

CRUISE
NUMBER

9711

DAILY LOG

INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

June 3 - 26, 1997

VESSEL

J.P. Tully

PROJECT

Papa

2nd CTD make: _____ model: _____ serial no.: _____
Temperature sensor model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Conductivity sensor model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Pressure sensor range: _____ psi serial no.: _____
coefficients: FSP: _____ dB offset: _____
Transmissometer model: _____ serial no.: _____
coefficients: slope: _____ offset: _____

Winches:

1. make: Swann model: 329 serial no.: 1307 use: CTD
2. make: _____ model: 329 serial no.: 1482 use: backup CTD
3. make: _____ model: 455 serial no.: 1451 use: mooring 95
4. make: _____ model: 320 serial no.: 1207 use: 3/8 cable
5. make: _____ model: 420 serial no.: 1482 use: hydra
6. make: _____ model: _____ serial no.: _____ use: _____
7. make: _____ model: _____ serial no.: _____ use: _____

Salinometer: make: _____ model: _____ serial no.: _____

SAIL System:

Program version: _____ Time zone: _____

Sampling interval: _____ sec

CTF module no.: _____ serial no.: _____

Remote temperature model: _____ serial no.: _____

Flow sensor model: _____ serial no.: _____

Other sensors: (special for this cruise)

Name: _____ module ID: _____ serial no.: _____

Name: _____ module ID: _____ serial no.: _____

Name: _____ module ID: _____ serial no.: _____

Comments: _____

ADCP Setup:

Program version: _____ number of depth bins: _____

Time zone: _____ bin length (2x): _____

Sampling interval: _____ sec pulse length: _____

Blank beyond transmit: _____ pings per ensemble: _____

Pulse cycle time: _____

% pings good threshold: _____

Comments: _____

Station 53, Saanich, B.C. Two 10 litre Niskin bottles broken when Rosette fell against stern of ship. There must have been loose wire on the winch. The hydraulics were tested and checked out OK.

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YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1997			6			TULLY			9711			1			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
3	S3	ROS	2301	BE	1.	48 35.65	123 30.10		230.	213					
			2307	BO	2.	48 35.64	123 30.16				1-16	16			
			2321	EN											
4	JF1	Loop	0448		—	48 16.00	123 30.1								
4	JF2	LOOP	0647		—	48 17.98	124 00.0							LOOPS TAKEN	
4	JF3	LOOP	02:05		—	48 27.03	124 30.0							LOOPS TAKEN	
4	JF4	Loop	1104		—	48 32.29	125 00.05								
4	P1	ROS	1323		3.	48 34.46	125 30.12		130						
	P1		1326		4.	48 34.48	125 30.17					1		surface bottle for Nikon	
4			15:52 07:52			48 23.956	125 54.821		407					BCO1A2 MOORING	
4	P2	ROS	1715	BE	5	48 36.06	126 00.42		118.					LOOPS TAKEN	
4	P2		1721	BO	6	48 36.07	126 00.56								
4	P2		1724	EN											
4	P3	ROS	1859	BE	7	48 37.95	126 20.71			721.				Loops taken	
4	P3	ROS	1923	BO	8	48 38.35	126 21.38							transmissometer rate 4	
				EN											

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

18-43

BCOI-AZ NOORING (TIMES IN UTC) 97/06/04

			TIME IN WATER	
METER 1	-	257	07:42	POS: 48 23.956
TRZ	-	908	"	125 54.821
TCHAIN	-	1308		
METER 2	-	1015	07:44	DEPTH: 407 m
METER 3	-	7462	07:47	
WHEEL	-		07:52	

* Cast # 8, the CTD rested on the bottom as the wire angle straightened out, causing mud to obscure the transmissivity on the upcast.

2211 complete recovery of sediment trap.

