

CRUISE
NUMBER

9702

DAILY LOG

INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

11 - 28 Feb. 1997

VESSEL

J. P. Tully

PROJECT

PAPA /

100

Watch	Cabin
	D
	G
	G to starboard
	F to
	B
	F to

1

Name _____

Program version:

el: _____ serial no.: _____

serial no.: _____

2340

serial no.: P 2014 / S 2023

offset: 1996

serial no.: 1729 / 1766

offset: _____

serial no.: 63502

offset: _____

serial no.: 192D

offset: _____

primary system

reset the sampler.

2nd CTD make: Sea-Bird model: 911 + serial no.:
2x Temperature sensor serial no.: P 2106 / S 2062
coefficients: slope: offset:
2x Conductivity sensor serial no.: P 1748 / S 1764
coefficients: slope: offset:
Pressure sensor range: _____ psi serial no.:
coefficients: FSP: 6000 dB offset:
Transmissometer model: 25cm serial no.: 182-D
coefficients: slope: offset:

Winches:

1. make:	model:	329	serial no.:	1307	use:	CTD #1.
2. make:	model:	329	serial no.:	1482	use:	CTD spare
3. make:	model:	320	serial no.:	1207	use:	Bongo
4. make:	model:	455	serial no.:	1450	use:	spoiling
5. make:	model:		serial no.:	1432	use:	hydro
6. make:	model:		serial no.:		use:	
7. make:	model:		serial no.:		use:	

Salinometer: make: Porta Doh model: 8410 serial no.: 59724
SAIL System:

Program version: _____ Time zone: UTC
Sampling interval: 120 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: _____

Oxygen standard

Blank

1 .000 .004

2 .010 .004

3 .006 .009 .006

.733

.722

.722

.721

Tom

363

6598

Kerth

363

6410

27/2/97

.004

.005

.004

①

.716

.719

.718

.719

②

.721

.719

③

.721

.719

.719

CTD 0437 (97020437.CON)

original 0437 CON file had

number 2014, now has 2038

1729

C_P

2038

T_P

1766

C_S

2023

T_S

CTD's 55, 56, 73, 74.

check which fish used for # 75 + 76.

CTD 0433 (97020433.CON)

for # 55 use

73.CON

1748

C_P

2106

T_P

1764

C_S

2062

T_S

SBE\$MSG.DAT

SAIL

$$\text{Remote Temp} = -4.366089E-13 x^3 + 1.504626E-8 x^2 + 1.258029E-3 x - 0.457749$$

Cond.

$$9.444029E-5 x + 2.760154E-2$$

Temp

$$5.154922E-13 x^3 - 2.646954E-9 x^2 + 1.371746E-3 x + .1456792$$

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YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1997			02			TULLY			9702						
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	
12	SI3	ROS	0354	BE	1	48 35.52	123 30.24		230						
12			0406	BO	1/2	48 35.30	123 30.30				1-14	14			
12			0422	EN	2	48 35.789	123 30.55	GPS	226M				BTL		
12	SI3	DRF	0941	EN		48 35.56	123 30.20	GPS						COMPLETE PUMPS.	
12			1720											fuel jitty, Colwood	
13	3F01	USW		BE		48 15 782	123 30 392	GPS	165m					Loops TAKEN	
13	5F02	USW	0540	BE		48 17.97	124 00.18		186						
13	5F03	USW	0733	BE		48 25.334	124 26.992	GPS	235					Loops TAKEN	
13	5F04	USW	0954	BE		48 32.272	125 00.285	GPS	70					Loops TAKEN	
13	P1	CTD	1203	BE	3	48 34 389	125 29 830	GPS	138						
13	P1	CTD	1208	BO	3/4	48 34 389	125 29 830	GPS	138						
13	P1	CTD	1211	EN	4	48 34 404	125 29 913	GPS	138						
13	P1	USW	1154	BE		48 34 377	125 29 825	GPS	138					Loops	
13	P2	CTD	1430	BE	5	48 35 941	125 59 942	GPS	118						
13	P2	CTD	1433	BO	5/6	48 36 081	125 59 942	GPS	118						
13	P2	CTD	1435	EN	6	48 35	125 59		118						
13	P2	USW	1428	BE		48 35 959	125 59 385	GPS	117					Loops	

