

CRUISE
NUMBER

9814

DAILY LOG 1 of 2
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

June 2 to 18, 1998

VESSEL

VECTOR

PROJECT

Inlets Cruise

Captain: Joanne McVish First Officer: Sean Poller
Second Officer: _____ Third Officer: _____
Cruise Participants / Agencies: IOS/WBC
Scientific Personnel: Party Chief: Dario Stuechi

Name	Watch	Cabin	Name	Watch	Cabin
<u>Les Spearing</u>	<u>7-15</u>	<u>Stbd</u>			
<u>Bernard Munkley</u>	<u>7-15</u>	<u>Stbd</u>			
<u>Beth Bornhold</u>	<u>15-23</u>	<u>Chief</u>			
<u>Lauren Ross</u>	<u>7-15</u>	<u>Chief</u>			
<u>Barbara Shaw</u>	<u>15-23</u>	<u>Lady's</u>			
<u>Elaine Baird</u>		<u>Lady's</u>			
<u>Dario Stuechi</u>	<u>15-23</u>	<u>port</u>			



Second

Itch Cabin

Data logging system: Unit no.: _____

Program Name: SeaSave

Program version: 4.233

CTD deck unit make: SBE

model: _____

serial no.: ?

Computer make: Dell

model: _____

serial no.: 12TX5

1st CTD make: SBE

model: 911 Plus

serial no.: 09P18377-0506

Temperature sensor

model: 3plus 6800m

serial no.: 2371/2449

coefficients: slope: _____

offset: _____

Conductivity sensor

model: 4C 6800

serial no.: 2102/2128

coefficients: slope: _____

offset: _____

Pressure sensor range: 0-10,000 psia psi

serial no.: 69698 Model 410K-105

coefficients: FSP: _____

dB

Transmissometer

model: _____

serial no.: 197

coefficients: slope: _____

offset: _____

Comments: _____

A0 = 4.7490 Air Voltage

V0 = 0.0000 blockad path Voltage

A1 = 4.7225 current air voltage

V1 = 0.0020 current blockad path voltage

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			JUNE			VECTOR			9814			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	
2	S3	ROS	2158	BE	1	48 35.28	123 30.20	✓	224		1-12	12		Con Cdr 506-9814.COM	
				BO										bottle #7 leaked severely	
				EN											
3	D8A	ROS	00:46	BE	2	48° 42.16	123 15.23	✓	359		13-17				
			00:55	BO		42.18	15.19								
			01:10	EN		42.11	15.39								
3	D7A	ROS	01:56	BE	3	48° 43.99	123° 8.62	✓	167		18-26				
			02:03	BO		43.94	8.73								
			02:16	EN		43.89	8.96								
3	D6A	ROS	03:02	BE	4	48° 46.05	123° 2.35	✓	229		27-28				
			03:08	BO		46.12	2.35								
			03:16	EN		46.18	2.72								
3	SI08	CTD	04:21	BE	5	48° 56.37	122° 59.00	✓	59						
			04:24	BO		56.41	58.99								
			04:26	EN											

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

Coast Guard

Robert Easley

480 2662

DMCOLOR.DLL

ICONLIB.DLL

UNIDRV.DLL

UNIDRV.HLP

PANSON24.DRV

|drivers|printer|kyocera|

Turner, Kim

DAILY LOG

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		JUNE		VECTOR		9814		2		2				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/MYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
3	SI07	CTD	0454	BE	6	48° 55.62	123 0.07		126		/			
			0459	BO		55.64	0.08							
			0503	EN										
	SI06	CTD	0528	BE	7	48° 54.58	123° 1.33		150		/			
			0533	BO		54.59	1.34							
			0537	EN		54.59	1.36							
3	SI01	CTD	1410	BE	8	48 49.16	123 08.68		115		/			
			1413	BO	8									
			1417	EN		48 49.180	123 08.686							
3	SI02	CTD	1443	BE	9	48 50.50	123 06.91		221		/			
			1448	BO	9	48 50.48	123 06.85							
			1454	EN	9	48 50.46	123 06.78							
3	SI03	ROS	1518	BE	10	48 51.83	123 05.05	✓	161		29-37	9		
3	SI04	CTD	1600	BE	11	48 52.79	123 02.96		166		/			
			1605	BO		48 52.80	123 02.81		156					
			1611	EN										