V_1	.005	V_2	.716		
	.003		.715	.719	
	.005		.720	.717	<u>.717</u>

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5	P4	ROS	0130	BE	9	48 39.03	126 39.64		1308					Rosette touched bottom.	
			0218	BO	10	48 39.46	126 38.46				17-30	14.			
			0244	EN											
	P4	Net	08:50	BE		48 39.11	126 40.70			250				Tucker Trawl	
			09:50	EN		48 39.11	126 39.8								
	P4	ROS	1748	BE	11	48 39.00	126 40.07		1326						
			1753	BO	12	48 39.02	126 40.08			150		24			
			1810	EN											
	P4	ROS	1936		13	48 38.93	126 39.96		1330						
		ROS	1946		14	48 38.85	126 39.85			400	31-48	18.			
5	P4	Net	22:00	BE		48 39.00	126 40.11			250				Tucker Trawl	
5			22:40	EN											
6	P4	ROS	0059	BE	15	48 39.08	126 40.21		1303			12		Nelson respiration cast	
6	P4	ROS	0106	BO	16	48 39.17	126 40.28			300.				secondary comb offset	
6	P5	CTD	0703	BE	17	48 41.48	127 09.87		2095					* 1st cast with 0437 * 17 says 4004 in header	
6	P5	CTD	0732	BO	18	48 41.70	127 09.82							CTD - LOOP	
6	P5	CTD	0755	EN		48 41.954	127 07.819								

CAST TYPE - BOT - bottle cast
CTD - ctd
MOR - mooring

ROS - rosette
NET - net haul
DRF - drifter

USW - sea water loop

TIME CODE - BE - beginning time of cast
BO - bottom time of cast
EN - end of cast

DE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE - RAD - RADAR
GPS - GLOBAL
LOR - LORAN

Sound velocity profile from CTD #19 entered into sonar.

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6	P6	CTD	1020	BE	19	48° 44.56	127° 40.06		2553					CTD - LOOP	
			1103	BO	20	48 44.36	127 39.92								
6	P6		1148	EN											
6.	P7	CTD	1422	BE	21	48 46.53	128 09.98		2508						
			1510	BO	22.	48 46.56	128 10.10								
6	P7		1426	Loops	—	48 46 53.5	128 09 92.1							Loops TAKEN	
			1547	EN		48 46.65	128 10.39								
6	P8	CTD	1808	BE	23.	48 48.99	128 40.11		2523					Loops TAKEN.	
	P8	CTD		BO	24	48	128							CTD UP	
	P8	CTD	2000	EN		48 48 98	128 41.2		2532					winch spooling not good on deck 1300 HRS.	
6	P9	CTD	2202	BE	25	48 51.54	129 10.14		2370					CTD Down - Loop done	
6	P9	CTD	2250	BO	26	48 51.83	129 10 11								
6	P9	CTD	2330	EN		48 51.96	129 10.00								
7	P10	CTD	0210	BE	27	48 53.64	129 40.05		2650					Loops TAKEN.	
		Loops	0211												
	P10	CTD	0252	BO	28	48 53.60	129 40.34								
	P10	CTD	0329	EN		48 53.51	129 40.75								
7	P11	CTD	0556	BE	29	48 55.96	130 09.97		2760					Loops TAKEN.	

CAST TYPE -

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bottle cast

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ctd

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drifter

USW -

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recover mooring

POSITION CODE -

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GLOBAL

LOR -

LORAN

Station MP12 removed CTF cell, cleaned with 10% HCL. Dong and I checked cables, module, no obvious reason for conductivity signal not reaching computer.

Sunday June 8

MP12

0000 - Bongo to 150m

0045 - Bongo to 150m

0130 - All on board - too much swell for Rosette

0230 - Armed Rosette!

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7	P11	CTD	0650	BO	30	48 56 14	130 10 79			2780					
7	P11	CTD	0734	EW		48 56 06	130 10 07								
8	P12	ROS	0213		31	48 58.17	130 40.38			2963					CTD 0433 m Rosette
8	R12	ROS	0223	BO	32	48 58.21	130 40 55			300,			12		large swell
8	P12	ROS	0941	BE	33	48 58.25	130 39.87		3224						Deep Rosette cast.
8	P12	ROS	1042	BO	34	48 58.49	130 39 77			3283	49-68		20		bottle #17 did not close.
8	P12	ROS	1157	EN											
8	P12	ROS	1450		35	48 58.14	130 40 18			3020					Mameer's cast
8		ROS	1455		36	48 58.07	130 40.24								
8	P12	ROS	1913	BE	37	48 58.23	130 40.06		3024						
8	P12	ROS	1925	BO	38	48 58.34	130 40.10			400	69-86		18		
8	P12	ROS	1943	EN		48 58 47	130 40 10								draw samples - run to P13
9	P13	CTD	0040		39	49 02.58	131 40.14			3030					
9		Loops	0045		40										130m above bottom.
9	P13	CTD	0132		40	49 02.24	131 40.81			3000					
9	P14	CTD	0629		41	49 07.50	132 39.97			3319					LOOPS TAKEN
9	P14	CTD	0721		42	49 07 88	132 39 51			3328	3003				
9	P14	CTD	0806			49 08 10	132 39 15								

