

DAILY LOG

CRUISE
NUMBER

2000-10

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

30 MAY -

VESSEL

JOHN P TULLY

PROJECT

LINE P.

0683

Mc NEIL

IOS, VBC

MARIC ROBERT 8-12

[illegible]

FRANK WHITNEY

[illegible]

serial number: _____

100

Make: Seabird model: 911 Plus serial number: 0550
 Primary temperature sensor serial number: 2023 Calibration date: Dec 07 - 99 s
 Primary conductivity sensor serial number: 2102 Calibration date: May 05 - 00s
 Secondary temperature sensor serial number: 2371 Calibration date: June 16 - 99s
 Secondary conductivity sensor serial number: 1766 Calibration date: Dec 28 - 00s
 Other sensors: SeaPoint Fluorometer s/n: 2229
 Other sensors: Wetlabs WetStar Transducer s/n: CST33302
 Other sensors: Biospherical Test Par Sensor s/n: 4565
 Other sensors: s/n:

Make: _____ model: _____ serial number: _____

Primary temperature sensor serial number: _____ Calibration date: _____

Primary conductivity sensor serial number: 2173 Calibration date: May 02 - 005

Secondary temperature sensor serial number: _____ Calibration date: _____

Secondary conductivity sensor serial number: _____ Calibration date: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

June 07
BHW # 36837

10

Winches:

- | | | | | | | | |
|-----------------|-----|-----------|------|------|---------------------|-------|--------|
| 1. Swann model: | 329 | serial #: | 1482 | use: | CTD | 4400m | 0.316" |
| 2. Swann model: | 329 | serial #: | 1483 | use: | CTD | 4915m | 0.322" |
| 3. Swann model: | 329 | serial #: | 1233 | use: | BIONESS | 942m | 0.325" |
| 4. Swann model: | 589 | serial #: | 515 | use: | MODRINGS | | |
| 5. Swann model: | 455 | serial #: | 1450 | use: | MODRINGS (spooling) | | |
| 6. Swann model: | | serial #: | | use: | | | |
| 7. Swann model: | | serial #: | | use: | | | |
| Comments: | | | | | | | |

Salinometer: make:

meter: make: Portasal model: _____ serial number: _____
Comments: Some bubble sticking on electrodes. Cell needs cleaning.

Surface Temperature / Salinity Data Logging System:

Program: _____

Sampling interval (seconds):

Sensor serial number:

Comments: NOT RELIABLE IN LATTER STAGES OF CIRULS. unexplained jumps in solubility of upto 3%.

ADCP Setup:

Program version: _____

Time zone:

Sampling interval (seconds):

Blank beyond transmit:

% pings good threshold:

Comments:

Number of depth bins:

Bin length (2X):

Pulse length:

Pings per ensemble:

Comments:

1	NH4	✓	chl
5	same		
7	chl		
15			add chl
✓ 16	NH4	✓	chl
✓ 25	NH4		add chl
✓ 26	NH4	✓	chl
✓ 33	same		chl
✓ 35	NH4		add chl
✓ 47	NH4	✓	chl, muto, PAR
✓ 48	NH4	✓	chl
✓ 53	same		
✓ 56	NH4		add chl
✓ 57	NH4		chl
✓ 58	NH4		chl
✓ 59	NH4	✓	chl
✓ 62	same		
✓ 69	same		
✓ 71			
✓ 76	same		
✓ 81	"		
✓ 86	"		
✓ 90	"		
→ 96			
→ 97			
99	chl		
108	chl		

