

CRUISE
NUMBER

9505

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

9 - 25 May, 1995

VESSEL

J.P. Tully

PROJECT

Captain: Coombs

First Officer: LEN JENSEN

95-05

Second Officer: BOB AUSTON

Third Officer: PADDY MURPHY

Cruise Participants / Agencies: John P. Tully Crew

Scientific Personnel: Party Chief: Frank Whitney

Watch

Cabin

Name

Watch

Cabin

Frank Whitney

A

S Thornton

E

Tim Sauter

4-8

Kate Road

E

Rag Bigham

12-4

Bernard Minkley

8-12

F

John Love

12-4

5

Stuart Brock

8-12

G

Hugh McLean

4-8

B

Philip Boyd

C

John Barges

H

Wendy Richardson

D

Second leg of cruise: Party Chief:

Name

Watch Cabin

Name

Watch

Cabin

Data logging system: Unit no.:

Program Name:

Program version: 1.38

CTD deck unit make: Guideline

model: 87108

serial no.:

Computer make: DEL 450DE

model:

serial no.:

1st CTD make: Guideline

model:

serial no.:

Temperature sensor

model: 8515

serial no.: 59 901

coefficients: slope:

offset:

Conductivity sensor

model:

serial no.:

coefficients: slope:

offset:

Pressure sensor range:

psi

serial no.:

coefficients: FSP:

dB

offset:

Transmissometer

model: Sea Tech

serial no.: 198 D

coefficients: slope:

offset:

Comments:

2nd CTD make: Guildline model: _____ serial no.: 58483
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: _____	model: <u>329</u>	serial no.: <u>1483</u>	use: <u>Ros/CTD</u>
2. make: _____	model: <u>329</u>	serial no.: <u>1482</u>	use: <u>Ros/CTD</u>
3. make: _____	model: <u>420</u>	serial no.: <u>1432</u>	use: <u>hydro</u>
4. make: <u>electric</u>	model: <u>455</u>	serial no.: <u>1451</u>	use: <u>mooring</u>
5. make: <u>hydraulic</u>	model: <u>320</u>	serial no.: <u>1207</u>	use: <u>mooring</u>
6. make: _____	model: _____	serial no.: _____	use: _____
7. make: _____	model: _____	serial no.: _____	use: _____

Salinometer: make: Guildline model: 8410 serial no.: _____

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: flurometer 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: UTC bin length (2x): _____

Sampling interval: 600 sec pulse length: _____

Blank beyond transmit: _____ pings per ensemble: _____

Pulse cycle time: _____

% pings good threshold: _____

Comments: Winch #1 (blue color) developed hydraulic in motor, hydraulic
brake assembly exchanged with pinch #2 to try and remove severe
jamming when wire let out.

9 May

14:50 Depart IOS jetty

ADCP vent valve checked, it was open to allow air bubbles to escape

Wed 10 May

10:30 phone call from Tom. A1 mowing has been recovered, including train wheels.

DAILY LOG

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		May				9505								
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	SI 3	ROS	2232	BE	1	48 35 44.7	123 30 03.9	GPS	226		1		g	
	"	"	2235	BO		48 35 37	123 30 14	GPS						
9	SI 3	"	2257	EN	2	48 35 24	123 30 36	GPS			1-16	16		upcast 16 bottles trapped
9	SI Lines	ADCP	2340	BE	—	48 39.19	123 32.13	"	—	—	—	—	2W	ADCP lines across SAANICH
10	"	"	0231	BE	—	48 40.63	123 31.60 N	"	—	—	—	—	2W	"
10	Geo 1545	ROS	1411	BE	3	49 15.07	123 45.00	"	401					ROSSETTE FOR ACC ETC.
10	"	"	1421	BO	3	49 15.02	123 44.97	"		390		6		DO N samples only
10			1434	EN	3	49 15.12	123 44.96	"						no salinity, turbidity left on cell.
10	GS1	MOR	1558	DE	—	49 15.023 _N	123 45.022 _W	"	401					Baker TRAP DEPLOYED
10	CRDS-H	MOR	2216	DE	—	48 23 750	123 20 894	GPS	70.4					Moving CRDS-H.
10	JF01		2310			48 16.00	123 30.00	"			L1			LOOP SAMPLES TAKEN
11	JF02	USW	0100			48 18.00	124 00 00	"			L2			Loop SAMPLES
11	JF03	USW	0253	BE	—	48 27 02	124 30.25		228.		L3			Loop SAMPLES
	JF04	USW	0459	EN	—	48 32.31	125 00.15		63.6		L4			
11	MP01	CTD	0704	BE	4	48 34 38	125 29 76	11.43	136	132	L5			Loop Samples
	MP01		0714	EN	4	48 34 35.6	125 29 48.5							
11	MP02	CTD	0928	BE	5	48 36.13	125 59.97	10.875	116	112.	L6			Loop Samples
	MP02	CTD	0933	EN	5	48 36.17	126 00.06							