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P116 - Pen Sensor on. 9707 con file pulled in for running cast. Sal. #s too high. Check con. file cal. coef. to correct cast.
- Change PAR Scale

Cas) #45 & 46 converted using 9711 FIX.CFG (to correct data logged with wrong CON file.)

end mult 2 %T
4 PAR

M 1.0

B 0.0

Calibration constant 540540540.50000000

multiplier 100000000

97070443

Tp 2106

Cp 1748

Ts 2062

Cp 1764

Tuesday 10 June

Oxygen Rickling dispensers found damaged! Alkaline iodide spilt and not cleaned, degassing line cracked allowing excess deemed to enter oxygen flasks.

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9	P15	CTD	1242	BE	43	49 11.96	133 40.04		3411.					
		Loops	1247.											
		CTD	1331	BO	44	49 11.92	133 39.90			3200.				
9	P15		1428	EN										
9	P16	ROS	1830	BE	45	49 16 95	134 40 07		3636			17		PAR Sensor on
	P16	ROS	1901	BO	46	49 16.73	134 39.64			600	87-104	19		Deep bottle for Tim (600m)
	P16	ROS		EN		49 16 59	134 39 36							ROS 0-400m - table driven
9	P16	Net	21:00	BE		49 17 19	134 40 48			250				Tucker Trawl
"	"	"	22:00	EN										Trawl on board
		ROS	2340	BE	47	49 17.02	134 39.94							Mauve's cast
9	P16	ROS	2344	BO	48	49 17.04	134 39.96			200		24		
10		ROS	0101	BE	49	49 17.09	134 39.98		3637	263.1				Nelson's cast
		ROS	0108	BO	50	49 17.09	134 39.82			300.		12		
10	P16	ROS	0542	BE	51	49 16.936	134 39.936		3638					DEEP CAST.
			0701	BO	52	49 16.65	134 39.68			3675	105-126	22		
	P17	CTD	21 13	BE	53	49 20.90	135 40 24		3612					5m 10.5287 32.5881
	P17	CTD		BO	54					3000				10m 10.5142 32.5863
	P19	CTD	2259	EN		49 20 41	135 42.29							Too rough for Loop Samples

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YEAR		MONTH				SHIP				CRUISE				PAGE	OF
1997		June								9711					
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
11	P18	CTD	0326	BE	55	49 26.056	136 40.166		3833	3000				10M 10.127 32.616	✓
														LOOPS TAKEN.	
	P18	CTD	0420	BO	56	49 26.470	136 40.662							10M 10.188 32.609	
	P18	CTD	0511	EN		49 26.689	136 41.274							5m 10.2309 32.6143	
11	P19	CTD	0942	BE	57	49 30.07	137 40.01		3925	3000					✓
														LOOPS TAKEN	
	P19	CTD	1024	BO	58	49 30.23	137 40.06			3000				5m 10.2638 32.5863	
	P19	CTD		EN										10m 10.2628 32.5902	
11	P20	ROS	1920	BE	59	49 33.85	138 40.13		3967					5m 9.8452 32.5685	✓
														10m 9.8172 32.5684	
		ROS	1931	BO	60	49 33.81	138 40.23		3926	400	127-144	18		5m 9.8447 32.5694	✓
														10m 9.8285 32.5696	
11		ROS	1946	EN		49 33.78	138 40.36								
11	P20	NET	20:30	BE		49 34.04	138 40 25			250				Tucker Trawl	
	11	"	20:40	EN		49 35 19	138 42 20							" " on board.	
12	P20	ROS	0225	BE	61	47 33.98	138 40.15		3965					5m 9.9322 32.5692	✓
														10m 9.9072 32.5692	
		Loops	0233											Loops taken	
		ROS	0337	BO	62	49 34.124	138 41.075			3900	145-166	22		5m 9.9553 32.5664	✓
														10m 9.9353 32.5661	
12	P20		0502	EN											
12	P20	NET	0825	BE		48 33 88	138 39 74			900				Tucker Trawl	
			0938	EN										on board	