GO-FLD cont

add NH4
add NH4

line 12
month 13

PAR
1
~~5~~
7
15
25
35
56
69
76
81
90
99
108

values high, diffuser lost

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
30	SI03	ROS	2110	BO	1	48°35.625	123°29.965		227					Cast for NOAA
30	SI03	ROS		BO	1	48°35.613	123°29.943			200	1-15	15 (24)		NO LOOP SAMPLES
30	SI03	ROS		EN	1	48°35.574	123°29.981							
31	JF1	LOOP	0532			48°15.99	123°30.041							LOOPS TAKEN.
31	JF2	LOOP	0747	-	-	48°18.02	124°00.03	Should be	124					LOOPS TAKEN
31	JF3	LOOP	1007	-	-	48°27.00	124°29.97							LOOPS TAKEN
31	JF4	Loop	1212	-	-	48°32.336	125°00.057							LOOPS TAKEN
31	P1	CTD	0230		2	48°32.417	125°25.976		135	125				LOOPS TAKEN
31	P1	CTD			2									PUMP OFF while cast
31	P1	CTD			2									
31	P2	CTD	1737	BE	3	48°35.926	126°00.007		120					
31	P2	CTD	1740	BO	3	48°35.916	126°00.080			107				LOOPS TAKEN
31	P2	CTD	1742	EN	3	48°35.960	126°00.007							
31	P3	CTD	2030	BE	4	48°37.54	126°20.05		780					NO LOOP SAMPLES
31	P3	CTD	2052	BO	4	48°37.52	126°20.19			815				
31	P3	CTD	2113	EN	4	48°37.63	126°20.18							
01	P4	ROS	0903	BE	5	48°38.97	126°40.12		1330					LOOPS TAKEN
01	P4	ROS	0927	BO	5	48°39.00	126°39.99			1332	16-31	16		
01	P4	ROS		EN	5	48°39.00	126°39.99							

Cast type:

BOT = otter cast
CTD = CTD
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USW = sea water loop

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1	P4	NET	1150		6	48 39.027	126 39.973							BONGO NETS - 7 150m
1	P4	ROS	1833	BE	7	48 38.982	126 39.928		1325					Shallow DMS cast
1	P4	ROS	1843	BO	7	48 38.913	126 39.722			400	32-48	17		11.4) TO 11.8) TS 31.8) 31.7)
1	P4	ROS	1912	EN	7	48 38.846	126 39.064							
1	P5	CTD	2133	BE	8	48 41.457	127 10.053		2119					LOOPS TAKEN
1	P5	CTD	2212	BO	8	48 41.611	127 10.125			1500				
1	P5	CTD	2244	EN	8	48 41.488	127 09.962							
2	P6	CTD	0202	BE	9	48 44.779	127 39.828		2540					
2	P6	CTD	0226	BO	9	48 44.782	127 39.839			1500				LOOPS TAKEN
2	P6	CTD	0252	EN	9	48 44.821	127 40.175							
2	P7	CTD	0512	BE	10	48 46.625	128 09.972		2532					
2	P7	CTD	0539	BO	10	48 46.606	128 09.742			1505				LOOPS TAKEN
2	P7	CTD	0604	EN	10	48 46.575	128 09.801							
2	P8	CTD	0822	BE	11	48 48.980	128 40.015		2546					
2	P8	CTD	0848	BO	11	48 48.981	128 40.079			1502				LOOPS TAKEN
2	P8	CTD	0917	EN	11	48 49.095	128 40.010							
2	P9	CTD	1135	BE	12	48 51.406	129 09.987		2365					
2	P9	CTD	1158	BO	12	48 51.319	129 10.196			1501				LOOPS TAKEN
2	P9	CTD	1223	EN	12	48 51.450	129 10.017							

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02	P10	CTD	1436	BE	13	48 53.573	129 39 741		2683					
02	P10	CTD	1501	BO	13	48 53.618	129 39.975			1502			HA	LOOPS TAKEN
02	P10	CTD	1525	EN	13	48 53.712	129 40 136							
2	P11	CTD	1739	BE	14	48 55.970	130 09 913		2780					
	P11	CTD	1804	BO	14	48 55.971	130 10.190			1505				LOOPS TAKEN
	P11	CTD	1829	EN	14	48 56.156	130 10.130							
2	P12	ROS	2146	BE	15	48 58.143	130 39.798		1957					
2	P12	ROS	2157	BO	15	48 58.118	130 39.852			400	49-65	17		
2	P12	ROS	2221	EN	15	48 58.195	130 40.041							
3	P12	ROS	0056	BE	16	48 58.94	130 39.822		2701				HA	1ST CAST ABORTED
3	P12	ROS	0153	BO	16	48 58.180	130 39.927			3275	66-87	22		SWITCH WINCH + RESTART
3	P12	ROS	0318	EN	16	48 58.201	130 40.054							LOOPS TAKEN
3	P12	BOT	2345	BE	-	48 58.194	130 39.822			40m				Fe PUMPING BEFORE
3	P12	BOT	0030	EN	-	48 58.194	130 39.822							DEEP ROSETTE
3	P12	BOT	0330	BE	17	?	?			200m				Fe GO FLOS
3	P12	NET	1140	BE	18	48 58.286	130 40.081			150				BONGO'S
3	P12	NET	1215	EN	18	48 58.894	130 40.175			150				PHYTO NETS
3	P12	BOT	1220	BE	19	48 58.895	130 40.172			71m				PP GO FLOS

