	37.0	76.0	53.1	00.3	02.3	02.0	-01.4	11.9	04.8	00080	00241	✓
9	37.0	76.0	53.1	00.3	02.3	02.0	-01.4	11.9	04.8	00080	00241	✓

vol no: 434.7  
 no results

## MOCNESS Data Sheet (NBP01-03)

Std. Station No. 25

Tow No. 7

Date (YY/MM/DD): 01/05/05

Filename (raw)

Filename (processed)

### Net information

Net size: 1m <sup>2</sup>	Net Condition <i>good</i>
Net Mesh: 335 μm	<i>rotated T-prov, cage bent</i>

Start

*Bottom 22465*

End

Location (Lat/Lon) <i>67 19.865 71 17.8012</i>		Location (Lat/Lon) <i>67 19.18 71 24.69</i>	
Time (Local) <i>1123</i>	Time (GMT) <i>1523</i>	Time (Local) <i>1253</i>	Time (GMT) <i>1653</i>
MOCNESS Battery Voltage <i>19.2 V</i>		MOCNESS Battery Voltage	

### Environmental parameters

Wind (Speed/direction) <i>21 kt, 200°</i>	Sea State <i>10' swells</i>
Clouds <i>clear</i>	Light <i>SUNNY</i>
Air temp <i>-1.0°C</i>	SST <i>-0.685</i>

*bottom 2-460*

### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<i>0-400</i>	<i>0</i>	<i>1523</i>	<i>STROBE!! 400</i>	<i>1544</i>	<i>103</i>	<i>435</i>	<i>NO NR</i>
1	<i>400-300</i>	<i>400</i>	<i>1544</i>	<i>300</i>	<i>1559</i>	<i>0</i>	<i>0</i>	<i>Flow meter not working</i>
2	<i>300-200</i>	<i>300</i>	<i>1559</i>	<i>200</i>	<i>1613</i>	<i>0</i>	<i>0</i>	<i>WO 1313</i>
3	<i>200-150</i>	<i>200</i>	<i>1613</i>	<i>150</i>	<i>1620</i>	<i>0</i>	<i>0</i>	<i>245</i>
4	<i>150-100</i>	<i>150</i>	<i>1620</i>	<i>100</i>	<i>1631</i>	<i>0</i>	<i>0</i>	<i>135</i>
5	<i>100-75</i>	<i>100</i>	<i>1631</i>	<i>75</i>	<i>1634</i>	<i>23</i>	<i>99</i>	<i>107</i>
6	<i>75-50</i>	<i>75</i>	<i>1634</i>	<i>49</i>	<i>1637</i>		<i>159</i>	<i>81</i>
7	<i>50-25</i>	<i>49</i>	<i>1637</i>	<i>25</i>	<i>1643</i>	<i>69</i>	<i>266</i>	
8	<i>25-0</i>	<i>25</i>	<i>1643</i>	<i>0</i>	<i>1649</i>	<i>0</i>	<i>0</i>	<i>0</i>

\* MWO 478

Stroke on

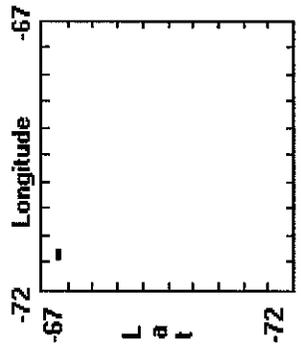
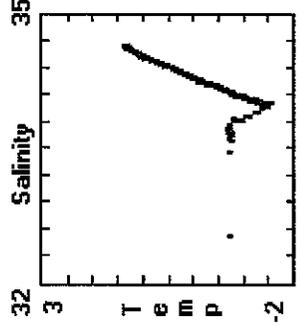
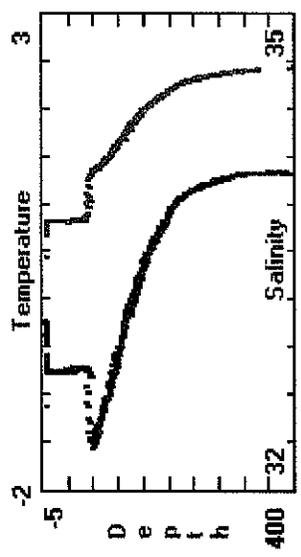
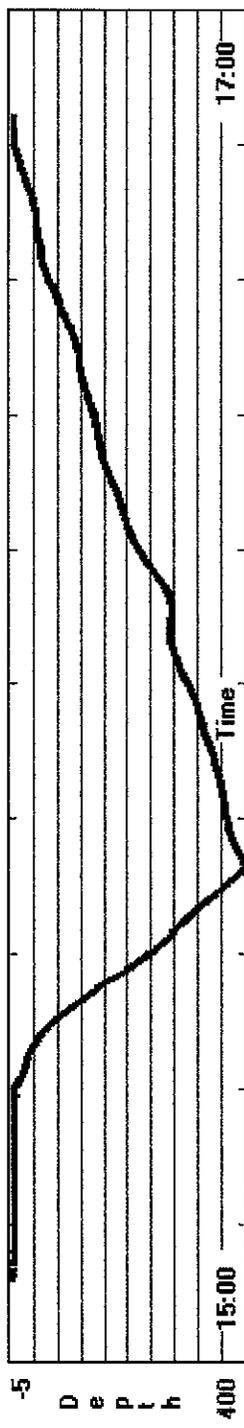
**Comments:**

*\*Flow meter not working when reset net/flow/vol. Flow is much lower than previous 0-400m, I suspect that this is a toolow.*

Environmental Parameters      Net Operation      Net - Ship Position      Program Settings

Time	16:50:40	Net_Num	1	Latitude	67S 19.184
Pressure	0.7 m	OpenTime	0.9 min	Longitude	71W 24.68
Temp	-0.57 C	Vol_Filtered	5.1 m3	Net_Dist	46.2 m
Salinity	0.25 o/oo	Angle	0 deg	Total_Dist	6034.5 m
Density	0.006	Flow_Counts	1	Processed	None
Oxygen		Hor_Vel	0.0 kts	File Name	C:\MOCNES\MOCDATA\NBPO1~2\M_07_001.R
Fluoresc.		Vert_Vel	0.0 m/min	Raw File Name	
LightXmis		Battery		Acquisition Ended. trys = 0	

Step 518D Net      Increment Net      Pause Acqui      End Acqui



moc 8

M-07-001

05 May 2000

RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	219.3	316.0	261.8	00.8	01.3	01.0	00.8	01.2	01.0	34.49	34.61	34.55
2	137.9	218.3	168.5	-00.9	00.8	00.1	-00.9	00.8	00.1	34.14	34.49	34.33
3	123.0	147.4	134.5	-01.1	-00.6	-00.9	-01.1	-00.6	-00.9	34.07	34.19	34.11
4	97.3	123.2	109.6	-00.6	00.0	-00.4	-00.6	00.0	-00.4	33.96	34.08	34.03
5	71.3	97.9	84.9	-00.2	00.2	00.0	-00.2	00.2	00.0	33.69	33.97	33.87
6	48.8	70.6	59.4	-00.3	-00.1	-00.3	-00.3	-00.1	-00.3	33.57	33.70	33.67
7	24.5	49.4	37.9	-00.3	-00.2	-00.3	-00.3	-00.2	-00.3	33.66	33.69	33.67
8	00.6	27.6	13.0	-00.3	-00.3	-00.3	-00.3	-00.3	-00.3	27.78	33.66	33.48
0	-00.7	309.8	125.1	-01.0	01.6	00.2	-01.0	01.6	00.2	00.01	34.61	31.95

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	27.65	27.72	27.68	00.23	00.24	00.23	00.23	00.31	00.28	04.0	04.2	04.1
2	27.45	27.65	27.56	00.23	00.24	00.23	00.24	00.32	00.29	04.2	06.0	04.8
3	27.38	27.48	27.43	00.23	00.24	00.23	00.26	00.32	00.29	05.6	06.2	06.0
4	27.27	27.39	27.35	00.24	00.26	00.25	00.25	00.33	00.29	05.9	06.0	06.0
5	27.05	27.28	27.19	00.25	00.27	00.26	00.26	00.36	00.30	06.0	07.2	06.4
6	26.96	27.06	27.04	00.26	00.28	00.27	00.30	00.37	00.33	07.3	07.5	07.4
7	27.04	27.06	27.05	00.26	00.27	00.26	00.29	00.37	00.33	07.3	07.5	07.4
8	22.29	27.04	26.90	00.27	13.56	01.13	00.30	00.45	00.34	06.8	08.1	07.5
0	-00.16	27.72	25.63	00.00	40.26	00.47	00.00	00.42	00.30	-00.1	29.5	06.0

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	41.0	89.0	52.2	01.4	02.6	02.0	-15.8	32.0	06.6	00188	00585
2	37.0	89.0	53.1	01.1	02.3	01.9	-14.5	18.0	04.0	00278	00858
3	34.0	84.0	43.3	01.4	02.0	01.6	03.1	18.2	11.4	00031	00086
4	39.0	83.0	49.9	01.4	02.0	01.7	-02.4	13.5	07.0	00053	00149
5	38.0	67.0	47.2	01.4	02.3	01.8	03.1	14.3	10.0	00038	00116
6	45.0	71.0	52.4	02.0	02.6	02.1	04.3	12.5	09.4	00036	00117
7	47.0	89.0	55.6	02.0	02.6	02.2	00.0	12.5	06.6	00056	00181
8	45.0	89.0	57.7	01.7	03.1	02.3	-05.3	16.8	04.9	00074	00237
0	12.0	89.0	60.5	00.0	10.8	01.7	-43.9	01.3	-16.8	00274	01012

must be up by  
1230 gmt

MOCNESS Data Sheet (NBP01-03)

Std. Station No. 028 (Globe) Tow No. 8  
 Date (YY/MM/DD): 01050 should be 01/04/05  
 Filename (raw) M\_08\_001 Filename (processed) M\_08-001

Net information

Net size: 1m <sup>2</sup>	Net Condition <u>see comments</u>
Net Mesh: 335 μm	

Start		End	
Location (Lat/Lon) <u>68°04.384 / 69°25'08"</u>	Location (Lat/Lon) <u>68°01.6 / -69°25'10"</u>		
Time (Local) <u>0700</u>	Time (GMT) <u>1100</u>	Time (Local) <u>0830</u>	Time (GMT) <u>1230</u>
MOCNESS Battery Voltage <u>19.2 Vdc</u>		MOCNESS Battery Voltage <u>18.7 Vdc</u>	

Environmental parameters

Wind (Speed/direction) <u>29/35 / 030T</u>	Sea State <u>Moderate</u>
Clouds <u>SNOWING</u>	Light <u>none</u>
Air temp <u>-0.4 C</u>	SST <u>0.1730 C</u>

Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<u>0-300</u>	<u>000</u>	<u>1100</u>	<u>310</u>	<u>1139</u>	<u>207</u>	<u>1002</u>	<u>OK on back</u> ①
1	<u>300-225</u>	<u>310</u>	<u>1125</u>	<u>224</u>	<u>1157</u>	<u>163</u>	<u>535</u>	<u>NO NET</u>
2	<u>225-150</u>	<u>224</u>	<u>1157</u>	<u>145</u>	<u>1207</u>	<u>198</u>	<u>728</u>	<u>No Net response</u>
3	<u>150-125</u>	<u>145</u>	<u>1207</u>	<u>123</u>	<u>1212</u>	<u>34</u>	<u>146</u>	
4	<u>100-75</u>	<u>123</u>	<u>1212</u>	<u>99</u>	<u>1216</u>	<u>39</u>	<u>146</u>	
5	<u>100-75</u>	<u>99</u>	<u>1216</u>	<u>74</u>	<u>1218</u>	<u>31</u>	<u>116</u>	
6	<u>75-50</u>	<u>74</u>	<u>1218</u>	<u>49</u>	<u>1221</u>	<u>34</u>	<u>114</u>	
7	<u>50-25</u>	<u>49</u>	<u>1221</u>	<u>24.8</u>	<u>1225</u>	<u>55</u>	<u>180</u>	
8	<u>25-0</u>	<u>25</u>	<u>1225</u>	<u>0</u>	<u>1230</u>	<u>00 ps</u>	<u>1012?</u>	<u>look in file.</u>

Comments:

Repositioned net response without  
 test on back of  
 Repositioned net response all  
 Repositioned tow Bridge Point  
 as wire was broken

① net #1 went deeper than 300m after 20mys  
 net 2 was ended late with #'s net rest

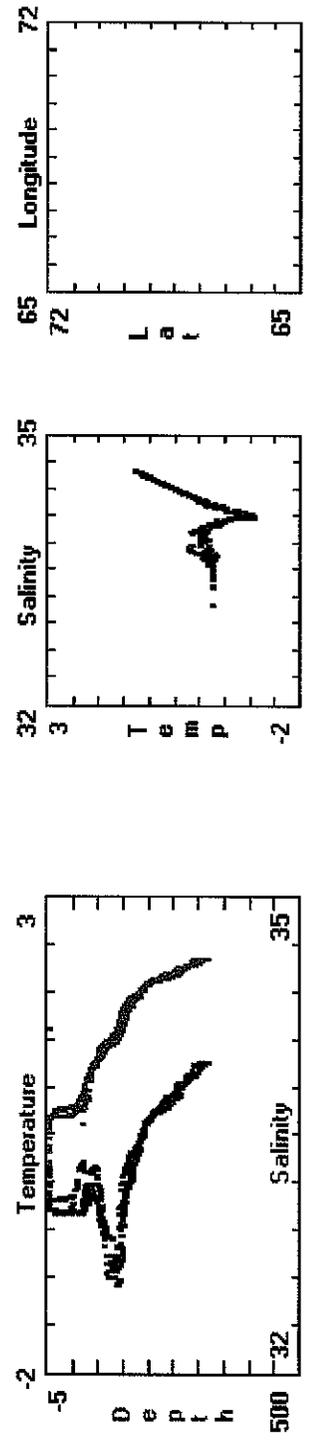
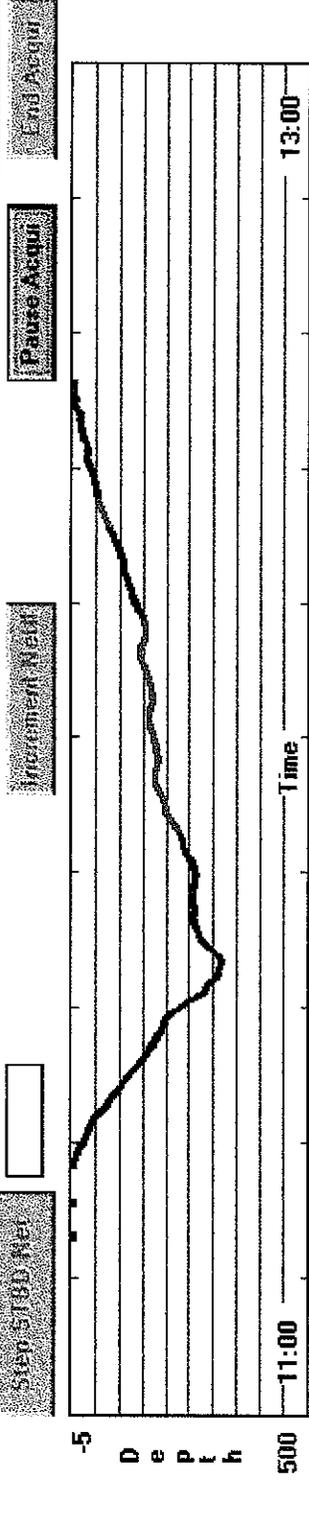
forgot to write these before tripping  
 can get from pro file

Difficult to w. ship said Janguy because  
of high winds > 35 kts

---

④ Net #2 at time of net closure. Part of Net 2 flow  
is really Net 3 flow, operator did not  
net increment Net when Net response  
of #2 did not respond until a bit  
after Net #2 was closed.

Environmental Parameters		Net Operation		Net - Ship Position		Program Settings	
Time	12:31:41	Net_Num	9	Latitude	68S 1.7113'	Repeat	
Pressure	0.7 m	OpenTime	1.3 min	Longitude	69W 25.12	Baud Rate	2400
Temp	0.15 C	Vol_Filtered	100.0 m/s	Net_Dist	65.9 m	Sample Rate	4.0 sec
Salinity	0.04 o/oo	Angle	9 deg	Total_Dist	4746.0 m	Printer	Off
Density	-0.114	Flow_Counts	21	Processed File Name	C:\MOCNESS\MOCDATA\NBPO1~2\M_08_001.P		
Oxygen	8.24 ml/l	Hor_Vel	4.6 kts	Raw File Name	C:\MOCNESS\MOCDATA\NBPO1~2\M_08_001.ra		
Fluoresc.	0.9618 V	Vert_Vel	-0.4 m/min	Acquisition Ended. trys = 0			
LightX/mis	1.1017 /m	Battery					



M-09-001  
 07 May 2001  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
0	-01.0	399.5	222.0	-00.9	01.4	00.5	-00.9	01.4	00.5	00.00	50.00	32.96
2	198.1	298.4	250.6	00.5	01.1	00.9	00.5	01.1	00.9	34.38	34.58	34.51
3	147.5	198.4	172.4	-00.1	00.5	00.2	-00.1	00.5	00.2	34.18	34.37	34.28
4	98.2	147.0	123.1	-00.4	-00.1	-00.2	-00.4	-00.1	-00.3	33.81	34.17	34.04
5	75.3	97.6	86.2	-00.4	-00.1	-00.1	-00.4	-00.1	-00.1	33.52	33.81	33.67
6	49.9	75.6	62.3	-00.5	-00.1	-00.3	-00.5	-00.1	-00.3	33.45	33.54	33.48
7	24.3	49.8	37.2	-00.8	-00.4	-00.6	-00.8	-00.4	-00.6	33.35	33.45	33.38
8	00.8	23.7	11.9	-00.8	-00.7	-00.8	-00.8	-00.7	-00.8	21.33	33.35	33.10
0	-01.0	399.5	222.0	-00.9	01.4	00.5	-00.9	01.4	00.5	00.00	50.00	32.96

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
0	-00.11	40.17	26.43	00.00	01.52	00.19	00.00	00.39	00.28	-00.2	50.0	04.1
2	27.58	27.71	27.66	00.18	00.20	00.19	00.26	00.33	00.29	03.6	03.7	03.7
3	27.44	27.58	27.52	00.17	00.20	00.19	00.23	00.33	00.29	03.7	04.3	03.9
4	27.16	27.44	27.34	00.17	00.21	00.19	00.24	00.33	00.29	04.3	05.5	04.8
5	26.93	27.16	27.04	00.19	00.22	00.20	00.24	00.32	00.29	05.5	07.0	06.4
6	26.87	26.94	26.89	00.19	00.22	00.21	00.27	00.34	00.30	06.9	07.4	07.2
7	26.80	26.87	26.83	00.20	00.22	00.21	00.26	00.34	00.30	07.3	07.6	07.5
8	17.09	26.81	26.61	00.22	04.37	00.34	00.26	00.36	00.30	05.8	07.6	07.5
0	-00.11	40.17	26.43	00.00	01.52	00.19	00.00	00.39	00.28	-00.2	50.0	04.1

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
0	37.0	63.0	49.3	00.0	01.7	01.3	-23.5	01.8	-18.1	00296	00884
2	47.0	54.0	49.3	02.0	02.3	02.1	03.1	09.6	06.7	00226	00806
3	46.0	54.0	48.6	01.7	02.3	02.0	02.3	06.5	04.6	00164	00588
4	46.0	58.0	48.1	01.7	02.3	02.0	02.9	07.4	04.6	00160	00578
5	46.0	54.0	48.7	01.7	02.3	02.0	00.6	06.8	02.5	00137	00493
6	46.0	54.0	49.2	01.7	02.3	02.0	00.2	04.9	02.8	00136	00483
7	48.0	54.0	49.6	01.7	02.0	01.8	00.8	04.7	02.8	00139	00447
8	39.0	66.0	49.4	00.3	02.0	01.7	00.0	05.9	03.1	00117	00347
0	37.0	63.0	49.3	00.0	01.7	01.3	-23.5	01.8	-18.1	00296	00884

MOC #9 B M01-009.raw

MOCNESS Data Sheet (NBP01-03)

Std. Station No. 34 Tow No. 9  
 Date (YY/MM/DD): 5/7/01  
 Filename (raw) MOC01-009.raw Filename (processed) MOC01-009.pro

Net information

Net size: 1m <sup>2</sup>	Net Condition excellent
Net Mesh: 335 µm	

Start

End

Location (Lat/Lon) 68 28.7 68 46.225	Location (Lat/Lon) 68 31.13 S 68 36.91 W
Time (Local) 1654 Time (GMT) 2054	Time (Local) 1845 Time (GMT) 2245
MOCNESS Battery Voltage 18.9	MOCNESS Battery Voltage 18.6V

