

CRUISE
NUMBER

95-12

DAILY LOG Book # 1.
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

AUG 22/95 → 13 Sept.

VESSEL

C. S. S. J. P. TULLY

PROJECT

LINE P / STN. P, JGOFS.

95-12

Captain: Alan Coombes First Officer: _____
Second Officer: _____ Third Officer: _____
Cruise Participants / Agencies: U.B.C. & I.O.S.
Scientific Personnel: Party Chief: DR PHILIP BOYD

Name	Watch	Cabin	Name	Watch	Cabin
<u>JOHN LOUE</u>	_____	_____	_____	_____	_____
<u>RON BELLEGAY</u>	_____	_____	_____	_____	_____
<u>JANET BARWELL-CLARKE</u>	_____	_____	_____	_____	_____
<u>REG BIGHAM</u>	_____	_____	_____	_____	_____
<u>WENDY RICHARDSON</u>	_____	_____	_____	_____	_____
<u>HUGH MCLEAN</u>	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Second leg of cruise: Party Chief: _____

Name	Watch	Cabin	Name	Watch	Cabin
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Data logging system: Unit no.: _____
Program Name: _____ Program version: _____
CTD deck unit make: _____ model: _____ serial no.: _____
Computer make: _____ model: _____ serial no.: _____

1st 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
coefficients: FSP: _____ dB
Transmissometer model: _____ serial no.: _____
coefficients: slope: _____ offset: _____

Comments: _____

2000 - 2400 watch

RHB & RWB.

cocked all rosette bottles, filled cond. cell with detergent/water (filled loop)
2106 loops taken for JF4 5°C , nutrients, chlorophyll.

2253 - MPO1 - CTD (using rosette) to 135 m

Note: winch has no counter yet -

* AT THE END OF THE CRUISE, THE LANTAROS ON #7 & #11 ROSETTE BOTTLES WERE TOO LOOSE
CAUSING THE BOTTOM CAPS TO CLOSE WHILE STILL COCKED - HIGH

Note CPU Time local for MPØ1 station

Computer clock reset to UTC

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		AUGUST		CSS JOHN P. TULLY		18 DD 9512/1		1		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
	JF1					48°16.0N	123°30.0W							SW. LOOP INOPERABLE.
23			0256			Sail loop over at 0256 UTC								
23	JF3					48°27.0	124°30.0	LIST						5%, nut & chlor. taken
23	JF4		0406	GPS		48°32.299	125°00.011	GPS						5%, nut & chlor. taken
23	MP01	CTD	0553	BE	001	48 34 667	125 30 330	GPS	140	135				time zone, position wrong
23	MP01	CTD	0602	EN		48 34 666	125 30 30	GPS	140	135				in header - NO GPS
23	MP02	CTD	0759	BE	002	48 36 041	126 00 00	STNID	110	100	+ Transmissometer			Loop Samples ^{CHL} SAL NUT
23	MP02	CTD	0804	EN	002	48 36	126 00	STNID						NO Logging upcast
23	MP02	CTD	0919	BE	003	48 37	126 19		842	830				NO upcast.
23	MP03	CTD	10:03	EN	003	48 36 761	126 20 456							
23	MP04	PAR	21:09	EN		48 39 074	126 39 999	GPS	1300	45m				460R LIGHT CAST.
23	MP04	GFl0	21:27	EN		48 38 920	126 39.997	GPS		5m				Pine - mtdls
23	MP04	CTD	21:44	BE	4									Bottle cast Rosette-far
23	MP04	Ros	2150	BO	4/5					100				Water samples microalgae
23	MP04	Ros	2211	EN	5	48 38 855	126 40 248	GPS						Bio file
23	MP04	net	2230	EN		48 39 039	126 40 531	GPS		100 m				Zooplankton sampling
23	MP04	GFl0	2250	EN		48 39 037	126 40 639	GPS		10m				Fe-free Sample
24	MP04	Tucker	0447	BE		48 38 658	126 38 520	GPS	1342	250m				TUCKER TRAWL TRIALS

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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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

Aug 24 1995

0800 → 1200 watch Reg Bigham Ron Bellagan.

0823 - Rosette 006 & 007 to 45 m samples (2) @ 45 m. (21) @ 10 m. water for MUN.

0845 - Maureens plankton haul to 120 m.

0915 - 2 go flos.

1015 - Rosettes (CTD 008, 009, 010) to 45 m. (7) samples

1025 - 10 l. go flocs.

Note

11 file garbage file see Reg the "B."

Not so! I did up to #10 file. a
subsequent watch started @ #12 file

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	
24	MP04	Tucker		BO		48 38 780	126 39 417	GPS		250				AT Bottom	
24	MP04	VPH	0630	BO		48° 38.733	126° 40.435	GPS		200 m.				VPH - DELPHINE	
24	MP04	net	10 23	End		48 38 883	126 39 962	GPS		200 m				VPH - Delphine	
24	MP04	GPH	14:58			48 38 856	126 39 962	GPS		5 m				Metals - Pua	
24	MP04	ROS	1523	BE	006	48° 39.047'	126° 40.092'	GPS		45 m.				incubation water only. MUN	
24	MP04		1528	BO	007	48° 39.057'	126° 40.074'	GPS		45 # 10		23		#2 bottle re-tripped.	
24	MP04	VHF	1545	BE		48 39 212	126 40.131	GPS		120				VHF - snareen soon	
24	MP04	GPH	1615	BE		48 39 210	126 40 01	GPS		10 m.		2		Go - Flo's -	
24	MP04	ROS	1702	BE	008	48° 39.380	126° 39.801	GPS		45 m		0		water for delphine new file starting bottle ③	
24	MP04	ROS	1705	BO	009 010	48° 39 384	126° 39.782	GPS		45 19		2 5		009 - bottle 1 # 2 010 - bottles 3, 4, 5, 6 & 7	
24	MP04	ROS	2230	BE	012	48 38 91	126 39 99	GPS						Down Cast	
24	MP04	ROS	2256	BO	012	48 38 79	126 39 76	GPS						End of down cast	
24	MP04	ROS	2336	BE	013	48 38 53	126 39 73	GPS	1318	1323	1-18	18		Upcast IOS	
24	MP04	ROS	2359	EN	013	48 38 45	126 39 46	GPS						End	
25	MP04	Loops	1:12	Loop		48 39 198	126 40 237	GPS						Loops	
24	MP04	GPH	2030	BE		48 39	126 40	GPS		25 m				Pua & Go Flo's	
25	MP04	GPH	1:58	BE		48 39 622	126 42 883	GPS		10 m				2 20 litre Go Flo's. Bayd Pua	

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

Aug 24/95 P.d.t.

MP04 - Loops taken @ 1:12 UTC (6:12 PM) SALN / CHLOR / NUTS

MP05 - Loops taken @ 2117 P.d.t.

- CTD #014 to 2100 m.

- 200 lb weight winch II - installed, works OK.

- Note:- additional 10 l sample (loop) at even stations.

2224 - underway for Stn MP06.

Aug 25/95

0800 - 1200 watch Reg B & Ron B.

Finish Stn MP08 consec # 20 & 21 - loops had been taken incl 10 l Manderin.

Cond cell water loop put onto Rosette CTD.

Sail navigation logging 1130 hrs. J.L.

Stn MP09 consec #s 022, 023 to 2390. loops taken

2000 - 2400 watch.

Ron B - Tucker trawls

Reg B - Mooring calculations etc

0900	1200	1500	1830	2030
8	9	10	11	12

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1995			Aug			Tully			95-12							
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		
25	MP05	CTD	0407	BE	0014	48° 41.644	127° 09.887	GPS	2109						CTD only, loops taken upcast (?)	
			0449	BO	0015	48° 41.667	127° 09.575	GPS								
			0522	EN		48° 41.58	127° 09.30	GPS								
25	MP06	CTD	0738	BE	0016	48 44 50	127 39 95	GPS	2575	2560					Loops	
25	MP06	CTD	0823	BO		48 44 45	127 40 06	GPS								
25	MP06	CTD	0823	BE	0017	48 44 45	127 40 06	GPS							upcast :	
25	MP06	CTD	0858	EN	0017	48 44 62	127 39 95	GPS	2580	2573						
25	MP07	CTD	1112	BE	0018	48 46 69Z	128 09 90Z	GPS	2533						Down C CTD	
25	MP07	CTD		BO	0018	48 46 456	128 10 05Z	GPS	2530	2530						
25	MP07	Loop	1118	Loop		48 46 701	128 10 08Z								Loops	
25	MP07	CTD		BE	0019											UPCAST
25	MP07	CTD	1225	EN	0019	48 46 356	128 09.830			2536						ON DECK
25	MP08	CTD	1436	BE	0020	48° 50 091	128 39.974			2537						CTD ONLY & Loops
25	MP08	CTD	1513	BO BE	0020 0021	48° 50.097	128° 39.692									
25	MP08	CTD	1549	EN	0021	48 50.021	128° 39.420									
25	MP09	CTD	1756	BE	0022	48° 51.264	129° 09.027		2376						CTD only & loops (1801)	
25	MP09	CTD	1832	BO BE	0022 0023	48° 51.278	129° 10.003	V		2390 db.					upcast	
25	MP09	CTD	1904	EN	0023	48° 51.28	129° 10.04									