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3	Apex	CTD	1832	BE	20	49° 38.285	130° 51.210		2619					Cast for Alare calibration.
			1852	BO	20	49° 38.305	130° 51.149			1004				LOOPS TAKEN
			1906	EN	20	49° 38.427	130° 51.388							Deck unit beep twice terror light on @ 500m ↓
4	P13	CTD	0011	BE	21	49° 02.624	131° 39.730		2963					
			0022	EN	21	49° 02.502	131° 39.796			680				LOOPS TAKEN
4	P13	CTD	0024	MID	22	49° 02.490	131° 39.824							Stop cast on way ↓ 683
			0042	BO	22	49° 02.599	131° 39.963			1498				to remove remote depth readout, #21 is very spiky.
			0112	EN	22	49° 02	131° 37							
4	P14	CTD	0509	BE	23	49° 07.390	132° 40.077		3303					T: 9483 S: 32.5533 } TS
			0541	BO	23	49° 07.396	132° 40.120			1505				LOOPS TAKEN
			0602	EN	23	49° 07.410	132° 40.011							
4	P15	CTD	1013	BE	24	49° 12.010	133° 40.052		3397					Remote Depth Readout enabled @ 1 sec update rate
			1047	BO	24	49° 11.952	133° 39.985			1500				LOOPS TAKEN
			1116	EN	24	49° 11.930	133° 40.044							
4	On way to P16	BAT FISH	1509	BE		49° 16.249	134° 32.370		3671					BAT FISH FOR KOTH
		:		EN										MANY TRIES
4	P16	ROS	1854	BE	25	49° 17.073	134° 40.174		3616					Shallow cast
			1903	BO	25	49° 17.053	134° 40.315			401	88-104	17		LOOPS TAKEN
			1930	EN	25	49° 17.006	134° 40.179							

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4	P16	ROS	2104	BE	26	49 16.901	134 39.834		3616						
4		ROS	2219	BO	26	49 16.980	134 39.992			3682	105-126	22		LOOPS TAKEN	
4/5		ROS	0000	EN	26	49 16.874	134 39.883								
5	P16	NET	1039	BE	27	49 17.004	134 40.084			150				BONGO'S	
5	P16	BOT	1244	EN	28	49 16.609	134 40.103			80.				PP GO-FLOS	
5	P17	CTD	1648	BE	29	49 20.997	135 40.014		3488					LOOPS TAKEN	
			1719	BO	29	49 20.894	135 39.912			1507				STAYED @ BOTTOM AND 5 MIN TO ADJUST WIND.	
			1740	EN	29	49 20.903	135 39.800								
5	P18	CTD	2139	BE	30	49 26.034	136 40.177		3812						
5		CTD	2210	BO	30	49 25.951	136 40.037			1510				LOOPS TAKEN	
5		CTD	2228	EN	30	49 25.920	136 40.014								
6	P19	CTD	0229	BE	31	49 30.003	137 39.977		3903						
		CTD	0232	BO	31	49 30.025	137 39.934			100				PAR CAST - 100 m	
		CTD	0234	EN	31	49 30.010	137 39.915								
6	P19	CTD	0242	BO	32	49 30.044	137 40.068		3903					Closed 4 bottles for Tim	
6	P19	CTD	0313	BO	32	49 29.969	137 40.203			1505				DEEP CAST	
6	P19	CTD	0333	EN	32	49 30.014	137 40.386							LOOPS TAKEN	
6	P20	ROS	0719 36	BE	33	49 34.058	138 39.915		3941		127-149	23			
6	P20	ROS	0921 04	BO	33	49 34.176	138 39.286			4019				LOOPS TAKEN	