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

1748
2106
1764
2062



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13	P3	CTD	1618	BE	7	48 37.58	126 19.96		764						
13	P3	CTD	1633	BO	7/8	48 37.63	126 20.02			728					
13	P3	CTD	1633	EN	8										
13	P3	USW	1630	BE		48 37.66	126 20.01		1345						
13	P4	ROS	1847	BE	9	48 39.00	126 40.11			402					
13	P4	ROS	1855	BO	9/10	48 39.07	126 40.18				15-31	17	BTL		
13	P4	ROS		EN	10										
13	P4	USW	1850	BE											
14	P4		13:17		11	48 39.08	126 40.11								
			13:22	BE	11/12	48 39.12	126 40.24								
					12	48 39.12	126 40.24								
14	P4	Net	1502	BE		48 39.324	126 39.770							TUCKER TRAWL	
		"	1415	EN											
	P4	ROS	1635	BE	13	48 38.99	126 39.85			1336					
		ROS	1652	BO	13/14	48 38.98	126 39.81				32-45	14	BTL		
	P4	ROS	1720	EN	14	48 38.85	126 39.84								
14	P4	ROS	2036	BE	15	48 38.94	126 39.82							DR CAST - N. SHERRY.	
	P4	ROS	2046	BO	15/16	48 38.93	126 39.83								
		ROS	2056	EN	16	48 38.94	126 39.82			300,					

CAST TYPE -

BOT -

bottle cast

ROS -

rosette

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

P6 Tried to correct poor spooling on winch but problem is deeper than 2200 meters.

P8 Note noisy transmissometer signal on down cast $\pm 0.5\%$. On the upcast it is much improved $\approx \pm 0.1\%$

checked for mechanical or optical problem changed power lead to the transmissometer tightened hose clamp. Check the results at P9.

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15	P5	CTD	0134	BE	17	48 41 45	127 09 45	GPS	2131	1500			PL	
15	P5	CTD	0201	Bo	17/18									
15	P5	CTD	0230	EN	18	48 41 55	127 10 13	GPS					PL	
15	P5.?	USW	0328	BE		48 43.01	127 24.71	"	2580	5m			FW.	late loop for P5 ^{NUT+} SAL
15	P6	CTD	0442	BE	19	48 44.62	127 39.95		2576					
15		USW	0445	BE										jelly fish on Tramp?
15		CTD	0521	Bo	19/20	48 44.78	127 39.95							
15	P6	CTD	0555	EN	20	48 44.97	127 40.44			2142				
15	P7	CTD	0822	BE	21	48 46.64	128 09.87	GPS	2535					LOOPS TAKEN.
15		CTD	0853	Bo	21/22	48 46.43	128 09.85	GPS						
15		CTD	0917	EN	22	48 46.32	128 09.80	GPS						
15	P8	CTD	11:51	BE	23	48 48 952	128 39 891		2551	1500			PL	Loops Taken.
15	P8	CTD	12:11	Bo	23/24	48 48 762	128 40 070							
15	P8	CTD		EN		48 48	128 40							
15	P9	USW	14:50	BE		48 51 360	129 09 538						PL	Loops Taken
15	P9	CTD	1454	BE	25	48 51 440	129 10 054		2381					
15	P9	CTD	1521	Bo	25/26	48 51 294	129 10 123							
15	P9	CTD	1556	EN	26	48 50.89	129 10.70							