CAST TYPE -

BOT -

CTD -

MOR -

bottle cast

ctd

mooring

ROS -

NET -

DRF -

rosette

net haul

dritter

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

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF		
1995			AUGUST			J.P. Tully			95-12							
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
25	MP10	CTD	2111	BE	24	48 53 53		129 39 708		GPS	2680					
25	MP10	CTD	2156	BO	24	48 53 68		129 39 82		GPS						
25	MP10	CTD	2156	BE	25	48 53 67		129 39 82		GPS						LOOPS
25	MP10	CTD	2236	EN	25	48 53 55		129 39 59		GPS						
26	MP11	CTD	0050	BE	26	48 55 947		130 10 074		GPS	2781					LOOPS / CTD ONLY
26	MP11	CTD	0128	BO	26	48 55 986		130 09 743								
26	MP11	CTD	0129	BE	27	48 55 990		130 09 743								UPCAST
26	MP11	CTD	0158	EN	27	48 55 969		130 09 495		V						ON DECK
26	MP12	GoFlo	0445	BE		48 58 621		130 40 861		GPS		10m		1	NMP	Thermosal chain GoFlo
26	MP12	net	0510	EN		48 58 144		130 41 423		GPS		900m				net tow zooplankton Delphine
26	MP12	NET	0520	EN		48 58 950		130 41 423				100m				NET Tow - Ken
26	MP12	NET	0545	EN		48 59 254		130 41 543		V		200m				NET Tow - Ken
26	MP12	TUCKER TRAWL	0605	BE		48		130		GPS		250m				TUCKER TRAWL - ROBERT
26	MP12	"	1050	EN		"		"		"		"				"
26	MP12	net haul	1100	BE		"		"		"		200m				NET Tow, vertical Delphine 2 times
26	MP12	GoFlo	1428	BE		48 58 110		130 40 296		GPS		10m				① NMP ②-Trawl metal GoFlo ② - Phillip Bayd
26	MP12	ROS	1459	BE	028	48° 58.33		130° 40.18		GPS	3136	50m				water for MUN
26	MP12	ROS	1503 1504	BO /BE	028 /029	48° 58.355		130° 40.216		GPS		50m		(6)-50 (17)-10		all Traps confirmed

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

Aug 26/95

0800 - 1200 watch Ron B., Reg B., Hugh M. (still on watch)

on major station MP12.

0800 - shallow rosette 23 samples for MUN.

0840 - 130 m VPH. X (2) for Maureen.

- (3) x 30 l. go flo's (1) for Neil (2) for Phillip

2000 - 2400 Reg B. Ron B.

MP12 - Did rosette to 3000 - many "missed" triggers - JL fiddled with connectors at back of computer and problem disappeared

- Loops taken - Maureen said (2) 10 l. samples already taken -

- Rosette on board, switch over to 58483 CTD and pinger

- CTD to 2988 m, bottom shallowed at last min. Upcast recorded.

- Oz flasks dirty - many bubbles on inside - slowed sampling down getting rid of them all. Case #4.

- Thermometers on bottles 4 and 16 read - The Therms on bottle #4 may not have had enough time to stabilize.

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1995				AUGUST		J.P. Tully			95-12							
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26	MP12	NET	1540	UTC		48 58.534	130 40 812	GPS	3250	130m				2 NET Tows For MO		
26	MP12	ROS	1644	BE	030	48° 58.29	130° 39.94	GPS	3250	45				Delphine's water		
26	MP12	ROS	1647	BO BE	030 031	48° 58.31	130° 40.00	GPS	3250	45		6		all types confirmed 0, 5, 10, 20, 30, 45		
26	MP12	GPH	1948	DE		48 58 179	130 40 671	GPS	3250	30		5	WPP.			
26	MP12	ROS	1950	BE	032	48 58.19	130 40.68	GPS	3250	172				Cast to 150 metre		
26	MP12	ROS	1954	BO	032	48 58.19	130 40.77	GPS	3250							
26	MP12	ROS	1954	BE	033	48 58.19	130 40.77	GPS	3250							
26	MP12	ROS	2018	EN	033	48 58.11	130 41.19	GPS	3250	V						
26	MP12	GPH				48 58 483	130 40 480	GPS	3250	10m				Go Flo for PHIL		
26	MP12	NET				48 58 500	130 40 493	↓	3250	200m				NET Tow - D.T.		
26	MP12	NET	2200			48 58 405	130 40 331	GPS	"	200				2 NET Tows - KEN		
27	MP12	TUCKER TRAWL	0023	BE		48 58 269	130 39 644	GPS	3250	250				Tucker in WATER		
27	MP12	GPH	155	BE		48 58 385	130 39 754	GPS		10		1	NP	Go Flo 30L		
27	MP12	ROS	0204	BE	034	48 58.423	130 39.854	GPS	3263					ROSSETTE		
27	MP12	ROS	0248	BO	034	48 58 337	130 40 391	GPS	3035	3000				@ DEPTH		
27	MP12	ROS	0252	BE	035	48 58 322	130 40 403	GPS	3030	3000	19-41	2.3		UPCAST		
27	MP12	ROS	0406	EN	035	48 58.00	130 41.28	GPS	3030	3000				loops taken		
														thermometers read see log.		

CAST TYPE -
BOT -
CTD -
MOR -

bottle cast
cid
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

Aug 27, 1995 P.d.t.

0800 - 1200 Watch Reg B & Ron B.

0820 - CTD 040 on Stn MP 14

- at about 700 m Captain had to turn ship 180° - winch stopped probably large vertical excursions as wire angle was large at times.

0910 - upcast 041 -

0954 - depart Stn for MP 15

2000 - 2400 Watch Reg B & Ron B.

2113 finish 60 m rosette for MUN water, (7) bottles tripped
Bongo to 150 m

2145 - Bongo and pinger to 208 m

2220 - Bongo

2330 - pinger & wt to 200 m. wire $\angle 5^\circ$ Trying to determine if vertical scale of pinger trace useful. Not yet, looks less than $\frac{1}{2}$ of the winch counter.

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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
27	MP12	CTD	0435	BE	036	48° 58.303	130° 40.147	GPS	3263	2988				CTD only, downcast.
27	MP12	CTD	0519	EN	036	48° 58.265	130° 40.734	GPS	3000					
27	MP12	CTD	0520	BE	037	48° 58.271	130° 40.755	GPS	↓	2988				upcast.
27	MP12	CTD	0600	EN	037	48° 58.17	130° 41.20	GPS	2990					
27	MP13	CTD	0959	BE	038	49 02.691	131 39.889	GPS	3012	3000				Downcast CTD only
27	MP13	CTD		BO	038			GPS	}	}				Loops @ 1011 UTC
27	MP13	CTD	1044	BE	039	49 02.563	131 40.292	GPS	}	}				10L Bottle Loop 10:30 UTC
27	MP13	CTD	11:17	EN	039	49 02.700	131 40.814	GPS	}	}				End of upcast
27	MP14	CTD	15:20	BE	040	49° 07.475	132° 40.016	GPS	3341	3000				winch stopped @ 700 for 10 min. loops - 5700, mut., chlor.
27	MP14	CTD	16:09	BO	040	49° 07.703	132° 40.607	GPS						10L No. 2 square 10L No. 19 round
27	MP14	CTD	1610	BE	041	49° 07.725	132° 40.611	GPS	3360	3000				upcast.
27	MP14	CTD	1651	EN	041	49° 08.153	132° 40.696	GPS	3365					
27	MP15	CTD	2043	BE	042	49 12.095	133 40.047	GPS	3438	3000				CTD only
27	MP15	CTD	2134	BO	042	49 12.402	133 40.845	GPS	3441	3005				
27	MP15	CTD	2134	BE	043	49 12.402	133 40.845	GPS	3441	3005				Loops
27	MP15	CTD	2211	EN	043	49 12.56	133 40.93	GPS	3441	3000				upcast end
28	MP16	ROS	0253	BE	045	49 16.987	134 40.161	GPS		60m				ROSSETTE FORMON
28	MP16	ROS	0259	BO	045	49 16.98	134 40.21							
28	MP16	ROS	0259	EN	046	49 16.92	134 40.22	GPS						upcast.

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

POSITION CODE -

 RAD - RADAR
 GPS - GLOBAL
 LOR - LORAN

Aug 28 1995 Pdt.

0800-1200 watch Ron B Reg B. Hugh Gm.

Shallow net (m.s.)

0937 ② Shallow go flos PB
Shallow net MYN
Shallow rosette ⑥ DT & ② PB

2000 - 2400 watch RB & RB

☆ - 2140 Finish Rosette 053/054 to 3000m - Sample

- 2150 30L go-flo, shallow, 10m

* 2235 CTD 057/058 3000m (58385)

- 0005

* when starting 055, Computer cycled thru 055 & 056 and stopped on 057 - everything else OK.