Environmental parameters

Wind (Speed/direction) 7-8kt, 313°	Sea State calm
Clouds overcast	Light dusk
Air temp 0.7°C	SST -0.965

Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	0-400	0	2054	400	STROBE 2126		352+ 879	NR v!! yay
1	300-400	400	2120	300	2131	146	573	NO NR
2	200-300	300	2131	199.5	2146	209	798	NO NR
3	150-200	199.5	2146	148.1	2158	145	583.5	No NR
4	100-150	148.1	2158	98.7	2208	138	567.3	No NR
5	75-100	98.7	2208	75.1	2217	118	489.4	No NR
6	50-75	75.1	2217	49.9	2227	115	475.0	No NR
7	25-50	49.9	2227	24.3	2236	108	439.2	No NR
8	0-25	24.3	2236	1.0 m	2244	?	347.3	YES or NR

Comments: Net 1 sampled @ 20m/min just when tide was at 400m, bridge called to say bottom might go up to 350-400m so I brought the net up more quickly

Note: 10 krill removed from WP prior to preserv. →

#1	5.4	#9	5.7
#2	5.5	#10	5.4
#3	4.2		
#4	5.5		
#5	5.4		
#6	5.5		
#7	5.3		
#8	5.5		

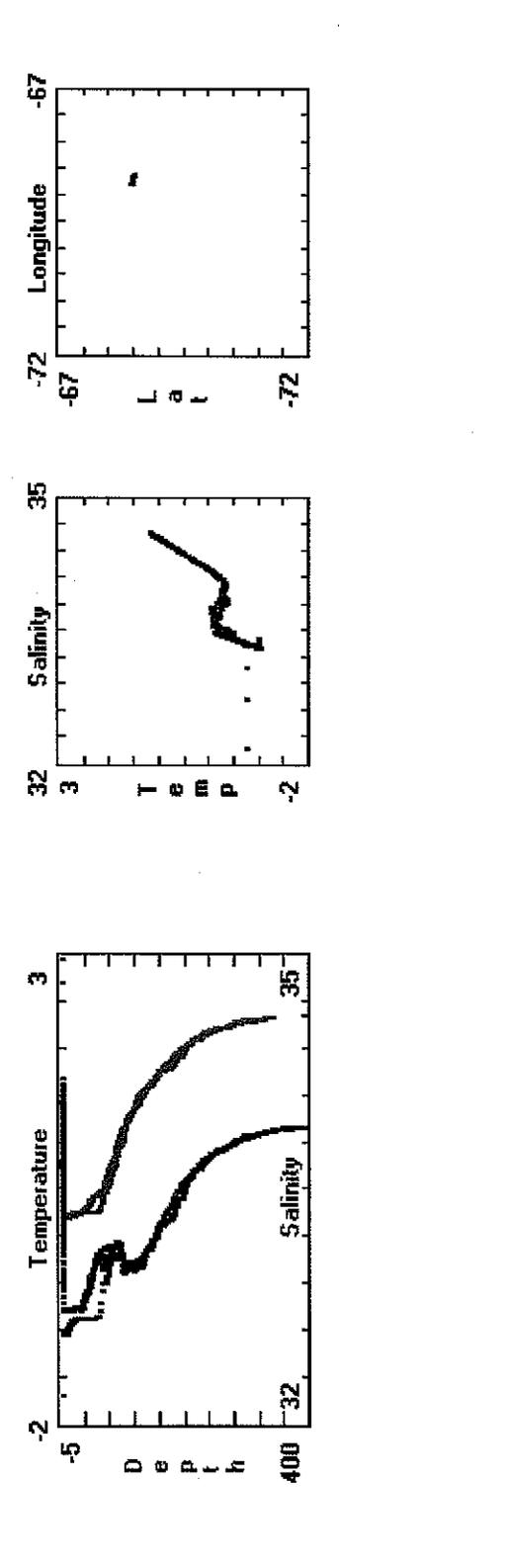
10 krill were removed  
from Net 6 +  
frozen for genetic  
analysis by Ann  
Bucklin.

Standard lengths  
of the krill were  
measured and  
are recorded



Environmental Parameters		Net - Ship Position		Program Settings	
Time	23:12:02	Net_Num	9	Latitude	68S 30.430
Pressure	0.0 m	Open Time	27.8 min	Longitude	68W 39.45
Temp	1.38 C	Vol_Filtered	0.0 m	Net_Dist	2117.5 m
Salinity	0.07 o/oo	Angle	80 deg	Total_Dist	9430.9 m
Density	-0.024	Flow_Counts	0	Processed File Name	C:\MOCNESS\MOCDATA\INBP00-1\M01-009.PR
Oxygen	5.30 ml/l	Hor_Vel	0.0 kts	Raw File Name	C:\MOCNESS\MOCDATA\INBP00-1\M01-009.raw
Fluoresc.	5.2950 V	Vert_Vel	-0.2 m/min	\$\$\$MN-14 00 80 1329 02334 0189 844202 864080 185M:1	
LightXmis	0.6761 /m	Battery		\$GPGLL,6830.4307,S,06839.4579,W,231112.111	

Step STBD Net  
 Increment Net#  
 Strobe On  
 Strobe Off



M-10-001  
 09 May 2000  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	-00.7	989.9	873.5	00.5	01.4	01.3	00.5	01.3	01.2	00.01	34.69	34.00
2	595.2	792.8	696.2	01.4	01.6	01.5	01.3	01.6	01.4	34.69	34.69	34.69
3	399.1	593.3	507.1	01.6	01.9	01.7	01.6	01.8	01.7	34.67	34.69	34.68
4	197.8	397.8	301.3	01.8	01.9	01.9	01.8	01.9	01.9	34.60	34.67	34.64
5	99.0	199.2	152.5	00.8	01.9	01.7	00.8	01.9	01.7	34.38	34.61	34.53
6	50.0	99.4	75.6	-01.5	00.8	-00.8	-01.5	00.8	-00.8	33.73	34.38	34.11
7	23.1	50.5	37.6	-01.2	-01.2	-01.2	-01.2	-01.2	-01.2	33.73	33.74	33.73
8	00.9	22.5	11.8	-01.2	-01.2	-01.2	-01.2	-01.2	-01.2	31.26	33.74	33.65
0	-01.7	999.3	429.0	-01.7	01.8	00.8	-01.7	01.8	00.8	00.01	34.69	32.18

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	-00.12	27.79	27.23	00.16	05.93	00.18	00.25	00.43	00.28	04.3	08.5	04.3
2	27.76	27.78	27.77	00.16	00.17	00.16	00.24	00.33	00.29	04.2	04.3	04.3
3	27.72	27.76	27.74	00.16	00.17	00.17	00.25	00.33	00.29	04.0	04.2	04.1
4	27.66	27.72	27.70	00.17	00.19	00.17	00.24	00.33	00.29	03.8	04.0	03.9
5	27.56	27.67	27.62	00.17	00.18	00.17	00.25	00.32	00.29	03.8	04.5	04.0
6	27.13	27.56	27.42	00.17	00.20	00.18	00.26	00.35	00.30	04.6	07.8	06.2
7	27.13	27.14	27.13	00.20	00.21	00.20	00.29	00.35	00.32	07.6	07.8	07.7
8	25.13	27.14	27.07	00.20	13.27	00.51	00.28	00.79	00.32	07.4	08.3	07.7
0	-00.12	27.79	25.78	00.00	09.57	00.50	00.00	01.31	00.30	-00.2	50.0	05.0

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	32.0	89.0	54.9	00.6	02.9	02.3	-06.5	22.5	08.3	00351	01155
2	49.0	80.0	55.7	02.0	02.9	02.5	-04.5	20.2	11.1	00269	00919
3	50.0	89.0	57.2	02.0	02.9	02.5	-06.5	17.2	07.2	00410	01425
4	49.0	75.0	56.1	02.3	02.9	02.4	-02.5	17.8	08.4	00359	01237
5	48.0	78.0	55.2	02.0	02.6	02.3	-03.5	17.2	07.8	00192	00644
6	45.0	77.0	52.5	01.7	02.3	02.0	-03.5	11.3	05.3	00139	00458
7	43.0	76.0	51.4	01.7	02.3	02.0	-01.4	10.3	05.8	00067	00209
8	43.0	80.0	55.3	01.7	02.3	02.0	-04.2	15.6	04.2	00084	00263
0	00.0	89.0	58.7	00.6	05.4	01.5	-33.7	15.9	-17.0	00875	02774 = NØ

*no vol = 2774*

## MOCNESS Data Sheet (NBP01-03)

Std. Station No. 41

Tow No. 10

Date (YY/MM/DD): 01/05/09

Filename (raw) M-10-001.raw

Filename (processed) M-10-001.pro

### Net information

Net size: 1m <sup>2</sup>	Net Condition good, KEF wonder if
Net Mesh: 335 µm	cod end 8 m leaky

Start		End	
Location (Lat/Lon)	67 11.303 74 29.7	Location (Lat/Lon)	67 4.474 (S) 74 24.80
Time (Local)	1608	Time (Local)	1909
	Time (GMT) 2008		Time (GMT) 2309
MOCNESS Battery Voltage	19.3	MOCNESS Battery Voltage	18.2

### Environmental parameters

Wind (Speed/direction)	35 kt, 170T
Sea State	waning 8 footers
Clouds	yes
Light	dusk - night
Air temp	0.3 °C, -18.7 °C wind chill
SST	-1.11

### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	0-1000	0	2008	2094	2103	589	2760	NO NR YES $\checkmark$
1	1000-800	994	2103	798	2127	356	1150	NO NR
2	800-600	798	2127	558	2144	292	909	NO NR
3	600-400	598	2144	400	2211	442	1406	NO NR
4	400-200	400	2211	200	2236	384	1236	NO NR
5	200-100	200	2236	98	2249	192	6840	NO NR
6	100-50	98	2249	50	2259	123	454	NO NR
7	50-25	50	2259	24	2303	52	1206	NO NR
8	25-0	24	2303	1.0	23:09	75	260	NR

Comments: *stroke on e surface*  
 Net ~~revised~~ mechanism <sup>reset</sup> *reset* slightly off  
*horizontal*  
 Tow on outer side of SACC boundary →  
over  
 Stroke on for down + up casts to try to catch krill  
 upcast a well past boundary of SACC is mostly oceanic

Nets 0+2 tangled cod ends upon retrieval

**MOCNESS - [Data Acquisition and Control System]**

Acquisition Setup Hardware Setup Runtime Diagnostics Plot Setup Capture Screen About

**Environmental Parameters**

Time: 23:09:50  
 Pressure: 0.0 m  
 Temp: -0.35 C  
 Salinity: 0.44 o/oo  
 Density: 0.183  
 Oxygen: 8.79 ml/l  
 Fluoresc.: 0.4850 V  
 LightXmis: 3.3418 /m

**Net Operation**

Net\_Num: 9  
 Open Time: 0.5 min  
 Vol\_Filtered: 0.0 m<sup>3</sup>  
 Angle: 0 deg  
 Flow\_Counts: 9  
 Hor\_Vel: 2.6 kts  
 Vert\_Vel: 1.3 m/min  
 Battery: [ ]

**Net - Ship Position**

Latitude: 67S 4.474'  
 Longitude: 74W 24.80  
 Net\_Dist: 38.9 m  
 Total\_Dist: 13666.8 m

Baud Rate: 2400  
 Sample Rate: 4.0 sec  
 Printer: Off

Processed File Name: C:\MOCNESS\MOCDATA\INBP01~2\M\_10\_001.P  
 Raw File Name: C:\MOCNESS\MOCDATA\INBP01~2\M\_10\_001.ra

Please wait ... closing system down  
 \$GPGLL,6704.4740,S,07424.8023,W,230845.877

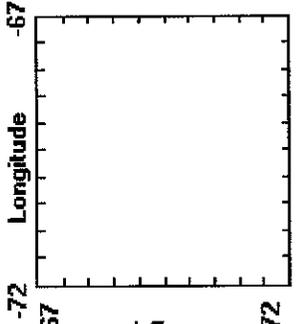
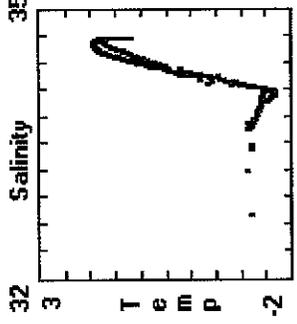
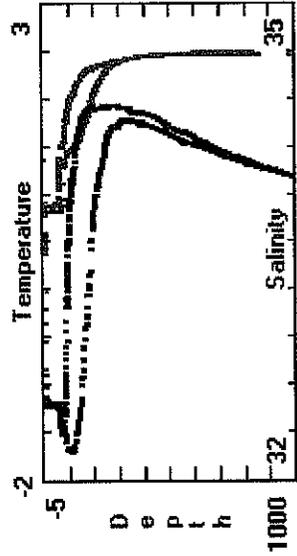
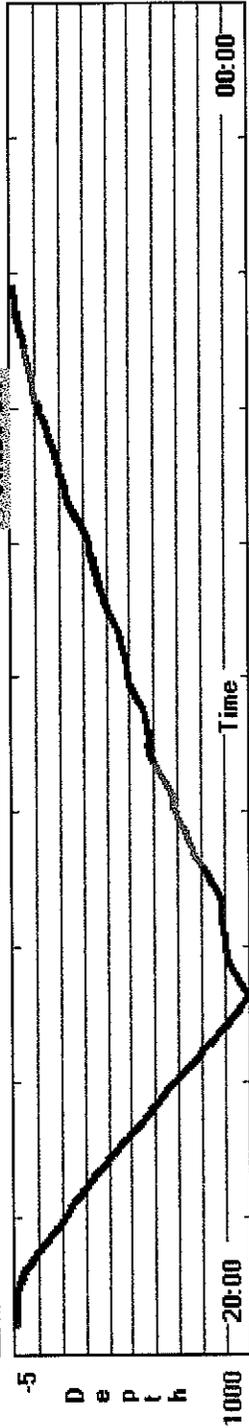
Step STBD Net

Increment Net#

Strobe On  
 Strobe Off

Pause Acqui

End Acqui



moc ll

M-111-001  
11May 2001  
RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	00.1	747.4	626.5	-00.8	01.3	01.2	-00.8	01.2	01.2	34.64	50.00	34.44
2	298.2	497.3	397.3	00.9	01.3	01.1	00.9	01.2	01.1	34.52	34.64	34.60
3	199.0	296.6	248.3	00.1	00.9	00.6	00.1	00.9	00.5	34.26	34.52	34.42
4	100.3	197.7	146.6	-00.4	00.1	-00.2	-00.4	00.1	-00.2	33.87	34.26	34.07
5	73.5	100.0	86.9	-00.4	00.0	-00.2	-00.4	00.0	-00.2	33.51	33.86	33.67
6	49.9	73.0	61.5	-00.7	-00.4	-00.6	-00.7	-00.4	-00.6	33.41	33.51	33.44
7	25.3	49.3	37.0	-00.9	-00.7	-00.8	-00.9	-00.7	-00.8	33.36	33.41	33.38
8	00.8	24.6	09.1	-01.7	-01.0	-01.5	-01.7	-01.0	-01.5	18.93	33.34	32.84
0	-00.4	754.4	420.4	-01.7	01.3	00.6	-01.7	01.2	00.6	25.44	50.00	33.27
10	00.9	01.1	09.3	-01.1	-00.8	-09.1	-01.1	-00.8	-09.1	00.30	08.54	17.06

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	27.74	40.33	27.58	00.12	08.83	00.15	00.25	00.39	00.28	03.9	05.5	04.0
2	27.67	27.74	27.71	00.12	00.18	00.12	00.25	00.33	00.29	04.0	04.0	04.0
3	27.51	27.67	27.60	00.13	00.26	00.14	00.24	00.34	00.29	04.0	04.3	04.1
4	27.21	27.51	27.37	00.15	00.19	00.17	00.26	00.34	00.29	04.2	05.5	04.8
5	26.92	27.20	27.04	00.15	00.17	00.16	00.25	00.33	00.29	05.5	07.1	06.4
6	26.86	26.92	26.88	00.15	00.17	00.16	00.28	00.34	00.31	07.1	07.5	07.4
7	26.82	26.85	26.84	00.16	00.16	00.16	00.28	00.34	00.31	07.5	07.6	07.5
8	15.14	26.81	26.42	-00.05	02.43	00.42	00.17	00.35	00.30	05.7	07.9	07.4
0	20.41	40.34	26.68	00.00	08.85	00.17	00.00	00.42	00.28	-00.1	47.6	04.5
10	00.03	06.73	11.86	02.60	03.04	25.17	00.36	00.85	04.63	06.1	06.4	56.0

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	31.0	48.0	40.4	00.0	02.0	01.7	-00.6	12.9	09.2	00408	01331
2	43.0	50.0	45.6	01.7	02.3	02.0	08.2	13.7	10.2	00293	01026
3	44.0	50.0	46.3	02.0	02.3	02.1	05.7	13.3	10.1	00146	00524
4	45.0	51.0	46.7	01.7	02.3	02.1	02.3	11.5	09.1	00164	00591
5	44.0	52.0	46.8	01.7	02.0	02.0	04.3	07.0	05.6	00069	00248
6	43.0	51.0	46.6	01.7	02.3	02.0	02.3	06.6	04.8	00074	00265
7	44.0	48.0	45.2	01.7	02.0	01.9	04.5	07.0	05.8	00063	00225
8	41.0	56.0	44.8	00.3	02.0	01.7	-00.2	07.8	04.5	00084	00257
0	23.0	64.0	40.1	00.0	02.0	00.9	-29.8	10.6	-17.6	00640	01452
10	00.0	45.0	181.0	00.0	00.0	00.0	-00.4	00.2	-00.3	00009	00000

### MOCNESS Data Sheet (NBP01-03)

Std. Station No. 51 Deep in the BAY Tow No. 11

Date (YY/MM/DD): 01/05/11 local 01/05/12

Filename (raw) M-11-001.raw Filename (processed) M-11-001.pro

#### Net information

Net size: 1m <sup>2</sup>	Net Condition <u>2 col ends w/ handles</u>
Net Mesh: 335 μm	<u>cracks</u>

#### Start

#### End

Location (Lat/Lon) <u>69 16.67 69 18.59</u>	Location (Lat/Lon) <u>69 18.59</u>
Time (Local)	Time (GMT) <u>00:06</u>
MOCNESS Battery Voltage <u>18.9 V</u>	MOCNESS Battery Voltage

#### Environmental parameters

Wind (Speed/direction) <u>9 kt 210</u>	Sea State <u>flat calm</u>
Clouds <u>foggy</u>	Light <u>dark</u>
Air temp <u>-1.1°C</u>	SST <u>-1.661°C</u>

