

CRUISE
NUMBER

9934

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

OCT 4, 1999

VESSEL

VECTOR

PROJECT

HARO STRAIT 1999

Captain: MARK SUMMERS First Officer: _____
Second Officer: _____ Third Officer: _____

Cruise Participants / Agencies:

Scientific Personnel: Party Chief: $S_{VE,nd}$ $V_{AC,LE}$

[illegible]

Second leg of cruise: Party Chief:

[illegible]

Data logging system: Unit no.: _____

Program Name: SEASAVE

Program version: 4.236

CTD deck unit make: SEA-BIRD

model: 11 Plus serial no.:

Computer make: _____ model: _____ serial no.: _____

1st CTD make: SEABIRD

model: 911 Plus

serial no: 05020878-550

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:

Comments:

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1999			MONTH OCTOBER			SHIP VECTOR			CRUISE HAW STRAIT 1999				PAGE 1 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
6/10/99	S1	single CTD	10:05		1	48 N 41.360	123 W 15.145		335	320				downcast OK BB/GK, 10:17 @ 6.50m
6/10/99	S2	"	10:45		2	48 N 40.974	123 W 15.328		340	250				BB/GK 10:50 @ 210m
6/10/99	S3	"	11:07		3	48 N 41.107	123 W 14.891		317	270				BB/GK 11:15 @ 100m
6/10/99	S4	"	11:32		4	48 N 41.268	123 W 14.617		264	280				BB/GK 11:38 @ 220m
6/10/99	S5	"	12:00		5	48 N 40.059	123 W 14.530		292	280				BB/GK 12:05 @ 280m
6/10/99	S6	"	12:50		6	48 N 40.196	123 W 14.147		291	270				BB/GK 12:55 @ 230m
6/10/99	S7	"	13:09		7	48 N 40.402	123 W 13.809		140	130				BB/GK 13:12 @ 130m
6/10/99	S8 to S10	4-way	13:49		8	48 N 39.18	123 13.74		249	150				BB/GK 13:55 @ 155m
			14:00			48 N 39.29	123 13.81							BB/GK 14:00 @ 1.9m
			14:03			48 39.36	123 13.44							BB/GK 14:03 @ 153m
			14:08			48 39.43	123 13.29							BB/GK 14:08 @ 155m
			14:12			48 39.46 W	123 13.18 W							BB/GK 14:12 @ 150m
			14:16			48 39.49	123 13.12 W							BB/GK 14:16 @ 2.8m
			14:20			48 39.54	123 13.04 W							BB/GK 14:20 @ 160
			14:24			48 39.61	123 13.04 W							BB/GK 14:24 @ surface
6/10/99	S4 to S2	4-way	15:10		9	48 41.19 N	123 14.55 W		251	150				GK 15:17 @ 155m
			15:21			48 41.14 N	123 14.83 W							15:21 @ 13.1m
			15:24			48 41.11 N	123 14.92 W							15:24 @ 155m

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		
1999			Oct			VECTON			HARD STRAIT Oct 1999			2				
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
6/10/99	S4 to S2	Towyo	15:28		9	48	41.08 N	123	15.01 W		324	150				15:31 @ 150m
			15:31			48	41.04 N	123	15.10 W							15:35 @ 2.8
			15:35			48	41.01 N	123	15.18 W							15:38 @ 155
			15:38			48	40.95	123	15.29 W							15:42 @ 1.4 M
																@ surf for short time WINCH UP FLEET NEW RADIO END TOWYO
			15:47													
7/10/99	B5	NO MARKED AS B5 OR FILE	11:05		10	48	38.50	123	11.528		181				BB	11:06 @ 147m
7/10/99	B2		11:31		11	48	38.16 N	123	12.21 W		223	200			GK/BB	11:36 @ 200 M
7/10/99	B3		11:48		12	48	37.80 N	123	12.43 W		232	225			GK/BB	11:56 @ 225 M
7/10/99	B4		12:08		13	48	37.42 N	123	12.62 W		252	230			GK/BB	12:14 @ 231 M
7/10/99	B8		12:27		14	48	37.07 N	123	12.08 W		111	100			GK/BB	12:31 @ 102 M
7/10/99	B11		12:47		15	48	37.11	123	11.26		77	60			GK/BB	12:49 @ 63 M
7/10/99	B7		13:07		16	48	37.49 N	123	11.901		130	110			GK/BB	13:10 @ 109 m
7/10/99	B6		13:24		17	48	37.86 N	123	11.727		140	128			BB	13:30 @ 128 m
7/10/99	B10		13:46		18	48	37.88	123	11.14		129	105			GK	13:50 @ 107 M
7/10/99	B13		14:14		19	48	37.790	123	10.027		112	102			GK/BB	14:15 @ 102 M
7/10/99	B1-B4 Towyo		17:56		20	48	37.530	123	11.407		47	53			GK/BB	17:58 @ 53 M ↓
			1800								76	70			GK/BB	1800 @ 4 M ↑