☆ after taking 25m sample, rosette was brought to surface to see how many bottles were open - there were ② open, the correct number - it was then lowered to ⑩ m. where duplicate samples were taken.

2212 UTC 28/08/95.

P16

Notice strong NE current noticed by ships officer pushing ship
at 2 knots
RDI showing current of 30 cm/s

208

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		August				95-12								
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
28	MP 16	BONGO	0413			49 16.768	134 39.759	GPS		050				BONGO For ROBERT
28	MP 16	BONGO	0445			49 16.426	134 39.950	GP		208 m of wire out				ON DECK
28	MP 16	Stern Bongo	0520			49 16.234	134 40.949	GP.						
28	MP 16	Pinger Test	0630	BE		49° 16.968	134° 40.916	GPS		200 m				Test Pinger Vs Sounder not very successful.
28	MP 16	GoFlo	1416	BE		49 17.206	134 40.735	GPS		10 m		1	NMP	Transmit g/llo.
28	MP 16	ROS	1448	BE	047	49 17.058	134 40.218	GPS		100 m				ROS For MUN
28	MP 16	ROS	1501	EN	048	49 17.111	134 40.295	"		10 m	* TRIPPED 20 BOTTLES HAD 23 BOTTLES TRIPPED			TRIG 10 BOTTLES
28	MP 16	Net	1515			49° 17.060	134° 40.672	RHB		120				M5
28	MP 16	GoFlo								10				PB
28	MP 16	Net	1637			49° 16.663	134° 43.495	GPS		300				MUN
28	MP 16	Ros.		BE	049	49° 16.712	134° 41.611	GPS		0				ROSSETTE for D.T.
28	MP 16	Ros	2118	BO		49° 16.71	134° 41.68	GPS		60				
28	MP 16	Ros	2122	BE	50	49° 16.71	134° 41.68	GPS		60		8		upcast - samples
28	MP 16	Ros	2136	EN		49° 16.584	134° 42.140	GPS		0				on Deck
28	MP 16	GoFlo	2133			49	134	GPS		35		6		Pin
28	MP 16	NET Tow	2205			49 17.023	134 40.219	GPS		150				NET Tow - D.T.
28	MP 16	Ros	2226	BE	51	49 16.927	134 40.831	GPS		100				Rosette for Water Samples
28	MP 16	Ros	2230	EN	51 52									upcast for samples

CAST TYPE -	BOT -	bottle cast	ROS -	rosette	LSW -	sea water loop	TIME CODE	BE	
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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

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE					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	
29	MP 16	ROS	0136	BE	053	49 17 063	134 40 304		3657	3000				I.O.S. Rossete	
29	MP 16	Loops	0148			49 17 134	134 40 270			Loops				Loops	
29	MP 16	ROS	0226	BO	053	49 17 020	134 40 467			3675				@ DEPTH	
29	MP 16	ROS	0228	BE	054	49 17 030	134 40 450			3675	42-64	23		↑	
29	MP 16	ROS	04:40	EN	054	49 16 20	134 41 34	GPS						ON Deck	
29	MP 16	GPS	420			49 16 505	134 41 085	GPS		10		1	NMP	10m goft	
29	MP 16	CTD	0535	BE	055 057	49° 15.402	134° 42.069	GPS	3664					Set on 055 - program started 3 times on 1 push!	
29	MP 16	CTD	0620	BO	057	49° 15.076	134° 43.489	GPS		3000					
29	MP 16	CTD	0621	BE	058	49° 15.078	134° 43.546	GPS		3000				Upcast	
29	MP 16	CTD	0705	EN	058	49 14.858	134 44.717	GPS						on board.	
29	MP 17	CTD	1054	BE	059	49 20 889	135 39 915	GPS		3000	Loops			Down Cast	
29	MP 17	CTD	1136	BO	059	49 20 632	135 39 830	GPS		"					
29	MP 17	CTD	1137	BE	060	49 20 643	135 39 810	GPS						UPCAST	
29	MP 17	CTD	1207	EN	060	49 20 694	135 39 482	GPS						ON DECK	
29	MP 18	CTD	1630	BE	061	49° 26.063	136° 40.111	GPS	3856	0				Downcast	
29	MP 18	CTD	1719	BO	061	49° 25.44	136° 39.36	GPS		3007				@ depth	
29	MP 18	CTD	1720	BE	062	49° 25.435	136° 39.35	GPS		3000				upcast	
29	MP 18	CTD	1806	EN	062	49° 24.97	136° 38.36	GPS		0				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

August 29 1995 8-12 watch RB & RB Wind (23 Kts) & rain

Remove pinger from CTD, put pig (25 KG) there instead

Put wet-loop on rosette CTD Cond. cell.

0930 Stn MP 18 CTD only to 3000m.
loops Taken S₀, Nut, Chlor, ② - 10-l containers.

Problem on bridge with platter - Sail shut off for a short time by Captain.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		AUGUST		J.P. Tully		95-12								
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
29	MP18	Loops	1635	loop	061	49° 25.861	136° 40.247	GPS	3856	Loops				Loops
29	MP19	CTD	2245	BE	063	49° 29.96	137° 39.92		3953					Loops / Downcast
↓	↓	↓	2324	CO	063	49° 29.80	137 40.06			3000m				@ Depth
↓	↓	↓	2324	CE	064	49 29.80	137 40.06							UPCAST
29	MP19	CTD	2353	EN	064	49 29 59	137 40 12							ON DECK
30	MP20	Ros.	0447	BE	065	49° 34.30	138 40.11	GPS	3986					→ * 065 & 066
30	MP20	Ros.	0452	BO	065	49° 34.34	138° 40.09	GPS		106				labelled MP.16 m
30	MP20	Ros	0453	BE	066	49° 34.34	138° 40.09	GPS						→ * header files <u>not</u> MP20
30	MP20	Ros	0506	EN	066	49° 34.46	138° 40.32	GPS						
30	MP20	net	0520	net	—	49° 34.57	138° 40.370	GPS	3985	150				net haul - Delphine
30	MP20	net	0542	net	—	49° 34.623	138° 40.509	GPS		20				net haul Robert G
30	MP20	net	0720	BE		49° 34.06	138 40.01	GPS	3987	180				Bonded net hauls (2) - Robert G.
30	MP20	"	08:57	EN										"
30	MP20	"	10.00	BO		49 33.980	138 39.963	GPS	—	200				net haul Delphine
30	MP20	Guth	1655	BE		49° 33.91	138° 39.95	GPS				1	UMP	in L GPS
30	MP20	Ros	1706	BE	067	49° 34.07	138° 39.96	GPS		10				water for MUN
30	MP20	Ros	1708	BO	067	49° 34.10	138° 39.99	GPS		10				
30	MP20	Ros	1709	BE	068	49° 34.10	138° 39.99	GPS		0				upcast

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

Aug 29/95

2000 - 2400 Watch Ron B Ray B.

- Switched over to rosette from 58483
Rosette to 100 m. Started taking samples @ 60 m. - 5 bottles (1-5) - only #1 confirmed but all showed high current. Next sample was to be @ 20 m so we brought rosette to surface for visual check - 5 were tripped.
Lowered rosette to 20 m and tripped bottles 6-7-8-9-10 no 'confirms' but all showed high current. All 6-10 had tripped as well as #11 bottle.
- The down cast was 065
The upcast was 066
Both were @ MP 20
The header files show Station MP16 - when the CTD was switched to the rosette the consec no. was not corrected.

2220 - Net tow for Delphinus to 150 m.

2242 - Net tow for Robert g. to 20 m.

Aug 30/95. 0800 - 1200 Watch RB RB H.M.