#### Net-tow information

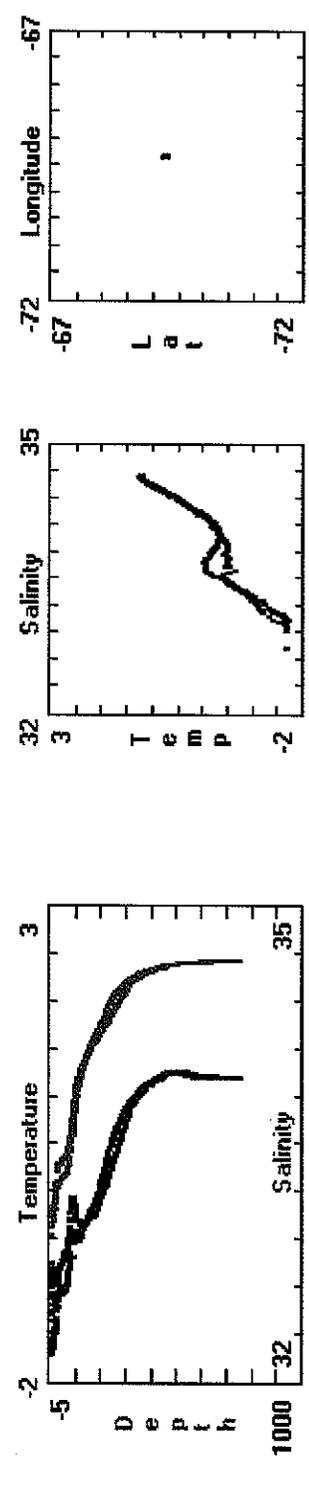
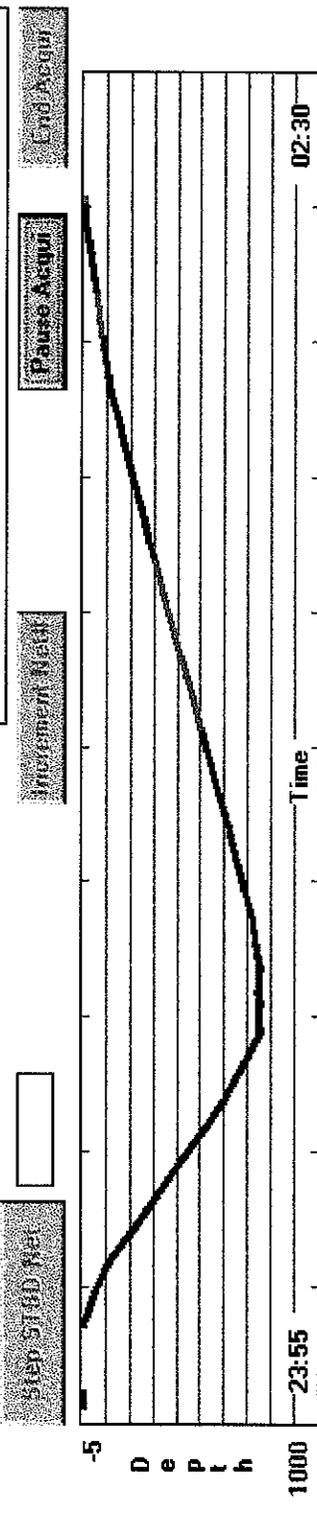
Net #	Depth interval	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<u>0-75</u>	<u>75</u>	<u>000600</u>	<u>004735</u>	<u>STROBE ON!</u>	<u>247</u>	<u>1452.5</u>	
1	<u>75-150</u>	<u>150</u>	<u>004735</u>	<u>500</u>	<u>01:14:33</u>	<u>307</u>	<u>1330.9</u>	
2	<u>150-200</u>	<u>200</u>	<u>01:14:33</u>	<u>300</u>	<u>01:34:13</u>	<u>261</u>	<u>1026.3</u>	
3	<u>200-250</u>	<u>250</u>	<u>01:34:13</u>	<u>200</u>	<u>01:44:08</u>	<u>136</u>	<u>523.5</u>	
4	<u>250-100</u>	<u>200</u>	<u>01:44:08</u>	<u>100</u>	<u>01:55:10</u>	<u>62</u>	<u>590.5</u>	
5	<u>100-75</u>	<u>100</u>	<u>01:55:10</u>	<u>075</u>	<u>01:59:43</u>	<u>61</u>	<u>247.6</u>	
6	<u>75-50</u>	<u>75</u>	<u>01:59:43</u>	<u>050</u>	<u>02:04:48</u>	<u>64</u>	<u>265.3</u>	
7	<u>50-25</u>	<u>50</u>	<u>02:04:48</u>	<u>025</u>	<u>02:09:09</u>	<u>54</u>	<u>225.4</u>	
8	<u>25-0</u>	<u>25</u>	<u>02:09:09</u>	<u>0</u>	<u>02:15:00</u>	<u>59</u>	<u>257.3</u>	

Comments:

*Very nice haul - No net responses but saw angle changes for all nets →  
End Aquic at 021542*

- (1) No net response on net 1
- (2) No net response on net 2

Environmental Parameters		Net Operation		Net - Ship Position		Program Settings	
Time	02:15:42	Net_Num	10	Latitude	69S 12.402'	Baud Rate	2400
Pressure	101 m	OpenTime	00 min	Longitude	69W 20.05	Sample Rate	4.0 sec
Temp	-0.81 C	Vol_Filtered	0.0 m3	Net_Dist	47.0 m	Printer	Off
Salinity	0.3 ‰	Angle	0 deg	Total_Dist	8589.2 m	Processed File Name	C:\MOCNES\MOCDATA\NBPO1-2\M_11_001.P
Density	0.029	Flow_Counts	0	Raw File Name	C:\MOCNES\MOCDATA\NBPO1-2\M_11_001.ra	Acquisition Ended. trys = 0	
Oxygen	6.13 ml/l	Hor_Vel	0.0 kts				
Fluoresc.	0.8282 V	Vert_Vel	-0.2 m/min				
LightXmis	3.0357 /m	Battery					



M-12-001  
 13May 2001  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
0	-02.1	355.9	159.2	-01.1	08.8	00.0	-01.1	08.8	00.0	02.03	50.00	32.30
2	193.3	237.4	208.8	00.2	00.7	00.4	00.2	00.7	00.4	34.33	34.49	34.38
3	145.9	197.4	182.1	-00.2	00.3	00.2	-00.2	00.3	00.2	34.17	34.35	34.31
4	99.2	146.8	121.1	-00.5	-00.1	-00.3	-00.5	-00.1	-00.4	33.88	34.17	34.03
5	74.1	100.1	90.1	-00.9	-00.4	-00.5	-00.9	-00.4	-00.5	33.51	33.89	33.75
6	49.5	74.1	62.2	-00.9	-00.9	-00.9	-00.9	-00.9	-00.9	33.50	33.51	33.50
7	24.4	50.9	38.8	-01.0	-00.9	-01.0	-01.0	-00.9	-01.0	33.48	33.50	33.49
8	00.6	23.8	12.5	-01.0	-01.0	-01.0	-01.0	-01.0	-01.0	24.47	33.48	33.38
0	-02.1	355.9	159.2	-01.1	08.8	00.0	-01.1	08.8	00.0	02.03	50.00	32.30

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
0	01.48	40.29	25.93	00.00	24.08	00.30	00.00	00.61	00.27	-00.1	46.6	05.3
2	27.55	27.65	27.59	00.12	00.15	00.14	00.25	00.33	00.29	04.2	04.5	04.4
3	27.44	27.56	27.54	00.15	00.17	00.15	00.24	00.32	00.29	04.2	04.6	04.2
4	27.22	27.44	27.34	00.15	00.17	00.15	00.25	00.33	00.29	04.5	05.7	05.0
5	26.94	27.23	27.12	00.15	00.16	00.15	00.26	00.35	00.30	05.6	07.4	06.2
6	26.93	26.95	26.94	00.15	00.16	00.15	00.26	00.35	00.31	07.4	07.5	07.5
7	26.92	26.94	26.93	00.15	00.16	00.15	00.25	00.35	00.30	07.3	07.5	07.5
8	19.62	26.92	26.84	-00.04	09.32	00.31	00.27	00.34	00.30	07.2	08.9	07.5
0	01.48	40.29	25.93	00.00	24.08	00.30	00.00	00.61	00.27	-00.1	46.6	05.3

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
0	32.0	89.0	56.9	00.6	12.6	01.7	-35.2	04.0	-19.1	00278	00907
2	48.0	70.0	55.4	02.0	02.6	02.3	-03.5	21.0	06.2	00114	00399 2
3	47.0	89.0	56.9	02.0	02.9	02.2	-09.0	17.2	02.9	00237	00818 3
4	48.0	72.0	54.4	02.0	02.3	02.2	-02.2	11.7	05.2	00136	00455 4
5	45.0	84.0	54.4	01.7	02.3	02.0	-07.3	12.7	03.0	00124	00397 5
6	44.0	89.0	52.5	01.7	02.3	01.9	-04.3	09.0	03.7	00101	00329 6
7	43.0	85.0	52.2	01.7	02.3	01.9	-02.8	08.0	02.2	00164	00535 7
8	43.0	89.0	55.3	01.4	02.6	02.0	-02.6	10.6	03.0	00124	00378 8
0	32.0	89.0	56.9	00.6	12.6	01.7	-35.2	04.0	-19.1	00278	00907

Net1 Pmin Pmax Vol  
 239 355 392.5

### MOCNESS Data Sheet (NBP01-03)

Std. Station No. 55<sup>not May 13</sup> Tow No. 12  
 Date (YY/MM/DD): 01/05/13  
 Filename (raw) M-12-001.raw Filename (processed) M-12-001.pro

#### Net information

Net size: 1m <sup>2</sup>	Net Condition <u>Small holes near cord</u>
Net Mesh: 335 μm	<u>of NZ: sewed + globed</u>

Start		End	
Location (Lat/Lon)	<u>68° 23.62, 72° 18.44</u>	Location (Lat/Lon)	<u>68 21.3755, 72 26.16W</u>
Time (Local)	Time (GMT)	Time (Local)	Time (GMT)
		<u>1903</u>	<u>2303</u>
MOCNESS Battery Voltage	<u>20.8V</u>	MOCNESS Battery Voltage	<u>20.3</u>

#### Environmental parameters

Wind (Speed/direction) <u>20 kt, 333</u>	Sea State <u>4-8' ?</u>
Clouds <u>yes</u>	Light <u>dark</u>
Air temp <u>-0.2°C</u>	SST <u>-1.069</u>

Bottom Z ~ 400 m **Net-tow information**

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments	w/min
0	<u>0-350</u>	<u>0</u>	<u>2130</u>	<u>354</u>	<u>2147</u>	<u>200</u>	<u>894</u>	<u>NR Finally</u>	<u>40</u>
1	<u>350-250</u>	<u>354</u>	<u>2147</u>	<u>246</u>	<u>2156</u>	<u>106</u>	<u>369.3</u>	<u>No NR</u>	<u>50</u>
2	<u>250-200</u>	<u>246</u>	<u>2156</u>	<u>198</u>	<u>2203</u>	<u>109</u>	<u>368.5</u>	<u>No NR</u>	
3	<u>200-150</u>	<u>198</u>	<u>2203</u>	<u>147</u>	<u>2219</u>	<u>229</u>	<u>801.6</u>	<u>Yuck. Bad Pilot.</u>	
4	<u>150-100</u>	<u>147</u>	<u>2219</u>	<u>100</u>	<u>2228</u>	<u>125</u>	<u>435.7</u>	<u>No NR</u>	
5	<u>100-75</u>	<u>100</u>	<u>2228</u>	<u>76</u>	<u>2237</u>	<u>104</u>	<u>384</u>	<u>No NR</u>	
6	<u>75-50</u>	<u>76</u>	<u>2237</u>	<u>50</u>	<u>2244</u>	<u>86</u>	<u>327</u>	<u>Nada NR</u>	
7	<u>50-25</u>	<u>50</u>	<u>2244</u>	<u>25</u>	<u>2255</u>	<u>136</u>	<u>526</u>		
8	<u>25-0</u>	<u>25</u>	<u>2255</u>	<u>0</u>	<u>2303</u>			<u>got NR</u>	

Comments: Mixed layer to 50 m  
NR Net #1 delayed after angle Δ

↑  
 went before I could record this.

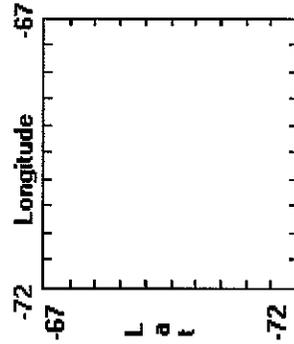
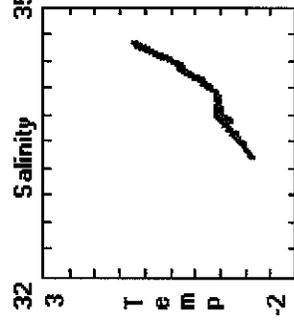
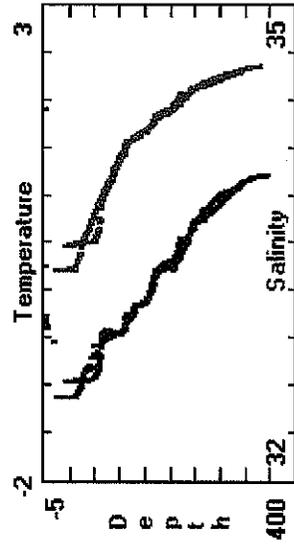
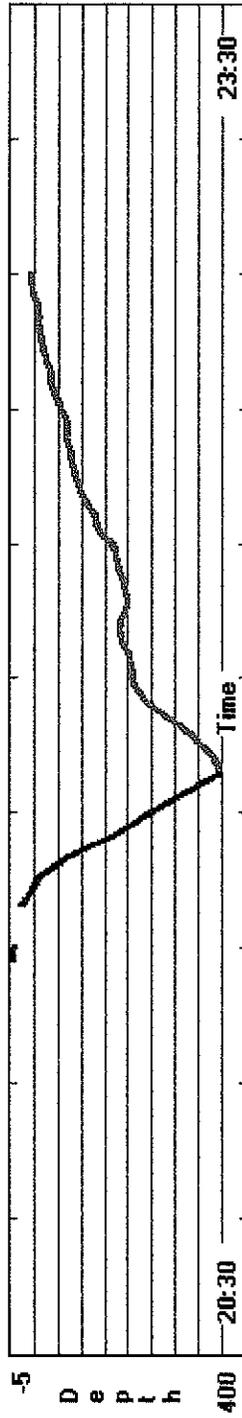
MOCNESS - [Data Acquisition and Control System]

Acquisition Setup Hardware Setup Realtime Diagnostics Eto Setup Data Capture Screen About

Environmental Parameters Net Operation Net - Ship Position Program Settings

Time	22:54:12	Net_Num	2	Latitude	68S 21.783	Baud Rate	2400
Pressure	29.8 m	OpenTime	56.3 min	Longitude	72W 24.64	Sample Rate	4.0 sec
Temp	-0.96 C	Vol_Filtered	3295.8 m3	Net_Dist	4807.0 m	Printer	Off
Salinity	33.48 o/oo	Angle	91.60	Total_Dist	6346.8 m		
Density	26.922	Flow_Counts	913	Processed	None		
Oxygen		Hor_Vel	2.0 kts	File Name	C:\MOCNESS\MOCDATA\INBP01~2\AM_12_001.R		
Fluoresc.		Vert_Vel	3.5 m/min	Raw File Name			
LightXmis		Battery					

Pause Acqui End Acqui



13  
M-12-001  
13May 2000  
RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	-00.3	498.2	418.8	-00.5	01.7	01.6	-00.5	01.7	01.5	34.67	50.00	34.24
2	197.5	346.9	270.0	00.2	01.7	01.1	00.2	01.7	01.0	34.37	34.67	34.54
3	147.1	196.7	171.9	-01.4	00.3	-00.7	-01.4	00.3	-00.7	34.14	34.37	34.23
4	97.9	146.1	119.8	-01.8	-01.4	-01.7	-01.8	-01.4	-01.7	34.04	34.14	34.08
5	71.1	101.3	91.6	-01.6	-01.1	-01.4	-01.6	-01.1	-01.4	33.82	34.05	34.01
6	49.8	72.6	61.7	-01.5	-01.2	-01.4	-01.5	-01.2	-01.4	33.70	33.81	33.72
7	24.8	52.5	40.7	-01.5	-01.5	-01.5	-01.5	-01.5	-01.5	33.69	33.70	33.70
8	00.5	24.4	10.3	-01.5	-01.4	-01.5	-01.5	-01.4	-01.5	10.02	33.70	32.83
9	00.4	01.1	31.5	-01.4	-00.9	-44.8	-01.4	-00.9	-44.8	00.00	12.77	21.61

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	27.73	40.30	27.40	00.19	04.17	00.20	00.24	00.40	00.28	04.0	05.3	04.1
2	27.58	27.73	27.67	00.19	00.20	00.19	00.24	00.33	00.29	04.0	04.7	04.2
3	27.47	27.58	27.52	00.19	00.20	00.19	00.24	00.32	00.28	04.7	06.2	05.5
4	27.39	27.47	27.43	00.20	00.20	00.20	00.25	00.34	00.29	06.2	06.5	06.4
5	27.21	27.40	27.36	00.20	00.22	00.21	00.24	00.33	00.29	06.0	06.4	06.3
6	27.11	27.20	27.13	00.21	00.36	00.21	00.26	00.35	00.30	06.6	07.8	07.5
7	27.11	27.12	27.11	00.21	00.23	00.21	00.26	00.35	00.30	07.6	07.8	07.7
8	07.91	27.12	26.41	00.08	06.47	00.64	00.26	00.56	00.31	06.8	08.3	07.7
9	-00.25	10.14	07.76	03.15	07.32	230.83	00.30	01.89	23.70	07.1	09.2	331.1

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	35.0	89.0	53.6	01.1	02.3	02.0	-04.5	16.9	07.8	00280	00828
2	45.0	89.0	56.1	02.0	02.6	02.2	-06.8	17.6	08.0	00282	00886
3	43.0	89.0	56.8	01.7	02.6	02.1	-09.6	14.5	04.6	00160	00492
4	44.0	89.0	55.2	01.7	02.3	02.0	-02.4	18.0	07.8	00096	00298
5	39.0	89.0	54.5	01.4	02.3	01.8	-07.9	13.1	03.2	00118	00351
6	32.0	89.0	47.0	01.1	01.7	01.4	-10.2	11.9	02.0	00166	00429
7	29.0	89.0	45.2	00.9	02.3	01.4	-04.7	12.1	02.6	00148	00405
8	22.0	86.0	47.3	00.9	02.0	01.4	-01.6	11.5	03.4	00110	00280
9	00.0	81.0	2244.0	00.0	06.0	67.9	-00.8	01.2	00.0	00041	00226

Used wire at or near end

MOCNESS Data Sheet (NBP01-03)

Std. Station No. 064 Tow No. 013  
 Date (YY/MM/DD): 010515  
 Filename (raw) M\_13\_001.Raw Filename (processed) M\_13\_001.Plx

Net information

Net size: 1m <sup>2</sup>	Net Condition
Net Mesh: 335 μm	

Start		End	
Location (Lat/Lon)	<u>-68.03.76 / -074 47.07</u>	Location (Lat/Lon)	<u>-67 59.48 / -074 48.061</u>
Time (Local)	<u>0201</u>	Time (Local)	<u>0408</u>
Time (GMT)	<u>0601</u>	Time (GMT)	<u>0808</u>
MOCNESS Battery Voltage	<u>20.2V dL</u>	MOCNESS Battery Voltage	<u>19.5 Vdc</u>

Environmental parameters

Wind (Speed/direction)	<u>19 / 000 T</u>	Sea State	<u>Heavy swell 5-7 ft (m)</u>
Clouds	<u>clear &amp; 5 moon</u>	Light	
Air temp	<u>-0.3 c</u>	SST	<u>-1.082 c</u>

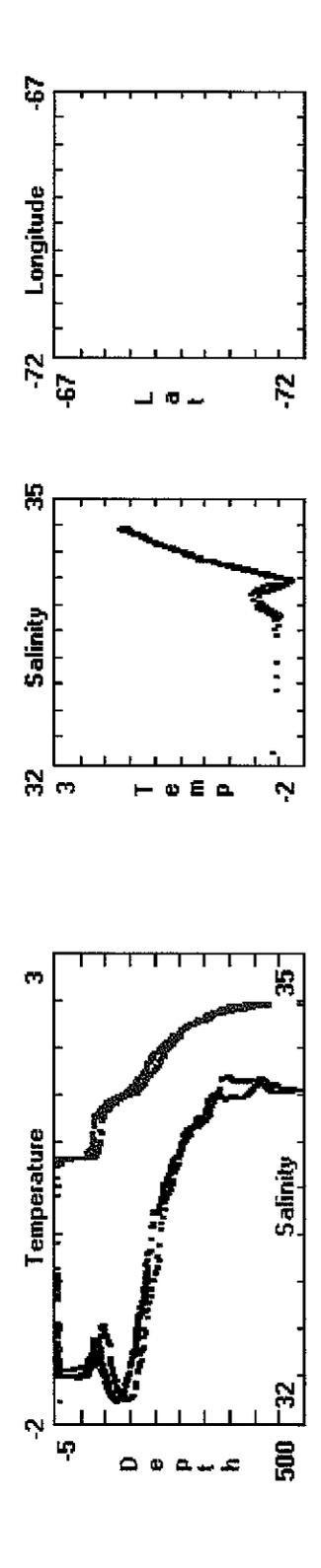
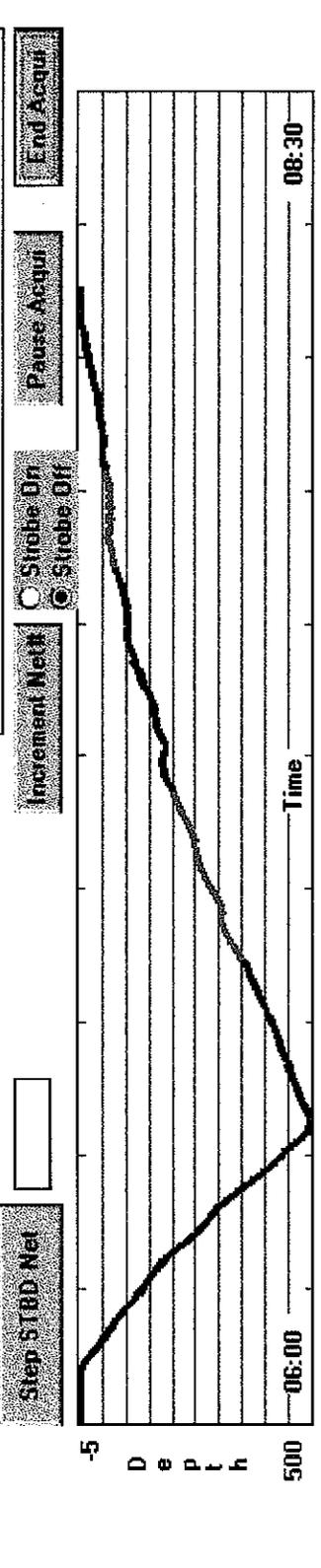
Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<del>000-50</del>	000	<u>0600</u>	498	<u>0633</u>	234	1309	OK Struck off
1	<del>500-350</del>	498	0633	350	0651	240	827	OK Struck on
2	<del>350-200</del>	0657	0657	199	0711	272	879	OK
3	200-150	197	0711	150	0721	144	492	OK
4	150-100	147	0728	97.8	0728	76	298	OK UP <sup>TOP</sup> <sub>PLX</sub>
5	100-75	98	0736	74		96	350.1	OK
6	75-50	74		51	0747	100	378	OK
7	50-25	49.3	0747	24	0757	78	399	OK
8	25-0	024	0757	0.1	0805		267.1	OK Struck off