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6	P20	RO	0237	EN	33	49 33.803	138 39.118							
6	P20	NET	1120	EM	34	49 33.883	138 39.849		3941	150				BONGO
6	P20	ROS	1844	BE	35	49 34.024	138 39.942		3939					PAR CAST
			1900	BO	35	49 34.026	138 39.496			400	150-166	17		
			1930	EN	35	49 33.850	138 39.403							
7	P21	CTD	0441	BE	36	49 38.005	139 39.556		3934					LOOPS TAKEN
			0507	BO	36	49 37.949	139 39.585			1507				Stopped a few times on way up to adjust
			0531	EN	36	49 38.034	139 39.531							Spooling
7	P22	CTD	0900	BE	37	49 41.999	140 40.017		3876					* Changed Pri Cond. from sm 2102 to sm 2173
			0930	BO	37	49 42.089	140 39.688			1505				LOOPS TAKEN
			0953	EN	37	49 42.096	140 39.235							
7	P23	CTD	1331	BE	38	49 46.007	141 39.990		4025					
		CTD	1346	BO	38	49 45.903	141 39.864			1501				LOOPS TAKEN
		CTD	1407	EN	38	49 45.950	141 39.611							
7	P24	CTD	1735	BE	39	49 50.032	142 39.646		3960					LOOPS TAKEN
			1802	BO	39	49 50.174	142 40.115			1515				
			1821	EN	39	49 49.957	142 40.075							
7	P25	CTD	2139	BE	40	49 59.937	143 36.133		4070					LOOPS TAKEN
			2201	BO	40	49 59.549	143 36.175			1505				

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* see over

* Switched to 0550pc2.com

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7	P25	CTD	2222	EN	40	49 59 426	143 35 933							
8	P35	CTD	0101	BE	41	50 00 041	144 18 277		4121					PAR CAST
8	P35	CTD	0102	BO	41	50 00 052	144 18 290			150				
8	P35	CTD	0104	EN	41	50 00 092	144 18 304							
8	P35	CTD	0112	BE	42	50 00 136	144 18 286							
8	P35	CTD	0131	BO	42	50 00 253	144 18 299		4121					Loops TIGHT
8	P35	CTD	0153	EN	42	50 00 345	144 18 617			1500				
8	P26	BOT?			43	50 00 00	145 00 00		4220	20				PUMPING FOR PP
8	P26	NET	1214	BO	44	50 00 095	145 00 198			60				BOT 60 TO 60m BLANCH
8	P26	BOT	1450	EN	45	50 00 095	145 00 190			90				PP GO FLOs
8	P26	MOR	2300	EN	46	49 59.500	145 00.257							RECOVERED PAPA #3
9	P26	ROS	0239	BE	47	50 00.052	144 59.872		4220					POC Deep Cast
			0305	BO	47	50 00.033	145 00.008			1500	167-174	8		BIG SWELL. lds of 1000
			0339	EN	47	50 00.019	145 00.032							
9	P26	ROS	0708	BE	48	50 00 023	144 59 .705		4219					NO CHL - RE W.B.
			0719	BO	48	49 59 .993	145 00 .021			400	175-191	17		
			0739	EN	48	49 59 .912	145 00 .072							
9	P26	NET	1115	BE	49	49 59 960	144 59 888		4220	150				BONGO
9	P26	BOT	1345		50	49 59 960	144 59 888			50				P.I GO FLOs

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* - BONGO WHICH DIAMOND GEAR BROKEN - HAD TO CUT NET HAUL SHORT - UNSURE IF IT CAN BE FIXED