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

DAILY LOG

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		June		Vector		9814								
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	SI05	CTD	1623		12	48 53.71	123 02.57		165					
	MI01	CTD	1734	BE	13	48 52.39	123 14.56		151					
			1738	BO		48 52.41	123 14.55							
	MI02	CTD	1759	BE	14	48 53.82	123 12.61		143					
	MI03	ROS	1828		15	48 55.21	123 10.68	✓	128	118	38-45			
	MI04	CTD	18:54	BE	16	48 56.12	123 9.43		117					
			18:58	BO		56.14	9.33							
			19:01	EN										
	MI05	CTD	1915	BE	17	48 57.04	123 08.22		110	103				
	MI06	CTD	2006	BE	18	48 58.01	123 07.04		128					
	MI06	CTD	2013	BE	19	48 58.02	123 06.96		128					
	MI07	CTD	2033	BE	20	48 58.77	123 05.87		56	49				

CAST TYPE -

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CTD -
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ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

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EN -beginning time of cast
bottom time of cast
end of castDE -
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messenger release
recover mooring

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GPS -
LOR -RADAR
GLOBAL
LORAN

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1998			June			Vector			9814							
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3	GI01	ROS	2123		21	48 58.53		123 16.43		✓	166		46-54	9		
3	GI02	ROS	22:21	BE	22	49 2.60		123 23.38		✓	268		55-66	12		
			22:29	BO		2.51		23.51								
				EN												
3	VI01	ROS	23:36	BE	23	49 2.91		123° 35.32		✓	127		67-73	7		
			23:41	BO		2.92		35.33								
				EN												
4	VI02	ROS	00:18	BE	24	49 4.45		123° 32.18		✓	260		74-85	12		
			00:27	BO		4.48		32.18								
				EN												
4	VI03	ROS	01:08	BE	25	49° 6.01		123° 29.05		✓	342		86-99	14		trans. has spikes + ja-ps?
			01:18	BO		6.04		29.16								
			01:40	EN												
4	VI04	ROS	02:18	BE	26	49 8.71		123 23.30		✓	184		100-109	10		trans. noisy!
			02:25	BO		8.76		23.30								
			02:39	EN		8.93		23.22								

CAST TYPE -

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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 -
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messenger release
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POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

* CONS# 29

On the upcast the primary salinity deviated from the secondary by small amount initially at depths ~ 300m but the diff. became much larger near the surface. The primary temperature also did not follow its down track in the upper part of the profile. May be a pump problem?

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YEAR 1998			MONTH JUNE			SHIP VECTOR				CRUISE 9814				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	
4	VI05	ROS	03:12	BE	27	49° 11.44	123° 17.86	✓	57		110-114	5			
			03:13	BO		11.47	17.87								
				EN											
4	GI03	ROS	04:35	BE	28	49° 10.29	123° 33.51	✓	376		115-128	14			
			04:46	BO		10.40	33.67								
			05:11	EN		10.56	33.57								
4	GI04		05:49	BE	29	49 12.70	123° 40.25	✓	397		129-142	14			
			06:01	BO		12.83	40.56							* Salinity diff on upcast at 300m. primary sal wandering see note opposite	
			06:28	EN		13.00	41.03								
4	NI07		1416		30	49 22.50	123 32.70	✓	77	63	143-148	6			
4	NI06		1446	BE	31	49 21.32	123 35.02	✓	166		149-157	9			
4	NI05		1529		32	49 19.62	123 38.61	✓	265		158-169	12			
4	NI04		1617		33	49 17.81	123 42.32	✓	297		170-182	13			
4	NI03		1717		34	49 15.99	123 45.93	✓	418		183-196	14			

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

Bernard home 652 0260

DAILY LOG

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1998		June		Vector		9814								
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4	NI02	ROS	1808		35	49 14.67	123 48.70	✓	334		197-209	13		
4	NI01	ROS	1859	BE	36	49 13.39	123° 51.33	✓	120		210-216	7		
			1904	BO		13.43	51.35							
			1914	EN		13.47	51.37							
4	CPF1	BOMGO	13:40	LOCAL	37	49	123			235				0-235
	CPF1	BOMGO	13:51	LOCAL	38	49	123			50				0-50
4	CPF1	CTD	2108	BE	39	49 22.18	124 04.93	✓	250					
			2114	BO	39	49 22.18	124 04.85			238				
4	NavyBury		2149	BE	40	49 19.81	124° 5.51	✓	412		217-222			Intercomparison cast with Navara vessel
			2157	BO		19.87	5.45							
			2211	EN		19.93	5.42							"St. line"
5	DF01		00:47	BE	41	49° 15.05	123° 44.91	✓	403		223-228			
			01:00	BO		15.10	44.76							
			01:17	EN		15.07	44.81							