ON Deck ALL OK

Comments: Deck

Environmental Parameters		Net Operation		Net - Ship Position		Program Settings	
Time	08:07:49	Net_Num	9	Latitude	67S 59.447	Reset	
Pressure	0.7 m	OpenTime	2.0 min	Longitude	74W 48.05	Baud Rate	2400
Temp	-0.97 C	Vol_Filtered	2.45 3 ms	Net_Dist	222.7 m	Sample Rate	4.0 sec
Salinity	0.1 o/oo	Angle	0 deg	Total_Dist	8078.0 m	Printer	Off
Density	-0.146	Flow_Counts	29	Processed File Name	C:\MOCNESS\MOCDATA\MBP01-2\M_13_001.P		
Oxygen	7.78 ml/l	Hor_Vel	0.3 kts	Raw File Name	C:\MOCNESS\MOCDATA\MBP01-2\M_13_001.ra		
Fluoresc.	0.3914 V	Vert_Vel	0.6 m/min	##MN-76 00 81 1475 02329 0018 890670 860932 195M:I			
LightXmis	7.3225 /m	Battery		\$GPGLL.6759.4477.S.07448.0597.W.080728.406			



M-14-001  
 15May 2000  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
0	00.1	550.5	235.4	-01.4	12.9	00.3	-01.4	12.9	00.3	00.01	34.66	28.22
2	200.3	344.3	270.3	00.3	01.1	00.9	00.3	01.1	00.9	34.39	34.61	34.53
3	148.5	200.4	172.3	-01.1	00.3	-00.3	-01.1	00.3	-00.3	34.15	34.39	34.27
4	98.0	147.5	120.3	-01.7	-01.2	-01.6	-01.7	-01.2	-01.6	34.03	34.15	34.08
5	74.0	98.2	86.6	-01.5	-00.9	-01.3	-01.5	-00.9	-01.3	33.90	34.04	33.99
6	49.7	75.1	61.1	-01.1	-00.8	-00.9	-01.1	-00.8	-00.9	33.40	33.92	33.65
7	24.5	51.4	36.8	-01.3	-01.1	-01.3	-01.3	-01.1	-01.3	33.18	33.41	33.24
8	01.6	24.4	12.8	-01.3	-01.3	-01.3	-01.3	-01.3	-01.3	33.18	33.19	33.18
0	00.1	550.5	235.4	-01.4	12.9	00.3	-01.4	12.9	00.3	00.01	34.66	28.22

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
0	-00.57	27.76	22.59	00.00	28.69	00.94	00.00	01.69	00.35	-00.2	50.0	05.8
2	27.60	27.73	27.68	00.18	00.19	00.18	00.24	00.34	00.29	04.0	04.5	04.2
3	27.47	27.60	27.53	00.18	00.19	00.19	00.26	00.33	00.29	04.5	05.9	05.1
4	27.38	27.47	27.43	00.18	00.25	00.19	00.24	00.32	00.28	06.1	06.8	06.6
5	27.26	27.39	27.35	00.19	00.20	00.19	00.25	00.32	00.29	06.0	06.4	06.2
6	26.86	27.28	27.06	00.20	00.21	00.21	00.26	00.33	00.30	06.0	07.7	07.0
7	26.69	26.87	26.74	00.21	00.24	00.21	00.25	00.34	00.30	07.7	07.9	07.8
8	26.69	26.69	26.69	00.22	00.26	00.22	00.27	00.33	00.30	07.7	07.9	07.8
0	-00.57	27.76	22.59	00.00	28.69	00.94	00.00	01.69	00.35	-00.2	50.0	05.8

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
0	00.0	89.0	54.2	00.0	06.9	01.5	-39.0	03.5	-11.7	00701	02341
2	48.0	89.0	55.7	02.0	02.6	02.3	-02.5	14.9	06.0	00365	01239
3	45.0	77.0	53.0	01.7	03.4	02.1	-02.0	17.0	06.2	00125	00422
4	46.0	80.0	53.2	01.7	02.3	02.1	-01.8	13.5	05.1	00147	00487
5	47.0	80.0	54.9	02.0	02.3	02.1	-02.8	09.2	03.0	00123	00411
6	47.0	89.0	53.5	01.7	02.3	02.1	-03.5	09.2	03.1	00112	00380
7	42.0	71.0	52.9	01.7	02.3	02.0	-01.0	07.0	03.4	00112	00370
8	46.0	63.0	52.9	02.0	02.6	02.2	00.6	07.6	04.0	00087	00311
0	00.0	89.0	54.2	00.0	06.9	01.5	-39.0	03.5	-11.7	00701	02341

### MOCNESS Data Sheet (NBP01-03)

Std. Station No. 68

Tow No. 14

Date (YY/MM/DD): 01/05/15

Filename (raw) MOC-14-001.raw

Filename (processed) MOC-14-001.pro

#### Net information

Net size: 1m <sup>2</sup>	Net Condition <u>all collars taped</u>
Net Mesh: 335 μm	<u>because of wear, Net &amp; Sewnt good</u>

#### Start

#### End

Location (Lat/Lon) <u>68° 26.271 73° 42.78</u>	Location (Lat/Lon) <u>68 22.10 S, 73 54.24 W</u>
Time (Local) <u>1628</u>	Time (GMT) <u>2028</u>
Time (Local) <u>1853</u>	Time (GMT) <u>2253</u>
MOCNESS Battery Voltage <u>19.8</u>	MOCNESS Battery Voltage <u>19.4</u>

#### Environmental parameters

Wind (Speed/direction) <u>16 kt / 70°</u>	Sea State <u>big swells</u>
Clouds <u>4-8</u>	Light <u>dark</u>
Air temp <u>-1.2 °C</u>	SST <u>-1.28</u>

#### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<u>0-530</u>	<u>70</u>	<u>2028</u>	<u>530</u>	<u>2119</u>	<u>STURGE 2341</u>	<u>478</u>	<u>NR</u>
1	<u>530-350</u>	<u>350</u>	<u>2119</u>	<u>348</u>	<u>2139</u>	<u>—</u>	<u>900</u>	<u>NO NR</u>
2	<u>350-200</u>	<u>348</u>	<u>2139</u>	<u>200</u>	<u>2204</u>	<u>363</u>	<u>1235</u>	<u>NO NR</u>
3	<u>200-150</u>	<u>200</u>	<u>2204</u>	<u>149</u>	<u>2212</u>	<u>117</u>	<u>419</u>	<u>"</u>
4	<u>150-100</u>	<u>149</u>	<u>2212</u>	<u>99</u>	<u>2222</u>	<u>131</u>	<u>480</u>	<u>"</u>
5	<u>100-75</u>	<u>99</u>	<u>222</u>	<u>74</u>	<u>2231</u>	<u>112</u>	<u>404</u>	<u>"</u>
6	<u>75-50</u>	<u>74</u>	<u>2231</u>	<u>51</u>	<u>2238</u>	<u>102</u>	<u>379</u>	<u>"</u>
7	<u>50-25</u>	<u>51</u>	<u>2238</u>	<u>26</u>	<u>2246</u>	<u>98</u>	<u>362</u>	<u>"</u>
8	<u>25-0</u>	<u>26</u>	<u>2246</u>	<u>0</u>	<u>2252</u>	<u>—</u>	<u>311</u>	<u>"</u>

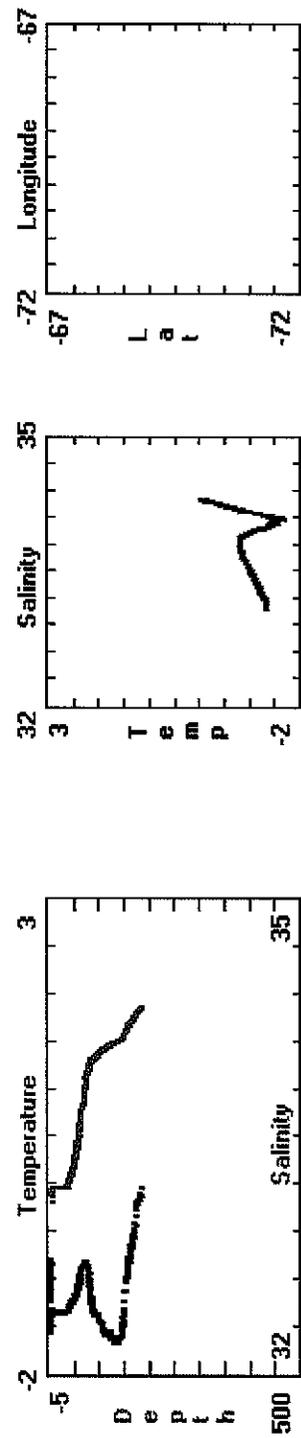
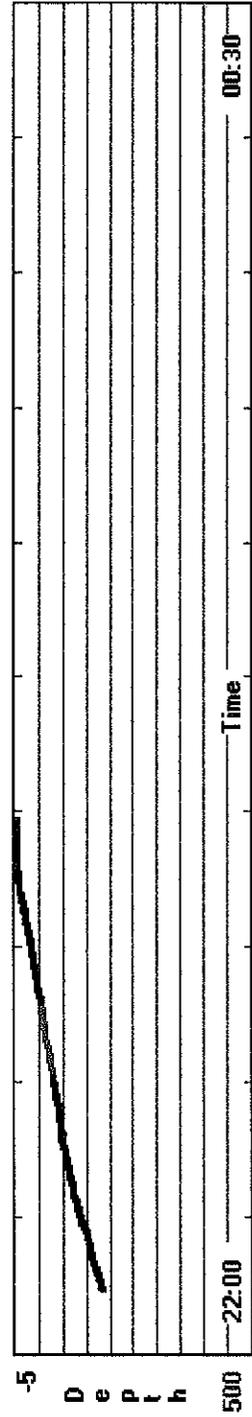
↑ ↑

Comments: <sup>looked</sup> cod end hooked <sup>on top</sup> into <sup>of</sup> net frame upon deployment  
 cod end smashed, must be replaced.  
 relaunched w/ new cod end. T probe also smashed but appears to fix  
 really high net ks (80%) on way down - near weight? [more weight?]  
 reduced winch out to 30m/min in power w/ mag. of \$ Drs  
 N1: angle @ 89° one, ship speed too fast then too slow... asked for faster gear

Environmental Parameters Net Operation Net - Ship Position Program Settings

Time	22:59:30	Net_Num	9	Latitude	68S 21.900
Pressure	1.5 m	OpenTime	2 min	Longitude	73W 54.77
Temp	-0.84 C	Vol_Filtered	27.9 m/s	Net_Dist	622.6 m
Salinity	0.06 o/oo	Angle	1 deg	Total_Dist	11699.4 m
Density	-0.169	Flow_Counts	40	Processed File Name	C:\MOCNESS\MOCDATA\MBP01-2\M_14_001.P
Oxygen	5.86 ml/l	Hor_Vel	0.0 kts	Raw File Name	C:\MOCNESS\MOCDATA\MBP01-2\M_14_001.ra
Fluoresc.	0.4156 V	Vert_Vel	1.0 m/min	Printer	Off
LightXmis	1.0771 /m	Battery		Acquisition Ended. trys = 0	

Step STBD Net  Increment Net  Pause Acqui  End Acqui



M-15-001  
16May 2000  
RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax
0	-01.0	-00.4	-00.6	-00.5	00.1	-00.4	-00.5	00.1	-00.4	00.01	00.01
00.01											
net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax
0	-00.19	-00.15	-00.18	00.00	00.00	00.00	00.00	00.39	00.32	-00.2	50.0
14.4											
net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
0	36.0	39.0	37.0	01.1	02.9	01.9	-00.9	01.8	00.8	00010	00068

### MOCNESS Data Sheet (NBP01-03)

Std. Station No. 69

Tow No. 15

Date (YY/MM/DD): 01/05/16?

Filename (raw)

Filename (processed)

#### Net information

Net size: 1m <sup>2</sup>	Net Condition <u>retired some cod</u>
Net Mesh: 335 μm	<u>ends</u>

#### Start

#### End

Location (Lat/Lon) <u>69° 10.87 720 46.03</u>	Location (Lat/Lon) <u>69 9.9611, 72 43.6</u>
Time (Local) <u>1616</u> Time (GMT) <u>2017</u>	Time (Local) <u>1653</u> Time (GMT) <u>2053</u>
MOCNESS Battery Voltage <u>19.7 V</u>	MOCNESS Battery Voltage <u>19.5</u>

#### Environmental parameters

Wind (Speed/direction) <u>22kt, ~300</u>	Sea State <u>some swell</u>
Clouds	Light <u>dark</u>
Air temp <u>-0.7°C</u>	SST <u>?</u>

175m bottom 2 @ start

#### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	0-0	0	2017	76.5	2028	—	855	NR
1	80-70	76.5	2028	70	2030	27	1097	NO NR
2	70-60	70	2030	60	2033	—	140	NO NR
3	60-50	60	2033	52	2036	—	154	NO NR
4	50-40	52	2036	40	2039	46	161	NO NR
5	40-30	40	2039	29.7	2041	—	134	WO NR
6	30-20	29.7	2041	20.1	2045	—	160	NO NR
7	20-10	20.1	2045	9.6	2048	—	162	NO NR
8	10-0	9.6	2048				189?	NO NR

Comments: <sup>Note</sup> <sup>changed</sup> <sup>guard</sup> Note changed temp guard. Thermistor probe is slightly bent.  
fail to NR before tripping net # 8, no vol emp  
due to current re-set

Environmental Parameters

Net Operation

Net - Ship Position

Program Settings

Time 20:53:04  
 Pressure 0.7 m  
 Temp -1.4 C  
 Salinity 14.93 o/oo  
 Density 11.896  
 Oxygen 7.59 ml/l  
 Fluoresc. 0.2876 V  
 LightXmis 3.1760 /m

Net\_Num 9  
 Open Time 0.7 min  
 Vol\_Filtered 25.5 m/s  
 Angle 58 deg  
 Flow\_Counts 9  
 Hor\_Vel 2.0 kts  
 Vert\_Vel 0.0 m/min  
 Battery

Latitude 69S 9.9678'  
 Longitude 72W 43.61  
 Net\_Dist 50.8 m  
 Total\_Dist 2496.8 m

Baud Rate 2400  
 Sample Rate 4.0 sec  
 Printer Off

Reset

Processed File Name C:\MDCNESS\MDCDATA\NB01--2\N\_15\_001.P  
 Raw File C:\MDCNESS\MDCDATA\NB01--2\N\_15\_001.ra  
 Name

###MN-31 00 58 0538 8189 899425 440343 195III:1  
 \$GPGLL,6909.9678,S,07243.6128,W,205233.222

Step 5 (BD Net)

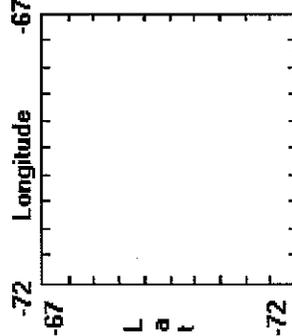
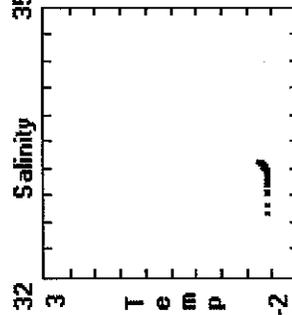
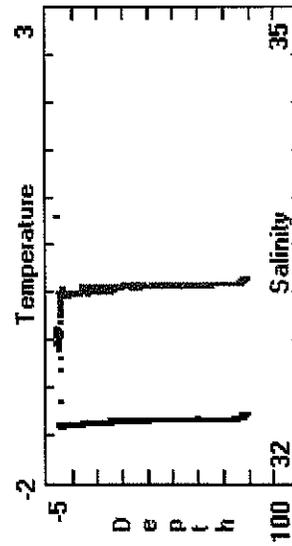
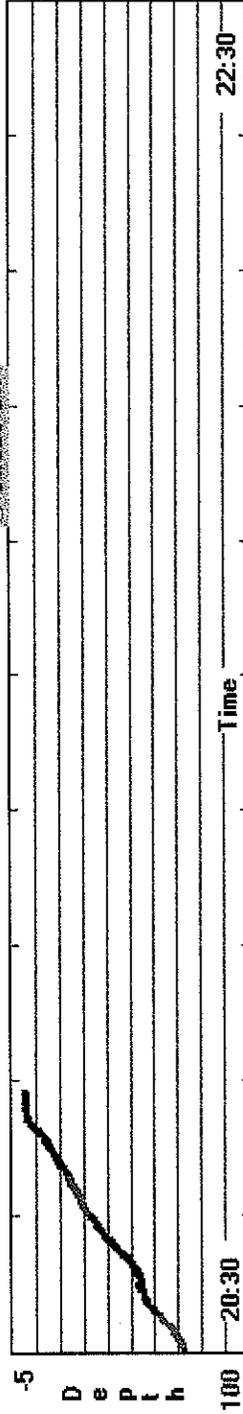
Step 3

Increment Met#

Strobe On  
 Strobe Off

Pause Acqui

End Acqui



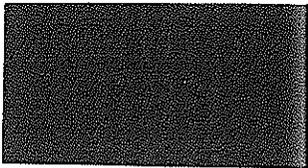
M-16-001  
 18 17 May 2000  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	<del>296</del> <del>-00.1</del>	339.8	<del>202.9</del>	-01.0	01.0	00.6	-01.0	01.0	00.6	04.07	50.00	22.32
2	248.9	295.7	269.7	00.8	01.0	00.9	00.7	01.0	00.8	34.50	34.56	34.53
3	199.1	248.4	223.8	00.2	00.8	00.6	00.2	00.7	00.6	34.36	34.50	34.46
4	146.1	198.8	179.8	-00.9	00.2	-00.2	-00.9	00.2	-00.2	34.05	34.36	34.26
5	99.5	145.8	117.7	-00.9	-00.6	-00.8	-01.0	-00.6	-00.8	33.74	34.04	33.88
6	50.2	100.6	80.9	-01.3	-00.6	-00.8	-01.3	-00.6	-00.8	33.17	33.74	33.53
7	25.0	51.0	36.8	-01.3	-01.3	-01.3	-01.3	-01.3	-01.3	33.17	33.18	33.17
8	00.7	25.0	11.8	-01.3	-01.3	-01.3	-01.3	-01.3	-01.3	32.53	33.18	33.16
0	-00.9	341.2	147.6	-01.3	01.0	-00.3	-01.3	01.0	-00.3	32.93	50.00	32.45
10	00.4	01.3	15.1	-01.3	-00.3	-19.7	-01.3	-00.3	-19.7	00.00	33.17	335.20

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	03.11	40.32	17.88	00.16	14.02	00.17	00.25	01.34	00.18	04.0	06.8	02.6
2	27.66	27.70	27.68	00.16	00.17	00.16	00.24	00.33	00.29	04.1	04.2	04.1
3	27.58	27.66	27.64	00.16	00.23	00.16	00.24	00.33	00.29	04.2	04.6	04.3
4	27.37	27.58	27.52	00.16	00.19	00.17	00.26	00.33	00.29	04.6	05.7	05.0
5	27.12	27.37	27.23	00.17	00.21	00.19	00.25	00.32	00.29	05.4	06.4	05.9
6	26.68	27.12	26.95	00.18	00.24	00.18	00.25	00.34	00.29	06.2	07.9	06.9
7	26.68	26.69	26.68	00.18	00.18	00.18	00.26	00.33	00.30	07.8	07.9	07.9
8	26.16	26.69	26.67	-00.02	11.45	00.51	00.26	00.33	00.30	06.9	08.6	07.9
0	26.48	40.31	26.06	00.00	14.05	00.24	00.00	00.50	00.27	-00.1	47.4	05.8
10	-00.18	26.68	267.17	00.00	03.92	52.43	00.26	01.06	12.43	07.2	09.7	193.8