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ctd
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net haul
drifter

USW -

sea water loop

TIME CODE -

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

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		OCTOBER		VECTOR		HARD STRAIT OCT 1999		3						
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
7/10/99	B1-B4	TOW 40	CONTINUED						790	80			GR/BB	1804 @ 80
				1804										18:07 @ 4.4 M
				18:07		48 37.49 N	123 11.69 W		120	110				18:12 @ 110 M
				18:12		48 37.49 N	123 11.81 W							18:15 @ 5 M
				18:15		48 37.47 N	123 11.93 W		133					
				18:20		48 37.461	123 12.087		130	108				@ 108 m
				18:24		48 37.453	123 12.209		77					@ 5 m
				18:26		48 37.447	123 12.295		52					@ 4 m
				18:28		48 37.438	123 12.360		78					@ 5 m
				18:33		48 37.42	123 12.51		220					@ 100 m
				18:34		48 37.42	123 12.45		227					@ 5 m
				18:44		48 37.383	123 12.703		256					@ 230 m
				18:50		48 37.36	123 12.63							18:50 @ 0.
8/10/99	B2	21		12:08		48 38.145	123 12.108		219	198			BB/GR	NOTICED CTD PC time = 12:58 WHEN ACOUSTIC ARE 12:15
														12:00 @ 198
8/10/99	B10	22		12:33		48 37.916	123 10.997		130	115			BB/GR	CLOCAL PC + GAS (ACOUSTIC) ARE SAME NOW!!??
8/10/99	B6	23		12:48		48 37.841	123 11.682		137	120			BB/GR	12:52 @ 130
	B3	24		13:05		48 37.772	123 12.411		230	205			BB/GR	13:10 @ 205

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

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		OCTOBER		VECTOR		HARD STRAIT Oct 1999		4		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
8/10/99	B18	974 610	13:24		25	48 N 37.731	123 W 13.152		248	234			37/24	13:30 @ 234 m
8/10/99	B19	"	13:42		26	48N 37.380	123 W 13.223		252	230			37/24	13:49 @ 230 M
8/10/99	B4	"	14:02		27	48N 37.408	123 W 12.642		253	230			38/24	14:07 @ 230 M
8/10/99	B7	"	14:23		28	48N 37.454	123 W 11.884		127	115			38/24	14:27 @ 115 M
8/10/99	B1 + B4	40480	14:38		29	48N 37.482	123 W 11.464		63				38/61	
			14:41			48N 37.493	123 W 11.541		80					@ 55m
			14:42			48N 37.480	123 W 11.608		104					@ 5m
			14:45			48N 37.435	123 W 11.782		114					@ 100m
			14:48			48N 37.423	123 W 11.914		128					@ 5m
			14:51			48N 37.412	123 W 12.108		127					@ 116m
			14:54			48N 37.401	123 W 12.201		65					@ 5m
			14:56			48N 37.384	123 W 12.408		89					@ 60m
			14:59			48N 37.381	123 W 12.537		230					@ 5m
			15:01			48N 37.377	123 W 12.646		250					@ 100m
			15:04			48N 37.366	123 W 12.760		258					@ 5m
			15:09			48N 37.350	123 W 13.040		252					@ 200m
			15:15			48N 37.332	123 W 13.321		249					@ 5m