CAST TYPE -

BOT -

bottle cast

ROS -

rosette

USW -

sea water loop

TIME CODE -

BE -

beginning time of cast

DE -

end time of cast

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

MP 04

Rosette cast #7. 16 samples.

Go-FLO cast to 10 m

MP 06 2 Go-FLO CASTS TO 10 m

DAILY LOG

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1995		MAY				TULLY				9505							
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	MP03	CTD	11:13	BE	6	48° 37.334	126° 19.681	10.54	801					CTD ONLY			
11	MP03	CTD	11:29	BO	6	48° 37.154	126° 19.528	GPS	735	721				≈ 15m OFF BOTTOM			
11	MP03	CTD	11:40	EN	6	48° 37.168	126° 19.294	GPS						ON DECK			
11	MP03	Loop	11:50	Loop		48 37.150	126° 19.405	GPS			L7			LOOP SAMPLES			
11	MP04	ROS	1336	BE	7	48° 38.88	126° 40.16	10.90	1324					ROSSETTE CAST			
11	MP04	Loops	1344	Loop		48 38.86	126° 40.12	GPS			L8			LOOPS TAKEN			
11	MP04	ROS	1403	BO	7	48° 38.74	126° 40.29		1332	1315	17-32	16		AT BOTTOM			
	MP04	ROS	1539	EN	7	48 38.96	126 40.81										
11	MP04	MoR	1943			48 38.666	126 35.725	GPS	1226					Mooring			
11	MP05	CTD	2320	BE	8	48° 41.507	127° 09.890	11.12	2089					CTD ONLY			
11	MP05	Loop	2327	Loop		48° 41.521	127° 09.875	GPS			L9			LOOP SAMPLES			
11	MP05	CTD	2358	BO	8	48° 41.558	127° 09.783	GPS	2080	2051				AT BOTTOM			
11	MP05	CTD	2358	BE	9	48° 41.564	127° 09.770	GPS						START UP			
12	MP05	CTD	0025	EN	9	48° 41.668	127° 09.980	GPS						ON DECK			
12	MP06	CTD	0251	BE	10	48° 44.40	127° 40.22	11.01	2550					CTD ONLY			
12	MP06	Loop	0256	Loop		48° 44.39	127° 40.28	GPS			L10			LOOP SAMPLE			
12	MP06	CTD	0325	BO	10/11	48 44.12	127 40.45			2540							
12	MP06	CTD	0359	EN	11	48 43.79	127 40.34										

CAST TYPE - BOT - bottle cast ROS - rosette USW - sea water loop TIME CODE - BE - beginning of event