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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	
5	DF01	BONGO			42				404		Beth's Station Bongo's			0-395m	
		BONGO			43				404					0-200m	
		BONGO			44				404					0-50	
5	DF02	ROS	03:24	BE	45	49° 19.69	123° 43.96	✓	199		227-234				
			03:26	BO		19.72	43.92								
			03:35	EN											
5	DF02	BONGO			46				199					0-50m	
5	DF03	ROS	04:45	BE	47	49 24.24	123° 37.18	✓	66		235-240				
			04:49	BO											
			04:56	EN											
5	DF03	BONGO			48									0-50m	

CAST TYPE -

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

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TIME CODE -

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF						
1998		JUNE		VECTOR		9814										
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	Je10	ROS	14:15	BE	49	50	11.38	123	57.45	✓	259		241-252	12		
			14:23	BO			11.37		57.48							
			14:42	EN			11.40		57.55				*XU + Jelly Fish			Trans. noisy on upcast
5	Je9	ROS	15:20	BE	50	50	8.61	123	50.51	✓	359		253-266	14		
			15:30	BO			8.62		50.52							
			15:58	EN			8.48		50.51							
5	Je8	ROS	16:32	BE	51	50	5.39	123	46.73	✓	483		267-281	15		
			16:42	BO			5.38		46.71							
				EN												
5	Je7	ROS	17:35	BE	52	50°	2.50	123	51.17	✓	540		282-297	16		
			17:48	BO			2.48		51.22							
			18:15	EN			2.45		51.21							
5	Je6	ROS	19:19	BE	53	49°	59.3	123°	59.38	✓	545		298-313	16		
			19:35	BO			59.09		59.24							
			20:07	EN			59.10		59.29							
5	Je4	ROS	21:22	BE	54	49°	49.51	123°	54.29	✓	672		314-329	16		
			21:41	BO			49.41		54.36							
			22:15	EN			49.44		54.30							

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
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drifter

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sea water loop

TIME CODE -

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BO -
EN -beginning time of cast
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recover mooring

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check	22	150 m	redo.
✓	27	0	
✓	32	75	O ₂ too high
✓	34	200 - 250	
	49		
✓	51	200	
✓	52	200	
✓	53	0 - 99	

55-66

254
241
14

DAILY LOG

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		June		Vector		98-14								
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	Je2	ROS	23:35	BE	55	49° 46.30	124° 9.23	✓	601		330-344	15		No sample # 339
			23:47	BO		46.20	9.28							bottle #10 hung up
6			00:09	EN		46.28	9.31							
6	Je1	ROS	01:04	BE	56	49° 42.31	124° 14.48	✓	264m		345-355	11		
			01:11	BO		42.28	14.46							
			01:12	EN										
6	CPF2	CTD	0606	BE	57	49 27.99	124 30.02		356	316				CTD for Steve's bongo
			0615	BO		28.04	30.01							
				EN										
5	CPF2	BONGO	23:32	*Local	58									0-250m
5	CPF2	BONGO	23:49	*LOCAL	59									0-50m
6	Bu08	ROS	1704	BE	60	50 53.31	124 50.48	✓	225	216	356-367	12		
			1710	BO		53.34	50.36							
6	Bu07	ROS	1753	BE	61	50 49.75	124 53.48	✓	357		368-381	14		
			1801	BO		50 49.75	124 53.44			347				

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

25.
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52.
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54,

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DAILY LOG

OCEAN PHYSICS

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YEAR 1998		MONTH JUNE		SHIP VECTOR		CRUISE 9814		PAGE OF						
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6	B46	ROS	1852	BE	62	50° 45.29	124° 53.92	✓		476	381-395	15		
			1902	BO		45.31	53.86							
			19:23	EN		45.21	53.82							
6	B405	ROS	2000	BE	63	50 40.72	124 53.16	✓	571.		396-411	16.		
			2012	BO		50 40.70	124 53.18							
			2037	EN										
6	B404	ROS	2116	BE	64	50 35.28	124 53.78	✓	642		412-428	17		
			21:29	BO		35 23	53.73							
				EN										
6	B403		22:29	BE	65	50 31.69	124 58.01	✓	652		429-445	17		
			22:43	BO		50 31.62	124 58.12							
				EN										
6	B402		23:50	BE	66	50 28.11	125 04.59	✓	653		446-462	17		
7			00:05	BO		50 28.04	125 04.57							
7			00:30	EN		50 28.07	125 04.59							
7	B401	ROS	0110	BE	67	50 22.16	125 05.03	✓	614		463-478	16.		
			0122			50 22.13	125 05.09							
			0145											