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	00.0	82.0	27.2	00.0	04.9	00.9	-08.2	12.8	02.4	00247	00438 <i>M</i>
2	34.0	89.0	44.7	01.4	02.0	01.6	-00.4	14.5	07.7	00093	00278 <i>F</i>
3	37.0	85.0	46.6	01.4	02.0	01.6	-02.7	12.0	03.7	00198	00611 <i>F</i>
4	36.0	73.0	45.0	01.4	02.0	01.6	-03.7	16.1	06.4	00117	00339 <i>F</i>
5	37.0	89.0	47.5	01.4	02.0	01.7	-03.4	15.7	04.8	00155	00472 <i>50</i>
6	34.0	78.0	45.3	01.4	02.0	01.6	-04.7	14.5	04.8	00153	00456 <i>C</i>
7	39.0	86.0	47.9	01.4	02.0	01.7	-01.0	06.8	03.4	00112	00358 <i>F</i>
8	38.0	67.0	49.2	01.4	02.6	01.9	00.0	09.6	03.8	00098	00323 <i>NO</i>
0	31.0	89.0	51.7	00.6	03.1	01.3	-23.7	07.7	-11.6	00437	01124 <i>NO</i>
10	00.0	68.0	749.0	01.1	05.1	60.5	-01.2	01.6	02.2	00023	00202



## MOCNESS Data Sheet (NBP01-03)

Std. Station No. 76 <sup>2001</sup> <sub>May 18</sub> Tow No. 16

Date (YY/MM/DD): 01/05/18

Filename (raw) \_\_\_\_\_ Filename (processed) \_\_\_\_\_

### Net information

Net size: 1m <sup>2</sup>	Net Condition <u>Good</u>
Net Mesh: 335 μm	

Start	End
Location (Lat/Lon) <u>68 59 42.5 -24 55.765 W</u>	Location (Lat/Lon) <u>68 57.051 S -24 49.974 W</u>
Time (Local) <u>0854</u>   Time (GMT) <u>1254</u>	Time (Local) <u>103633</u>   Time (GMT) <u>143633</u>
MOCNESS Battery Voltage <u>19.7</u>	MOCNESS Battery Voltage <u>19.4</u>

### Environmental parameters

Wind (Speed/direction) <u>15-20 dir 115</u>	Sea State <u>Mod - 15 to 20 kts</u>
Clouds <u>yes</u>	Light <u>sun still down</u>
Air temp <u>-0.9 C</u>	SST <u>-1.2</u>

### GMT Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	0-	0	<u>1254</u>	<u>337</u>	<u>132213</u>	<u>242</u>	<u>1124.1</u>	
1	<u>340-300</u>	<u>337</u>	<u>132213</u>	<u>300</u>	<u>133243</u>	<u>93</u>	<u>438.3</u>	<u>saw 2 change</u>
2	<u>300-250</u>	<u>300</u>	<u>133243</u>	<u>250</u>	<u>133858</u>	<u>67</u>	<u>278.1</u>	
3	<u>250-200</u>	<u>250</u>	<u>133858</u>	<u>200</u>	<u>135215</u>	<u>142</u>	<u>611.0</u>	
4	<u>200-150</u>	<u>200</u>	<u>135215</u>	<u>150</u>	<u>140009</u>	<u>81</u>	<u>338.9</u>	
5	<u>150-100</u>	<u>150</u>	<u>140009</u>	<u>100</u>	<u>141035</u>	<u>113</u>	<u>472.2</u>	
6	<u>100-50</u>	<u>100</u>	<u>141035</u>	<u>50</u>	<u>142050</u>	<u>106</u>	<u>455.6</u>	
7	<u>50-25</u>	<u>50</u>	<u>142050</u>	<u>25</u>	<u>147827</u>	<u>86</u>	<u>358.1</u>	
8	<u>25-0</u>	<u>25</u>	<u>147827</u>	<u>0</u>	<u>143521</u>	<u>82</u>	<u>322.9</u>	

Comments:

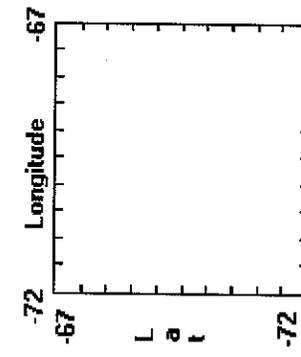
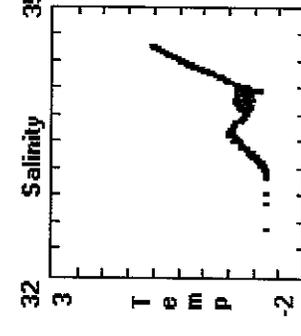
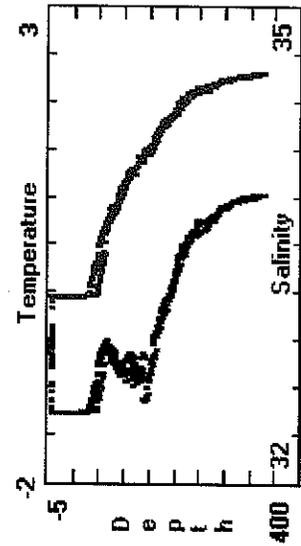
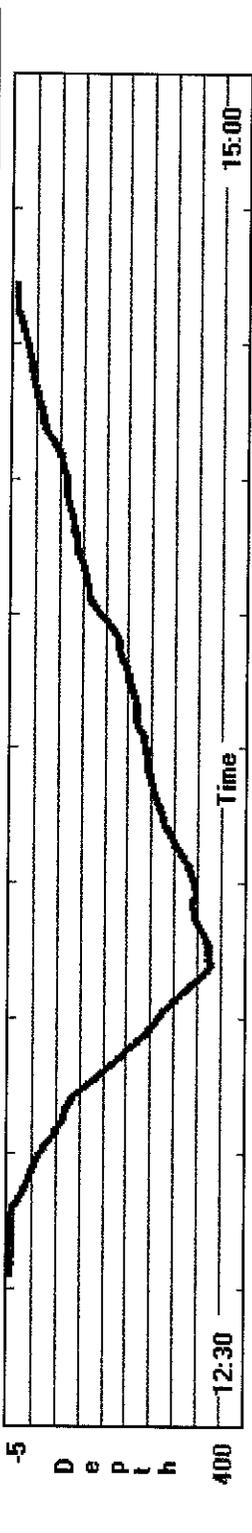
Reset after net in H<sub>2</sub>O -  
 We got within about 10 to 15 m of the bottom for opening of net!  
 strobe light on + visible at 7.2 m below surface  
 - Nice tow, all nets fired  
 - M0115001. BMP has image of tow

↳ got NR + then incremented net  
 1100 by mistake

MOCNESS - [Data Acquisition and Control System]

Acquisition Setup Hardware Setup Runtime Options Ebl Setup Capture Screen About

Environmental Parameters		Net Operation		Net - Ship Position		Program Settings	
Time	14:36:53	Net_Num	3	Latitude	68S 57.057	Reset	
Pressure	0.6 m	Open Time	17 min	Longitude	74W 50.00	Baud Rate	2400
Temp	-0.35 C	Vol_Filtered	2/10/0 m3	Net_Dist	112.8 m	Sample Rate	4.0 sec
Salinity	0.0 o/oo	Angle	32 deg	Total_Dist	6154.8 m	Printer	Off
Density	-0.178	Flow_Counts	31	Processed	None		
Oxygen		Hor_Vel	4.3 kts	File Name			
Fluoresc.		Vert_Vel	0.0 m/min	Raw File Name	C:\MOCNESS\MOCDATA\NBPO1--2M_16_001.R		
LightXmis		Battery		Acquisition Ended	trys = 0		



M-17-001  
 19May 2001  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	-00.3	554.7	393.1	-00.7	01.6	01.4	-00.7	01.6	01.3	00.00	34.68	30.81
2	200.2	344.4	297.2	00.2	01.6	01.1	00.2	01.6	01.1	34.39	34.65	34.57
3	145.7	201.0	184.8	-01.0	00.2	-00.1	-01.0	00.2	-00.1	34.17	34.39	34.33
4	98.4	143.8	116.2	-01.6	-01.0	-01.5	-01.6	-01.0	-01.5	34.04	34.17	34.09
5	67.3	104.6	91.1	-01.6	-01.4	-01.5	-01.6	-01.4	-01.5	33.80	34.06	34.00
6	49.8	66.2	56.4	-01.6	-01.5	-01.6	-01.6	-01.5	-01.6	33.73	33.79	33.76
7	23.3	49.3	39.2	-01.5	-01.4	-01.4	-01.5	-01.4	-01.5	33.70	33.73	33.71
8	00.4	22.1	09.4	-01.4	-01.4	-01.4	-01.4	-01.4	-01.4	31.75	33.70	33.66
0	-00.6	557.6	249.1	-01.7	01.7	00.2	-01.7	01.7	00.2	00.00	34.68	33.15

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	-00.20	27.75	24.66	00.13	10.41	00.19	00.25	00.40	00.26	04.1	08.2	03.7
2	27.60	27.72	27.69	00.13	00.14	00.13	00.24	00.33	00.29	04.1	04.7	04.2
3	27.48	27.60	27.57	00.13	00.14	00.14	00.25	00.33	00.29	04.7	05.8	04.9
4	27.39	27.48	27.43	00.14	00.15	00.14	00.25	00.33	00.29	05.8	06.5	06.3
5	27.20	27.41	27.36	00.14	00.16	00.14	00.25	00.32	00.29	06.3	07.3	06.5
6	27.14	27.19	27.16	00.15	00.15	00.15	00.25	00.33	00.30	07.4	07.7	07.6
7	27.11	27.14	27.12	00.15	00.17	00.15	00.27	00.35	00.30	07.5	07.7	07.6
8	25.53	27.12	27.08	-00.03	13.61	00.63	00.26	00.67	00.30	06.9	08.5	07.6
0	-00.20	27.75	26.59	00.00	10.75	00.34	00.00	00.40	00.28	-00.2	50.0	05.4

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	30.0	52.0	37.5	00.3	02.9	02.1	-00.6	43.3	20.4	00153	00495
2	40.0	62.0	47.0	01.7	02.6	02.1	-09.2	19.2	06.0	00364	01388
3	36.0	49.0	41.3	01.4	02.3	01.8	-05.9	18.6	05.9	00132	00483
4	32.0	62.0	43.2	01.4	02.3	01.9	-06.7	16.2	04.2	00169	00608
5	29.0	51.0	36.7	01.1	02.0	01.6	-09.6	14.5	05.6	00083	00285
6	42.0	56.0	47.8	02.0	02.6	02.2	-00.2	10.6	05.4	00049	00195
7	40.0	60.0	48.2	01.7	02.6	02.1	-07.1	06.6	02.3	00168	00659
8	36.0	76.0	54.0	01.7	03.1	02.5	-01.0	07.0	02.7	00132	00526
0	27.0	66.0	40.7	00.3	13.7	01.3	-37.6	01.1	-18.2	00459	01570

# MOCNESS Data Sheet (NBP01-03)

Std. Station No. 81

Tow No. 17

Date (YY/MM/DD): 01/05/19

Filename (raw) M-17-001.raw

Filename (processed) M-17-001.pro

### Net information

Net size: 1m <sup>2</sup>	Net Condition <u>3 needs replacement after tow</u>
Net Mesh: 335 µm	

### Start

### End

Location (Lat/Lon) <u>-68 47.90, -76 59.803</u>	Location (Lat/Lon) <u>68 46.489, 76° 49.27</u>
Time (Local) <u>1520</u>   Time (GMT) <u>1920</u>	Time (Local) <u>1713</u>   Time (GMT) <u>2113</u>
MOCNESS Battery Voltage <u>19.7</u>	MOCNESS Battery Voltage <u>19.3</u>

### Environmental parameters

Wind (Speed/direction) <u>34 kts 062°</u>	Sea State <u>moderate</u>
Clouds <u>overcast</u>	Light <u>DUSK</u>
Air temp <u>-0.7C</u>	SST <u>-1.64</u>

*Stroke on for both up + down casts*

### Net-tow information

Net #	Depth RANGE	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	0-550	0	1920	557	1949	266	1551	No net resp.
1	500-350	557	1949	350	1954		480	No net resp.
2	350-200	350	1958	200	2022	341	1387	"
3	200-150	200	2022	1470	2031	106	475	"
4	150-100	146	2031	100	2043	137	608	"
5	100-75	100	2043	69	2048	57	281	"
6	75-50	69	2048	50	2052	48	195	"
7	50-25	48	2052	25	2103	158	658	"
8	25-0	25	2103	0	2113			"

*Stroke ON @ surface*

Comments: Net has had 60-70 lbs. of lead added to base.  
Filter GREAT now

*stopped?*  
Stopped net @ 55 m to fish for a bit

*got NR @ surface when hit Stop STR net*

**Environmental Parameters**

**Net Operation**

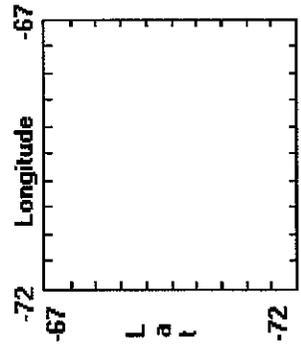
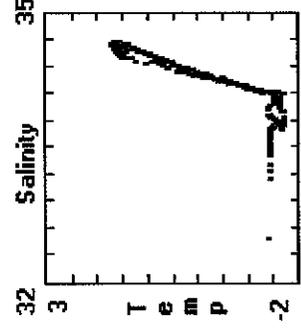
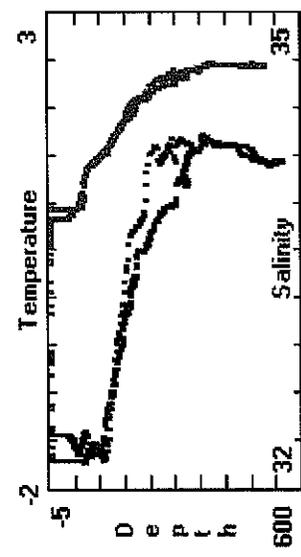
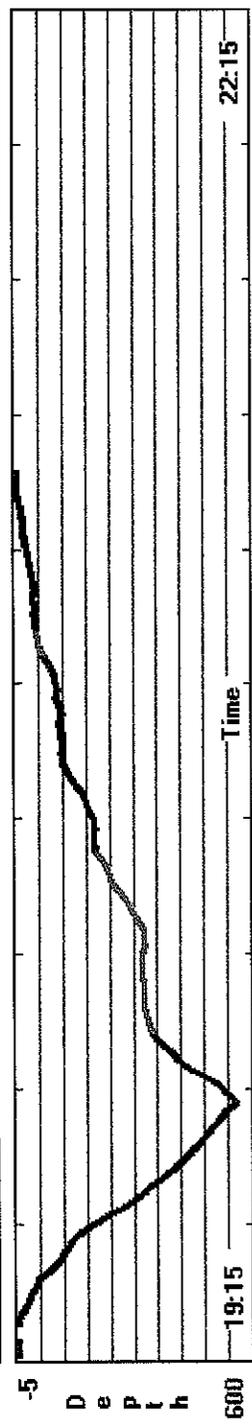
**Net - Ship Position**

**Program Settings**

Time	21:13:25	Net_Num	9	Latitude	68S 46.489
Pressure	0.6 m	OpenTime	0.7 min	Longitude	76W 49.27
Temp	-1.13 C	Vol_Filtered	40.8 m³	Net_Dist	36.3 m
Salinity	3.56 o/oo	Angle	16 deg	Total_Dist	8068.3 m
Density	2.672	Flow_Counts	9	Processed File Name	C:\MOCNESS\MOCDATA\NBPO1~2\M_17_001.P
Oxygen	8.27 ml/l	Hor_Vel	2.0 kts	Raw File Name	C:\MOCNESS\MOCDATA\NBPO1~2\M_17_001.ra
Fluoresc.	0.2768 V	Vert_Vel	1.0 m/min	Printer	Off
LightXmis	0.8071 /m	Battery		Baud Rate	2400
				Sample Rate	4.0 sec

Acquisition Ended, trys = 0

Step 5/18D-Net



M-18-001  
 20May 2001  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
0	-00.2	461.0	226.4	-01.5	01.1	00.0	-01.5	01.1	00.0	16.98	50.00	34.34
2	247.7	347.1	297.9	00.5	01.0	00.8	00.5	01.0	00.8	34.44	34.58	34.53
3	145.0	245.9	200.5	-01.4	00.4	-00.5	-01.4	00.4	-00.5	34.01	34.42	34.23
4	99.9	144.1	117.6	-01.3	-00.7	-01.0	-01.3	-00.7	-01.0	33.66	34.00	33.85
5	73.7	99.3	86.4	-01.3	-01.1	-01.2	-01.3	-01.1	-01.2	33.55	33.66	33.59
6	51.5	74.4	61.4	-01.3	-01.0	-01.2	-01.3	-01.0	-01.2	33.49	33.56	33.54
7	23.9	52.1	37.5	-01.2	-01.1	-01.2	-01.2	-01.1	-01.2	33.27	33.52	33.35
8	00.3	24.5	12.2	-01.2	-01.2	-01.2	-01.2	-01.2	-01.2	29.62	33.27	33.22
0	-00.2	461.0	226.4	-01.5	01.1	00.0	-01.5	01.1	00.0	16.98	50.00	34.34

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
0	13.56	40.39	27.57	00.00	09.88	00.24	00.00	01.19	00.29	-00.1	50.0	05.6
2	27.63	27.71	27.68	00.12	00.14	00.13	00.24	00.33	00.29	04.0	04.4	04.2
3	27.36	27.62	27.51	00.12	00.23	00.12	00.26	00.32	00.29	04.4	06.3	05.4
4	27.08	27.35	27.22	00.13	00.18	00.15	00.24	00.33	00.29	05.7	07.4	06.2
5	26.99	27.08	27.02	00.14	00.15	00.14	00.26	00.32	00.30	07.2	07.7	07.5
6	26.93	26.99	26.98	00.14	00.16	00.14	00.26	00.33	00.30	07.3	07.8	07.6
7	26.75	26.95	26.82	00.14	00.15	00.15	00.26	00.34	00.30	07.5	07.8	07.7
8	23.80	26.76	26.72	00.10	09.87	00.43	00.26	00.37	00.30	06.7	07.9	07.7
0	13.56	40.39	27.57	00.00	09.88	00.24	00.00	01.19	00.29	-00.1	50.0	05.6

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
0	00.0	72.0	37.3	00.3	06.6	01.1	-27.8	00.5	-15.2	00451	01413
2	38.0	56.0	43.2	01.7	02.3	02.1	04.9	15.7	10.6	00140	00520
3	39.0	59.0	43.7	01.7	02.3	02.1	02.9	16.2	10.0	00152	00576
4	39.0	55.0	44.3	01.7	02.3	02.0	00.4	14.1	06.6	00106	00394
5	38.0	53.0	42.7	01.4	02.0	01.8	-02.8	08.6	04.3	00091	00327
6	38.0	56.0	43.6	01.7	02.3	01.9	-01.0	08.2	03.4	00099	00375
7	38.0	56.0	43.2	01.7	02.3	01.9	-01.8	08.0	03.5	00114	00424
8	37.0	67.0	44.3	01.7	02.6	01.9	-01.4	07.6	03.5	00102	00381
0	00.0	72.0	37.3	00.3	06.6	01.1	-27.8	00.5	-15.2	00451	01413

## MOCNESS Data Sheet (NBP01-03)

Std. Station No. 84 (last station) Tow No. 18

Date (YY/MM/DD): 01/05/20

Filename (raw) M-18-001.raw Filename (processed) M-18-001.pro

### Net information

Net size: <u>1m<sup>2</sup></u>	Net Condition <u>new N3</u>
Net Mesh: <u>335 µm</u>	

### Start

### End

Location (Lat/Lon) <u>69 31.266 76 17.54</u>		Location (Lat/Lon)	
Time (Local) <u>1155</u>	Time (GMT) <u>1535</u>	Time (Local)	Time (GMT) <u>1728</u>
MOCNESS Battery Voltage <u>19.7</u>		MOCNESS Battery Voltage	