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

DAILY LOG

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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
15	P10	CTD	1832	BE	27	48 53.75	129 39.89		2674,					Loops taken
		CTD	1855	BO	27/28	48 53.75	129 39.78			1508,				
	P10	CTD		EN	28									
	P10	USW	1840	BE										
15	P11	CTD	2201	BE	29	48 56.01	130 09.94	GPS	2785					LOOPS TAKEN
	P11	CTD	2230	BO	29/30	48 55.89	130 09.90	GPS						
	P11	CTD	2249	EN	30	48 55.83	130 09.70	GPS						
16	P12	USW	01:40	BE		48 58 2	130 40 0							Loops
16	P12	CTD	01:40			Cancelled due to poor weather conditions								
16	P13	USW	0615	EN		49 02.57	131 39.71							Wind 40 knots no CTD
16	P14	CTD	1104	BE	31	49 07.36	132 40.15	GPS	3347					
5	P14	CTD	1136	BO	31/32	49 07.43	132 40.23	GPS						LOOPS TAKEN.
7	P14	CTD	1155	EN	32	49 07.40	132 40.34	GPS						
16	P15	CTD	1616	BE	33	49 11 94Z	133 40 121	GPS	3443					
16	P15	CTD	1637	BO	33/34	49 12 021	133 40 523			1502				
16	P15	CTD		EN	34									
16	P15	USW	1622			49 11 953	133 40 291							
CAST TYPE - BOT - bottle cast ROS - rosette USW - sea water loop TIME CODE - BE - beginning time of cast DE - depth														

CAST TYPE -

BOT - bottle cast
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DRF - drifter

USW - sea water loop

TIME CODE -

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POSITION CODE -

RAD - RADAR
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LOR - LORAN

16 Feb 97 Trap recovery 5mi from P16. Trap on cup 11 of 13. No sediment in "winter" cups
~~Sam~~ collected material from bottom ~2l in trap + found a sizeable "plug" of particulates. Tim
noted 2 sed layers in last cup (11), one on the bottom + a surface slime which may prove there
was a bacterial plug in the trap funnel. Nelson Sherry took samples for bacteria.

(~0500 UTC Feb 17) ~1900 PST Pump cast at P16 to 1000m.

P16 Go Flos #1 to 9 = 5, 15, 20, 35, 45, 60, 80, 100 + 150m.

CTD 0433
C_p 1748
T_p 2106
C_s 1764
T_s 2062

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16	P16	MOR	2120	RE		49 17.01	134 32.00	GPS	3664				7W	Seg. trap recovered
17	P16	ROS	0024	BE	35	49 16 95	134 39.96		3664	400	46-62			1748
		ROS	0035	Bo	35/36	49 16 872	134 39 873						BTL	2106
		ROS	54	EN	36	49 16 764	134 39 729							
17	P16	USW	0044	Bo										Loops OK.
		ROS	1448	BE	37	49 17.07	134 40.01		3665					
		ROS	1453	Bo	37/38	49 17 051	134 40 093			157			BTL	
17		ROS		EN	38									
17	P16	GoFlo	1630	BE		49 16.97	134 40.00	GPS	3665					{ Go-Flo casts, UBC for DOC/POC + Nutrients
17	P16	GoFlo		EN	/						63-71			
17	P16	CTD	2035	BE	39	49 16.96	134 39.91	GPS	3663					DEEP CTD CAST.
	P16	CTD	2136	Bo	39/40	49 16.58	134 40.10	GPS		3050				
	P16	CTD	2232	EN	40	49 16.36	134 40.41	GPS						BROKEN STRAND AT 2239 M.
18	P17	CTD	3:13	BE	41	49 21 035	135 39 881	GPS	3863	1500				
18	P17	USW	3:15	BE	/	49 20 988	135 39 874	GPS						Loops
18	P17	CTD	0343	Bo	41/42	49 20 981	135 39 558							
18	P17	CTD	0404	EN	42	49 20 954	135 39 806							
18	P18	USW	0902	Bo	/	49 26 047	136 40 786	GPS	3861					Loops ONLY

CAST TYPE -	ROS -	USW -	TIME CODE -	BE -
BOT - bottle cast	rosette	sea water temp		

CAST TYPE - BOT - bottle cast
CTD - ctd
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ROS - rosette
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DRF - drifter

USW - sea water loop

TIME CODE - BE - beginning time of cast
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MR - messenger release
RE - recover mooring

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

P19 CTD# 43 logged with wrong CON file.