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12	P20	ROS	1451	BE	63	49 33.95	138 39.77		3964					5m 97205 32.5670
			1456	BO	64	49 33.92	138 39.65			200		23		Maureen's Cast
	P20	ROS	1731	BE	65	49 33.75	138 39.85		3964					bottle #19 did not close
			1738		66	49 33.93	138 39.73			300				Shallow Rosette-Nelson
	P20	ROS		EN		49 33.83	138 39.68							300m cast
12		MOR				49 35.053	138 46.775							DEPLOY PTB3 MOORING
13	P21	CTD	0031	BE	67	49 37.91	139 40.19		3958					transmissometer lens cleaned.
13	P21	Loop	0036	EN						3000.				5m 10.0226 32.6222
13	P21	CTD	0128	BO	68	49 37.95	139 41.42							
13	P22	CTD	0621	BE	69									* SEE NOTE
	P22	CTD	0715	BO	70	49 42.35	140 40.68			3000.				LOOPS TAKEN
13	P22			EN		49 42.44	140 40.89							5m 9.9081 32.6390
13	P23	CTD	1229	BE	71	49 45.95	141 40.05		4049.					LOOPS TAKEN
13	P23	CTD	1318	BO	72	49 45.71	141 39.79			3000.				5m 9.7204 32.7031
13	P23	CTD	1408	EN		49 45.37	141 38.83							
13	P24	CTD	1815	BE	73	49 50.064	142 39.882		3985					LOOPS TAKEN
	P24	CTD	1901	BO	74	49 50.954	142 39.380			3002				5m 9.0994 32.5949
13	P24	CTD	1950	EN		49 49.663	142 39.096							Do Nelsons bottle

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bottom time of cast
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Cost # 69

- NO GPS DATA DISPLAYED ON THE SCREEN / NO GPS DATA LOGGED - just 00 000 00 N
- STATUS LINE VARIABLES UPDATED ONCE EVERY 5 SEC. 00 00000 E
- TRANSMIT LIGHT ON DECK UNIT FLASHING INSTEAD OF STEADY

MP 26 shallow cast. Salinity sample # 170 and # 176 broken when salinity crate bottom fell off.

MP 26 MAUREENS DEEP CAST BOTTLE # 19 DID NOT TRIP.

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14	P25	CTD	0040	BE	75	50 00.0	143 36.34		4140					trans. cleared.	
		Loop	0043	EN										5m 9.3137 32.6499	
	P25	CTD	0130	BO	76	50 00.08	143 36.42			3000,					
14	P35	CTD	0512	BE	77	49 59.945	144 18.308		4149	3000.				9.2945 32.6569	
		CTD	0607	BO	78	50.00.206	144 19.070		4149					LOOPS TAKEN.	
	P35	CTD	0651	EN		50 00.431	144 19.509								
14		DRF	1445			50.00 450	144 44.042							FDA deployed	
14	P26	ROS	1922		79	50 00.02	145 00.09		4242					5m 9.3144 32.6607	
14		ROS	1931		80	50 00.12	145 00.12			400	167-184	19.		Shallow Rosette.	
14	P26	mooring				50 01 586	144 57 182							AR MOORING WHEELS AWAY	
15	P26	mooring	0122			50 01 773	144 56 645		4230	FINAL POSITION.				AR MOORING FINAL DEPLOYMENT	
15	P26	ROS	0213	BE	81	49 59.78	145 00.17		4242.		9.5652 32.6741			MAUREENS DEEP CAST	
		Loop	0217	EN										BOTTLE #19 DID NOT	
	P26	ROS	0250	BO	82	49 59.52	145 00.34			2000				TRIP	
	P26		0332	EN											
15	P26	NET	0925	BE		50 00 09	144 49 80							Tucker Trawl	
			10:20	EN		49 59 81	145 00 56							Trawl on board	

CAST TYPE -

BOT -

CTD -

MOR -

bottle cast

ctd

mooring

ROS -

NET -

DRF -

rosette

net haul

drifter

USW -

sea water loop

TIME CODE -

BE -

BO -

EN -

beginning time of cast

bottom time of cast

end of cast

DE -

MR -

RE -

deployment time

messenger release

recover mooring

POSITION CODE -

RAD -

GPS -

LOR -

RADAR

GLOBAL

LORAN

Local T Sunday 15 June

0000 - Panga for Rob x 3 @ 150m

0230 - Tuckin Trawl to 250m - major loose wire wraps on winch

Sunday June 15

After cast # 87 I changed the Seabird Rosette bottle trip mechanism.