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7	KN11	ROS	1452	BE	68	51 00.54	125 34.05		211		478-488	11		
			1457	BO										
				EN										
7	KN09		1605	BE	69	50 54.29	125 32.95		420		489-502	14		
			1614	BO		54 23	33.00			408				
			1632	EN										
7	KN07		1723	BE	70	50 48.08	125 37.55		524		503-517	15		cleaned trans. lens
			1734	BO		48.00	37.54			509				
7	KN05		1850	BE	71	50 41.61	125 47.07			387	518-531	14		
				BO		50 41.62	125 47.14							
			1918	EN										
7	KN04		1959	BE	72	50 40.83	125 56.31		444		532-545			
			20:10	BO		50 40.83	56 41							
				EN										
7	KN02		21:21	BE	73	50 39.26	126 11.18		183		546-554	9		*touched bottom *
				BO										both sensor affected by
			21:40	EN										scum but returned
														to stable consistent values
														The bottom son of upcast
														may be reusable.

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

#75' check - .410

83 - .44

89 @ 250 O₂ high 3.610

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH			SHIP			CRUISE					PAGE		OF	
1998		June			Vector			9814								
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	KN01	ROS	22:38	BE	74	50 38.09 N	126 25.37W	✓	250	237	555-566	12				
			21:45	BO		50 38.10 N	126 25.34W									
			22:59	EN		50 38.09 N	126 25.39W		474	466						
8	Kin 1	ROS	2:49	BE	75	50 53.58 N	126 34.58 W	✓			567-581	15				
			2:59	BO		50 53.55 N	126 34.55 W									
				EN												
8	SE2	ROS	18 10	BE	76.	51 03.49	127 23.48	✓	96.		582-588	7.				
				BO												
				EN												
8	SE04	ROS	19 27	BE	77	51 03.15	127 08.07	✓			589-604					
			19:38	BO		51 03.16	127.08.04		545			16				
			19:59	EN		51.03 13	127.08.01									
8	SE05	ROS	20 38	BE	78	51 04.30	127 00.77	✓	620		625-620	16.		no pinger (under repair)		
			20 49	BO		51 04.31	127 00.76		600.					Trans noisy 500 to 75.		
			21 11.	EN												
8	SE06	ROS	21 50	BE	79	51 04.32	126 52.30	✓	539.	533	621-636	16.		No pinger		
			22 00	BO		51 4.33	126 52.43									
				EN												

CAST TYPE -

BOT -
CTD -
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ctd
mooringROS -
NET -
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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 -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
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GLOBAL
LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			June			Vector			9814						
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	FrS1	Ros	2316	BE	80	51 2.25	126 43.12	✓	242	227	637-648	12		No pinger, H ₂ S	
			2320	BO		51 2.25	126 43.13							smell in 637-641	
			2334	EN		51 2.26	126 43.12								
9	Se 7	Ros	0023	BE	81	51 6.00	126 45.05	✓	295	265	649-660	12			
			0028	BO		51 6.01	126 45.04								
			0041	EN		51 6.01	126 45.05								
9	DE10	Ros	1621	BE	82	52 49.96	126 59.62	✓	167		661-669	9		light rain	
			1626	BO		49 97	59 64			153					
			1634	EN											
9	DE09	Ros	1716	BE	83	52 44.04	126 57.33	✓	457		670-684	15			
			1726	BO						446					
			1745	EN		43.99	57.38								
9	DE08	Ros	1828	BE	84	52 38.31	127 00.55	✓	488		685-699	15			
			1839	BO		38.29	00.50			473					
			1858	EN		38.34	0.48								
9	DE07	Ros	1942	BE	85	52 35.03	127 08.32	✓	420		700-714	15			
			1950	BO						414					
			2009	EN		52 35.20	127 08.38								