- 3rd go flo for Robert
- John Love - re-splices CTD cables
- Rosette to 10 m for MUN 23 bottles tripped - (7) bottles did not confirm; all showed high current, all did in fact trip. Data shows (25) trips?
- Rosette to 100 m for Delphinus Ray. only (1) out of first (5) tripped was confirmed - visual check - all had tripped; back to 10 m; trip #6 no high current, trip again, confirmed - trip #7 high current but no confirmed - Deck check (6) (7) (8) (9) all tripped.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		August				95-12								
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
30	MP20	ROS	1801	EN	068	49° 34.62	138° 41.06	GPS	3984	10				* Confirmed visually water for MCN
30	MP20	ROS	1805	BE	069	49° 34.724	138° 41.089	GPS	3984					
30	MP20	ROS	1810	BO	069	49° 34.79	138° 41.25	GPS						
30	MP20	ROS	1810	BE	070	49° 34.79	138° 41.27	GPS						water samples for Dolphin R
30	MP20	ROS	1827	EN	070	49° 34.91	138° 41.50	GPS					✓	visual check before 102
30	MP20	ROS	2039	BE	071	49 34 139	138 40 067	GPS						
30	MP20	ROS	2045	BO	071	49 34 189	138 39 778	GPS						Shallow Rosette for
30	MP20	ROS	2046	BE	072	49 34 189	138 39 778	GPS						Moored
30	MP20	ROS	2109	EN	072	49 34 39	138 39 68	GPS						
31	MP20	ROS	0149	BE	075	49 33.81	138 40.44	GPS		3860				DOWN CAST / LOOPS
31	MP20	ROS	0241	BO	075	49 33 47	138 41 23	↓						SOMEWHERE... 073 EXISTS
31	MP20	ROS	0241	BE	076	49 33 47	138 41 24	↓			65-87	23		BUT I CAN'T FIND IT.
31	MP20	ROS	0449	EN	076	49 34 12	138 39.95	GPS						bottles (22)(23) DIDN'T TRIP!
31	MP20	CTD				49 34 04	138 41 085	GPS		10		1	NRW	
31	MP20	CTD	0604	BE	077	49° 34.122	138° 41.471	GPS						
31	MP20	CTD	0651	BO	077	49° 34.265	138° 42.191	GPS						Cond. trace noisy - weight?
31	MP20	CTD	0652	BE	078	49° 34.269	138° 42.209	GPS						Does buffer always look
31	MP20	CTD	0733	EN	078	49° 34 38	138° 42.64	GPS						like that? yes & no!

CAST TYPE -

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TIME CODE -

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BO - bottom time of cast
EN - end of castDE - deployment time
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GPS - GLOBAL
LOR - LORAN

* - SEEMS TO HAVE SKIPPED FILES 73 & 75 M.I.A.?

Aug 30 Cont. 2000-2400 watch RB & RB.

Finish rosette cast - last 2 bottles (22 & 23) didn't trip.
Take samples including "while you're out there" samples
Switch over CTD's etc.
CTD cast to 3000 m started.

Aug 31 / 95 8-12 watch RB, RB.

SE corner CTD # 085/086 to 200 m.

Underway sampling en route to MP 20 every 20 min.

Underway Sample K 1554 / UTC 49° 29.705
138° 32.636

Underway Sample L 1612 / UTC 49° 31.64
138° 35.96

Stopped back @ MP 20 for shallow rosette.

Weight winch quit - wire jammed and continued efforts to start it -

No circuit breaker in winch and ships GFD did not trip - bad news.
will take wire off if possible and/or winch apart.

Rosette to 100 m. - 2 extra samples taken? Took 5% samples
to determine depths - got it sorted out. John L. ran 5% samples.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1937		Aug		Tully		95-12								
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
31	NEWS	CTD	0920	BE	079	49 40.39	138 50.47	GPS	3963	200				
31	NEWS	CTD	0925	BO	075	49 40.40	138 50.54	GPS						
31	NEWS	CTD	0925	BE	080	49 40.40	138 50.54	GPS						
31	NEWS	CTD	0941	EN	080	49 39.35	138 50.55	GPS						
31	NEW SW	CTD	1102	BE	081	49 27.05	138 50.40	GPS						DOWNCAST
31	NEW SW	CTD	1106	BO	091	49 27.02	138 50.34		3992					LOOPS
31	NEW SW	CTD	1106	BE	082	49 27 02	138 50.34	↓		200m				UPCAST
31	NEW SW	CTD	1110	EN	082	49 27 05	138 50.33	GPS						ON DECK
31	NEW NE	CTD	1325	BE	083	49 42 02	138 27 97	GPS						DOWNCAST
31	NEW NE	CTD	1329	BO	083	49 42 02	138 27 98							LOOPS
31	NEW NE	CTD	1329	BE	084	49 42 02	138 27 98	↓						UPCAST
31	NEW NE	CTD	1333	EN	084	49 42 04	138 27 96	GPS						ON DECK
31	NEW SE	CTD	1514	BE	085	49 26.987	138 27.994	GPS		200m				DOWNCAST
31	NEW SE		1520	BO	085	49 27.043	138 28.069							
31	NEW SE	↓	1521	BE	086	49 27.039	138 28.068	↓						UPCAST
31	NEW SE	CTD	1525	EN	086	49 27.08	138 28.04	GPS						ON DECK
31	NEW SE	Loop	1518	Loop	Loop	49° 27.026	138° 28.080	GPS		loop				LOOPS
31	K	Loop	1554	Loop	K	49° 29.705	138° 32.636	GPS	4000	loop		1	RAB	loop K

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

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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
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File 90 not there due to ALT S Key being pressed too long.
This causes the file number to increment without writing a file.
A 1 second delay would stop this, should be long enough.

SL.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1995			MONTH Aug /			SHIP Tully			CRUISE 95-12				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
31	L	loop	1612		loop	49° 31.64	138° 35.96	GPS	4000				RHB	loop L
31	MP20	ROS						GPS						
31	MP20	GoFlo	1702			49 33.861	138 40.192	GPS		10		1	MPD	GoFlo 30 liter
31	MP20	ROS	1738	BE	087	49 33.840	138 40.118	GPS	4000					
31	MP20	ROS	1741	BO	087	49 33.845	138 40.124	GPS						
31	MP20	ROS	1744	BE	088	49 33.868	138 40.167	GPS						
31	MP20	ROS	1802	EN	088	49 34.01	138 40.30	GPS		60		18/20	RHB	② extra trips - 5% taken to confirm depths
1		loop	0303			49 35.207	138 58.330	GPS						loop #3
1		loop	0330			49 35.624	139 04.712	GPS						loop #4
1		loop	0400			49°36.143	139 11.600	GPS						loop #5
1		loop	0430			49°36.605	139°19.059	GPS						loop #6
1		loop	0500			49°37.110	139°26.040	GPS						loop #7
1		loop	0600			49°37.769	139°37.203	GPS						loop #8
1	MP21	CTD	0627	BE	089	49 38.047	139 39.950	GPS	3980					
1	MP21	CTD	0716	BO	089	49 37.67	139 39.43	GPS		3000				No 90 Fide
1	MP21	CTD	0716	BE	091	49 37.67	139 39.43	GPS						Multipule ACT S
1	MP21	CTD	0800	EN	091	49 37.35	139 39.39	GPS						
1	MP21	Loops	0656			49°37.887	139°39.554	GPS	3980					loops incl ② - 10e

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

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
95		09		Tully		9512								
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
1	MP22	CTD	1314	BE	92	49 42.13	140 39 78	GPS	3908					Downcast
1	MP22	CTD	1352	BO	92	49 42.06	140 39 92	GPS		3000				
1		Loop	0903		/	49 38.749	139 50.327	GPS						Loop # 9
1	MP22	CTD	1354	BE	93	49 42.11	140 39 90							Upcast
1	MP22		1424	EN	93	49 41.66	140 39 99							on Deck / Loops
1			10:10			49 39.525	140 04 470	GPS						Loop # 10
1			10:56			49 40 470	140 15 937	GPS						Loop # A
1			12:02			49 41 267	140 20 838	GPS						Loop # B
1			12:58			49 41 925	140 30 367	GPS						Loop # C
1			14:45			49 42.133	140 44.137	GPS						Loop # D
1			15:44			49 43.179	140 57.782	GPS						Loop # E
1			16:42			49 44.123	141 11.715	GPS						Loop # F
1			17:44			49 45.121	141 26.633	GPS						Loop # G
1	MP23	CTD	1852	BE	094	49° 46.009	141° 40.316	GPS	4070					
1	MP23	CTD	1938	BO	094	49° 45.70	141° 40.55	GPS		3000				
1	MP23	Loop	1900	Loop	/	49° 45.978	141° 40.432	GPS	4070	Loops				5900 met. data @ 100 phib. 6. } → loops incl ② - 10 e. and Phillip Bay's. 4.9
1	MP23	CTD	1938	BE	095	49° 45.70	141° 40.55	GPS						
1	MP23	CTD	2017	EN	095	49° 45.43	141° 40.44	GPS						

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

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USW - sea water loop

TIME CODE - BE - beginning time of cast
BO - bottom time of cast
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MR - messenger release
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POSITION CODE - RAD - RADAR
GPS - GLOBAL
LOR - LORAN

Sept 1/95 P.d.t.

8-12 watch Reg B Ren B.