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		OCTOBER		VECTOR		HARBO STRAIT Oct 1999		5						
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
8/10/99	B1-B2	towyo	16:02		30	48N 37.642	123W 11.457		62				BB/610	
			16:06			48N 37.691	123W 11.701		133					@ 100m
			16:09			48N 37.793	123W 11.898							@ 5m
			16:20			48N 38.390	123W 12.287		216					@ 170m
	END TOWYO		16:33			48N 38.49	123 12.375							or BOARD
8/10/99	310	540	18:44		31	48N 37.904	123W 10.965		131	110			G10	18:49 @ 110
8/10/99	36	"	19:05		32	48N 37.800	123W 11.784		132	115			24/83	19:09 @ 115
8/10/99	33	"	19:26		33	48N 37.700	123W 12.351		141	100			24/83	19:30 @ 100
8/10/99	34	"	19:44		34	48N 37.422	123W 12.633		250	218			24/83	19:51 @ 218
10/10/99	B21 to B2	towyo	01:23		35	48N 37.776	123W 05.024		238				24/88	
			01:44			48N 37.777	123W 05.670		193					@ 178m
			01:51			48N 37.754	123W 06.097		167					@ 5m
			01:56			48N 37.741	123W 06.474		123					@ 113m
			01:59			48N 37.757	123W 06.952		110					@ 5m
			02:02			48N 37.748	123W 07.193		101					@ 80m
			02:04			48N 37.749	123W 07.357		94					@ 5m
			02:06			48N 37.727	123W 07.540		102					@ 80m
			02:08			48N 37.723	123W 07.767		94					@ 5m < 1 more cast

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		OCTOBER		VECTOR		HARD STRAIT Oct 1999		6						
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
	48N		02:11			37.758	123W 08.186		134					@ 95m
	(continued)		02:15			37.781	123W 08.585		160					@ 5m ← 1 more cast
			02:19			37.810	123W 09.180		167					@ 100m
			02:23			37.806	123W 09.611		131					@ 5m
			02:28			37.813	123W 09.920		113					@ 95m
			02:32			37.817	123W 10.718		114					@ 5m
			02:36			37.826	123W 10.674		140					@ 100m
			02:41			37.925	123W 11.082		130					@ 5m
			02:44			37.854	123W 11.329		127					@ 110m
			02:47			37.835	123W 11.447		129					@ 5m
			02:50			37.840	123W 11.504		130					@ 110m
			02:53			37.852	123W 11.621		134					@ 5m
			02:57			37.844	123W 11.818		150					@ 110m
			03:00			37.814	123W 11.977		148					@ 5m
			03:03			37.798	123W 12.197		146					@ 130m
			03:07			37.776	123W 12.436		231					@ 5m
			03:14			37.756	123W 12.860		254					@ 210m
			03:20			37.638	123 13.404							surface

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YEAR		MONTH		SHIP		CRUISE		PAGE 7 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
10/10/99	B1 to B2	to deep	03:57		36	48N 37.560	123W 11.409		48				24/83	Start
			03:58			48N 37.601	123W 11.426		53					@ 30m
			03:59			48N 37.612	123W 11.440		61					@ 5m
			04:00			48N 37.635	123W 11.494		95					@ 40m
			04:00			48N 37.643	123W 11.581		130					@ 5m
			04:03			48N 37.648	123W 11.705		135					@ 100m
			04:05			48N 37.595	123W 11.782		130					@ 5m HAD TO STOP TOO MUCH CURRENT
10/10/99	B1 to B2	to deep	07:02		37	48N 37.777	123W 11.483		126					@ 10m
			07:09			48N 37.839	123W 11.511		130					@ 100m
			07:12			48N 37.929	123W 11.694		134					@ 5m
			07:18			48N 38.105	123W 12.048		211					@ 110m
			07:23			48N 38.229	123W 12.394		?					@ 5m
10/10/99	B3	single	07:33		38	48N 37.806	123W 12.433		229				24/83	07:38 48N 37.814 123W 12.383 @ 190m
10/10/99	B6	"	07:50		39	48N 37.869	123W 11.713		137				24/83	07:53 48N 37.881 123W 11.753 @ 115m
10/10/99	B10	"	08:08		40	48N 37.935	123W 11.325		129				24/83	08:11 48N 37.973 123W 11.086 @ 110m
10/10/99	B13	"	08:28		41	48N 37.804	123W 10.002		112				24/83	08:31 48N 37.801 123W 09.987 @ 100m
10/10/99	B16	"	08:44		42	48N 37.797	123W 08.990		160				24/83	08:46 48N 37.948 123W 08.992 @ 100m
11/11/99	S17	"	01:32		43	48N 39.115	123W 14.158		245				24/83	01:38 48N 39.197 123W 14.013 @ 275m