CAST TYPE -

BOT -
CTD -
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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 -
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messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1998		MONTH JUNE				SHIP VECTOR				CRUISE 9814				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	DE06	ROS	2058	BE	86	52 27.31	127 14.68	✓	498		715-729	15			
			2107	BO		29.27	14.81			491.					
			21:29	EN		29.31	14.76								
9	DE05	ROS	2238	BE	87	52 24.53	127 20.84	✓	474	462	730-744	15		drizzling	
			2249	BO		52 24.47	127 20.92								
				EN											
10	DE04	ROS	0150	BE	88	52 20.49	127 28.09		427	439	745-759	15		drizzling	
			0200	BO		52 20.45	127 28.23								
			0218	EN		52 20.48	127 28.14								
10	DE02	ROS	03:01	BE	89	52 16.58	127 37.20		330		760-773	14			
			3:09	BO		52 16.58	127 37.23			326.					
			3:24	EN		16.57	37.16								
10	DE01	ROS	0406	BE	90	52 15.02	127 46.84		430		774-887	14			
			0415	BO		15.01	46.94			420.					
			04:35	EN		15.09	46.83								
10	EV1	ROS	05:53	BE	91	52 6.20	127° 48.70		200		788-798	11			
			05.58	BO		6.20	48.76			190.					
			06:09	EN		6.21	48.73								

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				
1998		June		Vector		98-14								
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	D01	ROS	1726		92	53 22.28	129 11.55		423		799-813	15		
			1736			22.23	11.69			450				
10	D03	ROS	1852		73	53 31.50	129 12.25		348		814-827	14		
			1900							335				
			1915			31.52	12.32							
10	D05	ROS	2019	BE	94	53 40.48	129 07.33		404		828-841	14		
			2027	BO		53 40 50	129 07 35			381				
			2045	EN		53 40 49	129 07 42							
10	Gilt	Ros	2207	BE	95	53 50.57	128 58.15		180		842-851	10		
			2213	BO		53 50.54	128 58.16			167				
			2223	EN		53 50.55	128 58.22							
10	D07	Ros	2325	BE	96	53 47.24	128 53.26		387		852-865	14		
			2334	BO		53 47.21	128 53.28			381				
			2351	EN		53 47.21	128 53.07							
11	D09	Ros	00:47	BE	97	53° 54.42	128° 44.06		246		866-877	10		
			00:57	BO		54.45	44.10							
			01:06	EN		54.44	44.22							

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
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 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		1998		MONTH		JUNE		SHIP		VECTOR		CRUISE		9814		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			
11	D010	ROS	01:43	BE	98	53°	58.58	128°	40.59		149		878-886	9					
			01:47	BO			58.62		40.59										
			01:56	EN			58.56		40.63										
11	GA14	ROS	1414	BE	99.	53	15.79	127	55.51		141.		887-895	8					
			1419				15.82		55.48			132							
11	GA12	ROS	1529		100.	53	22.72	128	03.44		233		896-907	12					
			1535									221.							
			1548				22.69		03.49										
11	GA11	ROS	1636		101.	53	27.72	128	08.60		290		908-920	13					
			1643				53 27.75	128	08 02			275							
			1657				53 27.75	128	08 62										
11	GA09	ROS	1751		102	53	29.01	128	20.49		493		921-935	15					
			1801				29.03		20.52			483							
			1822				29.14		20.54										
	GA07	ROS	1925		103	53	26.21	128	34.08		261.		936-946	11					
			1930				26.23		34.14			191							
			1942																

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	
1998			JUNE			VECTOR			9814						
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	Ga6	ROS	22:27	BE	104	53° 30.46	128° 42.58		203		947-957	11			
			22:33	BO		30.48	42.60								
			22:47	EN		30.46	42.57								
11	Ga04	ROS	23:41	BE	105	53° 32.76	128° 53.05		204		958-968	11			
			23:47	BO		32.77	53.07								
12			00:00	EN		32.79	53.16								
12	Ga02	ROS	01:01	BE	106	53° 26.31	128° 55.73		371		969-982	14			
			01:16	BO		26.25	55.70								
			01:29	EN		26.16	55.68								
12	Ga01	ROS	02:24	BE	107	53° 19.86	128° 54.31		519		983-997	15			
			02:35	BO		19.83	54.29								
			02:57	EN		19.80	54.21								
12	SP5	ROS	14:01	BE	108	52 36.52	128 04 07		222		998-1009	12		seemingly anoxic → H ₂ S!	
			14:08	BO		—	—								
			14:22	EN		52 36.54	128 04.13								
12	SP4	ROS	14:56	BE	109	52 33.58	128 06.17		220		1010-1020	11			
			15:03	BO		52 33.56	128 06.20			205					
			15:15	EN		52 33.56	128 06.21								