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

ROS - rosette
 NET - net haul
 DRF - drifter

USW - sea water loop

TIME CODE -

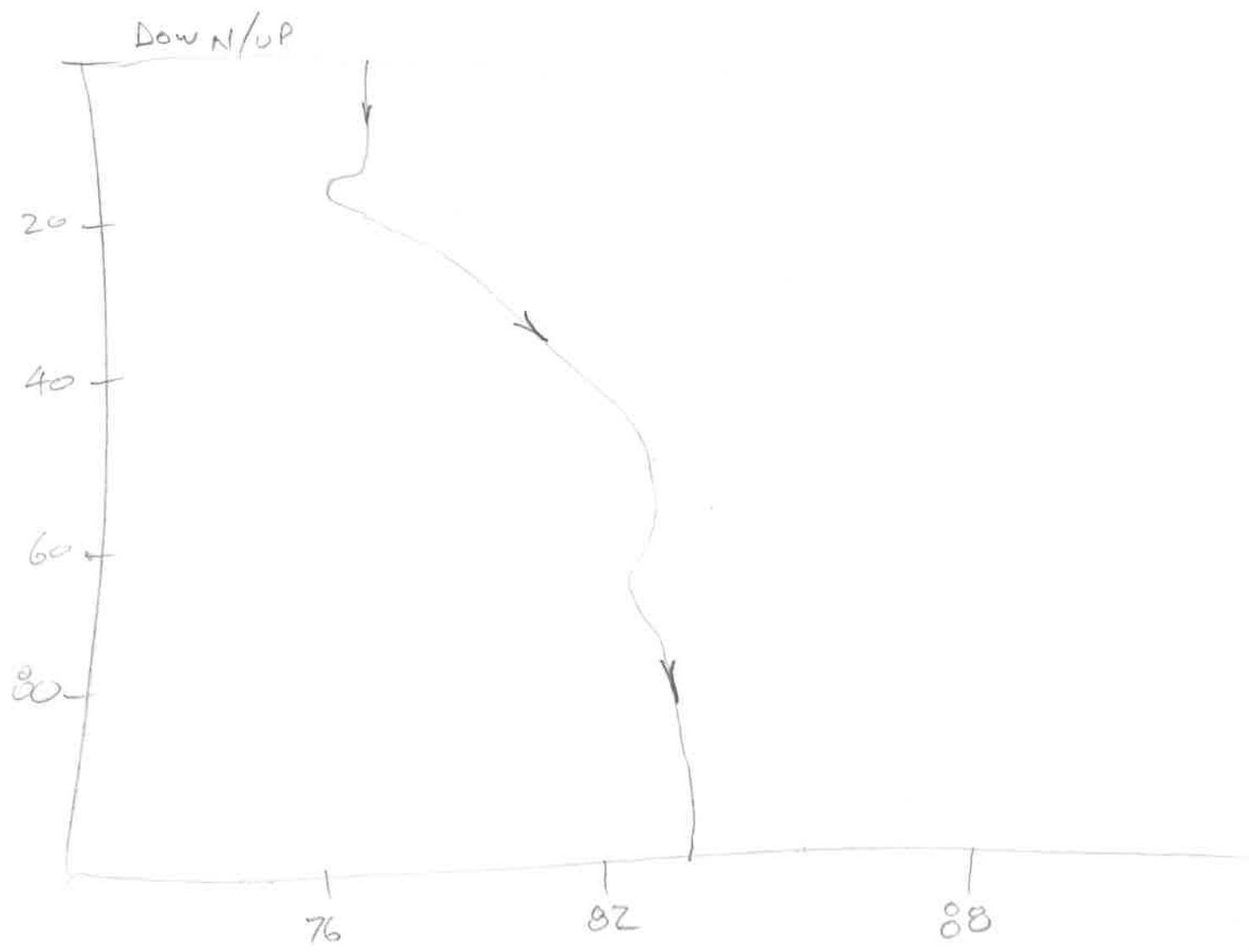
BE - beginning time of cast
 BO - bottom time of cast
 EN - end of cast