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CTD -
MOR -bottle cast
ctd
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YEAR				MONTH		SHIP				CRUISE				PAGE	OF
														8	
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	
11/10/99	S9	daye 175	01:56		44	48N 39,307	123W 13,345		236				24/33	02:02	48N 39,128 123W 13,288 @ 211m
11/10/99	S6	"	02:26		45	48N 40,182	123W 14,141		291				24/33	02:32	48N 40,109 123W 14,112 @ 270m
11/10/99	S16	"	02:52		46	48N 39,845	123W 14,863		307				24/33	02:58	48N 39,818 123W 14,793 @ 290m
11/10/99	S15	"	03:34		47	48N 40,864	123W 15,847		309				24/33	03:40	48N 40,888 123W 15,925 @ 290m
11/10/99	S3	"	04:22		48 ABORT 49	48N 41,178	123W 14,879		316				24/33	04:34	48N 40,983 123W 14,934 @ 290m
11/10/99	turn point	40m 40m	05:10		50	48N 41,035	123W 14,711		159				24/33		
			05:14			48N 41,377	123W 15,018		269						@ 113
			05:18			48N 41,248	123W 14,927		319						@ 5m
			05:30			48N 40,437	123W 14,590		270						@ 170
			05:40			48N 40,754	123W 14,511								@ 5m - out of water
															@ END tow yo
11/10/99	S7-55	40m 40m	06:59		51	48N 40,328	123W 13,836		175						
			07:02			48N 40,330	123W 13,856		182						@ 150m
			07:05			48N 40,244	123W 13,859		123						@ 5m
			07:08			48N 40,337	123W 13,882		186						@ 150m
			07:12			48N 40,379	123W 13,885		168						@ 5m
			7:16			48N 40,385	123W 13,854		1						@ 150
			7:20			48N 40,321	123W 13,823		196						@ 5m

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BO - bottom time of cast
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POSITION CODE - RAD - RADAR
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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1999		October		Victor		Hano 9934		9						
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
			07:26		51	48N 40.212	123W 14.711							@ 150m
					Continued	48N 1?	123W ?							surface, stop transect due to traffic
11/10/99	S7-S16	trump	07:46		52	48N 40.144	123W 14.403		282				cu/38	Start transect continued
			07:52			48N 40.080	123W 14.582		294					@ 220m
			07:58			48N 40.003	123W 14.634		307					@ 5m
			08:06			48N 39.9000	123W 14.927		306					@ 247
			08:13			48N 39.820	123W 14.253		301					surface
11/10/99	S15		08:28		53	48N 40.828	123W 15.757		312				cu/38	08:34 48N 40.746 123W 15.746 @ 280m
11/10/99	S3		08:51		54	48N 41.176	123W 14.436		322				cu/38	08:57 48N 41.321 123W 14.996 @ 300m
11/10/99	S1		09:08		55	48N 41.403	123W 15.189		337				cu/38	09:14 48N 41.468 123W 15.207 @ 300m
11/10/99	A1		09:39		56	48N 42.622	123W 14.172		311				cu/38	09:46 48N 42.680 123W 14.230 @ 280m
12/10/99	B8		03:25		57	48N ?	123W ?		150				cu/38	03:28 48N 37.827 123W 12.387 @ 180m
13/10/99	B4		03:43		58	48N 37.441	123W 12.650		252				cu/38	@
13/10/99	B3		04:08		59	48N 37.818	123W 12.499		237				cu/38	04:13 48N 37.903 123W 12.556 @ 210m
13/10/99	B2		04:31		60	48N 38.188	123W 12.268		226				cu/38	04:31 48N 38.160 123W 12.190 @ 210m
13/10/99	B5		04:55		61	48N 38.242	123W 11.536		171				cu/38	04:59 48N 38.204 123W 11.310 @ 130m
13/10/99	A2		05:40		62	48N 39.180	123W 09.362		103				cu/38	05:42 48N 39.191 123W 09.347 @ 90m

