DAILY LOG

CRUISE NUMBER	2002-03

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE	Jan 9 to 15 2002
VESSEL	Vector
PROJECT	

Captain: DUKE SNIDER **First Officer:** _____

Second Officer: _____ **Third Officer:** _____

Mission Participants / Agencies: _____

Scientific Personnel: **Party Chief:** Patrick Cummins 8-12

Name	Watch	Cabin	Name	Watch	Cabin
Bernard Minkley	8-12				
Andrew Lee	12-4				
Magnus Eek	12-4				
Svein Vagle	4-8				
Ayala Knoff	4-8				
Burkhard Baschek					

Second leg of Mission: Party Chief: _____

Name	Watch	Cabin	Name	Watch	Cabin

Data logging computer: F501

Data acquisition program: Seasave ver. 5.24

CTD deck unit make: Seabird model: 11+ serial number: 0425

Primary CTD

Make: Seabird model: 911+ serial number: 0585

Primary temperature sensor serial number: 2038 Calibration date: _____

Primary conductivity sensor serial number: 1729 Calibration date: _____

Secondary temperature sensor serial number: 2968 Calibration date: _____

Secondary conductivity sensor serial number: can't read it Calibration date: _____

Other sensors: Fluorometer s/n: 2336 secondary pump

Other sensors: Trans s/n: 498DR

Other sensors: Oxygen SBE43 s/n: 0247 primary pump

Other sensors: " s/n: _____

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature sensor serial number: _____ Calibration date: _____

Primary conductivity sensor serial number: _____ Calibration date: _____

Secondary temperature sensor serial number: _____ Calibration date: _____

Secondary conductivity sensor serial number: _____ Calibration date: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Comments: _____

Date of cable termination: 9/1/2002

Guide to cable terminations:

Please read and complete this form before reterminating cable. We have two standard CTD cables in use, nominal .316" and .322". This form specifically addresses these two cables, however the same considerations apply to using other cables. The specifications for non-standard cables and associated terminations are available at Tom Juhasz's office (room 1221).

Please identify nominal cable diameter: .316 **Winch:** 1307

Actual diameter measurements, two locations in triplicate at termination and approximately 5 metres back from termination.

Cable cut off to find larger diameter

At cable end:	at 5 metres:	
1. .312	**1.** .310	1 .314
2. .3145	**2.** .313	2 .314
3. .313	**3.** .312	3 .313

For comparison, the outer armour measurements of new cable:

Nominal .316" should be .3155 to .3165"

Nominal .322" should be .318 to .326"

Record specifications for other cables: _____ within: _____

The tolerance of the PMI Evergrip termination is tighter and only cables within these limits should be used.

For nominal .316" cable the lowest possible diameter is .309"

For nominal .322" cable the lowest possible diameter is .321"

Describe cable:

Kinks: no

Birdcage _____

Rust flaking off cable _____ (flaking, not just looks rusty)

Cable round or oval round

Does cable have loose outer armour? no

(Raised wires or space between wires.)

Are outer armour wires flattened? no

Remove cable that exhibits these signs of deterioration. To be authorised by Chief Scientist of the cruise, or the winch shop (Tom Juhasz at 250-363-6598).

Megger results by conductor (should be greater than 10,000. meg ohms)

Inner armour to conductor 1 _____

Inner armour to conductor 2 _____

Inner armour to conductor 3 _____

Please identify PMI sleeve used by checking the appropriate blank:

For .316" cable, diameter of inner dimension of sleeve should be .3265" _____
part number 9004897–13, cable diameter range .309" to .320".

For .322" cable, diameter of inner dimension of sleeve should be .3400" _____
part number 9004897–14, cable range .321" to .333".

Sliding the sleeve onto the cable should be difficult.

Evergrip helical Rods:

The part number is 9005-9002 and covers left hand lay cables of diameter range .309" to .333".

Presence of grit on inner surface (yes / no) _____

Condition of wires (damaged ends?) _____

Are the wires rusted? _____

Comments:

_____

_____

_____

_____

_____

_____

_____

_____

_____

Date of cable termination: 9/1/2002

Guide to cable terminations:

Please read and complete this form before reterminating cable. We have two standard CTD cables in use, nominal .316" and .322". This form specifically addresses these two cables, however the same considerations apply to using other cables. The specifications for non-standard cables and associated terminations are available at Tom Juhasz's office (room 1221).

Please identify nominal cable diameter: .316 **Winch:** 1307

Actual diameter measurements, two locations in triplicate at termination and approximately 5 metres back from termination.

Cable cut off is found larger diameter

At cable end:	at 5 metres:	
1. .312	**1.** .310	1 .314
2. .3145	**2.** .313	2 .314
3. .313	**3.** .312	3 .313

For comparison, the outer armour measurements of new cable:
Nominal .316" should be .3155 to .3165"
Nominal .322" should be .318 to .326"
Record specifications for other cables: _____ within: _____
The tolerance of the PMI Evergrip termination is tighter and only cables within these limits should be used.

For nominal .316" cable the lowest possible diameter is .309"
For nominal .322" cable the lowest possible diameter is .321"

Describe cable:

Kinks: no
Birdcage _____
Rust flaking off cable _____ (flaking, not just looks rusty)
Cable round or oval round
Does cable have loose outer armour? no
(Raised wires or space between wires.)
Are outer armour wires flattened? no

Remove cable that exhibits these signs of deterioration. To be authorised by Chief Scientist of the cruise, or the winch shop (Tom Juhasz at 250-363-6598).