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10	P26	MOR	1256	BE	51	50 00 098	144 56 964			100				PROD. DRIFTER	
10	P26	MOT.	1015	BE	52					100	192-199			PROD CASTS	
10	P26	ROS	1546	BE	53	50 00 064	144 59 496		4219					DEEP PAPA CAST	
			1701	BO	53	50 00 053	144 58 149			4000	200-222	23		LOOPS TAKEN	
			1844	EN	53	49 59 175	144 57 873								
10	P26	MOR	2120	EN	54	50 01 292	144 57 268			100				Red Drifter Recovery	
11	P26	NET	1315	EN	55	50 00 723	145 00 778			150				PHYTO NET	
11	P26	ROS	1743	BE	56	49 59 938	144 59 926		4221					DAY DMS CAST	
			1751	BO	56	49 59 969	144 59 909			401	223-239	17		Difference between T ₁ & T ₂ in first 100 m	
			1813	EN	56	49 59 944	145 00 100								
11	loop #1	loop	2355			50 16 192	144 20 604							loop #1	
12	loop #2	loop	0300			50 46 850	144 20 448							LOOPS TAKEN	
12	Loop 3	Loop	0700			50 59 779	143 40 389							"	
17	Loop 4	Loop	1100			51 00 156	142 43 206							LOOPS TAKEN	
12	Loop 5	Loop	1500			50 59 944	141 43 516							"	
12	Loop 6	Loop	1900			51 00 527	140 43 060							"	
12	loop 7	loop	2300			51 00 680	139 39 726							loops taken	
13	Loop 8	Loop	0300			50 59 803	138 36 757							LOOPS TAKEN	

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13	Loop #9	Loop	0700			51 00.201	137 31.523							
13	Loop #10	Loop	1102			51 00.217	136 28.782							Loops TAKEN
13	Loop 11	Loop	1500			50 59.857	135 25.701		3581					
13	Loop 12	Loop	1900			50 59.504	134 18.707							
13	Loop 13	Loop	2300			50 59.570	133 37.827		3208					Loops TAKEN
14	Loop 14	Loop	0300			50 59.654	132 40.305		2912					Loops TAKEN
14	Loop #15	Loop	0700			51 00.107	131 51.877							"
14	Loop #16	Loop	1100			50 59.616	131 02.104		2475					Loops TAKEN
14	Loop 17	Loop	1500			50 59.790	130 15.555		2181					
14	TO SHELF STATION	BAT FISH	1500	BE		50 59.790	130 15.55		2181					
14	SHELF STATION	BAT FISH	1654	EN		51 00.469	129 53.034							
14	SHELF STATION	ROS	1712	BE	57	51 00.097	129 55.016		1457					Loops TAKEN
			1730	BO	57	51 00.373	129 54.958			1001	240-253	14		
			1801	EN	57	51 00.452	129 54.540		1431					
14	Loop 18	loop	2300			51 18.146	129 00.557							
15	SP5	ROS	0002	BE	58	51 21 002	128 46 651		223					
15	SP5	ROS	0006	BO	58	51 21 008	128 46 690			216	254-262			Loops TAKEN
15	SP5	ROS	022	EN	58	51 21 050	128 46 778							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
15	R1 4	ROS	1107	BE	59	51 39 034	127 27 275		300		263-275		U.M	
		ROS	1111	BO	59	51 39 039	127 27 281			290		13		Loops Taken
		ROS	1134	EN	59	51 39 096	127 27 282							
15	R1 3	CTD	1214	BE	60	51 35 971	127 32 378		325				U.M	
		CTD	1222	BO	60	51 35 976	127 32 387			318				Loops Taken
		CTD	1227	EN	60	51 35 966	127 32 407							
15	R1 2	CTD	1311	BE	61	51 31 183	127 33 584		327				U.M	
		CTD	1318	BO	61	51 31 175	127 33 599			322				Loops Taken
		CTD	1324	EN	61	51 31 176	127 33 604							
15	R1 1	ROS	1408	BE	62	51 26 352	127 38 221		330				U.M	
		ROS	1414	BO	62	51 26 351	127 38 344			319	276-289	14		Loops Taken
		ROS	1437	EN	62	51 26 219	127 38 606							Forgot surface trigger sampled from loop
17	0113	THERMO		BE	"09"	50 43 886	127 28 340	RESTART THERMOSALINOGRAPH						20100009 DAT

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1045 LOCAL 17/6

SEAWATER LOOP SWITCHED TO SMALL PUMP TO REDUCE RUBBLING.