Mon. 16 June

1705

Added new Sodium Thiosulfate to oxygen system, filled despressors with $MgCl_2 + NaOH$
Four 45 gallon plastic drums filled with seawater for IOS calibration tank.

J + L

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15	P26	ROS	1135	BE	83	50 00.08	144 59.77		4242					DMS Cast.
		ROS	1144	BO	84	50 00.16	144 59.55			400.	185-202	18		5m 9.5061 32.6570
15	P26		1208	EN										
15		ROS	1926	BE	85	49 59.96	144 59.50		4245	25m	—			
15		ROS		BO	85									
15		ROS		EN	85									
15	P26	NET	2145	BE		50 00.20	145 00.08			250				Tucker trawl
	"	"	2224	EN										TT on board
15	P26	ROS	2325	BE	86	49 59.94	144 59.93		4246					deep rosette, data error.
16		ROS	0050	BO	87	49 59.16	144 59.21			4311.	203-226	23		#19 did not close
	P26	ROS		EN	87							23		#86 @ 5 9.7328 32.6599
16	P26	ROS	0500	BE	88									NELSONS O ₂ CAST.
		ROS	0508	BO	89	50 00.10	144 59.98			300.	—	12		
		DRF	1340			50.000.02	144.56458							PROD DRIFTER SET
	P26	ROS	1426		90	50 00.48	144 58.71							
		ROS	1432		91	50 00.53	144 58.67			200	—	24		Mannin's cast.
	P26	ROS	1541	BE	92	49 59.953	144 59.942							
			1614	BO	93	49 59.947	144 59.494			2000.	—	24.		Poc Cast.

CAST TYPE - BOT - bottle cast
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DRF - drifter

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EN - end of cast

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MR - messenger release
RE - recover mooring

POSITION CODE - RAD - RADAR
GPS - GLOBAL
LOR - LORAN

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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		June				9711								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
17	MP26	CTD	0426	BE	94	50 00.061	145 00.250							No Heave Comp. USED!
		CTD	0510	BO	95	50 00.404	145 00.661			2005.				
17	MP26	ROS	0620	BE	96	50 00.020	145 00.317							DMS CAST
		ROS	0629	BO	97	50 00.130	145 00.434			400.	227-240	14		9.3715 32,6586
		ROS	0651	EN										
17	P411	ROS	1953	BE	98	5026.92	145 00.19		4251					Loops Taken
	P411	ROS	2053	BO	99	5026.81	145 01.26			3000.				9.2547 32,6311
	P411	ROS		EN										
18	P32	ROS	0053	BE	100	50 53.95	144 59.92		4250					9.7727 32,6535
		Loop	0057											
18	P32	ROS	0150	BO	101	50 53.65	145 00.46			3000.	241-255	15		
18	MZ01	CTD	0550	BE	102	51 20.970	145 00.275		3874					LOOPS TAKEN
		CTD	0640	BO	103	51 20.671	145 00.706			3000.				10.0591 32,6037
18	MZ01		0730	EN		51 20.391	145 00.775		4053					Nelson's 3m bottle - chains
18	MZ02	CTD	1034	BE	104	51 48.02	144 59.96		3859					LOOPS TAKEN
18	MZ02	CTD	1122	BO	105	51 48.14	144 59.81		3881.					10.0352 32,6000
18	Z02	ROS	1210	EN										
18/18														

CAST TYPE -

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MOR -bottle cast
ctd
mooringROS -
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drifter