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

POSITION CODE -

RAD - RADAR
 GPS - GLOBAL
 LOR - LORAN

PF % TRANSMISSION TRACE



DAILY LOG

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DAILY LOG						OCEAN PHYSICS				WINDSPEED DIRECTION				PAGE	OF		
YEAR		MONTH				SHIP				CRUISE							
1995		May								9505							
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	MP07	CTD	0605	BE	12	48 46.45	128 10.38	10.62	2513								
12		USW	0600	BE		48 46.45	128 10.38			2500:							
12		CTD	0636	BO	12/13	48 46.41	128 10.84										
12	MP07	CTD	0705	EN	13	48 46.20	128 10.94										
12	MP08	USW	0916	BE		48 48.94	128 39.767										
12	MP08	CTD	0921	BE	14	48 48.94	128 39.80	10.61									
12	MP08	CTD	1004	BO	14/15	48 48.74	128 40.806		2522	2502							
12	MP08	CTD	1036	EN		48 48.47	128 41.55										
12	MP09	CTD	1259	BE	16	48° 51.389	129° 09.851	10.57	2348						CTD ONLY		
12	MP09	Loop	1307	Loop		48° 51.432	129° 09.977								Loop SAMPLES		
12	MP09	CTD	1331	BO	16/17	48° 51.48	129° 10.27		2358	2341					AT BOTTOM		
12	MP09	CTD	1400	EN	17	48° 51.735	129° 10.56								ON DECK		
12	MP10	USW							2645								
12	MP10	CTD	1622	BE	18	48 53.62	129 40.89	10.26									
12	MP10	CTD	1704	BO	18/19	48 53.93	129 42.06		2698	2672							
12	MP10	CTD	1740	EN	19	48 54.20	129 43.09										
12	MP11	CTD	1951	BE	20	48 56.28	130 10.35	10.42	2756								
			2041	BO		48 57.11	130 11.05										
POSITION CODE - RAD - RADAR																	

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

DAILY LOG

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		MAY		JOHN P TULLY		9505								
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	MP11	CTD	2117	EN	21	48 57.66	130 11.54		2755	2750				
12	MP11	USW	1950	BE	—	48 56.28	130 10.33							Loops
12	MP12	MOR	2344	DE	—	48 57.84N	130 35.68W		3240					SINGLE SED. TRAP, 500 m off bottom
13	MP 12	ROS	0014	BE	22	48° 58.26	130° 39.82	9.90	3243					ROSSETTE
13	MP 12	Loop	0020	Loop	—	48° 58.261	130° 39.715							Loop samples
13	MP 12	ROS	0117	BO	22/23	48° 58.14	130° 38.94		3290	3274	33-55	23		BOTTOM
13	MP 12	ROS	0234	EN	23	48° 57.66N	130° 39.50 W							ON DECK
13	MP 12	CTD	0250	BE	24	48° 58.275	130° 39.53	10.06	3290					CTD # 58483
13	MP 12	CTD	0311	BO	24/25	48° 57.99	130° 39.921			1500				AT BOTTOM
13	MP 12	CTD	0327	EN	25	48° 57.72	130° 40.26							ON DECK
13	MP13	CTD	0942	BE	26	49 02 55	131 40.00	9.46						CTD ONLY + LOOPS
13	MP13	CTD	1038	BO	26/27	49 01.689	131 41.56		3024	3002.				
13	MP13	CTD	1115	EN	27	49° 01.18	131° 42.50							ON DECK
13	MP13	USW	0940	BE		49 02 576	131 39 990							Sal chl Nut.
13	MP14	CTD	1555	BE	28	49 07.39	132 39.88	9.01	3324					
13	MP14	USW	1602			49 07.33	132 39.91		3324					
13	MP14	CTD	1632	BO	28/29	49 07.39	132 39.88			3000.				
13	MP14	CTD	1707	EN	29	49 07.19	132 40.54							

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
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MR - messenger release
RE - recover mooring

POSITION CODE -

RAD - RADAR
GPS - GLOBAL
LOR - LORAN

13 May

20:30 run MP16
60-FL0 cuts

winch hydraulic brake needs adjustment, unable to hold Rosette in stop position, 3600m
wire out.

2312 depart station

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13	MP15	CTD	2128	BE	30	49 11 90	133 39 83	8.94						
13	MP15	CTD	2218	Bo	31	49 11 735	133 40 348	8.95	3417	3002				
13	MP15	USW	2220	Bo		49 11 765	133 40 320	8.95	3417					SAL NOT CML
13	MP15	CTD	2248	EN	31	49 11 72	133 40 40							
14	MP16	ROS	0352	BE	32	49 16 89	134 40 32	8.55	3632					
14	MP16	USW	0428			49 16.77	134 40.67							
14	MP16	ROS	0438	BO	32/33	49 16.72	134 40.71			3679	56-78	23		
14	MP16	ROS	0555	EN	33	49 16.62	134 41.43	8.55						
14	MP17	CTD	1011	BE	34	49 20 808	135 39 861	8.87	3529	3000				
14	MP17	USW	1006	BE		49 20 829	135 39 831							Loops SAL NOT CML
14	MP17	CTD	1056	Bo	35	49 20 380	135 40 270							
14	MP17	CTD	1127	EN	35	49° 20.103	135° 40.039	8.87						ON DECK
14	MP18	CTD	1551	BE	36	49 25.95	136 40.23	8.52	3826					
14	MP18	USW	1558	EN		49 25.98	136 40.25							
14	MP18	CTD	1629	BO	36/37	49 25.90	136 40.41		3002					
14	MP18	CTD	1703	EN	37	49 25.86	136 40.46							
14	MP19	CTD	2111	BE	38	49 30 002	137 39 956	8.40	3918	3000				
14	MP19	USW	2113	BE		48 30 012	137 39 999							Loops SAL NOT CML