Remove pylon from Nozzle
attach winch anodes to mooring lines
tinker with mooring stuff
MP-23 start CTD Consec # 094

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE					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	
1			2120			49 46 943	141 52 642	GPS						Loop # I	
1			2213			49 47 747	142 09 413	GPS						Loop # J	
1			2311			49 48 613	142 17 222	GPS						Loop # K	
2			0029			49 49 369	142 28 361	GPS						Loop # L	
2	MP 24	ROS	0112	BE	096	49° 50.08	142° 40.22	GPS	4008					DOWNCAST/LOOPS	
2	MP 24	ROS	0202	BO	096	49° 49.85	142° 41.40	↓		3900					
2	MP 24	ROS	0203	BE	097	49° 49.86	142° 41.38				88-110	23		UPCAST	
2	MP 24	ROS	0329	EN	097	49° 49.23	142° 41.74	GPS						ON DECK	
2	MP 24	CTD	0404	BE	098	49° 49.074	142° 42.007	GPS						downcast	
2	MP 24	CTD	0449	BO	098	49° 48.819	142° 42.288	GPS		3000					
2	MP 24	CTD	0449	BE	099	49° 48.816	142° 42.290	GPS						upcast	
2	MP 24	CTD	0533	EN	099	49° 48.74	142° 42.69	GPS							
2		loop	0601	loop		49° 50.588	142° 49.193	GPS	4000	Loop	Sample A	① fridge		Phil's hourly loop	
2		loop	0700	loop		49° 54.191	143° 03.276	GPS	4094	Loop	Sample B	① → fridge		Phil's hourly loop	
2		loop	0801	loop		49 56.754	143 12.86	GPS	4166	loop	Sample C	① → fridge		Phil's bottles	
2		loop	0857	loop		49 58.99	143 30.90	GPS	4156	loop	Sample D	① → fridge		Phil's bottles	
2	MP25	CTD	0930	BE	100	50 00 00	143 36 28	GPS	4167	3000					
2	MP25	CTD	10:15	BO	100	50 00 00	143 36 53	GPS		3000				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 -

GPS -

LOR -

GLOBAL

LORAN

LORAN

File # 104 may be finger trouble only few surface values in it and no entry in the log book.
Suspect ALT S pressed for too long SL

Time Start deployment of FD * mooring
1905, UTC

Finish deployment at 2110 UTC 50 00 457
144 4402?

ALICE FLOAT DEPLOYMENT

SN^o 578 Start of Selftest 0954 UTC 1454 PDT

Selftest complete after 35 min i.e. Bladder full, pump stopped, the instrument ready to deploy

Sept 2 1995 Deployed at a Position 50 00 336 N 145 01 969 W at 18:11 PDT

01:11 UTC 3 Sept 95

Note date transition: 950902 — PDT
950903 — UTC

No damage during deployment weather good about 1 metre swell, wind 15 knots

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE			OF
			Sept.						95-12						
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	
2	MP25	CTD	1015	BE	101	50 00 00	143 36 53	GPS	4169	3000				upcast	
2	MP25	CTD	1053	EN	101	50 01 321	143 36 486	GPS							
2			1200			50 00 060	143 47 529	GPS						Loop# E	
2			1306			49 59 979	143 59 335	GPS						Loop# F	
2			1401			50 00 058	144 09 552	GPS						Loop# G	
2			1442			49 59 91	144 18 233	GPS						Loop# H	
2	MP 35	CTD	1444	BE	102	49 59.90	144 18 21	GPS						Downcast/Loops	
2	MP 35	CTD	1524	BO	102	49 59.95	144 18.52	↓							
2	MP 35	CTD	1525	BE	103	49 59.95	144 18.52							UPCAST	
2	MP 35	CTD	1603	EN	103	49 59.976	144 19.069							ON DECK	
2			1702			50 00 005	144 32 202							Loop # I	
2			1804			50 00 182	144 44 660							Loop # J	
2	NEWS	Ros	1807	BE	105	50 00.199	144 44.877								
2	FD Star	Ros	1824	BO	105	50 00.38	144 44.76	GPS	4107	1000m				FD * Samples	
2	FD *	Ros	1825	BE	106	50 00.39	144 44.78	Change	scale to 100m			23			
2	FD *	Ros	1941	EN	106	(50 00) 49.81	144 44.24		clear screen						
2	FD *		1942	BE		50 00 378	144 44 051	GPS						Start deployment.	
	FD *		2111	EN		50 00 595	144 44 207	GPS						Release anchor	

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

FILE # 112 Rosette brought on deck. Acquisition left
in logging mode by mistake for 1 hour 30 min
but deck unit was off.

This file was an upcast bottle Rosette.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR				MONTH		SHIP				CRUISE				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	
2	MP26a	ROS	2257	BE	107	50 00 06	145 00 81				4269					Downcast/Loops	
2	MP 26	ROS	2344	BO	107	50 00 00	145 02 06					3700				1 Header in D.C. wrong I think	
2	MP 26	ROS	2345	BE	108	50 00 19	145 02 16						111-133	23		UPCAST	
3	MP 26		0101	EN	108	50 00 18	145 02 19									ON DECK	
3	MP26	CTD	0200	BE	109	50 00 06	145 00 03									CTD Down cast	
3	MP26	CTD	0234	BO	109	50 00 21	145 00 23										
3	MP26	CTD	0234	BE	110	50 00 21	145 00 23									UP CAST	
3	MP26	CTD	0305	EN	110	50 00 25	145 00 50									ON DECK	
3	MP26	GoFlo	146			50 00 409	145 00 038					10m		2	NMP	two 20L GoFlo's.	
3	MP26	GoFlo	0330			50 00 30	145 00 40					10x7		7	JP/FE	6 10L + 130L Go Flo's	
3	MP26	NET	0355			50 00 505	145 00 930					150			KC	NET Tow for KEN	
3	MP26b	ROS	0437	BE	111	50 00.645	145 00.540				4269					Deep Rosette	
3	MP26	ROS	0537	BO	111	50 01.07	145 00.85										
3	MP26	loops	0512			50° 00.912	145° 00.762					loops				RHB. Loops, 5400, mut. & chlor.	
3	MP26	ROS	0539	BE	112	50 01.081	145° 00.853					3845	134-156	23			
3	MP26	ROS	0927	EN	112	50 59 528	144 58 773									Left logging by mistake	
3	MP26	Net	0800	BE								500				Bongo nets - Report	
3	MP26	Net	1000	EN												Finish Bongo's	

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

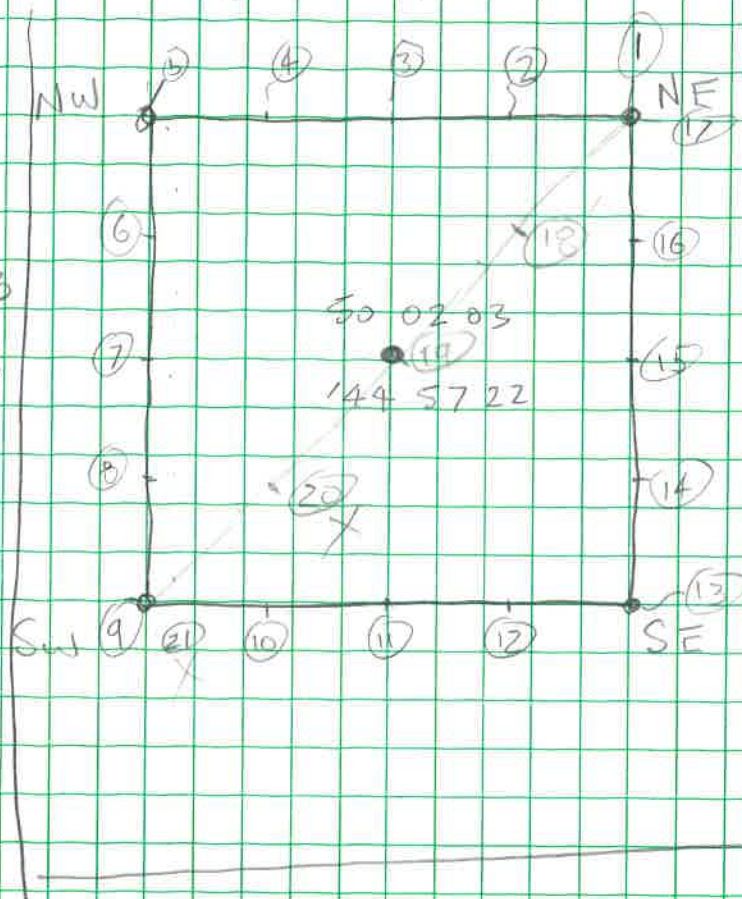
POSITION CODE -

RAD -
 GPS -
 LOR -

RADAR
 GLOBAL
 LORAN

Start of Bathy survey

DEPTH	LAT	LONG
16	4251.6	50 02 434 144 56 103
17	4254	50 02 764 144 56 185
18	4252	50 02 322 144 56 763
19	4255	50 02 045 144 57 141
20	X	
21	X	



EVENT MARK #	DEPTH (m)	LAT	LONG
1	4254	50 02 752	144 56 067
2	4253	50 02 796	144 56 857
3	4254.6	50 02 795	144 57 307
4	4256	50 02 770	144 57 952
5	4258.5	50 02 720	144 58 295
6	4259.5	50 02 258	144 58 340
7	4262	50 01 970	144 58 354
8	4262	50 01 645	144 58 349
9	4263	50 01 352	144 58 314
10	4261.5	50 01 362	144 57 717
11	4259	50 01 348	144 57 187
12	4255	50 01 325	144 56 518
13	4252.5	50 01 334	144 56 063
14	4250.7	50 01 802	144 56 072
15	4250.4	50 02 038	144 56 091