### Environmental parameters

Wind (Speed/direction)	Sea State
Clouds	Light
Air temp	SST

### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<u>0-460</u>	<u>0</u>	<u>1555</u>	<u>460</u>	<u>1624</u>	<u>216</u>		
1	<u>460-350</u>	<u>460</u>	<u>1624</u>	<u>350</u>	<u>1633</u>	<u>99</u>	<u>431</u>	<u>NO N.R.</u>
2	<u>350-250</u>	<u>350</u>	<u>1633</u>	<u>250</u>	<u>1642</u>	<u>125</u>	<u>500</u>	<u>NO N.R.</u>
3	<u>250-150</u>	<u>250</u>	<u>1642</u>	<u>150</u>	<u>1653</u>	<u>135</u>	<u>553</u>	<u>NO N.R.</u>
4	<u>150-100</u>	<u>150</u>	<u>1653</u>	<u>100</u>	<u>1700</u>	<u>89</u>	<u>376</u>	<u>NO N.R.</u>
5	<u>100-75</u>	<u>100</u>	<u>1700</u>	<u>75</u>	<u>1706</u>	<u>69</u>	<u>313</u>	<u>NO N.R.</u>
6	<u>75-50</u>	<u>75</u>	<u>1706</u>	<u>50</u>	<u>1713</u>	<u>73</u>	<u>375</u>	<u>NO N.R.</u>
7	<u>50-25</u>	<u>50</u>	<u>1713</u>	<u>25</u>	<u>1721</u>	<u>89</u>	<u>401</u>	<u>NO N.R.</u>
8	<u>25-0</u>	<u>25</u>	<u>1721</u>	<u>0</u>	<u>1728</u>			<u>yes response</u>

Comments:

**WOCNESS - [Data Acquisition and Control System]**

Acquisition Setup Hardware Setup Runtime Options Edit Setup Capture Screen About

**Environmental Parameters**

Time **17:29:15**  
 Pressure **0.5 m**  
 Temp **-1.92 C**  
 Salinity **3.05 o/oo**  
 Density **2.186**  
 Oxygen **10.13 ml/l**  
 Fluoresc. **0.3574 V**  
 LightXmis **0.7358 /m**

**Net Operation**

Net\_Num **9**  
 OpenTime **10 min**  
 Vol\_Filtered **22.3 m3**  
 Angle **21 deg**  
 Flow\_Counts **6**  
 Hor\_Vel **0.3 kts**  
 Vert\_Vel **-0.2 m/min**  
 Battery

**Net - Ship Position**

Latitude **69S 29.965**  
 Longitude **76W 9.172**  
 Net\_Dist **64.2 m**  
 Total\_Dist **5986.7 m**

Baud Rate **2400**  
 Sample Rate **4.0 sec**  
 Printer **Off**

**Program Settings**

Processed File Name **C:\MOCNESS\MOCDATA\NB01-2\18\_18\_001.P**  
 Raw File Name **C:\MOCNESS\MOCDATA\NB01-2\18\_18\_001.ra**  
 Name **##MN-18 00 21 1026 02329 0081 910447 678798 193#1**  
**\$GPGLL,6929.9654,S,07609.1725,W,172911.762**

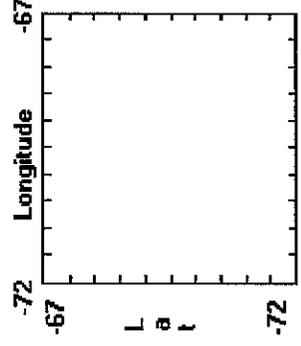
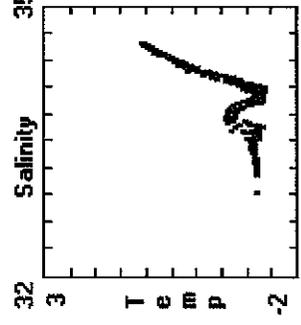
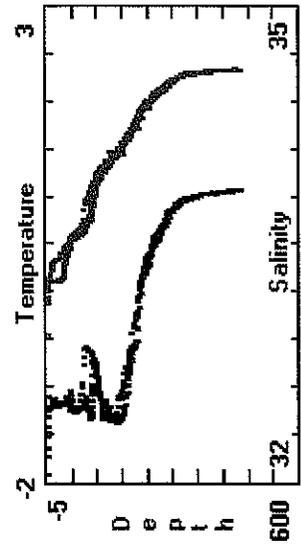
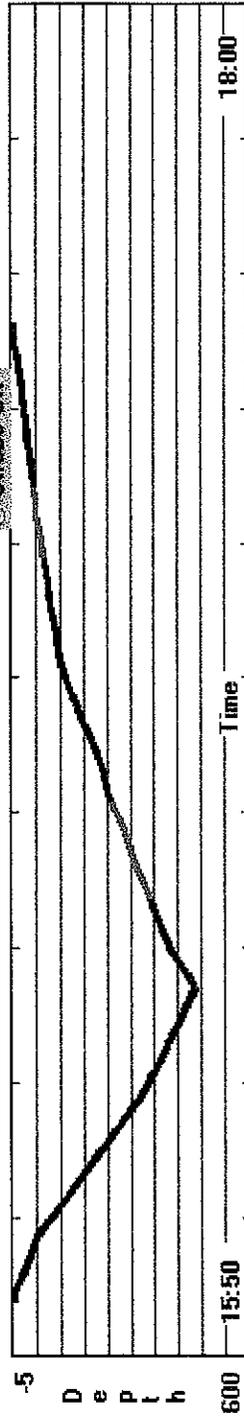
Step STBD Net

Increment Net#

Strobe On  
 Strobe Off

Pause Acqui

End Acqui



M-19-001  
 250501  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	-00.2	373.0	352.2	01.3	50.0	01.7	01.3	50.0	01.7	34.66	50.00	34.50
2	-00.1	346.5	308.4	-01.2	50.0	01.5	-01.2	50.0	01.5	00.69	50.00	32.64
3	248.8	291.3	264.2	01.2	01.3	01.3	01.2	01.3	01.3	34.62	34.65	34.63
4	199.4	249.0	220.6	01.1	01.2	01.2	01.1	01.2	01.2	34.57	34.62	34.60
5	99.0	198.3	143.9	-00.1	01.1	00.6	-00.1	01.1	00.6	34.30	34.57	34.46
6	50.1	99.5	74.2	-00.9	-00.1	-00.5	-00.9	-00.1	-00.5	33.75	34.30	34.14
7	24.6	49.5	40.1	-01.1	-00.9	-01.0	-01.1	-00.9	-01.0	33.58	33.76	33.67
8	00.3	23.5	10.5	-01.4	-01.1	-01.1	-01.4	-01.1	-01.1	17.48	33.59	33.33
0	-02.0	378.7	175.7	-01.4	50.0	00.6	-01.4	50.0	00.6	00.02	50.00	33.72

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	24.68	27.75	27.50	00.12	04.19	00.16	00.24	00.51	00.29	01.5	03.9	03.9
2	-11.42	27.75	26.07	00.11	05.81	00.17	00.25	00.54	00.27	01.1	07.7	03.7
3	27.72	27.74	27.73	00.11	00.11	00.11	00.25	00.32	00.29	03.9	04.0	03.9
4	27.70	27.72	27.71	00.11	00.11	00.11	00.25	00.32	00.29	03.9	04.0	03.9
5	27.54	27.70	27.63	00.11	00.13	00.11	00.25	00.33	00.29	03.9	04.8	04.2
6	27.14	27.54	27.43	00.11	00.13	00.12	00.24	00.33	00.29	04.6	07.1	05.5
7	27.01	27.14	27.07	00.13	00.13	00.13	00.27	00.34	00.31	07.2	07.6	07.5
8	13.96	27.01	26.81	-00.06	07.86	00.47	00.27	00.36	00.31	06.6	07.7	07.5
0	-11.92	40.38	27.02	00.00	04.22	00.13	00.00	00.54	00.28	-00.1	12.2	04.8

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	21.0	33.0	25.8	00.6	01.4	01.1	-01.9	09.7	03.8	00120	00339
2	20.0	42.0	24.2	00.0	11.4	01.1	-13.9	17.1	05.1	00136	00366
3	22.0	33.0	27.3	01.1	01.4	01.4	00.8	17.7	09.2	00074	00235
4	26.0	39.0	32.5	01.1	01.7	01.5	-05.7	12.2	04.2	00172	00599
5	24.0	45.0	32.3	01.4	02.0	01.6	04.3	16.1	09.7	00156	00543
6	35.0	50.0	40.8	01.4	02.3	02.0	00.8	12.1	07.0	00104	00402
7	33.0	48.0	38.2	01.4	02.0	01.7	-03.2	07.4	03.6	00107	00397
8	39.0	70.0	45.5	01.7	02.6	02.0	00.0	10.0	04.1	00092	00344
0	20.0	55.0	31.8	00.3	12.0	01.0	-23.6	07.7	-12.8	00434	01173

4 2 3

Lesig Port wind

## MOCNESS Data Sheet (NBP01-03)

Std. Station No. *37 Repeat station to pickup MOC tow* Tow No. *19*  
 Date (YY/MM/DD): *2001/05/25* *should be 05/26*  
 Filename (raw) *m-19\_001.Raw* Filename (processed) *m-19\_001.pro*

## Net information

Net size: 1m <sup>2</sup>	Net Condition <i>Good</i>
Net Mesh: 335 $\mu$ m	

## Start

## End

Location (Lat/Lon) <i>-67 50.176 70 02.304</i>	Location (Lat/Lon)
Time (Local) <i>2251</i>	Time (GMT) <i>025100</i>
MOCNESS Battery Voltage	MOCNESS Battery Voltage

## Environmental parameters

Wind (Speed/direction) <i>18-24 kts 220°</i>	Sea State <i>Combing up</i>
Clouds	Light
Air temp <i>-5.7 C bar -988.6</i>	SST <i>-1.1</i>

## Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	0	0	025100	375	031850	187	1173	From pro file
1	<del>325-350</del>	375	031850	350	032427	58	339.1	"
2	<del>350-300</del>	350	032427	<del>297</del>	033505	163	365.8	"
3	<del>300-250</del>	297	033505	250	034014	44	235.3	"
4	<del>250-200</del>	250	034014	200	035757	112	599.1	"
5	<del>200-100</del>	200	035757	100	040215	108 <sup>109</sup>	538 <sup>542.4</sup>	"
6	<del>100-50</del>	100	040215	50	040855	90	401	"
7	<del>50-25</del>	50	040855	25	041610	80	397	"
8	<del>25-0</del>	25	041610	0	0423	81	344	hit napoleon

## Comments:

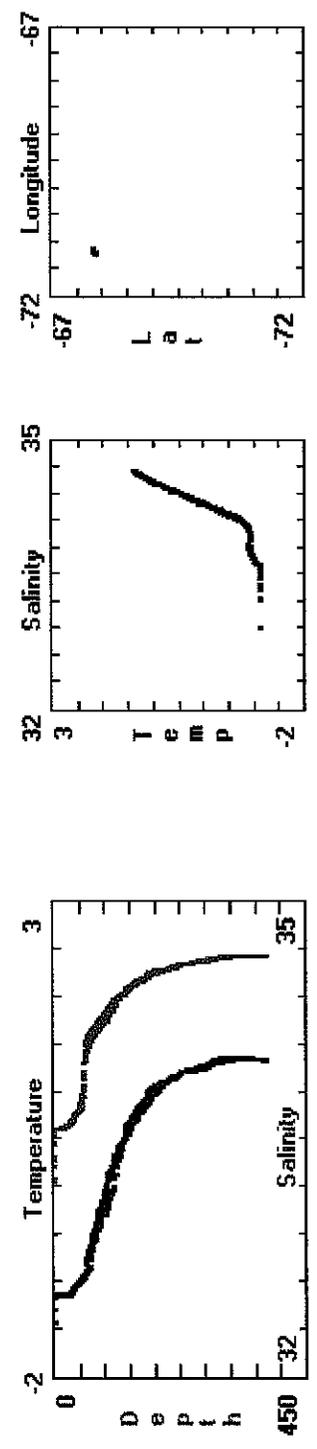
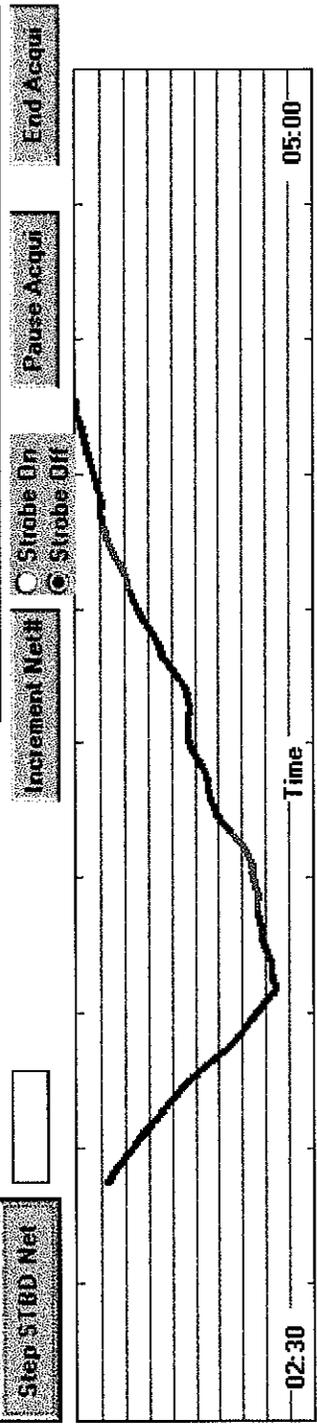
Water depth at start of tow = 416 m (SB)

Ship course 228 (into the wind)

394 depth when Net 1 opened at 375 m

Time 032651 - increment to net 2 - forgot since NONR  
 Net actually opened as listed in table above

Environmental Parameters		Net Operation		Net - Ship Position		Program Settings	
Time	04:23:24	Net_Num	9	Latitude	67S 51.661'	Reset	
Pressure	0.4 m	OpenTime	0.7 min	Longitude	71W 13.40	Baud Rate	2400
Temp	-1.29 C	Vol_Filtered	20.8 m3	Net_Dist	26.1 m	Sample Rate	4.0 sec
Salinity	31.62 o/oo	Angle	67 deg	Total_Dist	5225.3 m	Printer	Off
Density	25.421	Flow_Counts	5	Processed File Name	C:\MOCNESS\MOCDATA\NB01-~2\M_19_001.P		
Oxygen	6.74 ml/l	Hor_Vel	2.0 kts	Raw File Name	C:\MOCNESS\MOCDATA\NB01-~2\M_19_001.ra		
Fluoresc.	0.2600 V	Vert_Vel	0.0 m/min	##MN-13 00 67 0875 02331 0225 897198 333528 193M:1			
LightXmis	2.7619 /m	Battery		\$GPGLL,6751.6610,S,07113.4045,W,042245.109			



M-20-001  
260501  
RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax
savg											
net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax
oxavg											
net#	amin	amax	aaavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol

M-20A-001  
 260501  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
1	296.5	349.6	324.7	01.5	01.5	01.5	01.5	01.5	01.5	34.66	34.67	34.66
2	248.9	294.7	278.5	01.4	01.5	01.5	01.4	01.5	01.5	34.62	34.66	34.64
3	170.9	293.6	244.9	00.8	01.5	01.3	00.8	01.5	01.3	34.48	34.65	34.60
4	95.9	169.5	125.0	-00.3	00.8	00.1	-00.3	00.7	00.1	34.20	34.48	34.33
5	70.6	94.3	82.4	-00.9	-00.4	-00.7	-01.0	-00.4	-00.7	34.09	34.20	34.14
6	49.5	73.3	62.8	-01.2	-00.7	-00.8	-01.2	-00.7	-00.8	33.67	34.08	33.93
7	23.9	50.1	37.5	-01.2	-01.2	-01.2	-01.2	-01.2	-01.2	33.65	33.68	33.66
8	00.6	24.4	11.0	-01.2	-01.1	-01.2	-01.2	-01.1	-01.2	29.39	33.66	33.57
0	256.3	351.0	303.0	01.4	03.3	01.5	01.4	03.3	01.5	32.62	34.67	34.62

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
1	27.73	27.74	27.74	00.09	00.10	00.10	00.26	00.32	00.28	03.9	04.0	04.0
2	27.71	27.73	27.73	00.09	00.10	00.09	00.25	00.32	00.28	03.9	04.0	04.0
3	27.64	27.73	27.71	00.09	00.11	00.10	00.25	00.33	00.29	03.9	04.2	04.0
4	27.48	27.64	27.55	00.10	00.12	00.11	00.24	00.33	00.29	04.2	04.9	04.5
5	27.41	27.48	27.44	00.11	00.11	00.11	00.27	00.33	00.29	04.9	05.7	05.4
6	27.08	27.40	27.28	00.11	00.12	00.11	00.26	00.36	00.29	05.6	07.5	06.2
7	27.07	27.09	27.08	00.12	00.16	00.12	00.28	00.34	00.31	07.4	07.5	07.5
8	23.61	27.07	27.00	-00.03	08.24	00.38	00.27	00.34	00.30	06.9	07.8	07.5
0	25.96	27.74	27.71	00.00	00.11	00.10	00.00	00.32	00.28	-00.1	21.3	04.5

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
1	35.0	45.0	39.2	01.4	02.3	02.0	01.0	22.8	15.9	00047	00171
2	39.0	58.0	46.6	01.4	02.6	02.0	-10.7	19.8	04.9	00147	00535
3	34.0	68.0	45.0	00.9	02.6	01.9	-30.5	28.8	05.2	00215	00768
4	38.0	66.0	47.6	01.4	02.6	02.2	-11.4	18.4	05.1	00221	00858
5	39.0	49.0	45.1	02.0	02.3	02.2	09.4	15.6	11.8	00031	00116
6	39.0	59.0	47.4	01.4	02.6	02.1	-12.6	11.3	03.2	00105	00404
7	38.0	61.0	47.0	01.7	02.3	02.0	-05.9	10.0	03.3	00113	00428
8	44.0	71.0	51.6	02.0	03.1	02.4	-01.2	10.0	03.1	00116	00475
0	34.0	57.0	44.8	00.6	02.3	01.1	-99.0	-02.9	-30.1	00072	00259

### MOCNESS Data Sheet (NBP01-03)

Std. Station No. 44 *Repeat station to pick up missing tow* Tow No. 20

Date (YY/MM/DD): 01/05/26

Filename (raw) M-20-001.raw Filename (processed) M-20-001.prd  
M-20-002.raw M-20-002.prd

#### Net information

Net size: 1m <sup>2</sup>	Net Condition <u>Good</u>
Net Mesh: 335 μm	

Start		End	
Location (Lat/Lon) <u>-67 54.4 -72 27.7</u>		Location (Lat/Lon) <u>67 58.191 72 33.96</u>	
Time (Local)	Time (GMT) <u>0751</u>	Time (Local) <u>0540</u>	Time (GMT) <u>0940</u>
MOCNESS Battery Voltage <u>19.2 V</u>		MOCNESS Battery Voltage <u>19.2</u>	

#### Environmental parameters

Wind (Speed/direction) <u>30-40 KTS, 210°</u>	Sea State <u>12'</u>
Clouds <u>CLEAR</u>	Light <u>NIGHT</u>
Air temp <u>-6.5 C, 98.9 mB Bar</u>	SST <u>-1.26</u>

-300C wind chill

#### Net-tow information

Net #	Depth Range	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<u>30-350</u>	<u>0</u>	<u>0751</u>	<u>34.9</u>	<u>Stroke 0832</u>	<u>38 for 26-249m</u>	<u>1645 + 250</u>	<u>NO NR</u>
1	<u>350-300</u>	<u>349</u>	<u>0832</u>	<u>29.6</u>	<u>0835</u>	<u>7 43</u>	<u>171.3</u>	<u>NO NR</u>
2	<u>300-250</u>	<u>296</u>	<u>0835</u>	<u>24.9</u>	<u>0845</u>	<u>130</u>	<u>535</u>	<u>NO NR</u>
3	<u>250-175</u>	<u>249</u>	<u>0845</u>	<u>17.0</u>	<u>9:00</u>	<u>- 183</u>	<u>705 768</u>	<u>NO NR</u>
4	<u>175-100</u>	<u>170</u>	<u>0900</u>	<u>94.8</u>	<u>0914</u>	<u>211</u>	<u>850</u>	<u>NO NR</u>
5	<u>100-75</u>	<u>94.8</u>	<u>0914</u>	<u>69.8</u>	<u>0916</u>	<u>30</u>	<u>112</u>	<u>NO NR</u>
6	<u>75-50</u>	<u>69.8</u>	<u>0916</u>	<u>48.4</u>	<u>0924</u>	<u>- 97</u>	<u>404</u>	<u>NO NR</u>
7	<u>50-25</u>	<u>48.4</u>	<u>0924</u>	<u>24</u>	<u>0931</u>	<u>102</u>	<u>420</u>	<u>NO NR</u>
8	<u>25-0</u>	<u>24</u>	<u>0931</u>	<u>0</u>	<u>0940</u>		<u>475</u>	<u># early NR</u>

stroke on recovery

Comments: Pressure & 1.1 M & 268 M wire out

Pressure & 26.6m from 268m

8:25 → stopped data acquisition → restart program, 1645 m<sup>3</sup>

restarted on M-20-002.\* 08:29 Pressure working  
Wind net depths because of water Δ + sleepy people

N3: Sank quite a bit because ship speed  
dropped, also may be currents

- because of wind gusts, ship speed is  
surging. need to compensate w/ wind  
speed