CAST TYPE -	BOT -	bottle cast	ROS -	rosette	USW -	sea water loop	TIME CODE -	BE -	beginning time of cast	DE -	depth of event
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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
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1995		MAY		TJ 22		9505								
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
14	MP19	CTD	2200	Bo	39	49 30 18.2	137 41 58.8		3918	3000				UPCAST
14	MP19	CTD	2232	EN	39	49° 30.29	137° 43.12							ON DECK
15	MP20	ROS	0233	BE	40	49° 34.054	138° 40.25	8.24	3953					START CAST
15	MP20	USW	0239			49 34.02	138 40.35							
15	MP20	ROS	0328	Bo	40/41	49 34.07	138 40.37			4013	79-101	23		
15	MP20	ROS	0444	EN	41	49 33.89	138 40.27							Loops
15	MP21	CTD	0919	BE	42	49 37 837	139 39 774	8.57	3952	3000				
15	MP21	USW	0918			49 37 856	139 39 740							Loops NOT SAL CHL
15	MP21	CTD	1002	Bo	42/43	49 37 209	139 40 677							
15	MP21	CTD	1037	EN	43	49 36 582	139 40 477							UPCAST
15	MP22	CTD	1435	BE	44	49° 42.06	140° 39.77	7.66	3877					
15	MP22	USW	1515	BE		49 41.93	140 39.83							Loops NOT SAL CHL OIB
15	MP22	CTD	1514	Bo	44/45	49 41.92	140 39.85		3890					
15	MP22	CTD	1547	EN	45	49 42.04	140 40.12							
15	MP23	ROS	2122	BE	46	49 46.10	141 40.16	7.82	4057					
15	MP23	ROS	2212	Bo	46/47	49 46 134	141 40.211			3818	102-124			UPCAST
15	MP23	ROS	2341	EN	47	49° 45.92	141° 40.40							ON DECK
15	MP23	USW	2220	Bo	47	49 46 115	141 40 163							Loops SAL CHL NOT

CAST TYPE -
CTD -
MOR -

BOT -
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
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CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
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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

May 15

12:42

processed cast #40 to get sound velocity profile. Entered new profile into
Simrad Sounder

16/5/95

05126 UTC SAIL fluorometer removed and exchanged

1751 UTC RAM down, sounds switched over to RAM.

16/MAY

2035 UTC Cleaned cell w/Deck CTD with 10% Hcl.

2030 UTC Began recovery of sed. trap mooring at 50 00 N 145 07 W.

(1330 PDT) All samples lost from 1200m trap. Bottles all snapped off at neck (not Nalgene bottles).

1000m - All samples recovered (21 bottles).

1500 PDT 3800m trap, floatation + release lost when line pulled into propeller. Debris at surface.

Cast #55 One bottle not tripped

MAY 17 During Prad duster recovery about 6 porpoises played around the Zodiac. In the past day at P26, porpoises (white patch on side) + fur seals have been seen frequently.