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

92-107

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			June						9814						
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	SP3	ROS	1556		110	52 27.70	128 05.24		500.		1021-1035	15			
			1607			27.67	05.22			489					
			1631			27.60	05.33								
12	SP2	ROS	1706		111	52 23.41	128 08.89		464	463	1036-1050	15			
			1718			52 23.39	128 08.92			463					
			1737			52 23.34	128 08.93								
12	SP1	ROS	1811		112	52 19.10	128 12.69		382		1051-1064	14			
			1819			52 19.11	128 12.68			369					
			1835			52 19.10	128 12.69								
13	Br1	ROS	01:58	BE	113	52 25.90	127° 59.51		71		1065-1070	6			
			02:03	BO											
			02:09	EN		25.94	59.50								
13	Ro1		03:23	BE	114	52 19.78	127 56.06		215		1071-1081	11.		pressure spike	
			03:30	BO		19.77	56.02								
			03:41	EN		19.81	56.05								
13	Ro2		04:10	BE	115	52° 22.74	127° 52.47		134		1082-1089	8			
			04:14	BO		22.68	52.42								
				EN											

CAST TYPE -

BOT -
CTD -
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ctd
mooringROS -
NET -
DRF -rosette
net haul
dritter

USW - sea water loop

TIME CODE -

BE -
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EN -beginning time of cast
bottom time of cast
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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	
13	R03	ROS	04:57	BE	116	52	27.02	127	55.06		178		1090-1098	9			
			05:03	BO			27.05		54.98								
			05:15	EN			27.07		54.95								
13	R04	ROS	05:46	BE	117	52°	29.93	127°	50.84		140		1099-1106	8			
			05:50	BO			29.92		50.89								
			05:59	EN			29.94		50.89								
13	R05	ROS	06:40	BE	118	52	28.00	127°	44.79		99		1107-1113	7			
			06:45	BO			28.00		44.77								
			06:53	EN			27.94		44.82								
13	Ri8	ROS	17:16	BE	119	51	50.70	127	21.77	-	148		1114-1122	9			
			17:20	BO			50.73		21.75								
				EN													
13	Ri7	ROS	18:02	BE	120	51	46.70	127	23.62	✓	241,		1123-1134	12			
			18:09	BO			51 46.68		23.59			223.					
			18:21	EN			51 46.66		127 23.60		205						
13	Ri6	ROS	18:54	BE	121	51	43.66	127	27.20	✓	205		1135-1145	11			
			18:59	BO			43.67		27.20								
			19:11	EN			43.68		27.18								

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				
1998		June		CSS VECTOR		9814								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE N	LONGITUDE W	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
13	R15	ROS	2011:30	BE	122	51 40.68	127 19.19		200	194	1146-1156	11.		
			2018	BO		40.67	19.93							
			2034	EN		40.70	19.89							
13	R14	ROS	2106:30	BE	123	51 38.90	127 26.70		300		1157-1169	13		
			2115			38.91	26.77							
			2130			38.95	26.78							
13	R12	ROS	22:34	BE	124	51° 31.18	127° 33.59		332		1170-1183	14		
			22:42			31.19	33.68							
			23:00			31.18	33.73							
14	SM1	ROS	0153	BE	125	51 18.67	127 30.02		214		1184-1194	11		
			0157	BO		51 18.66	127 30.02			208				
				EN										
14	SM2	ROS	0246	BE	126	51 18.00	127 22.15		370		1195-1208	14		
			0254	BO		51 18.00	127 22.06			362				
				EN										
14	SM3	ROS	0351	BE	127	51 18.53	127 14.60		325		1209-1221	13		
				BO		51 18.54	127 14.54			313				
			0413	EN										