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		Sept.				95-12								
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	P26	ROS	1255	BE	113	50 02 07	144 57 06		4255					DOWNCAST
3	P26	ROS	1336	BO	113	50 02 07	144 55 93			3300				
3	P26	ROS	1336	BE	114	50 02 07	144 55 92							UPCAST
3	P26	ROS	1434	EN	114	50 02 07	144 55 92							ON DECK
3	P26	NET		EW		50	144		4255	3300				
3	P26	ROS	1527	BE	115	50 02 61	144 53 97					23		23 BOTTLES @ 10m-MUN
3	P26	ROS	1541	EN	116	50 02 79	144 53 50							ON DECK
4	P26	ROS	0134	BE	117	49 59.63	144 59.56							DOWNCAST
4	P26	ROS		BO	117									FORGOT TO ALT'S @ Bottom
4	P26	ROS		BE	117									UPCAST
4	P26	ROS	0239	EN	117	49 59.42	144 58.61							ALL ON FILE 117 ON DECK
4	P26	ROS	1613	BE	118	49° 59.60	144° 57.67		4265					
4	P26	ROS		BO	118	49° 59.60	144° 57.66							
4	P26	ROS	—	—	—			*						* Sygelinn crashed
4	P26	ROS	Crash 1632	EN	118	49° 59 62	144 57.23							
4	P26	GoFlo	"1230"	—	—	49 59 60	145 00 350			250 m		7	H.M	Go Flo's For Phil 101
4	P26	GoFlo	"1315"	—	—	50 00	145 00			10 m		1		Go Flo - N.P 301
	P26	Reo	1639	BE	120	49° 59.677	144° 57.120							Rosette Samples 15-23

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

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1995			SEPT			Tully			95-12						
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	
4	MP26	ROS	1655	EN	120	49° 59.61	144° 56.69	GPS		99.65		210	RE	last part after crash.	
4	MP26	ROS		BE	121			GPS							
4	MP26	ROS		BO	121			GPS							
4	MP26	ROS		BE	122			GPS							
4	MP26	ROS		EN	122			GPS		100		15			
4	MP26	ROS	20:00	BE	122	49 59 992	144 59 924	GPS		100					
										CMT FILES	8	HD Files		due to computer lock up	
														Restart Bio cast at 30 metres using conseq # 125	
4	MP26	ROS	2016	BE	125	50 0 09	144 59 77	GPS						Bio Rosette for	
4	MP26	ROS	2024	EN	125	50 0 13N	144 59 65	GPS						Water Samples	
4	MP26	GPS	2133			50 00 590	144 58 447	GPS		30		6	MP	10L. 30thos.	
5	MP26	ROS	0124	BE	126	50 00 21	145 00 12	GPS						DOWNCAST	
↓	↓	ROS		BO	126			↓							
↓	↓	ROS	0130	BE	128	50 00 11	145 00 04	↓						UPCAST	
5	P26	ROS	0144	EN	129	49 59 91	144 59 97	GPS						ON DECK	
5	P26	NET	0800	BE		50 00 31	145 00 24	GPS		250				TUCKER TRAWL - Robert	
5	P26	NET	0830	BO		49 59 56	144 59 83	GPS						TT @ 250m	

CAST TYPE -

BOT - bottle cast
CTD - cid mooring
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
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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE								PAGE		OF	
95		Sept.															
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			
5	MP26	TT	09:15	EN	—	49 58	144 58	GPS	4220	250					Tucker Trawl		
5	MP26	Go Flo	1259		—	?	?			100m	157-165	9			PRIMARY PROD.		
5	MP26	P.P.	1451		—	49 59 49.2	144 59 30.1	GPS							RONNIES P.P. DEPLOYED		
5	MP26	ROS	1529	BE	130	49° 59.21	145° 0.35	GPS	4223						DOWN CAST		
↓	↓	↓	1533	BO	130	49° 59.12	145° 0.29	↓		160							
↓	↓	↓	1534	BE	131	49° 59.14	145° 0.29	↓							UPCAST		
5	MP26	ROS	1556	EN	131	49° 59.03	145° 0.12	GPS		160		23			ON DECK		
5	MP26	ROS	1707	BE	132	49° 58.64	144° 59.36	GPS							water for Jennifer		
5	↓	↓	1711	BO	132	49° 58.64	144° 59.34			50							
5	↓	↓	1714?	BE	134	49° 58.70	144° 59.28	*				(5)@50m	*		Bombed after 5		
5	↓	↓	1717	BE	135	49° 58.66	144° 59.22			50							
5	↓	↓	1735	EN	135	49° 58.76	144° 58.79					(7)@8m					
5	MP26	P.P.	2140		—	50°00.269N	144°59.266	GPS							RECOVER P.P. DRIFTER		
5	MP26		0300			Net tow Canceled by bridge due to 40k wind 2-3mhe sea											
6	MP26		0500			ROSGTTE CANCELLED DUE TO WEATHER - 40k+ winds											
6	MP26	ROS	1530	BE	136	49° 58.77	144 56.97	GPS	4283	10m		23			water for MUN		
6	MP26	ROS	1540	EN	136	49° 58.75	144 56.93	GPS									
6	MP26																

CAST TYPE -

BOT - bottle cast

ROS - rosette

USW - sea water loop

TIME CODE -

BE -

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
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net haul
drifter

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sea water loop

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bottom time of cast
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recover mooring

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GPS -
LOR -RADAR
GLOBAL
LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE								PAGE	OF
95		Sept.													
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	
6	MP26	ROS			137										
6	MP26	GoFlo	1606			49° 57.995	144° 53.507	GPS		10m				Go Flo's @ -10m. P.B.	
6	MP26	GoFlo	1803			49 58 002	144 52 525	GPS		35m		6		GoFlo - mo/ml/PB	
6	MP26	NET	1806			49 58 014	144 52 553	GPS						NET Tow R.G.	
6	MP26	GoFlo	2015			50 00 023	144 59 977	GPS		10		1	MM	GoFlo	
7	MP26	ROS	1325	BC	138	50 07 23	144 45 19	GPS	430G	1500		7		ROS for BC/DOC	
7	MP26	ROS	1348	BO	138	50 07 07	144 45 22	↓							
7	MP26	ROS	1348	BC	139	50 07 07	144 45 22				166-186	21		UPCAST	
7	MP26	ROS	1424	EN	139	50 06 94	144 45 45	GPS						ON DECK	
7	MP26	ROS	1701	BE	140	50 10 000	144 40 484	GPS		Water for Bio				Note NOT girls on Steadwin	
7	MP26	ROS	1750	BO	140	50 09 965	144 40 656	GPS							
7	MP26	ROS	1751	BE	141	50 09 955	144 40 657	GPS						upcast bottles	
7	MP26	ROS	1845	EN	142	50 10 120	144 41 170	GPS						2 bottles at 400 bypassed	
7	MP26		1848			50 10 016	144 41 097	GPS						Loop A	
7	en route	loop	2001	loop		50° 14.294	144° 21.770	GPS				B		Philo loop 'B'	
7	en route	loop	2100	loop		50° 17.792	144° 06.639	GPS				C		Philo loops 'C'	
7	en route	loop	2200	loop		50° 16.646	143 53.455	GPS				D		Philo loops - 'D'	
7	EN ROUTE	Loop	2300	Loop		50° 08.640	143° 44 500	GPS				E		PHILS LOOPS - 'E'	

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

Sept 7/95.

Engineer checking for air leak in leave comp. system. Says it's probably up at air cylinders as no major leak in cabinet —
But he says everything in cabinet should be dismantled, cleaned and a protective coat of something applied before re-assembly.

DAILY LOG

OCEAN PHYSICS

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1995		Sept.													
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8	EN ROUTE	Loop	0007			49 59 272	143 34 557	GPS				F		Phil's Loop 'F'	
9	EN ROUTE	Loop	0059			49 52 310	143 26 913	GPS				G		Phil's Loop 'G'	
8	EN ROUTE	Loop	0200			49° 44.424	143° 18 497	GPS				H		Phil's Loop 'H'	
8	EN ROUTE	Loop	0300			49° 36.713	143° 10 135	GPS				I		Phil's Loop 'I'	
8	EN ROUTE	Loop	0312			49° 35 080	143 08 313	GPS				J		Phil's Loop @ Turning Pt. of grid.	
8	EN ROUTE	Loop	0400			49° 40.473	142 58.594	GPS				K		Phil's Loop 'K'	
8	EN ROUTE	Loop	0500			49° 47.219	142° 46.747	GPS				L		Phil's Loop 'L'	
8	EN ROUTE	Loop	0601			49° 54.136	142° 34.624	GPS				A		Phil's Loop 'A'	
8	EN ROUTE	Loop	0700			50° 00.878	142° 22.442					B		Phil's Loop 'B'	
8	en Route	Loop	0800			50 06 319	142 12 832	GPS				C		Phil's Loop C.	
8	en Route	Loop	0858			50 02 604	142 02 572	GPS				D		Phil's Loop D	
8	En Rout	Loop	0955			49 55 700	141 53 400	GPS				E		Phil's Loop E	
8	EN ROUTE	Loop	1100			49° 47 405	141° 42 048	GPS				F		PHIL'S Loop F	
8	EN ROUTE	Loop	1159			49° 40 111	141° 31 949	GPS				G		PHIL'S Loop G	
8	EN ROUTE	Loop	1300			49° 32 734	141° 21 971	GPS				G1		PHIL'S Loop G1	
8	EN ROUTE	Loop	1400			49° 25 386	141 12 043	GPS				G2		PHIL'S Loop G2	
8	EN ROUTE	Loop	1500			49° 29.506	141° 00.851	GPS				H		Phil's loop H.	
8	EN ROUTE	Loop	1604			49° 37.225	140° 47.080	GPS				I		Phil's loop I	