- big drop in depth due to Ding ship  
speed

- bridge has to hold rpm constant

0916 N6 turning slightly to avoid 'berg

MDCNESS - [Data Acquisition and Control System]

Acquisition Setup Hardware Setup Runtime Diagnostics Plot Setup Capture Screen About

Environmental Parameters

Time 09:39:50  
 Pressure 0.6 m  
 Temp -1.15 C  
 Salinity 33.58 o/oo  
 Density 27.006  
 Oxygen 7.18 ml/l  
 Fluoresc. 0.3438 V  
 LightXmis 0.0997 /m

Net Operation

Net\_Num 9  
 OpenTime 0.3 min  
 Vol\_Filtered 12.3 m3  
 Angle 70 deg  
 Flow\_Counts 4  
 Hor\_Vel 2.0 kts  
 Vert\_Vel 0.0 m/min  
 Battery

Net - Ship Position

Latitude 675 58.191  
 Longitude 72W 33.96  
 Net\_Dist 27.7 m  
 Total\_Dist 5362.4 m

Program Settings

Baud Rate 2400  
 Sample Rate 4.0 sec  
 Printer Off

Processed File Name C:\MDCNESS\MDCDATA\MBP01--2\AM\_20\_002.P  
 Raw File C:\MDCNESS\MDCDATA\MBP01--2\AM\_20\_002.ra  
 Name ##MN-40 00 70 0964 02332 0157 894328 325233 192II:I  
 \$GPGLL,6758.1911,S,07233.9628,W,093910.083

Step 5 (BD Net)

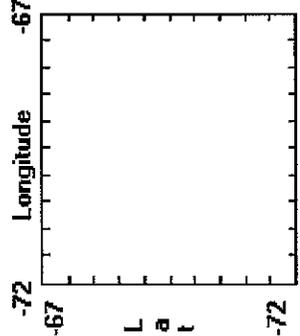
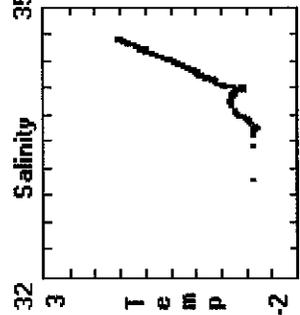
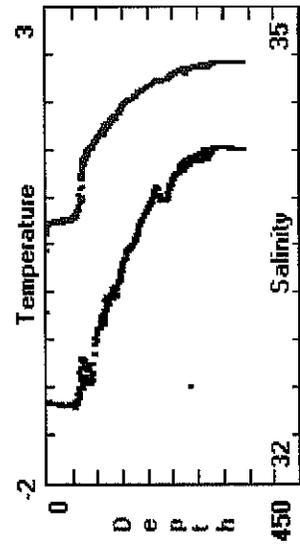
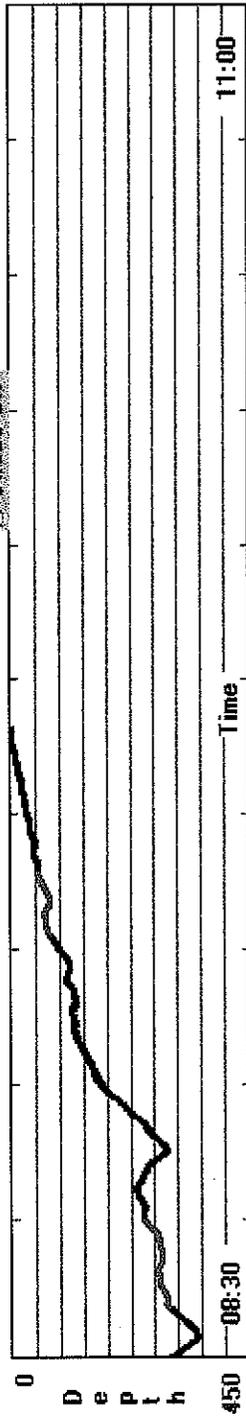
Step 3

Increment Net#

Strobe On  
 Strobe Off

Pause Acqui

End Acqui



M-21-001  
 260501  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
0	-02.8	-00.3	-01.0	-00.8	21.9	04.3	-00.8	21.9	04.3	50.00	50.00	50.00
2	53.8	99.2	79.6	-00.7	-00.3	-00.4	-00.7	-00.3	-00.4	33.39	33.64	33.54
0	-02.8	-00.3	-01.0	-00.8	21.9	04.3	-00.8	21.9	04.3	50.00	50.00	50.00
3	50.2	97.9	70.0	-00.7	-00.3	-00.5	-00.7	-00.3	-00.5	33.37	33.64	33.50
4	50.1	100.1	73.5	-00.8	-00.1	-00.4	-00.8	-00.1	-00.4	33.37	33.63	33.50
6	50.4	100.9	75.6	-00.8	-00.1	-00.3	-00.8	-00.1	-00.3	33.36	33.61	33.51
7	50.7	99.9	75.0	-00.8	-00.1	-00.4	-00.8	-00.1	-00.4	33.37	33.62	33.50
0	-02.8	-00.3	-01.0	-00.8	21.9	04.3	-00.8	21.9	04.3	50.00	50.00	50.00
8	50.4	101.0	75.5	-00.8	-00.2	-00.4	-00.8	-00.2	-00.4	33.37	33.62	33.50
9	49.3	102.0	73.9	-00.8	-00.2	-00.4	-00.8	-00.2	-00.4	33.37	33.64	33.49
10	50.2	99.7	74.8	-00.8	-00.2	-00.4	-00.8	-00.2	-00.4	33.36	33.59	33.48

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
0	35.71	40.33	39.49	00.00	03.15	03.01	00.00	00.99	00.48	-00.1	47.8	07.7
2	26.83	27.02	26.95	00.36	00.43	00.39	00.28	00.34	00.30	07.0	07.5	07.3
0	35.71	40.33	39.49	00.00	03.15	03.01	00.00	00.99	00.48	-00.1	47.8	07.7
3	26.82	27.02	26.91	00.36	00.43	00.39	00.27	00.35	00.30	07.0	07.5	07.4
4	26.82	27.00	26.91	00.36	00.43	00.38	00.26	00.33	00.30	06.6	07.6	07.1
6	26.82	26.99	26.92	00.36	00.41	00.38	00.26	00.35	00.30	06.6	07.6	07.1
7	26.83	27.00	26.91	00.36	00.41	00.39	00.25	00.34	00.30	06.6	07.6	07.2
0	35.71	40.33	39.49	00.00	03.15	03.01	00.00	00.99	00.48	-00.1	47.8	07.7
8	26.82	27.00	26.91	00.36	00.41	00.38	00.26	00.34	00.30	06.7	07.6	07.1
9	26.82	27.02	26.91	00.36	00.42	00.38	00.27	00.34	00.30	06.7	07.6	07.2
10	26.82	26.98	26.90	00.36	00.41	00.39	00.27	00.34	00.30	06.8	07.6	07.2

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
0	50.0	50.0	50.0	00.0	00.9	00.3	-02.6	05.2	00.3	00024	<del>00013</del>
2	41.0	50.0	44.8	01.4	02.0	01.6	-11.9	-01.9	-08.6	00080	00298
0	50.0	50.0	50.0	00.0	00.9	00.3	-02.6	05.2	00.3	00024	<del>00013</del>
3	40.0	52.0	44.6	02.0	02.6	02.3	01.4	14.5	09.9	00073	00295
4	41.0	50.0	45.2	01.4	02.6	02.0	-13.3	14.9	-00.1	00140	00559
6	36.0	50.0	41.6	01.4	02.6	01.9	-17.8	18.4	00.0	00114	00461
7	39.0	47.0	43.2	01.4	02.6	02.0	-15.9	17.8	00.0	00117	00467
0	50.0	50.0	50.0	00.0	00.9	00.3	-02.6	05.2	00.3	00024	<del>00013</del> ?
8	39.0	46.0	42.9	01.4	02.6	02.0	-15.7	14.3	00.0	00145	00599
9	40.0	48.0	44.4	01.4	02.6	02.0	-16.8	15.5	00.0	00149	00603
10	39.0	47.0	42.9	01.4	02.6	02.0	-14.5	17.0	00.0	00129	00526

10N/OFF selected by selecting at random + sequentially.  
 pieces of paper labelled 'on' or 'off' from box, 4 labelled  
 'on', four labelled 'off'. Selector cannot see inside box.

**MOCNESS Data Sheet (NBP01-03)**

Std. Station No. *NONE - KRIL PATCH* Tow No. *21*

Date (YY/MM/DD): *01/05/28*

Filename (raw) *M-21-001.raw*

Filename (processed) *M-21-001.pro*

**Net information**

Net size: 1m <sup>2</sup>	Net Condition <i>good, new net on #7</i>
Net Mesh: 335 µm	<i>new cod end #6</i>

**Start**

**End**

Location (Lat/Lon) <i>67 52.925, 68 6.54</i>	Location (Lat/Lon) <i>67 53.536 68 14.78</i>
Time (Local) <i>7:50</i>   Time (GMT) <i>11:50</i>	Time (Local) <i>9:33</i>   Time (GMT) <i>13:33</i>
MOCNESS Battery Voltage <i>19.6</i>	MOCNESS Battery Voltage <i>19.1</i>

**Environmental parameters**

Wind (Speed/direction) <i>21-22 kt, 60°</i>	Sea State <i>four swell</i>
Clouds <i>yes</i>	Light <i>dark</i>
Air temp <i>-1.1°C</i>	SST <i>-1.1°C</i>

**Net-tow information**

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close GMT	Flow counts	Vol filtered	Comments STROBE
0	0-50	0	7:50	52	121119	260	1198	
<i>+ increment + 3 2 + 1</i> 1	50-100- 50	52	12:11:19	50	122158	<del>50</del> N+73	297+295.1 N500	OFF Two net pocp
<i>2-1</i> 4 2 data	50-100- 50	50	1221	50	123130	123	559.5 560	OFF
<i>3</i> 5 1 data	50-100- 50	50	1231	50	1242	138	636.2 632	ON
<i>4</i> 6 1 data	50-100- 50	50	1242	50	1249	98	467.1 447	ON
<i>5</i> 7 1 data	50-100- 50	50	1249	52	125739	101	467.1	ON
<i>6</i> 8 1 data	50-100- 50	52	125739	50	130719	127	599.4	OFF
7	50-100- 50	50	1307	50	131722	130	603.4	ON
8	50-100- 50	50	131722	50	1326	112	526.1	OFF

Strobe was on during test at end when net near surface

Comments: Net 1 got net response + increment, <sup>by mistake</sup> so Net 1 = 2  
 Net # went from 2 to 3 spontaneously at 12:17.5-7 = actual net 1

Forgot to reset program after test so that net 0 actual = net 1 in data  
 net 1 actual = net 2+3 in the data, net 2 actual = net 4 data etc.  
 NR is working sometimes

Maurice selected papers for 0 or off

122719 Net 2 (real) / Net 4 (data) @ bottom of 'V'

123629 Net 3 (real) / Net 5 (data) @ bottom of 'V'

1239 data on Simrad is getting thinner in  
vertical extent

124523 Bottom Net #4

125336 Net #5 (#7 data) is @ bottom of 'V'

Sampling while whale(s) present

130236 - Net #6 bottom of tow

1309 REALLY DENSE layer

67 53.204, 68 12.669

131228 Net #7 @ bottom of 'V'

1320 patch Thinning

132126 net #7 (real) / #9 (data) @ bottom of 'V'

Net 1 closed at <sup>53.007</sup> - 67.88345 - <sup>08.271</sup> 68.1379

Net 4 closed at <sup>53.067</sup> - 67.88445 - <sup>10.776</sup> 68.1796 W

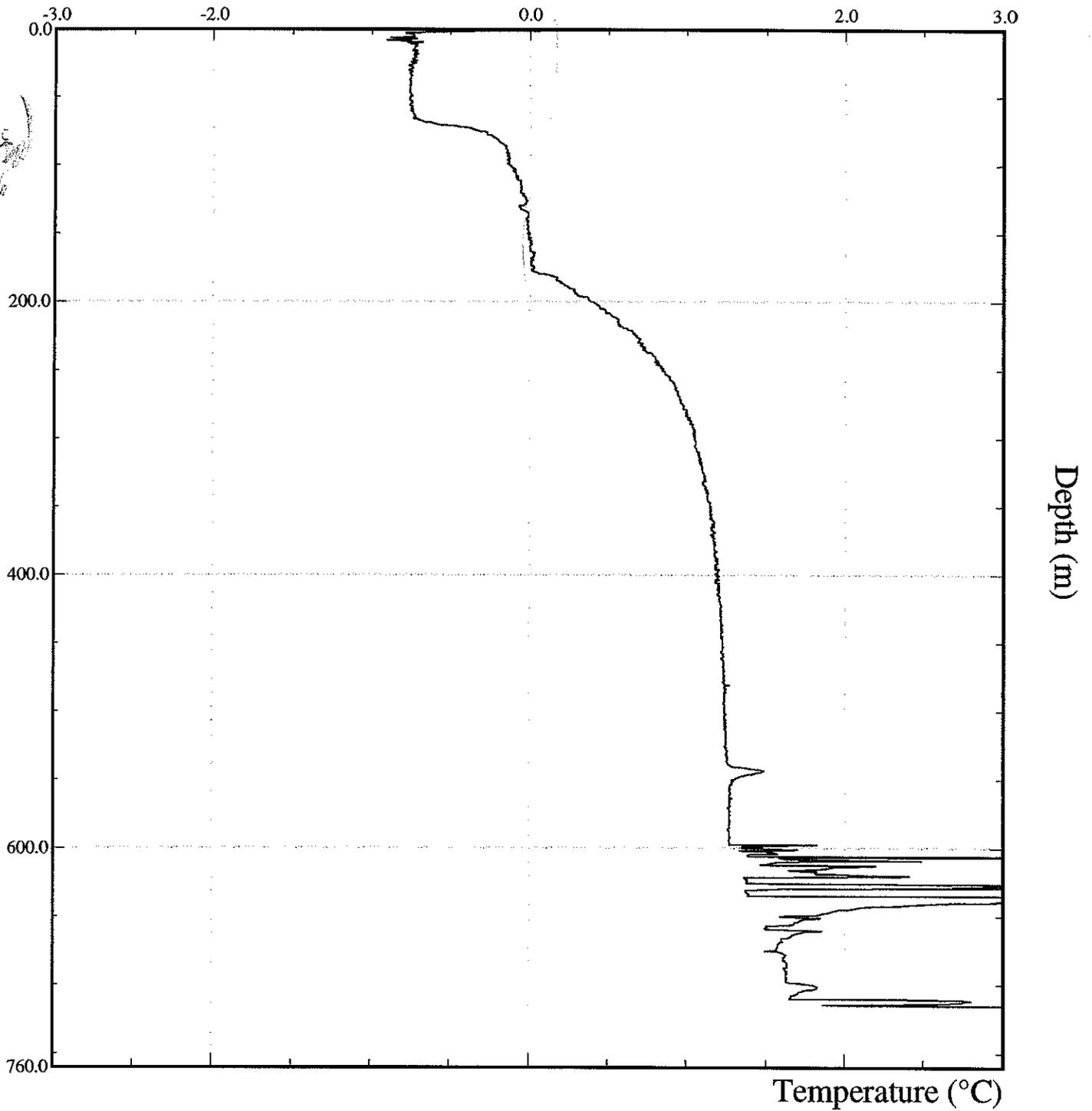
Net 8 closed at <sup>53.433</sup> - 67.89055 - <sup>14.07</sup> 68.2345 W

Now 67 53.220  
68 12.534

First light was coming  
towards the end of the  
tow.

Net 8 - had low catch & only 2 or so  
adult kull looked like it was  
out of kull patch layer Atw

XBT done during MOC 21



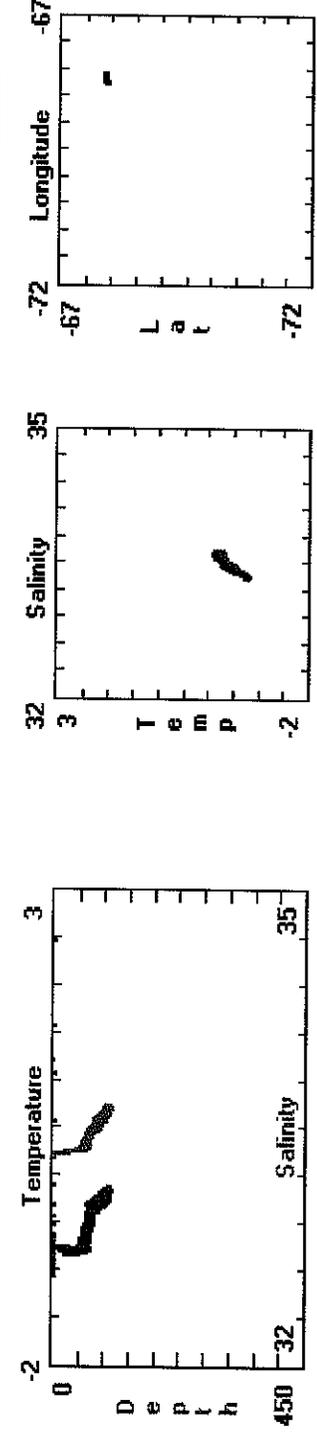
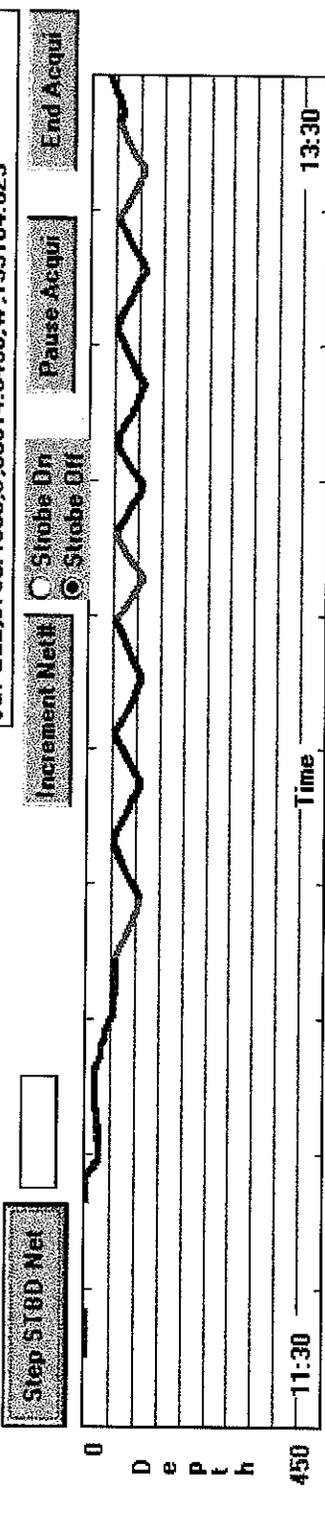
Probe: T-7 Terminal Depth: 760 m Drop Rate Eqn: IGOSS Coefficient A: 6.691 Coefficient B: -0.00225	Data Filename: T7_00559 Data Pathname: c:\sipp...\nbp0103 Sequence #: 559  Latitude: 67° 53.13S Longitude: 68° 12.27W  Serial #: 0
--	---

**MOCNES - [Data Acquisition and Control System]**

Acquisition Setup Hardware Setup Runtime Options Plot Setup Capture Screen About

**Environmental Parameters      Net Operation      Net - Ship Position      Program Settings**

Time	13:31:08	Net_Num	11	Latitude	67S 53.499	Reset
Pressure	20.4 m	OpenTime	5.1 min	Longitude	68W 14.54	Baud Rate
Temp	-0.82 C	Vol_Filtered	385.5 m3	Net_Dist	354.7 m	Sample Rate
Salinity	33.36 ‰	Angle	40 deg	Total_Dist	6835.8 m	Printer
Density	26.815	Flow_Counts	79	Processed File Name	C:\MOCNES\MOCDATA\NBPO1~2\M_21_001.P	
Oxygen	7.57 ml/l	Hor_Vel	2.6 kts	Raw File Name	C:\MOCNES\MOCDATA\NBPO1~2\M_21_001.ra	
Fluoresc.	0.3062 V	Vert_Val	10.6 m/min	###MN-12 00 40 1309 02522 0176 887668 324653 191II:I		
LightXmis	0.4040 /m	Battery		\$PGLL.6753.4996.S.06814.5436.W.133104.825		



## MOCNESS Data Sheet (NBP01-03)

Std. Station No.	<i>Koill Palda Study</i>	Tow <sup>2</sup> No.	22
Date (YY/MM/DD):	27 May 2001 ← This should be the 29 <sup>th</sup> GMT CJD		
Filename (raw)	M_22_001_Raw	Filename (processed)	M_22_001_PID

### Net information

Net size: 1m <sup>2</sup>	Net Condition <i>good, new net on #7</i>
Net Mesh: 335 μm	<i>new cord - end #6</i>

Start		End	
Location (Lat/Lon)	<i>67 52.6245 68 26.0050</i>	Location (Lat/Lon)	<i>67 53.58 68 21.68</i>
Time (Local)	<i>22 02 20</i>	Time (GMT)	<i>02 02 20</i>
MOCNESS Battery Voltage	<i>19.4</i>	MOCNESS Battery Voltage	

### Environmental parameters

Wind (Speed/direction)	<i>25 Kts 016 deg</i>
Clouds	<i>Yes - snowing lightly</i>
Air temp	<i>-1.5C</i>
Sea State	<i>Moderate - No fetch</i>
Light	<i>darkness</i>
SST	<i>-</i>

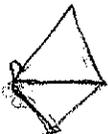
### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<i>0-50</i>	0	<i>020458 = Reset</i> <i>020418</i>	<i>50</i>	<i>023809</i>	<i>441</i>	<i>1983.8</i>	<i>had to hold to set net into water</i>
1	<i>50-90</i>	50	<i>023809</i>	50	<i>0248:11</i>	<i>130</i>	<i>581.6</i>	<i>ON</i>
* 3(2)	<i>50-90</i>	50	<i>02:48:11</i>	<i>51.8</i>	<i>02:55:33</i>	<i>186</i>	<i>409.1</i>	<i>OFF</i>
4(3)	<i>50-90</i>	<i>51.8</i>	<i>02:55:33</i>	<i>50.4</i>	<i>03:04:43</i>	<i>124</i>	<i>573.0</i>	<i>OFF</i>
5(4)	<i>50-90</i>	50.4	<i>03:04:43</i>	<i>50.9</i>	<i>03:13:57</i>	<i>127</i>	<i>572.4</i>	<i>ON</i>
6(5)	<i>50-90</i>	50.9	<i>03:13:57</i>	<i>50.6</i>	<i>03:24:19</i>	<i>136</i>	<i>612.1</i>	<i>ON</i>
7(6)	<i>50-90</i>	<i>50.6</i>	<i>03:24:19</i>	<i>50.0</i>	<i>03:32:25</i>	<i>97</i>	<i>463.4</i>	<i>OFF</i>
8(7)	<i>50-90</i>	50	<i>03:32:25</i>	<i>50.5</i>	<i>03:41:23</i>	<i>117</i>	<i>540.2</i>	<i>OFF</i>
9(8)	<i>50-90</i>	<i>50.5</i>	<i>03:41:23</i>	<i>50.1</i>	<i>03:50:45</i>	<i>126</i>	<i>580.0</i>	<i>ON</i>

*Sequence ON, OFF, OFF, ON, ON OFF OFF ON*

Comments:

*Scott reached in + selected & labelled papers one at a time*  
*Ship's speed ~ 2.5 Kts*



\* NET 2 got net response + accidentally incremented net #

Tow 22:

through-out haul, winch rate was 15 m/min

- Note last net was not really towed in  
The intense kill scatter layer that  
other nets towed in.