19 Feb 1925 UTC Switched fluorometer to X1 scale since it was off scale on X100. (SAIL)
49 34.27 N, 140 15.23 W

20 Feb Straight for P26, skipping CTDs. Time at P26 will be limited by approaching storm.

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18	P19	CTD	1328	BE	43	49 30 144	137 40 324	GPS	3954	500				Transmissometer
		GTD	1349	BO	43/44	49 30 184	137 40 470	GPS						below 83%?
		CTD	1404	EN	44	49 30 238	137 40 538	GPS						config error JP OK TL
										- Contig 97020042 -				
18	P19	CTD	1329	USW		49 30 156	137 40 331	GPS						Loops
18	P20	USW	2203	USW		49 32.91	138 40.22	GPS						Loops
19	P21	USW	1240	USW		49 32 614	139 39 739						YL	Loops
19	P22	CTD	2307	BE	45	49 38.182	140 39.56	GPS						Loops TAKEN
	P22	CTD	2330	BO	45/46	49 38.24	140 39.56	GPS						
	P22	CTD	2347	EN	46	49 38.24	140 39.38	GPS						
20	P23	CTD	0557	BE	47	49 45.94	141 39.89		4075					
		USW	0601	EN		49 45.91	141 39.88							wind 15 knots
			0623		47/48	49 45.82	141 39.66			1505.				
			0642		48	49 45.89	141 39.69							
20	P24	CTD	1106	BE	49	49 50.24	142 39.94	GPS						Loops TAKEN
			1133	BO	49/50	49 50.20	142 39.91							
			1153	EN	50	49 50.17	142 39.80							
	P25L	USW	1742	EN		49 59.48	143 54.52							Late loops

CAST TYPE - BOT - bottle cast
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USW - sea water loop

TIME CODE - BE - beginning time of cast
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LOR - LORAN

21 Feb 0200 UTC Abandoned attempt for JGORS (AR) mooring at P26 + returned to Station for Go-Flo casts. Prepped P-Alace float for deployment

ALICE RESET 18:10 LOC 02:10 UTC 21 FEB

Deployed at 0900 UTC 21 FEB

21 Feb. 22:29 UTC. DN LINK FLUOROMETER CHANGED TO DISCARD MODE
Therefore NO CONDUCTIVITY LOGGING ON SAIC (C)
49° 43.573' N 141° 08.174' W

FOUND Conductivity cell glass broken on Primary sensor CTD0433

Note Primary Temperature did not give correct values

It was found that Sensor 2014 see CTD0437.CON was not the sensor used on CTD.