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

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE					PAGE		OF	
1995		Sept.												
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
8	EN ROUTE	Loop	1701			49° 44.120	140° 36.335	GPS				J		Phil's loop 'J'
8	EN ROUTE	Loop	1802			49° 51.438	140° 24.176	GPS				K		Phil's loop 'K'
8	EN ROUTE	Loop	1900			49° 58.728	140° 12.090	GPS				L		Phil's loop 'L'
8	en Route	Loop	2001			49° 53.760	140° 01.427	GPS				A		Phil's loop A
8	en Route	Loop	2105			49° 45.787	139° 50.387	GPS				B		Phil's loop B
8	en Route	Loop	2202			49° 38.603	139° 40.881	GPS				C		Phil Loop C
8	EN ROUTE	Loop	2300			49° 31.281	139° 30.764	GPS				D		PHILOOP 'D'
8/9	EN ROUTE	Loop	2400			49° 23.814	139° 20.600	GPS				E		PHILOOP 'E'
9	EN ROUTE	Loop	0100			49° 16.246	139° 10.359	GPS				F		PHILOOP 'F'
9	EN ROUTE	Loop	0200			49° 22.107	138° 59.646	GPS				G		PHILOOP 'G'
9	EN ROUTE	Loop	0300			49° 28.656	138° 48.727	GPS				H		PHILOOP 'H'
9	EN ROUTE	Loop	0400			49° 35.651	138° 37.401	GPS				I		PHILS I
9	EN ROUTE	Loop	0500			49° 42.675	138° 25.605	GPS				J		Phil's J
9	EN ROUTE	Loop	0600			49° 49.800	138° 13.709	GPS				K		Phil's K
9	EN ROUTE	Loop	0700			49° 46.702	138° 02.766	GPS				A		Phil's A
9	EN ROUTE	Loop	0800			49° 39.971	137° 53.400	GPS				B		
9	EN ROUTE		0856			49° 33.303	137° 44.500	GPS				C		
9	NR19	ROS	0950	BE	142	49° 30.05	137° 39.97	GPS						

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

POSITION CODE - RAD - RADAR
LOR - GLOBAL LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		Sept				95-12								
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
9	MP19	Rosette	0952	BO	142	49 30 12	137 39 94	GPS						
9	MP19	Rosette	0953	BE	143/44	49 30 09	137 39 92			100	187-192	6		Computer lockup 2 consec th
9	MP19	Rosette	1011	EN	144	49 29 84	137 39 86							end of upcast
9	MP19		1013			49 29.57	137 39.92	GPS		Also 2 10L samples loop		D		Photo later, during with Rosette
	T1	Rosette												
9	EN ROUTE	Loop	1103			49 22 403	137 41 395	GPS				E		PHILOOP E
9	EN ROUTE	Loop	1200			49° 14 186	137° 43 248	GPS				L		PHILOOP L
9	TRANS 1	ROS	1237	BE	145	49° 10 06	137° 44 11	GPS						Downcast / 10L Loops
↓	↓	ROS	1240	BO	145	49° 10 07	137 44 15	GPS						To 200m
↓	↓	ROS	1241	BE	146	49 10 07	137 44 15	GPS		100.	193-198	6		UPCAST
9	TRANS 1	ROS	1250	EN	146	49 10 09	137 44 40	GPS						on deck
9	EN ROUTE	Loop	1256			49 10 110N	137 44.499	GPS				7		PHILOOP 7
9	EN ROUTE	Loop	1400			49° 08 747	137° 28 694	GPS				8		PHILOOP 8
9	EN ROUTE	Loop	1500			49 07 472	137 13 123	GPS				F		PHILOOP F 10L 3
9	EN ROUTE	Loop	1617			49 05 966	136 54 986	GPS				G		PHILOOP G 10L 3
9	EN ROUTE	Loop	1702			49 05 105	136 43 881	GPS				H		PHILOOP H
9	TRANS 2	ROS	1714	BE	147	49° 05.09	136° 43.175	GPS						Downcast
9	TRANS 2	ROS	1720	BO	147	49° 05.077	136° 43.161							End of downcast

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

YEAR			MONTH			SHIP				CRUISE				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	
9	TR 2	Ros.	1720	BE	148	49° 05.85	136° 43.157	GPS	3782	200	199-204	9		3 extra samples	
9	TR 2	Ros	1747	EN	148	49° 06.90	136° 42.98	GPS	3782					for fill.	
9	TR 2	loop	1740	10L	loops	49° 06.855	136° 43.173	GPS		loop				② 10L loop #4, #4	
9	enroute	loop	1859		loop	49° 20.359	136° 40.808	GPS		loop		I		Photo loop I	
9	MP18	Ros	1947	BE	149	49° 26.28	136° 39.64	GPS		200				Large % signal 86-80	
9	MP18	Ros	1953	BO	149	49° 26.38	136° 39.48	GPS						at 4.0 m.	
9	MP18	Ros	1954	BE	150	49° 26.39	136° 39.46	GPS			205-210	6			
9	MP18	Ros	2007	EN	150	49° 26.57	136° 39.33	GPS							
9	enroute	loop	2103		loop	49° 35.79	136° 37.89	GPS		loop		J		Photo loop J	
9	Trans3	Ros	2201	BE	151	49 44.97	136 35.83	GPS							
9	Trans3	Ros	2206	BO	151	49 45.00	136 35.81	GPS							
9	Trans3	Ros	2206	BE	152	49 45.00	136 35.81	GPS			211-216	7			
9	Trans3	Ros	2220	EN	152	49 45.01	136 35.66	GPS							
1	Trans3	loop	2200			49° 44.967	136 35.864	GPS		loop		A		Photo loop A	
9	EN ROUTE	Loop	2302			49° 44.805	136 32.761	GPS				B		PHILoop B	
1/10	EN ROUTE	Loop	0000			49° 43.867	136° 18.362	GPS				C		PHILoop C	
10	EN ROUTE	Loop	0100			49° 42.850	136° 03.226	GPS				D		PHILoop 'D'	

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POSITION CODE - RAD - RADAR
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LOR - LORAN

NOTE from Bridge

P18 Ntk CURRENT AT SURFACE $\approx$ 1.5 KNOTS
(25 cm s⁻¹ ON DOPPLER AT SURFACE)
- SKR P16 - NOTK ON HORIZONTAL
160

On Trans 4 - the transmissivity signal continued to decrease, going off scale.
Phil Boyd took samples from 33 m to look at under microscope

Trans 9 - Bombed on final alt 5 (at surface)

0-200 m. profile in 173 is fine

174 acq. has 197000 hits

174 CMT & Hd are empty

When samples taken there was very little ship motion and
sample depths were right on. So it was decided by
Watch Commander (Ron B) that it was OK.

DAILY LOG

OCEAN PHYSICS

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		Sept				95-12								
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
10	en Route	Loop	0200			49° 41.777	135° 47.571	GPS				E		PHILoop 'E'
10	TRAN 4	ROS	0247	BE	153	49° 40.94	135° 35.90	GPS	3644	200		7		DOWNCAST
10	TRAN 4	ROS	0250	EN	153	49° 40.93	135° 35.83	GPS						
10	en Route	Loop	0315			49° 40.717	135° 34.812	GPS		loop		F		PHILoop 'F'
10	Trans 4	ROS	0251	BE	154	49 40.93	135° 35.82	GPS		100	217-218	2		200 → 77 m Sample @ 100, 75 & bombed.
10	Trans 4	ROS	0256	BE	156	49 40.88	135° 35.49	GPS						bombed on start up
10	Trans 4	ROS	0257	BE	157	49° 40.93	135° 35.44	GPS			219-222	5		76 → 0 m Samples @ 50, 34, 25, 10, 2
10	Trans 4	ROS	0331	EN	157	49 38.64	135 35.81	GPS						
10	en route	loop	0400			49 35.118	135 37.160	GPS		loop		G		Phil's loop 'G'
10	en route	loop	0459			49 27.403	135 38.652	GPS		loop		H		Phil's loop 'H'
10	MP17	ROS	0554	BE	158	49° 21.034	135° 39.948	GPS						downcast
10	MP17	ROS	0600	Bo	158	49 21.02	135 39.78	GPS	3604	200				disregard trip - not re
10	MP17	ROS	0602	BE	159	49° 21.048	135° 39.683	GPS		100	223-228	7		upcast / Samples
10	MP17	ROS	0617	EN	159	49° 20.95	135° 39.28	GPS						
10	MP17	loop	0620	loop	—	49° 20.50	135 39.309	GPS		loop				②-10-e #13 @ 26 m #13 and I Phil's I and ②-10-e bo
10	in route	loop	0701	loop	—	49° 15.165	135° 40.877	GPS		loop		'J'		Phil's J
			0820	Loop		49 03.246	135 42.592	GPS		Loop		G1		Phil's Loop + G1