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TIME CODE -

BE -
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bottom time of cast
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GPS -
LOR -RADAR
GLOBAL
LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1997			MONTH June			SHIP Tully				CRUISE 9711				PAGE	OF
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
18	MZ03	ROS	1444	BE	106	52 11.82	144 59.82		4063					loops taken @ 14:47	
		ROS	1555	BO	107	52 12.026	145 00.194				256-278	23		10.0035 32.6792	
18	MZ04	CTD	2057	BE	108	52 39.08	144 59.96		4062					Loops taken @ 21:03	
18	MZ04	CTD	21 52	BO	109	52 38.96	144 59.30							10.1287 32.6936	
18	MZ04		22 39	EN		52 38.733	144 58.652							bottle @ 3m for Nelson	
19	MZ05	CTD	0140	BE	110	53 06.04	144 59.64		4079					loops @ 01:44	
		CTD	0256	BO	111					3000.				trans lns cleared	
			0318	EN		53 05.797	144 57.872								
19	MZ06	CTD	0626	BE	112	53 32.793	144 59.877							LOOPS TAKEN 0632	
		CTD	0717	BO	113	53 32.90	145 00.17							10.2929 32.6922	
			0802	EN		53 33.038	145 00.631								
19															
	MZ07	CTD	1054	BE	114	54 00.15	144 59.82		4020					LOOPS TAKEN	
		CTD	1141	BO	115	54 00.00	144 59.66			3003.				10.6982 32.6386	
	MZ07		1227	EN		53 59.73	144 59.48								
19	MZ08	CTD	1518	BE	116	54 26.706	144 59.912							LOOPS TAKEN 1525	
		CTD	1602	BO	117	54 26.485	145 00.114							10.3155 32.6461	
			1645	EN		54 26.431	145 00.292								

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GPS - GLOBAL
LOR - LORAN

#118, #119 use CON file 0433.PAR

Thursday June 19

Station M209 deep cast to 4100. Air sprayer put onto CTD wire of winch #1307 to remove sediment from cable. Unit removed at 1500 m.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE					PAGE		OF	
1997		June		Tully		9711								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
19	MZ09	ROS	2014	BE	118	54 59.973	145 00.053							Shallow - PAR - PTLogger cal.
		ROS	2037	BO	119					50m		12		Nelsons cast 0-50m
		ROS	2049	EN		5500.277	144 49.960							#2 bottle no trip
19	MZ09		2125			54 59.98	144 59.97							Tucker Trawl
	MZ09	ROS	2249	BE	120	55 00.21	145 00.04		4039					10.8302 32,6540
		ROS	2257	BO	121	55 00.28	145 00.03			200.				
19	MZ09	ROS	2354	BE	122	55 00.04	145 00.06		4040					loop samples
20		ROS	0114	BO	123	55 00.68	145 00.139			4102.	279-302	24		10.6902 32,6541
	MZ09	ROS	0255	EN										
	MZ09	CTD	0637	BE	124	54 59.931	144 59.931			CTD 0437				11.1185 32.6227
			0725	BO	125	54 59.65	144 59.60			3000.				
	MZ09	CTD	0801	EN		54 59.414	144 59.520							Lu. STN 09:37 UTC
		Loop	1054			54 54.63	144 39.21				#1			Dune bongs 02:37 local
	AB01	ROS	1150	BE	126	54 51.77	144 28.91		4045					10.8907 32,6553
		Loop	1154							1500.				
			1216	BO	127	54 51.86	144 29.49							
	AB01		1245	EN										
		Loop	1343	EN		54 48.43	144 15.66				#2.			

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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH				SHIP				CRUISE				PAGE		OF	
1997		June								9711							
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS			
20	Loop		1445		118	54 44.28	144 00.03				#3						
20	AB02	ROS	1514	BE	128	54 43.61	143 57.81							HOOPS @ 1537			
		ROS	1539	BO	129	54 44.048	143 58.182							10.5983 32.6719			
			1623		130						303-320	18		400M & UP FOR BOTTLE TRIGGERING.			
20	AB02		1623	EN		54 44.301	143 58.621							LOOPS TAKEN			
	LOOP		1731			54 39.778	143 42.686										
20	AB 3	ROS	1851	BE	131	54 35.677	143 25.990		3933					LOOPS TAKEN			
		ROS	1918	BO	132	54 35.79	143 25.48							10.9181 32,6642			
		ROS	1943	EN		54 35.933	143 25.037										
	LOOP		2045			54 31.75	143 10.46				Loop #5						
20	AB4	ROS	2256	BE	133	54 27.90	142 55.01		3877					CTD data not valid			
		ROS	2324	BO	134	54 28.15	142 54.91			1500	321-338	18		syringes left on sensors			
		ROS	0004	EN		54 28.57	142 54.66										
21	Loop		0101	EN		54 24.44	142 42.95		3836		Loop #6						
21	AB05	ROS	0239	BE	135	54 19.36	142 23.96		3778					loops @ 02:40			
		ROS	0305	BO	136	54 19.519	142 23.706							10.9818 32.5828			
	LOOP		0435	EN		54 15.115	142 08.675				Loop #7						
CAST TYPE - BOT - bottle cast ROS - rosette USW - sea water loop TIME CODE BE - bottom echosounder																	