Sensor 2038 is on CTD 0437

I have changed the 97020437.CON file to reflect the new Coefficients

Secondary T OK Primary C and Secondary C OK

for Cast # 55/56 CONFIG FILE 97020055.CON works OK

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20	P35	USW	1936	BE	✓	49 59.73	144 19.18	GPS	?	5m		1	2w.	Loops only
20	P26	CTD	23:06	BE	51	49 59 897	145 00 134	GPS	4271	1500				
20	P26	CTD	2343	Bo	51/52	49 59.90	145 00.05	GPS	!					
21	P26	CTD	0011	EN	52	49 59.84	145 00.23	GPS						
21	P26	ROS	0350	BE	53	49 59.28	144 57.49	GPS						
21	✓	✓	0417	BO	53/54	49 59 40	144 57 779							
21	✓	✓	04	EN	54					1000.	72-90	19		(No sample 91)
21	"	DRF	0900	DE		49 59.063	144 58.233	GPS						P-ALACE #578?
21	P26	DRF	0910	DE		49 59.079	144 57.775	"						WDCR DRIFTER 16636
22		USW	2329			48 59.53	138 29.39							
23		USW	1608			48 51.18	135 09.78							
23		USW	1810			48 51.92	134 41.15	GPS						South of P16
24		USW	0206			48 54 877	132 46 900	GPS					Y	Loop salinity
24	P12	ROS	2042	BE	55	48 58 21	130 39 77	GPS						
24	P12	ROS	2052	Bo	55/56	48 58.16	130 39.68			(400	91-108)			Barnard see me
24	P12	ROS	2115	EN	56	48 58 143	130 39 180	GPS						about this file
25	P12	DE	0053	EN	—	48 55.610	130 37.180	GPS	3268	(2770)	SEQ TRAP			Note in log book

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

Feb 25

0050 Trap deployment at P12. This trap was recovered from P16 + deployed near another trap which was installed here in May '96. Comparison of traps to see if fouling is reducing collection efficiency of traps.

Conductivity cell repaired on CTD 0433

Replaced CTD in Rosette cast 59/60

will use for deep chemistry cast to check calibration
against samples.

25 Feb 2130 Start pump cast at P12 (Bishop).

P11 CTD cast, # 63. I forgot to change station ID number on computer from P12 to P11
when I saved file. JIMZ

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25	P12	ROS	0200	BE	57	48 58 155	130 39 991	GPS	3266	300				
25	P12	ROS	0209	BO	57/58	48 58 192	130 39 959	GPS					BTZ	Cast for Nelson
25	P12	ROS	0223	EN	58	48 58 232	130 39 894	GPS						
25	P12	NET	08:20	BE		48 58 02	130 40 80	GPS						Tucker Trawl, Robert
25	P12	ROS	1338	BE	59	48 59 106	130 38 798	GPS	3270	125		24		
25	P12	ROS	1341	BO	59/60	48 59 135	130 38 697	GPS					BTZ	
25	P12	ROS	1348	EN	60	48 59 13	130 38 69							Bottle 20 Missed
25	P12	ROS	1754	BE	61	48 58.13	130 39.67		3268	3280db				
25	"	ROS	1840	BO	61/62	48 58.03	130 39.38				109-129	21.	BTZ	
25	"	ROS	1842 1942	EN	62.	48 58.23	130 38.93							
26	P12		0730	Depart station										
26	P11	CTD	1016	BE	63	48 55 90	130 09 76	GPS	2786					CTD ONLY
26	P11	CTD	1054	BO	63/64	48 55 65	130 09 50	GPS	2784	2775				
26	P11	CTD	1132	EN	64	48 55 67	130 09 29	GPS						
26	P11	USW	1023			48 55 82	130 09 71	GPS	2784	27				Loops
26	P10	USW	1338			48 53 6	129 40 0	GPS	2671					

Cast 71.
wire strand at 1944. broken
2077.
2110.

Cast stopped at 2088 was more and more broken strands
were found.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		Feb				9702								
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
26	P10	CTD	1344	BE	65	48 53 606	129 40 021	GPS	2672	2650				
26	P10	CTD	1415	BO	65/66	48 53 700	129 40 104	GPS						
26	P10	CTD	1444	EN	66	48 53 696	129 40 036	GPS						
26	P9	CTD	1654	BE	67	48 51.45	129 09.93		2370					
		CTD	1728	BO	67/68	48 51.14	129 09.80			2360				
		CTD	1804	EN	68	48 51.29	129 09.48							
	P9	USW	1700											
26	P8	CTD	2008	BE	69	48 48 94	128 40 02	GPS	2550	2500				CTD ONLY
26	P8	CTD	2045	BO	69/70	48 48 84	128 40 15	GPS						
26	P8	CTD	2112	EN	70	48 48 76	128 40 21	GPS						
26	P8	USW	2010			48 48 92	128 40 06	GPS	2548					LOOPS
26	P7	CTD	2322		71	48 46.70	128 09.93		2536					logs CTD 0433
26		USW	2330			48 46.70	128 09.95							
27	P7	CTD	0002	BO	71/72	48 46.81	128 10.49			2088				
1			0030	EN		48 46.82	128 10.99							
1	P7	CTD	0039	BE	73	48 46.83	128 11.22							CTD 0437
1			0048	BO	73/74	48 46.77	128 11.35							
27	P7	CTD		EN	74									
CAST TYPE - BOT - bottle cast ROS - rosette USW - sea water loop TIME CODE BE - bottom echosounder														