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16	MP24	CTD	0429	BE	48	49 50.20	142 40.15	7.62	3990					
16	MP24	USW	0436	EN		49 50.24	142 40.11							
16	MP24	CTD	0506	BO	48/49	49 50.39	142 39.84			3000.				
16	MP24	CTD	0541	EN	49	49 50.20	142 39.75							
16	MP25	CTD		BE		DID NOT STOP ON STATION					DUE	P26	at	06:00
16	MP26	MOR	1609	DE	—	49 59.73	144 45.28	6.63	4210	1000m	—	9 traps 3W	FDA	CH 72+74
16	MP26	ROS	2331	BE	50	50 00 173	144 58 976	6.63	4255	2000				cell cleaned 10% HCL
17	MP26	ROS	0003	BO	50/51	50 00 247	144 59 465				125-147	22		
17	MP26	USW	00:08	WJ		50 00 271	144 59 509							Loops SAZ NOT CRL 018
17	MP26	ROS	00:57	EN	51	50 00 092	145 00 111							did not trap Bottle 19 was bypassed
17	"					49 58.892	145 00.439							PROP. DRIFTER CH 68 DEPLOY
17	MP26	ROS	1543	BE	52	49 59.88	145 00.23	6.57	4253.		148-159			POC cast.
17	MP26	ROS	1609	BO	52/53	50 00.057	145 00.207			1500				AT 1500m
17	MP26	ROS	1649	EN	53	50 00.39	145 00.51							
			1732			50 05.38	145 00.12							start sounding line
17	"		2120	RE		49 57.999	144 58.794							PROP DRIFTER RECOVERED.
17	MP26	ROS	2251	BE	54	49 59 58	145 00 00	6.73						WINCH LEAKING OIL
17	MP26	ROS	2304	BO	54.55 56	49 59 58	145 00.18				157-178			ONLY GO TO 3000 m

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MAY 18 1230 PDT Began trap deployment near P2b. 2 traps at 1000m + 3800m nominal depths.

MAY 19 0850 PDT Alongside Free Drifting Sediment Trap Array (FDS7AR). 30 kt wind.
0900 Released messenger on FDA (acoustic release).

MAY 19 PDT
13:20 Top section of mooring onboard 50 03 461 144 40 057
13:30 Drifter on deck 50 03 527 144 39 889.

MAY 20 18:30 UTC SAIL fluorometer plug had broken range wire. Unit repaired but requires proper wire harness.

1400 PDT (2000 UTC) Began trap deployment ~5mi W of P20.
1440 " Finished deploying a single trap ~500m off bottom.

MAY 21 0800 - 0900 PDT Single trap deployed near MP16.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CTD/MP		CRUISE		PAGE		OF		
1995		May						9505						
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	MP26	ROS	0022	EN	56	49° 59' 50	144° 59' 83		4255	3000				UPCAST
18	MP26	CTD	0045	BE	57	49° 59' 779	144° 59' 708	6.73		3000				CTD 58483
18	MP26	CTD	0126	BO	57/58	49° 59' 750	144° 59' 686		4254					5% went caps @ 1000-1200m
18	MP26	CTD	0154	EN	58	49° 59' 65	144° 59' 65							
18	MP26	MOR	2110	DE	—	49° 59' 915	145° 07' 604		4256	—	—			Mooring deploy.
19	MP26	MOR	2020	RE	—	50° 03' 461	142° 40' 057		4185	1000m				FD★ recovery (drifting traps)
20	MP20	MOR	2140	DE	—	49° 34' 849	138° 47' 075		3958	~3460	—	—		SED TRAP DEPLOY.
21	MP16	MOR	1607	DE	—	49° 17' 010	134° 32' 248		3660	~3160	—	—		SED TRAP DEPLOYED.
22	MP13	ROS	0530	BE	59	49° 02' 85	131° 40' 21	10.49	3006					Shallow Rosette 58483
22	MP13	ROS	0548	BO	59/60	49° 02' 97	131° 40' 51				179-188	10		
22	MP13	ROS	0621	EN	60	49° 02' 99	131° 41' 03							
22	MP12A	ROS	0849	BE	61	49° 01' 53	131° 10' 25	11.21						
22	MP12A	ROS	0854	BO	61/62	49° 01' 63	131° 10' 39							
22	MP12A	ROS	0903	EN	62	49° 01' 80	131° 10' 70				189-194	6		Upcast.
22	MP12	ROS	1128	BE	63	48° 58' 13	130° 40' 06	10.77	3009	200				START CAST
22	MP12	ROS	1134	BO	63/64	48° 58' 135	130° 40' 23			200				AT 200m
22	MP12	ROS	1144	EN	64	48° 58' 061	130° 40' 508				195-200	6		UPCAST / on deck
22	MP11	ROS	1432	BE	65	48° 56' 003	130° 10' 143	10.86	2754					data starts at 10 m