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW - sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

ISLOOP #5 @ 20:45 57 31.75 143 10.20

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		June		Tolly		9711								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
21	AB06	ROS	0553	BE	137	54 11.204	141 52.757							LOOPS TAKEN 0557
		ROS	0618	BO	138	54 11.383	141 52.956				339-356	18		11.1687 32.5793
			0653	EN		54 11.646	141 53.222							
21	—	—	0804	—	—	54 06 938	141 37 557				#8			Loop on the go
21	AB07	ROS	0917	BE	139	54 02.93	141 21.79					10.9709		Syringe removed
		ROS	0944	BO	140	54 03.23	141 22.19					32.5978		LOOPS TAKEN
21	AB07	ROS	1010	EN		54 03.49	141 22.45							
	—	Loop	1119			53 59.16	141 02.53		3749		Loop #9.			
21	AB08	ROS	1236		141	53 54.62	140 50.53		3681					Loops @ 12:39
21	AB08		1303		142	53 54.56	140 50.79				357-374	18.		10.6710 32.5418
	Loop	—	1458			53 49 481	140 30 788				Loop 10			Loop # 10
21	AB09	ROS	1547	BE	143	53 46.543	140 19.131							LOOPS TAKE 1549.
		ROS	1617	BO	144	53 46.659	140 18.762							10.7962 32.5950
	AB09	Loop	1746			53 42.400	140 03.704				Loop #10.			
21	AB10	ROS	1853	BE	145	53 38.272	139 49.135		3540					Loops 9 1855
	AB10	ROS		BO	146						375-392			10.6682 32.5819
	AB10	ROS	1955	EN		53 35.511	139 48.688							
	—	Loop	2100			53 34.41	139 33.25				Loop # 12			

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Station AB/2.

Changed over to CTD winch #1482, CTD cable on winch 1307 broken.

Winch #1307 will not move out of gear; Requires repair before using again.

Winch 1482 cable spooled very poorly. It is unusable. Cable to be removed and wound onto drum properly.

YEAR1997

MONTHJune

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OF

DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
21	AB11	ROS	2214	BE	147	53 30.21	139 16.71		3529					10.8482 32.4859
	AB11	ROS	2242	BO	148	53 30.46	139 16.67			1500.				
	AB11		2312	EN										
22	Loop.		0010			53 26.53	139 03.06				Loop 13.			
	AB12	ROS	0200	BE	149	53 21.99	138 46.36		3529					11.2020 32.4624
	AB12	ROS	0234	BO	150	53 22.10	138 46.95			1500.	393-410	18		Loops @ 02:03
		LOOP	0436			53 25.000	138 29.041				Loop #14			Loop #13
		LOOP	0537			53 27.986	138 13.173				Loop #15			
22	AB13	ROS	0645	BE	151	53 31.061	137 57.106			1000.				LOOPS TAKEN 0647
		ROS		BO	152									11.4205 32.5112
22	AB13	Loop	0730	EN										
22	—	Loop	0826	—	—	53 33 593	137 42 846	—	—	—	Loop #16	—	—	Loop on the run
			0956			53 37.887	137 20.880				Loop #17			
22	AB14	ROS	1051	BE	153	53 40.07	137 08.55							loops @ 10:56
		ROS	1109	BO	154	53 40.15	137 08.71		3347	1001.	411-428	18		11.1937 32.5414
	AB14	ROS	1147.	EN										
	—	Loop	1247	BE	—	53 42.88	136 52.92		2944		Loop 18			
		Loop	1348	BE		53 45.91	136 37.99		2045.		#19			

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CAST TYPE -	BOT - CTD - MOR -	bottle cast ctd mooring	ROS - NET - DRF -	rosette net haul drifter	USW -	sea water loop	TIME CODE -	BE - BO - EN -	beginning time of cast bottom time of cast end of cast	DE - MR - RE -	deployment time messenger release recover mooring	POSITION CODE -	RAD - GPS - LOR -	RADAR GLOBAL LORAN
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