CAST TYPE -

BOT - bottle cast
CTD - ctd
MOR - mooringROS - 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 castDE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE -

RAD - RADAR
GPS - GLOBAL
LOR - LORAN

Should be s/n 2014
1729

Cond 75 Temp s/n 2106
cond s/n 1748

CTD 0437 values he CTD 0433 used

P6: Sample depth max. 1500m = bad wire. Rest of samples to follow

R

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		Feb.				9702								
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
27	P6	CTD	0811	BE	75	48 44 78	127 40.20	GPS	2573	1500*				} CTD 0437 Part 2. ← using CTD 0433 * 1500m due to wire Loops trouble.
27	P6	CTD	0842	BO	75/76	48 45 15	127 40.46	GPS	2573					
27	P6	CTD	0909	EN	76	48 45 36	127 40.26	GPS						
27	P6	USW	0817			48 44 85	127 40.34	GPS	2574					
27	P5	CTD	1122	BE	77	48 41 60	127 10.01	GPS	2110	1500				
27	P5	CTD	1146	BO	77/78	48 41 69	127 10.34	GPS	2115					
27	P5	CTD	1203	EN	78	48 41 78	127 10.26	GPS	2116					
27	P5	USW	1128			48 41 70	127 10.08	GPS						Loops
27	P4	CTD	1423	BE	79	48 39.228	126 40.130	GPS						with BigLoops trans.
27	P4	CTD	1444	BO	79/80	48 39.255	126 40.197	GPS						
27	P4	CTD	1503	EN	80	48 39.30	126 40.122	GPS						
27	P4	USW				48 39.226	126 40.126	GPS	1325	1300.				LOOPS
27	P3	CTD	1639	BE	81.	48 37.42	126 19.92		830					
27	P3	USW	1642	EN										
27	P3	CTD	1657	BO	81/82	48 37.48	126 19.92							
27	P3	CTD		EN	82									
27	P3	ROS	1755	BE	83	48 37 66	126 20 11		786					
27	P3	ROS	1810	BO	83/84	48 37 670	126 19 964				130-143		BTZ	Turbidity layer sampled

DAILY LOG

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YEAR			MONTH			SHIP			CRUISE				PAGE		OF	
1997			Feb			Tully			9702							
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		
27	P3	ROS	1831	EN	84	48 37 612	126 19 850	GPS	760	755	130 - 143	14				
27	P2	ROS	20 11	BE	85	48 36 027	125 59 920									
27	P2	ROS	20:19	BO	85/86	48 36 11	125 59 94						BTZ			
27	P2	ROS	20 24	EN	86	48 36 283	125 59 941	GPS	118	100	144 149	6				
27	P2	USW	20 24	EN	86	48 36 283	125 59 941	GPS						Loops		
27	P1	CTD	2238	BE	87	48 34 58	125 29 96	GPS	115	110						
27	P1	CTD	2242	BO	87/88	48 34 61	125 29 93	GPS								
27	P1	CTD	2245	EN	88	48 34 65	125 29 96	GPS								
27	P1	USW	2246			48 34 65	125 29 96	GPS						Loops		
28	—		0309			48 22.85	124 26.72	ADCP	Time 5. min fast.							

CAST TYPE - BOT - bottle cast
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TIME CODE - BE - beginning time of cast
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POSITION CODE - RAD - RADAR
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