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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1995		May		STD Temp. 04.m		9505								
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
22	MP11	ROS	1438	BO	65/66	49°56.084	130°10.301		200.	200.	201-206	6		AT 200m
22	MP11	ROS	1445	EN	66	49°56.132	130°10.592							UPCAST / on Deck
22	MP10	ROS	1710	BE	67	4853.58	12940.11	10.70	2641.					
22	MP10	ROS	1715	BO	67/68	4853.54	12940.20			200.	207-212	6		
22	MP10	ROS	1723	EN	68	4853.53	12940.36							
22	MP09	ROS	2006	BE	69	4851.424	12910.065	10.983						
22	MP09	ROS	2012	BO	69/70	4851.277	12910.079				213-218	6		upcast
22	MP09	ROS	2020	EN	70	4851.155	12910.415			200				reset computer clock
22	MP08	ROS	2245	BE	71	4849.00	12840.00	11.12						
22	MP08	ROS	2248	BO	71/72	4848.98	12840.19		2518	200	219-224	6		upcast.
22	MP08	ROS	2257	EN	72	4848.857	12840.464							
23	DI09	ROS	0153	BE	73	49°06.397	129°10.022	11.17	2406					START CAST
23	DI09	ROS	0158	BO	73/74	49°06.433	129°10.165			200	225-230	6		@ 200m
23	DI09	ROS	0206	EN	74	49°06.498	129°10.331							UPCAST / on Deck
23	DI10	ROS	0445	BE	75	4923.30	12939.96		2393					
23	DI10	ROS	0450	BO	75/76	4923.18	12940.06			200	231-236	6		
23	DI10	ROS	0459	EN	76	4923.09	12940.34							

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24 May

0800 arrive Ulenahat to put up AI mooring equipment

24 May 1830 PDT Talked to "Misty Moon" about bloom which he had noticed for a couple of days.

1913-2115 Took 4 phyto samples in milky patch, $126^{\circ}12'$ to $125^{\circ}38'W$ 7W.

DAILY LOG

OCEAN PHYSICS

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1995		May		CTD, Trawl		9505								
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
23	DI 11	ROS	0803	BE	77	49 41.06	130 10.03	10.85	2401					
23	DI 11	ROS	0807	BO	77/78	49 41.102	130 10.146		2401		237-242	6		10.875
23	DI 11	ROS	0814	EN	78	49 41.07	130 10.20				237-242	6		
23	NP12	ROS	1103	BE	79	49° 58.037	130° 40.27	10.98	2420					START CAST
23	NP 12	ROS	1108	BO	79/80	49° 57.94	130° 40.40				243-248	6		@ 200 m
23	NP 12	ROS	11.18	EN	80	49° 57.92	130° 40.59							ON DECK
23	NP 11	ROS	1336	BE	81	49° 55.80	130° 01.89	10.75	2373					START CAST
23	NP 11	ROS	1341	BO	81/82	49° 55.825	130° 10.06				244-254	6		@ 200 m
23	NP 11	ROS	1349	EN	82	49° 55.835	130° 10.00							UPCAST/ON DECK
23	NP 10	ROS	1549	BE	83	49 53.73	129 40.09	10.75	2042					START CAST
23	NP 10	ROS	1553	BO	83/84	49 53.71	129 40.10				255-260	6		
23	NP 10	ROS	1602	EN	84	49 53.66	129 40.09							
23	NP 09	ROS	1823	BE	85	49 51.55	129 10.03		1822					Down cast
23	NP 09	ROS	1827	BO	85/86	49 51.57	129 09.94				261-266	6		
23	NP 09	ROS	1840	EN	86									computer lockup, no header file
23	NP 08	ROS	2058	BE	87	49 48 9 09	128 39 639	10.986	2244					
23	NP 08	ROS	2103	BO	87/88	49 48 852	128 39 694				267-272	6		
23	NP 08	ROS	2112	EN	88	49 49 075	128 39 875							

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