CAST TYPE -

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

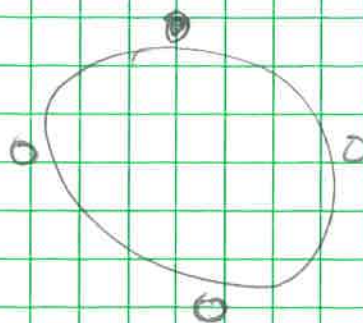
USW - sea water loop

TIME CODE -

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

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN



.676

~~1.322~~ ~~11.2252~~ ~~30.6831~~
30.7487

1.057 11.1821 30.7449 30.7555 80.48

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		JUNE		VECTOR		9814								
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	SM04	ROS	0449	BE	128	51 21.60	127 09.01		182		1222-1231	10		Bot 1-3 had
				BO		51 21.61	127 09.05			175				Sulphur smell
				EN										
14	SM05	ROS	0526	BE	129*	51 21.35	127 06.26		105	103	1232-1238	7		* saved as file 98140012. x
			0530	BO		51 21.34	127 06.24							which means we overwrote cast #12.
			0538	EN										We renamed the file to 98140129. *
14	Q4	ROS	1747	BE	130	50 31.72	127 38.72		120		1239-1246	8		
			1751	BO		31.74	38.74							
			1758	EN										
14	HOL5	ROS	2012	BE	131	50 38.22	127 57.31		54		1247-1251	5		
			2015	BO		50 38.21	127 57.35			42				
			2018	EN		50 38.21	127 57.38							
14	HOL4	ROS	2048	BE	132	50 37.00	127 51.20		55		1252-1256	5		(111)
			2051	BO		50 37.00	127 51.21			46				
			2054	EN		50 36.99	127 51.18							
14	HOL3	ROS	2122	BE	133	50 35.85	127 45.03		72.3		1257-1262	6		missing 0m in Rosette file
			2125	BO		50 35.84	127 44.95			57				
			2129	EN		50 35.84	127 44.91							

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

15 June 98

0650 Depart Jennie Landing

.715 14.446 1 28.842 1 28.8342

80.460

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
14	HOL 2	ROS	21:56	BE	134	50	35.29	127 39.00		117		1263-1269	7		
			21:59	BO		50	35.27	127 38.92			107				
			22:06	EN		50	35.25	127 38.78							
14	HOL 1	ROS	22:32	BE	135	50	33.91	127 33.61		127		1270-1277	8		No sample # 1278
				BO		50	33.92	127 33.65			120				(shallower than predicted)
				EN											
14	RU 2	ROS	23:13	BE	136	50	35.02	127 30.28		75		1279-1284	7		
				BO							63				
			23:20	EN											
14	KU 3	ROS	23:43	BE	137	50	35.29	127 26.53		67		1285-1289	5		
				BO							57				
			23:50	EN		50	35.30	127 26.50							
15	#2	ROS	14:50	BE	138	50	21.03	127 26.47		37		1290-1296	7		
15	#5	ROS	15:13	BE	139	50	22.01	127 26.61		55		1297-1304	8		
15	#8	ROS	15:36	BE	140	50	23.01	127 27.51		45		1305-1312	8		
15	#11	ROS	16:03	BE	141	50	23.70	127 28.80		102		1313-1322	10		missing 0 in Rosette file
				BO											
			16:18	EN		50	23.72	127 28.89							

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifterUSW -
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	
1998			June			Vector			9814						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
15	#14	ROS	1640	BE	142	50 24.36	127 29.51		139		1323-1333	11		bottle & fired on miscast	
			1643	BO		50 24.41	127 29.55								
			1653	EN											
15	#17	ROS	1707	BE	143						1334-1346	13			
			1712	BO		50 25.73	127 30.54			164					
			1727	EN		50 25.85	127 30.59								
15	#20	ROS	1744	BE	144	50 27.01	127 31.60		196		1347-1360	14			
			1749	BO		27.01	31.59			184					
				EN											
15	N18	ROS	1824	BE	145	50.28.89	127 33.55		195		1361-1371	11			
			1830	BO		28.90	33.57			184					
				EN		28.90	33.57								
15	N22	ROS	1904	BE	146	50 30.53	127 35.95		150		1372-1379	8			
			1909	BO		30.52	35.94			142					
			1916	EN		30.52	35.93								
15	Q3	ROS	2004	BE	147	50 29.73	127 46.28		206		1380-1390	11			
			2009	BO											
				EN											

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

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		JUNE		C.C.G.S. VECTOR		9814								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
15	Q2	ROS	20:59	BE	148	50.28.24	127.54.34		228		1391-1402	12		
			21:04	BO		50.28.23	127.54.38			214				
			21:19	EN		50.28.24	127.54.29							
16	ZEB4	ROS	14:16	BE	149	49 51 31	126 55 61		233		1403-1414	12		
			14:21	BO		49 51 33	126 55 63			229				
			14:32	EN		49 51 34	126 55 65							
16	ZEB2	ROS	15:51	BE	150	49 55.50	126 47 91		227		1415-1425	11		
			15:58	BO		49 55.52	126 47.89			215				
			16:08	EN		49 55 54	126 47 88							
16	HEC 1.	ROS	16:50	BE	151	49 52.10	126 45.09		253		1426-1437	12		
			16:58	BO		49 52.09	126 45 08							
			17:08	EN		49 52 08	126.45 06							
16	TAH 1.	ROS	17:52	BE	152	49 54 01	126 39.29		146		1438-1446	9		
			17:58	BO		49 54 02	126 39 31							
			18:06	EN		49 54 02	126 39 30							
16	TAH 2	ROS	18:29	BE	153	49 51.43	126 39.69		198		1447-1456	10		
			18:35	BO		49 51.42	126 39.71			188				
			18:47	EN		49 51.40	126 39.74							