DAILY LOG

Ocean Sciences and Productivity Division

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
17	LOOP 19	LOOP	0300			50 51.565	127 48.702		286					LOOPS TAKEN.
17	LOOP 20	LOOP	0700	BE		51 01.285	128 49.776		64					
17	LOOP 21	LOOP	1100			51 08 399	129 52 268		1346					LOOPS TAKEN
17	LOOP 22	LOOP	1500			51 15.891	130 54.305		2346					LOOPS TAKEN
17	LOOP 23	LOOP	1900	BE		51 22.337	132 03.712		~2760					"
17	LOOP 24	LOOP	2300			51 29 350	133 17 452							LOOPS TAKEN
18	LOOP 25	LOOP	0300			51 37.784	134 33.611							LOOPS TAKEN.
18	E1	NET	0720	BE	57	51 44.6	135 48.6							Neuston tow
18	ED01	BIONESS	0901	BE	58	51 44 307	135 49.487		3583					BIONESS tow
			0926	EN	58	51 45.293	135 50.205							
18	ED01	CTD	1040	BE	65	51 44 925	135 49.648		3582					Shallow cast before PP Go-Flot
			1045	BO	65	51 44.925	135 49.673			250				
			1049	EN	65	51 44.929	135 49.729							
18	ED01	NET	1115	BE	66	51 44 915	135 50 001			150				BONGO
18	"	BOTLOS	1231	start	67	51 44.997	135 50.009		3581	150				Primary Production
			1407	end		51 44.798	135 50.495		3580					
18	"	BOTLOS	1505	start	68	51 44.876	135 49.877		3580	600				Fe/metals
		"	1710	end		51 44.05	135 50.01			400, 300, 200 completed				" "

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Cast 71: Change deck unit to 11P 1A262-0424 Serial #

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month JUNE			Ship JOHN P TULLY				Cruise I.D. 2000-10		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
18	ED 01	ROS	1732	BE	69	51°44'7.50	135°50'22.0		3580		290-305	16		LOOPS TAKEN.
18	ED 01	ROS	1758	BO	69	51°44'48.3	135°50'53.5			1000				
18	ED 01	ROS	1827	EN	69	51°44'48.3	135°50'88.6							
18	ED 01	BIOBESS	2100	BE	70	51°45'19.0	135°50'39.5		3582					
			2131	EN	70	51°45'82.5	135°52'43.9			250				
18/19	ED 01	BOT	2345-0015 1645-1715 local			51°44.3	135°46.42				GoFlo @	150, 100, 75 m		Fe.
19	ED 01	MOR	0138			51°44'64.5	135°44'71.5							DEPLOY 12K1
19	ED 01	BOT	0150-0210			51°44'23	135°45'01				GoFlo @	50, 25, 10 m		
19	ED 02	CTD	0406	BE	71	52°00'02.0	135°50'04.7		3340	1000				LOOPS TAKEN.
19	ED 02	CTD	0425	BO	71	52°00'01.3	135°50'14.9							←
19	ED 02	CTD	0443	EN	71	52°00'01.6	135°50'30.7							2 bottles closed for Tawny
19	ED 02	NET	0507	BE	72	52°00'01	135°50'37			~150				Bongo - 0-150
19	ED 02	NET	0538	BE	73	52°00'02	135°49'70			0				Neuston
19	ED 03	NET	0737	BE	74	52°15'66.8	135°48'98.6			0				Neuston
	ED 03	NET	0748	EN	74	52°15'39.6	135°49'46.1							
19	ED 03	NET	0803	BO	75	52°15'28.9	135°49'61.2			150				Bongo 0-150
19	ED 03	ROS	0824	BE	76	52°15'14.4	135°49'90.1	3508						LOOPS TAKEN
			0842	BO	76	52°15'09.0	135°50'02.9		1003		306-321	16		CON FILE 2010 0080 con?
			0912	EN	76	52°15'07.2	135°50'39.0							Rst coming off cable @ sea surface.