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 1999		MONTH Oct		SHIP Vector		CRUISE HARD STRAIT Oct 99 9934		PAGE 10		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	
11/10/99	B21 to B2	Long	06:48		63	48N 37.733	123W 05.443		206					24/88	840
			06:53			48N 37.738	123W 05.882		192						
			06:56			48N 37.734	123W 06.297		145						@ 141
			06:59			48N 37.714	123W 06.682		122						@ 5m
			07:02			48N 37.704	123W 07.000		107						@ 95
			07:04			48N 37.708	123W 07.295		94						@ 5m
			07:06			48N 37.734	123W 07.642		94						@ 75m
			07:08			48N 37.745	123W 07.860		91						@ 5m
			07:09			48N 37.749	123W 08.081		117						@ 70m
			07:11			48N 37.763	123W 08.306		127						@ 5m
			07:13			48N 37.784	123W 08.554		151						@ 20m
			07:16			48N 37.800	123W 08.869		133						@ 5m
			07:18			48N 37.809	123W 09.173		195						@ 90m
			07:21			48N 37.812	123W 09.499		98						@ 5m
			07:23			48N 37.812	123W 09.779		116						@ 74m
			07:25			48N 37.826	123W 10.050		112						@ 5m
			07:28			48N 37.842	123W 10.322		125						@ 67m
			07:30			48N 37.861	123W 10.602		130						@ 62

CAST TYPE -

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DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1999			OCTOBER			VECTOR			HARRIS STRAIT OCT 1999			11			
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	
			07:31			48N 37.886	123W 10.850						VALUE	@ 5m	
			07:36			48N ?	123W ?							@ 92m	
			07:38			48N 37.892	123W 11.649							@ 5m	
			07:			48N 37.869	123W 11.890							@ 210	
			07:			48N 37.85	123W 12.00							@ 5m	
			07:47			48N 37.824	123W 12.075							@ 124m	
			07:49			48N 37.775	123W 12.520	2m / ?						5	
			07:50			48N 37.777	123W 12.651							5	
			07:54			48N 37.778	123W 12.720							220	
			07:58			48N 37.782	123W 12.792							5	
			08:02			48N 37.771	123W 12.958							200	
			08:05			48N 37.760	123W 12.914							0	
13/10/99	B8	net haul	09:08		64	48N 37.079	123W 12.011		100					09:09	48N 37.064 123W 11.991 @ 110m
13/10/99	B4	"	09:23		65	48N 37.428	123W 12.665		22					09:27	48N 37.429 123W 12.523 @ 12m
13/10/99	B3	"	09:38		66	48N 37.798	123W 12.421		230					09:42	48N 37.808 123W 12.422 @ 20m
14/10/99	A1	"	03:18		67	48N 41.360	123W 14.087		294				20/21	04:01	48N 41.305 123W 14.141 @ 280m
14/10/99	S1	"	04:35		68	48N 41.379	123W 15.191		335				24/33	04:42	48N 41.379 123W 15.176 @ 310m
14/10/99	S4	"	05:09		69	48N 41.351	123W 14.770		201				24/28	05:12	48N 41.323 123W 14.724 @ 150m

CAST TYPE -

BOT -

bottle cast

CTD -

mooring

MOR -

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

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deployment time

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messenger release

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recover mooring

POSITION CODE -

RAD -

RADAR

GPS -

GLOBAL

LOR -

LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

[illegible]

CAST TYPE -	BOT -	bottle cast	ROS -	rosette	USW -	sea water loop
	CTD -	ctd	NET -	net haul		
	MOR -	mooring	DRF -	drifter		

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