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INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		June		Vector		9814								
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
16	TAH 3	ROS	1921	BE	154	49 47.92	126 39.06		125		1457-1464	8		
			1924	BO										
			1932	EN										
16	TLU 1	ROS	2040	BE	155	49 41.60	126 30.97		265		1465-1476	12		
			2045	BO		49 41.60	126 31.02			249				
			2058	EN										
16	MUC 5	ROS	2123	BE	156	49 39.01	126 28.59		220		1477-1488	12		
			2129	BO		49 38.97	126 28.60			217				
			2142	EN		49 38.99	126 28.59							
16	MUC 4	ROS	2220	BE	157	49 38.52	126 20.60		285		1489-1501	13		
				BO		49 38.51	126 20.65							
			2246	EN		49 38.55	126 20.63							
16	MUC 3	ROS	2316	BE	158	49 39.03	126 14.44		362		1502-1515	14		
			2324	BO		49 39.04	126 14.36			354				
			2343	EN		49 39.05	126 14.47							
17	MUC 2	ROS	0036	BE	159	49 40.17	126 09.54		366		1516-1529	14		est top 2m 1-3 kt East 5-20m 0.3 kt West
			0046	BO		49 40.21	126 09.52			357				
				EN										

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CRUISE
NUMBER

9814

DAILY LOG 2 of 2
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

June 2 to 18, 1998

VESSEL

VECTOR

PROJECT

Inlets Cruise

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		JUNE		VECTOR		9814								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
17	M5km	ROS	0130	BE	160	49 38.98	126 05.54		172		1530-1539	10		
			0135	BO		49 38.95	126 05.51			162				
			0145	EN		49 38.98	126 05.55							
17	MUC1	ROS	0205	BE	161	49 37.53	126 03.65		129		1540-1547	8		
			0208	BO		49 37.50	126 03.65			124				
				EN										
17	U1	ROS	1403	BE	162	48 55.21	125 31.03		27		1548-1551	4		
			1409	EN		53 23	31.00							
17	U4	ROS	1445	BE	163	48 56.57	125 32.50		26		1552-1556	5		
			1453	EN		48 56.56	125 32.52							
17	U5	ROS	1511	BE	164	48 57.02	125 33.01		26		1557-1565	9		
			1521	EN		48 57 03	125 33 01			20				
17	A12	ROS	1738	BE	165	48 58.41	125 07.81		99.		1566-1572	7		
			1742	BO		48 58 21	125 07 80							
			1749	EN		48 58 20	125 07 78							
17	PA1	ROS	2036	BE	166	49 13.93	124 49.05		17		1573-1576	4		
				BO										
				EN										

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YEAR			MONTH			SHIP			CRUISE			PAGE			OF
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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	
17	A0	ROS	2058	BE	167	49 12.16	124 49.02		64		1577-1585	9			
17	A1	ROS	21:26	BE	168	49 09.93	124 48.63		111	107	1586-1596	11			
			21:29	BO		49 09.89	124 48.61								
			21:37	EN		49 09.84	124 48.64								
17	PA13	ROS	21:55	BE	169	49 7.75	124 48.43		135		1597-1604	8			
			22:00	BO		7.70	48.46								
				EN											
17	A04	ROS	23:01	BE	170	49 2.71	124 51.07		289		1605-1617	13			
			23:08	BO		2.74	51.16								
			23:24	EN		2.65	51.17								
17	A05	ROS	23:48	BE	171	48 59.60	124 53.38		319		1618-1631	14		pressure spike on downcast at ~70m.	
			23:57	BO		59.58	53.39								
18			00:15	EN		59.61	53.34								
18	A07	ROS	0059	BE	172	48 57.11	125 01.29		260		1632-1643	12			
			01:04	BO		57.06	01.39			249					
			01:19	EN		57.04	01:48								

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INSTITUTE OF OCEAN SCIENCES

[illegible]

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