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month JUNE			Ship JOHN P TULLY				Cruise I.D. 2000-10		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
19	ED04	Neuston	1102	BE	77	52° 30' 845	135° 49' 026		3498					NEUSTON Tow
		Neuston	1119	EN	77	52° 30' 387	135° 49' 505			0				
19	ED04	CTD	1132	BE	78	52° 30' 315	135° 49' 621		3499					
		CTD	1150	BO	78	52° 30' 346	135° 49' 803			1001				Loops TAKEN
		CTD	1206	EN	78	52° 30' 334	135° 49' 979							
19	ED04	NET	1220	BE	79	52° 30' 310	135° 50' 076		3499	150				BONGO to 150m
19	ED05	NEUSTON	1407	BE	80	52° 45' 688	135° 48' 703		3470	0				NEUSTON
			1417	EN	80	52° 45' 538	135° 48' 959							
19	ED05	ROS	1434	BE	81	52° 45' 093	135° 49' 862							Loops TAKEN
			1450	BO	81	52° 45' 053	135° 49' 905		3465					The PAR sensor lost its diffuser (white ball)
			1520	EN	81	52° 44' 988	135° 49' 813			1000				
19	ED05	NET	1532	BE	82	52° 45' 111	135° 49' 871							BONGO
19	ED05	MOR	1655			52° 45' 159	135° 50' 058							FD#2 DEPLOYED.
19	ED06	CTD	1856	BE	83	53° 00' 000	135° 49' 653		3455					
19	ED06	CTD	1917	BO	83	53° 00' 028	135° 49' 923			1008				Loops TAKEN
19	ED06	CTD	1934	EN	83	53° 00' 018	135° 50' 106							
19	ED06	NET	2009	BO	84	53° 00' 131	135° 49' 913			150				BONGO NETS
		NET	2014	EN	84	53° 00' 204	135° 49' 828							

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June 19/00

Wire diameter 5 m from rose the : .3118
- some black tar on wire for first ~50 m
- with rust showing through
- rest of wire rusting badly, leaves a
wake of rust on downcast

DAILY LOG

Ocean Sciences and Productivity Division

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
19	ED07	NET	2218	BO	85	53° 15.012	135° 49.962		1148	150				Bongo 0-150
		NET	2223	EN	85	53° 14.960	135° 49.832							
19	ED07	ROS	2242	BE	86	53° 15.007	135° 49.983		1169					LOOPS TAKEN
			2259	BO	86	53° 15.030	135° 50.023			1003	338-353	16		
			2345	EN		53° 15.017	135° 50.066						FM	
/ / / / / / / / / / / / / / / /														
20	ED08	NET	0141	BE	87	53° 30.017	135° 49.954		2934	150				BONGO 0-150
20	ED08	CTD	0206	BE	88	53° 30.001	135° 50.047		2937					LOOPS TAKEN
		CTD	0219	BO	88	53° 29.961	135° 50.073			1000				
		CTD	0234	EN	88	53° 29.970	135° 50.114							
/ / / / / / / / / / / / / / / /														
	ED09	NET		BE	89									BONGO
20	ED09	ROS	0440	BE	90	53° 44.979	135° 49.983		3031	1000				LOOPS TAKEN.
20		ROS	0456	BO	90	53° 44.919	135° 49.838				354-369	16		
20		ROS	0533	EN	90	53° 44.813	135° 49.668							
20	ED09	NET	0550		91	53° 44.79	135° 49.63							Newston
20	ED10	NET	0732	BE	92	54° 00.306	135° 49.391		2815					Newston
	ED10	NET	0743	EN	92	54° 00.034	135° 49.771			0				