**MOCNESS - [Data Acquisition and Control System]**

Acquisition Setup Hardware Setup Runtime Diagnostics Plot Setup Logview Screen About

**Environmental Parameters**

Time 3:58:42  
 Pressure 0.2 m  
 Temp -1.46 C  
 Salinity 50.0 o/oo  
 Density 40.385  
 Oxygen  
 Fluoresc.  
 LightXmis

**Net Operation**

Net\_Num 6  
 OpenTime 7.0 min  
 Vol\_Filtered 8527 m3  
 Angle 33.0 deg  
 Flow\_Counts 121  
 Hor\_Vel 1.4 kts  
 Vert\_Vel 0.2 m/min  
 Battery

**Net - Ship Position**

Latitude 67S 55.581  
 Longitude 68W 21.68  
 Net\_Dist 566.3 m  
 Total\_Dist 7172.5 m

**Program Settings**

Baud Rate 2400  
 Sample Rate 4.0 sec  
 Printer Off

Processed File Name  
 Raw File Name  
 C:\MOCNESS\MOCDATA\MBP01-2VM\_22\_001.R

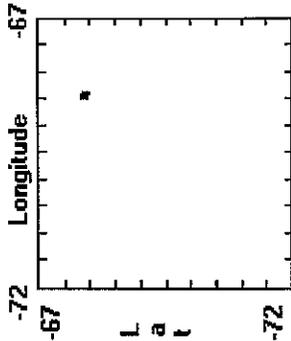
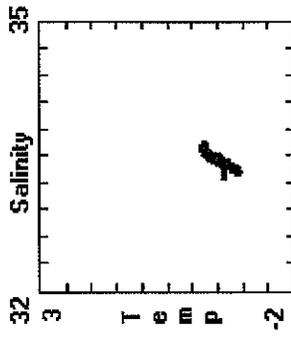
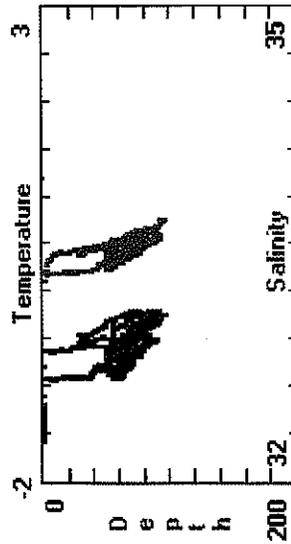
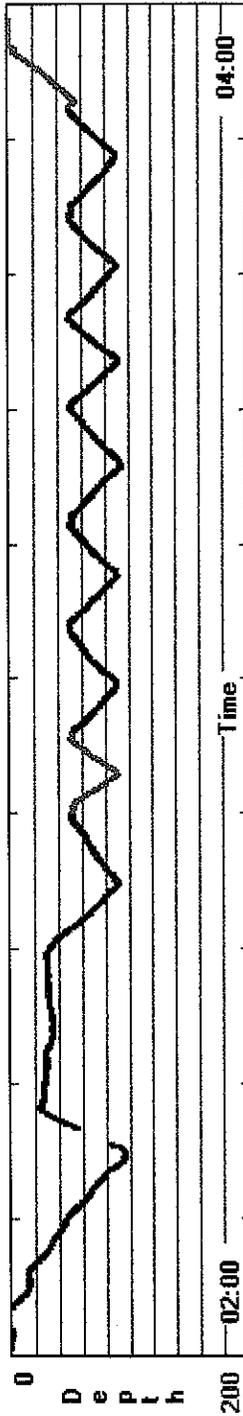
Acquisition Ended. trys = 0

Step 5785 Net

Increment Net

Pause Acqui

End Acqui



### MOCNESS Data Sheet (NBP01-03)

*Stroke off*

Std. Station No. *Krill Patch Study* Tow No. *23*

Date (YY/MM/DD): *29 MAY 2001*

Filename (raw) *M\_23\_001\_veww* Filename (processed) *M\_23\_001.pv*

#### Net information

Net size: 1m <sup>2</sup>	Net Condition <i>good</i>
Net Mesh: 335 μm	

#### Start

#### End

Location (Lat/Lon) <i>6755.444 68 21.547</i>	Location (Lat/Lon) <i>6754.38 68 25.67</i>
Time (Local)	Time (GMT) <i>0507</i>
MOCNESS Battery Voltage <i>19.0</i>	MOCNESS Battery Voltage

#### Environmental parameters

Wind (Speed/direction) <i>18 / 330</i>	Sea State <i>moderate</i>
Clouds <i>No snow</i>	Light <i>dark</i>
Air temp <i>-1.5°C</i>	SST <i>-</i>

#### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<i>0-50</i>	<i>0</i>		<i>50</i>	<i>0511</i>	<i>82</i>	<i>528</i>	<i>Stroke</i> <i>OFF</i> *
1	<i>50-90-50</i>	<i>50</i>	<i>0511</i>	<i>50</i>	<i>0518</i>	<i>52</i>	<i>316</i>	<i>ON</i>
2	<i>50-90-50</i>	<i>50</i>	<i>0518</i>	<i>50</i>	<i>0526</i>	<i>54</i>	<i>323</i>	<i>OFF</i> ✓
3	<i>50-90-50</i>	<i>50</i>	<i>0526</i>	<i>50</i>	<i>0533</i>	<i>53</i>	<i>322</i>	<i>ON</i>
4	<i>50-90-50</i>	<i>50</i>	<i>0533</i>	<i>50</i>	<i>0542</i>	<i>79</i>	<i>450</i>	<i>ON</i>
5	<i>50-90-50</i>	<i>50</i>	<i>0542</i>	<i>50</i>	<i>0551</i>	<i>52</i>	<i>323</i>	<i>OFF</i> ✓
6	<i>50-90-50</i>	<i>50</i>	<i>0551</i>	<i>50</i>	<i>0558</i>	<i>46</i>	<i>291</i>	<i>OFF</i> ✓
7	<i>50-90-50</i>	<i>50</i>	<i>0558</i>	<i>50</i>	<i>0605</i>	<i>43</i>	<i>281</i>	<i>ON</i>
8	<i>50-90-50</i>	<i>50</i>	<i>0605</i>	<i>50</i>	<i>0612</i>	<i>43</i>	<i>285</i>	<i>OFF</i> ✓

\* GOT NET BAR RESPONSE AND ALSO INCREMENTED NET

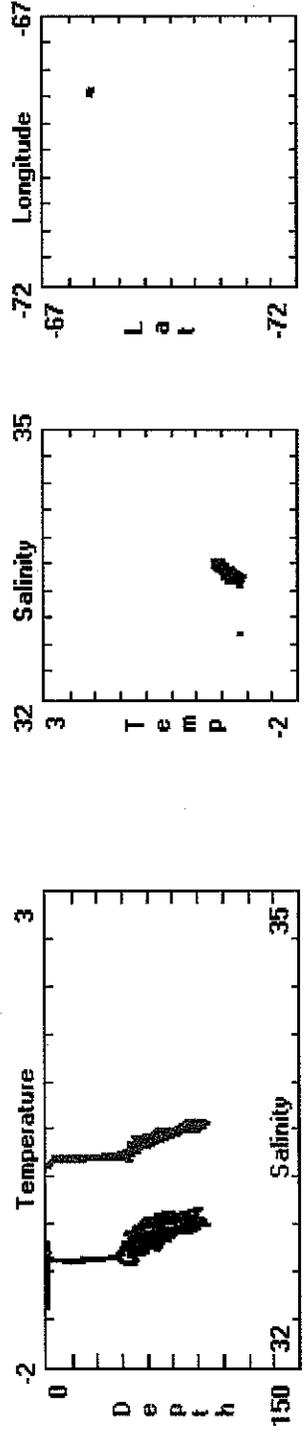
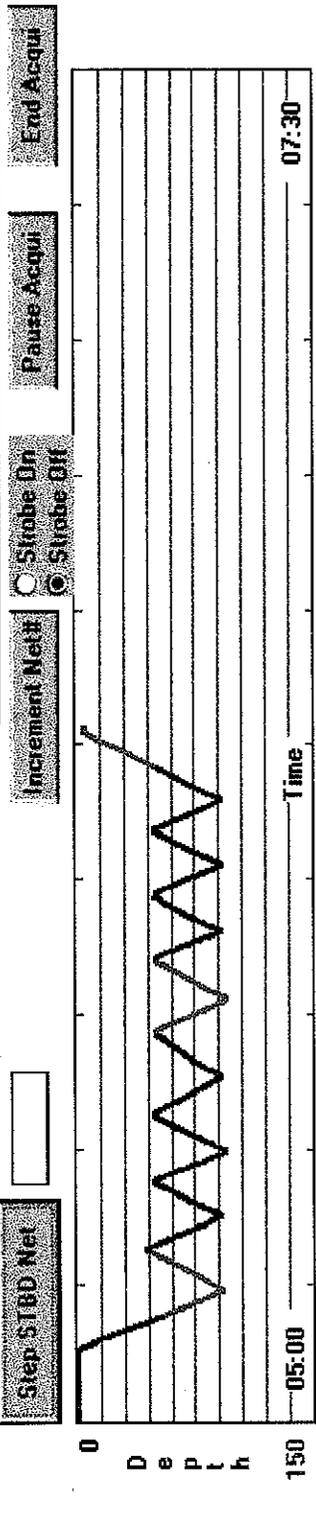
Comments:

- 1 - ON
- 2 - OFF
- 3 - ON
- 4 - ON
- 5 - OFF
- 6 - OFF
- 7 - ON
- 8 - OFF

*a la Matt*

✓ GOT NET RESPONSE

Environmental Parameters		Net - Ship Position		Program Settings	
Time	06:17:00	Latitude	67S 54.387	Reset	
Pressure	5.2 m	Longitude	68W 25.62	Baud Rate	2400
Temp	-0.87 C	Net_Dist	199.1 m	Sample Rate	4.0 sec
Salinity	33.32 o/oo	Total_Dist	5206.5 m	Printer	Off
Density	26.791	Processed File Name	C:\MOCNESS\MOCDATA\MBP01_~2\M_23_001.P		
Oxygen	7.49 ml/l	Raw File Name	C:\MOCNESS\MOCDATA\MBP01_~2\M_23_001.ra		
Fluoresc.	0.2994 V	##MN-14 00 09 06:38 02375 0135 888571 324993 189III:1			
LightXmis	0.3136 /m	\$GPGLL,6754.3875,S,06825.6247,W,061651.741			



### MOCNESS Data Sheet (NBP01-03)

Std. Station No. <i>Krill Patch stud 1</i>	Tow No. <i>024</i>
Date (YY/MM/DD): <i>010529</i>	
Filename (raw) <i>M_24_001</i>	Filename (processed)

#### Net information

Net size: 1m <sup>2</sup>	Net Condition <i>good</i>
Net Mesh: 335 μm	

Start		End	
Location (Lat/Lon) <i>67 55.331 N 68 20.688 W</i>		Location (Lat/Lon) <i>67 54.082 68 23.19</i>	
Time (Local) <i>0300</i>	Time (GMT) <i>0700</i>	Time (Local) <i>447</i>	Time (GMT) <i>847</i>
MOCNESS Battery Voltage <i>19.0</i>		MOCNESS Battery Voltage <i>18.8 V</i>	

#### Environmental parameters

Wind (Speed/direction) <i>008 / 029°</i>	Sea State <i>SLIGHT</i>
Clouds	Light <i>DARK</i>
Air temp <i>-6.1</i>	SST <i>-0.57°C</i>

#### Net-tow information

Net #	Depth	Depth-open	Time-open	Depth-close	Time-close	Flow counts	Vol filtered	Comments
0	<i>000-600</i>	<i>0</i>	<i>0710</i>	<i>600</i>	<i>740</i>	—	—	<i>Net used 400 822</i>
1	<i>600-400</i>	<i>600</i>	<i>0740</i>	<i>400</i>	<i>0752</i>	<i>120</i>	<i>601</i>	<i>NET RESP.</i>
2	<i>400-300</i>	<i>400</i>	<i>0752</i>	<i>296</i>	<i>0759</i>	<i>78</i>	<i>357</i>	<i>YES NR</i>
3	<i>300-200</i>	<i>296</i>	<i>0759</i>	<i>199.6</i>	<i>080850</i>	<i>111</i>	<i>528</i>	<i>YES NR</i>
4	<i>200-100</i>	<i>199.6</i>	<i>0808</i>	<i>99.8</i>	<i>819</i>	<i>131</i>	<i>609</i>	<i>YES NR</i>
5	<i>100-75</i>	<i>99.8</i>	<i>0819</i>	<i>75</i>	<i>820</i>	<i>86</i>	<i>420</i>	<i>YES NR</i>
6	<i>75-58</i>	<i>75</i>	<i>826</i>	<i>49</i>	<i>0834</i>	<i>81</i>	<i>400</i>	<i>YES NR</i>
7	<i>50-25</i>	<i>49</i>	<i>0834</i>	<i>24.7</i>	<i>839</i>	<i>75</i>	<i>351</i>	<i>YES NR</i>
8	<i>25-0</i>	<i>24.7</i>	<i>839</i>	<i>0</i>	<i>847</i>	<i>83</i>	<i>397</i>	<i>YES NR</i>

Comments: *Strobe on at surface upon recovery*  
*Bottom Depth 688m (MB)*  
*\* Strobe turned on at 0805, 232 meters*  
*to send a bit low this tow (?)*

M-24-001  
 290501  
 RVIB NBP01-03

MOCNESS STATISTICAL SUMMARY

net#	pmin	pmax	pavg	tmin	tmax	tavg	thmin	thmax	thavg	smin	smax	savg
0	-00.1	602.3	146.9	-01.1	10.1	00.0	-01.1	10.1	00.0	00.38	50.00	27.93
1	00.1	599.4	490.6	-00.7	01.2	01.2	-00.7	01.2	01.1	34.58	50.00	34.50
2	298.7	397.4	347.6	01.0	01.1	01.1	01.0	01.1	01.1	34.55	34.60	34.58
3	199.3	296.9	245.1	00.4	01.0	00.8	00.4	01.0	00.8	34.35	34.55	34.48
4	99.5	198.6	148.1	-00.3	00.4	-00.1	-00.3	00.4	-00.1	33.57	34.35	33.92
5	75.5	99.8	88.2	-00.6	-00.3	-00.4	-00.6	-00.3	-00.4	33.49	33.57	33.53
6	49.8	75.2	63.1	-00.8	-00.6	-00.7	-00.8	-00.6	-00.7	33.38	33.49	33.44
7	24.9	49.3	36.3	-00.9	-00.8	-00.9	-00.9	-00.8	-00.9	33.33	33.38	33.34
8	-00.1	24.7	11.5	-01.1	-00.9	-00.9	-01.1	-00.9	-00.9	04.98	33.33	32.94

net#	simin	simax	siavg	cmin	cmax	cavg	fmin	fmax	favg	oxmin	oxmax	oxavg
0	00.19	40.35	22.44	00.00	13.59	00.40	00.00	00.97	00.24	-00.1	48.6	03.7
1	27.70	40.32	27.64	00.22	01.35	00.23	00.26	00.38	00.29	03.5	04.2	03.6
2	27.69	27.71	27.70	00.22	00.27	00.23	00.26	00.32	00.29	03.6	03.6	03.6
3	27.56	27.69	27.64	00.23	00.27	00.23	00.26	00.33	00.29	03.6	03.7	03.6
4	26.97	27.56	27.24	00.25	00.28	00.26	00.27	00.34	00.30	03.7	07.2	05.5
5	26.91	26.97	26.94	00.28	00.36	00.28	00.26	00.36	00.30	07.1	07.5	07.3
6	26.83	26.91	26.87	00.28	00.32	00.29	00.27	00.34	00.30	07.4	07.6	07.5
7	26.80	26.83	26.80	00.31	00.34	00.32	00.27	00.34	00.30	07.5	07.6	07.6
8	03.83	26.80	26.48	00.31	01.25	00.33	00.26	00.34	00.30	07.4	07.9	07.6

net#	amin	amax	aavg	spmin	spmax	spavg	armin	armax	aravg	#obs	vol
0	00.0	49.0	22.4	00.0	02.0	00.4	-46.4	00.8	-16.0	00561	00646
1	16.0	36.0	26.6	00.0	02.0	01.5	-06.4	22.6	16.3	00181	00606
2	31.0	39.0	33.6	01.7	02.0	01.8	13.1	17.1	15.0	00100	00357
3	32.0	41.0	35.4	01.7	02.0	01.8	07.4	16.1	10.4	00143	00527
4	33.0	41.0	37.4	01.7	02.0	01.9	07.6	12.5	09.3	00160	00609
5	37.0	43.0	39.4	01.7	02.0	01.8	00.6	06.1	03.4	00109	00420
6	35.0	42.0	38.4	01.7	02.0	01.8	01.7	05.5	03.7	00103	00400
7	39.0	44.0	41.3	01.7	02.0	01.9	02.1	06.8	04.1	00090	00351
8	21.0	49.0	39.9	00.9	02.0	01.8	00.6	05.3	03.5	00107	00397

Environmental Parameters		Net Operation		Net - Ship Position		Program Settings	
Time	08:47:34	Net_Num	9	Latitude	67S 54.082	11:55:51	
Pressure	1.3 m	Open Time	0.7 min	Longitude	68W 23.19	Baud Rate	2400
Temp	-1.65 C	Vol_Filtered	0.0 m3	Net_Dist	25.8 m	Sample Rate	4.0 sec
Salinity	0.54 o/oo	Angle	0 deg	Total_Dist	5701.3 m	Printer	Off
Density	0.152	Flow_Counts	0	Processed File Name	C:\MOCNESS\MOCDATA\ANBP01~2\AM_24_001.P		
Oxygen	7.76 ml/l	Hor_Vel	0.0 kts	Raw File Name	C:\MOCNESS\MOCDATA\ANBP01~2\AM_24_001.ra		
Fluoresc.	1.6208 V	Vert_Vel	-0.6 m/min	Acquisition Ended. trys = 0			
LightXmis	0.5428 /m	Battery					