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ctd
mooring

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net haul
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BE -
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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

Julian 253

48.958 134.698

48 57.48 134 41.88



95-12														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
10	Trans 5	Ros	0853	BE	160	48	59.90	135 42.95	GPS						Phil Bio #14
10	Trans 5	Ros	0859	BO	160	48	59.80	135 42.92	GPS		200				
10	Trans 5	Ros	0859	BE	161	48	59.80	135 42.92	GPS		100	229-234	7		10 meter NISKIN Bottom
10	Trans 5	Ros	0910	EN	161	48	59.62	135 43.09	GPS						did not close.
10	Enroute	Loop	1057			48	59.37	135 34.43	GPS		loop		2		No Sample 233
10	ENROUTE	Loop	1200			48°	57 54Z	135° 06 055	GPS				3		Phil Loop
10	ENROUTE	Loop	1300			48°	56.607	134° 52 008	GPS				4		PHILoop '3'
10	TRANS 6	ROS	1346	BC	162	48°	55 77	134° 42 20	GPS						PHILoop '4'
10	↓	Ros	1350	BO	162	48°	55 72	134° 42 17	↓						DOWNCAST / LOOPS
10	↓	Ros	1350	BC	163	48°	55 72	134° 42 17	↓			235-240	7		UPCAST
10	TRANS 6	Ros	1422	GM	163	49°	(57 60 ?)	134° (41 91 ?)	GPS		For GOT	LAST ALT S			on DECK
10	EN ROUTE	Loop	1403			48°	55 307	134° 41 984	GPS				5		PHILoop "5"
10	ENROUTE	Loop	1500			49°	04 233	134° 41 221	GPS				A		PHILoop 'A'
10	EN ROUTE	Loop	1559			49°	14.290	134° 40.232	GPS		loop		B		phil 'B'
10	MP 16	Ros	1623	BE	164	49°	16.904	134° 40.286	GPS		200				
10	MP 16	Ros	1629	BO	164	49°	16.84	134° 40.43	GPS						
10	MP 16	Ros	1629	BE	165	49°	16.880	134° 40.466	GPS						
10	MP 16	Ros	1642	EN	165	49°	16.85	134° 40.81	GPS		100	241-246	7		
										+loops					(2)-10e loops

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

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		1995			MONTH		SHIP			CRUISE					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				
10	MP16	loop	1628		loop	49° 16.873	134° 40.446	GPS				C		phil's 'C' <u>LAST ONE</u>				
10	TRAN 7	ROS	1850	BE	166	49° 36.126	134° 34.563	GPS	3111 ↑	200				take Phil's Biomass				
10	Trans 7	ROS	1855	BO	166	49° 36.145	134° 34.556	GPS										
10	Trans 7	ROS	1856	BE	167	49° 36.146	134° 34.563	GPS		100	247-252	7		upcast				
10	Trans 7	ROS	1907	EN	167	49° 36.04	134 34.41	GPS										
10	Trans 7	loops			②-10L			GPS.						② 10L round square				
10	TRAN 9	Loops	2302			49 31 770	133 35 945	GPS						2 x 10L for 70 d D.T.				
10	TRANS 9	ROS	2308	BE	168	49° 31 67	133° 35 71	GPS		200				DOWNCAST				
10	TRANS 9	ROS	2311	BO	168	49° 31 59	133° 35 70	↓						PHIL'S SAMPLE @ 50m = A				
10	TRANS 9	ROS	2312	BE	169	49° 31 59	133° 35 70	↓		100	253-258	7		UPCAST				
10	TRANS 9	ROS	2320	EN	169	49° 31 70	133° 35 53	GPS						ON DECK				
11	P15	ROS	0135	BE	170	49° 11 89	133° 40 05	GPS						DOWNCAST				
11	P15	ROS	0138	BO	170	49° 11 81	133° 39 94	↓										
11	P15	ROS	0138	BE	171	49° 11 81	133° 39 94	↓		100	259-264	7		UPCAST				
11	P15	ROS	0148	EN	172	49° 11 63	133° 39 90	GPS		CRASHED ON WAY UP				ON DECK				
11	TRANS 9	ROS	0404	BE	173	48° 52.067	133° 44.154	GPS	1915					downcast				
11	TRANS 9	ROS	0409	BO.	173	48° 52.121	133° 44.168	GPS										

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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		SEPT		TULLY		95-12								
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	TRANS 9	ROS	0410	BE	174	48° 52.114	133° 44.173	GPS		100	265-270	6		upcast / samples
11	TRANS 9	ROS	0423	EN	174	48° 52.107	133° 44.223	GPS						computer bombed on last alt 5 -
11	TRANS 9	ROS	0415		Loop	48° 52.034	133° 44.156	GPS						② - 102 loops ^{2/2} ✓
11	TRANS 10	ROS	0800	BE	175	48 46 92	132 44 02	GPS						
11	TRANS 10	ROS	0830	BO	175	48 46 92	132 43 95	GPS		200				
11	TRANS 10	ROS	0859	BE	176	48 46 88	132 43 95	GPS		100	271-276	6		upcast
11	TRANS 10	ROS	0905	EN	176	48 46 82	132 43 95	GPS						
11	TRANS 10	Loop	0851		loop	48 45 92	132 43 95	GPS						2 - 102 loop
11	MP 14	ROS	1120	BE	177	49 07 23	132 40 17	GPS						
↓	↓	↓	1124	BO	177	49 07 23	132 40 03	↓						DOWN CAST
↓	↓	↓	1124	BE	170	49 07 22	132 40 03	↓		100	277-282	6		LOOPS 2x 102
11	MP 14	ROS	1134	EN	178	49 06 94	132 39 92	GPS						UP CAST / ON DECK
11	TRANS 11	ROS	1348	BE	179	49 26 96	132 35 98	GPS						DOWNCAST
11	TRANS 11	ROS	1352	BO	179	49 26 86	132 36 01	↓						2x 102 loops
11	TRANS 11	ROS	1352	BE	180	49 26 86	132 36 01	↓		100	283-288	6		UPCAST
11	TRANS 11	ROS	1359	EN	180	49 26 81	132 36 01	GPS						ON DECK
11	TRANS 12	ROS	1803	BE	181	49° 22.483	131° 36.019	GPS	3175					
11	TRANS 12	ROS	1808	BO	181	49° 22.459	131° 35.974	GPS		200				

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		SEPT.		Tully		95-12								
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	TRAN 12	ROS	1809	BE	182	49° 22.460	131° 35.947	GPS	3175	200	289-294	6		
11	TRAN 12	ROS	1818	EN	182	49° 22.33	131° 35.68	GPS						
11	TRAN 12	loop	1805		Loop	49° 22.468	131° 36.000	GPS		loops	#5	5/5		② 10 l loops
11	MP 13	ROS	2039	BE	183	49 2.57	131° 40.06	GPS						
11	MP 13	ROS	2043	BO	183	49° 2.52	131° 40.08	GPS		200				
11	MP 13	ROS	2043	BE	184	49° 2.52	131° 40.08	GPS		100.	295-300	6		3 system masked station
11	MP 13	ROS	2055	EN	187	49° 2.46	131° 40.02	GPS						
11	MP 13	loop								loops				
11	TRANS 13	ROS	2312	BE	188	48° 42 67	131 44 15	GPS						DOWN CAST
11	↓	ROS	2315	BO	189	48 42 62	131 44 19	GPS						1 x 10 l Loop
11	↓	ROS	2315	EC	189	48 42 62	131 44 18	GPS		100.	301-306	6		UPCAST
11	TRANS 13	ROS	2323	EN	189	48 42 48	131 44 34	GPS						ON DECK
12	TRANS 14	ROS	0329	BE	190	48 38 17	130 43 70	GPS						Down cast Roulette
12	TRANS 14	ROS	0335	BO/BE	190/191	48 38 06	130 43 64	GPS		100.	307-312	7		Bottom Start of upcast
12	TRANS 14	ROS	0346	EN	191	48 37 89	130 43 68	GPS						
12	MP 12	ROS	0557	BE	192	48 58 219	130 40 026	GPS						
12	MP 12	ROS	0613	BO/BE	192/193	48 58 28	130 39 94			100	313-318	6.		oxygen taken
12	MP 12	ROS	0622	EN	194	48 58 29	130 39 86							

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