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20 June

1650 PDT

NOTICED THERMOSAL DROPPED BELOW 29‰ Sal. This is not confirmed by CTD which shows > 32‰.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
20	ED10	CTD	0756	BE	93	53° 59' 971	135° 49' 896		2823					LOOPS TAKEN
			0814	BO	93	53° 59' 917	135° 50' 016			1005				
			0831	EN	93	53° 59' 884	135° 50' 163							
20	ED10	NET	0843	BO	94	53° 59' 887	135° 50' 249		2825					Note - loop SW of between ED10 & ED7E (forgot to reopen valve after washing net)
			0847	EN	94	53° 59' 915	135° 50' 245			150				
20	ED07E	CTD	1356	BE	95	53° 14' 980	135° 25' 014		2906					LOOPS TAKEN
			1414	BO	95	53° 14' 894	135° 24' 886			1000				
			1430	EN	95	53° 14' 825	135° 24' 892							
20	ED06e	CTD	1609	BE	96	52° 59' 971	135° 24' 854		3131	1000				LOOPS TAKEN.
			1627	BO	96	52° 59' 928	135° 25' 073							
			1643	EN	96	52° 59' 896	135° 25' 293							2 bottles fired for Tawaya 25 m + 10 m.
20	ED05e	CTD	1818	BE	97	52° 44' 992	135° 24' 742		3358	1000				LOOPS TAKEN
			1837	BO	97	52° 44' 944	135° 24' 926							
			1852	EN	97	52° 44' 889	135° 25' 091							2 bottles for Tawaya 25m + 10 m.
20	ED05	BIONESS	2102	BE	98	52° 45' 02	135° 50' 03		3458					CENTRE STATION
			2136	EN	98	52° 45' 181	135° 52' 312			250				7 depth strata to 250m
20	ED05	ROS	2251	BE	99	52° 45' 027	135° 50' 074		3465					
			2311	BO	99	52° 45' 040	135° 50' 079				370-385	16		LOOPS TAKEN.
			2349	EN	99	52° 45' 034	135° 50' 398							

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
21	ED05	GioFlo	~0100	UTL		52 45.027	135 50.691				GioFlo 600m 400m 300m 200m			Fe + DOC...
			~0500			52 44.78	135 50.19				GioFlo cont 150	0075	50 25 10	"
21	ED05	NET	0721	BE	100	52 45.098	135 49 748		3468					Neuston
		NET	0730	EN	100	52 45.003	135 50.265			0				7 net strata 250 → 0m (incl CTD)
21	ED05	BIONESS	0748	BE	101	52 44.919	135 50.406		3463					→
				EN	101					250				
STOP + RESTART THERMOSALINOGRAPH FILE: salinity still 24?														
21	ED05	Thermo	0910	BE	10	52 45.252	135 51.416							
21	ED05	GioFlo	1030	UTL	102	52 45.219	135 49.773		3468					Primary Productivity
			1306	UTL	102	52 45.032	135 49.559							
21	ED05	MOR	1500			52 48.166	135 38.113							FD#2 RELEASED
21	ED05	MOR	1600			52 48.045	135 38.694							RECOVERED.
21	ED04.5	CTD	1734	BE	103	52 37 496	135 49 758		3486	900				
			1737	BO	103	52 37 508	135 49 905							
			1740	EN	103	52 37 682	135 49 954							LOOPS TAKEN.

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments	
21	ED 04	CTD	18 38	BE	104	52 29 990	135 50 174		3495	200					
			18 43	BO	104	52 29 948	135 50 266								
			18 47	EN	104	52 29 897	135 50 330							LOOPS TAKEN.	
21	ED 035	CTD	19 52	BE	105	52 22 498	135 49 871		3508						
			19 57	BO	105	52 22 567	135 50 044			203				LOOPS TAKEN	
			20 01	EN	105	52 22 577	135 50 162								
21	ED 03	BIONESS	21 07	BE	106	52 15 041	135 50 205							Day Bioness	
			21 21	BO	106	52 14 98	135 51 10			250				250 → 75 m	
			21 39	EN	106	52 14 929	135 52 673								
21	ED 03	Bioness	22 25	BE	107	52 15 151	135 50 190							Re-do Bioness to close 4 tag nets	
			22 28	BO	107	52 15 166	135 50 400			75				75 → 0 m	
			22 34	EN	107	52 15 175	135 50 903								
21	ED 03	ROS	23 19	BE	108	52 15 057	135 49 617		3510					LOOPS TAKEN	
		ROS	23 38	BO	108	52 15 069	135 49 918				396-401				
22		ROS	00 16	EN	108	52 15 102	135 50 343								
22	ED 03	GOTHO	01 33	UTC	109	52 15 137	135 50 265		3507	600				Fe / DOC	
22	ED 03	BIONESS	07 04	BE	110	52 15 040	135 48 851		3511					Night Bioness	
			07 16	BO	110	52 14 967	135 49 766								

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

[illegible]

Cast type:

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