Megger results by conductor (should be greater than 10,000. meg ohms)

Inner armour to conductor 1 _____
Inner armour to conductor 2 _____
Inner armour to conductor 3 _____

Please identify PMI sleeve used by checking the appropriate blank:

For .316" cable, diameter of inner dimension of sleeve should be .3265" _____
part number 9004897–13, cable diameter range .309" to .320".
For .322" cable, diameter of inner dimension of sleeve should be .3400" _____
part number 9004897–14, cable range .321" to .333".
Sliding the sleeve onto the cable should be difficult.

Evergrip helical Rods:

The part number is 9005-9002 and covers left hand lay cables of diameter range .309" to .333".
Presence of grit on inner surface (yes / no) _____
Condition of wires (damaged ends?) _____
Are the wires rusted? _____

Comments:

_____
_____
_____
_____
_____
_____
_____
_____
_____

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2002 **Month** Jan **Ship** Vector **Cruise I.D.** 2002-03

Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
9	51	ROS	1932	BE	1	48 39.14	123 30.43		190		1-13	13	RM	
			1940	BO										
			1958			48 39.17	123 30.38							
9	59	ROS			2.	48 37.64	123 14.53		233					check stn ID.
										226	14-27			
9	60	ROS	2318		3	48 33.55	123.12.69		203	290				
			2327			48 33.34	123 12 69							
10	61	ROS	0008	BE	4.	48 33.21	123 12.58		289					2 bottles fired, not collected
			0013	BO		48 29.09	123 09.05							
			0022	EN		48 28.98	123 08.85							
10	103	ROS	0751	BE	5	48 32.99	124 42.69		124	112				
			0754	BO		48 33.01	124 42.62							
			0756	EN		48 32.95	124 42.55							
10	102	ROS	838	BE	6	48 30.04	124.43.88		260	250	28-42	15		
			843	BO		48 30.07	124.43 83							
			901	EN		48.30.18	124 43.77							
10	101	ROS	955	BE	7	48 25 50	124 45.10		243	230				
			1001	BO		48 25 63	125 45 13							

Cast type: BOT = ottle cast; CTD = CTD; ROS = Rosette; NET = net haul; MOR = mooring; DRF = drifter; USW = sea water loop

Time Code: BE = beginning time of cast; BO = bottom time of cast; EN = end of cast time; DE = deployment time; MR = messenger release time; RE = recover mooring time

DAILY LOG

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INSTITUTE OF OCEAN SCIENCES

Year 2002 **Month** Jan **Ship** Vector **Cruise I.D.** 2002-03

Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
10	101	ROS	1006	EN	7	48 2580	124 45 15		243	230				
10	74	ROS	10.57	BE	8	48 25 13	124 35 69		186	175				
			11.01	BO		48 2524	124 35 75							
			11 06	EN		48 25 29	124 35 65		224	215				
10	75	ROS	1135	BE	9	48 28 25	124 32 75				43-56	14		
			1139	BO		48 2828	124 32 75							
			1156	EN		48 2840	124 32 76							
10	76	CTD	1251	BE	10	48 2109	124 30 09		92	87				
			1256	EN		48 2103	124 30 06							
10	71	CTD	1533	BE	11	48 22.26	123 59.52		115	100			AK	
				BO		48 22.28N	123 59.57 W		112	106				
			1538	EN		48 22 30N	123 59.63W							
10	72	ROS	1618	BE	12	48 18.62	124 0400		191		57-69	13	RM	
			1621	BO		48 1866	124 03 98			178				
			1636	EN		48 18.78	124 03 95							
10	73	ROS	1722	BE	13	48 15.01	124 06.68		165				RM	
			1726	BO		48 15.02	124 0666		.	156				
			1729	EN		1503	06.64							

Cast type: BOT = ottle cast; CTD = CTD; MOR = mooring; ROS = Rosette; NET = net haul; DRF = drifter; USW = sea water loop

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INSTITUTE OF OCEAN SCIENCES

Year 2002 **Month** Jan **Ship** Vector **Cruise I.D.** 2002-03

Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
10	68	ROS	1918	BE	14	48 12.22	123 43.04		143			BM		
			1921	BO		48 12.26	123 43.10			131				
			1924	EN		48 12.28	123 43.13							
10	69	ROS	1948	BE	15	48 15.61	123 43.22		181		70-81	12		
			1952	BO		48 15.60	123 43.26			172				
			2004	EN		48 15.57	123 43.36		~~181~~					
10	70	ROS	2037	BE	16	48 19 23	123 43 16		154	1				
			2040	BO		48 12 23	123 43 17			145				
			2043	EN		48 19.22	123 43.18							
10	105	ROS	2247	BE	17	48 11 00	123 19 05		89					
			2249	BO		48 10 99	123 19 08			82				
			2251	EN		48 10 98	123 19 11							
10	ADCP	ROS	2325	BE	18	48 14 03	123 18 16		119		82-91	10		
			2327	BO		48 14 00	123 18 25			111				
			2337	EN		48 13 97	123 18 60							
11	104	ROS	0007	BE	19	48 1994	123 16 16		72	67				
			0009	BO		"								
			0040	EN		48 19.90	123 16.20							

Cast type: BOT = ottle cast; CTD = CTD; ROS = Rosette; NET = net haul; MOR = mooring; DRF = drifter; USW = sea water loop

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INSTITUTE OF OCEAN SCIENCES

Year 2002 | Month JANUARY | Ship VECTOR | Cruise I.D. 2002-03

Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
11	67	ROS	0116	BE	20	48 22.86N	123 18.24 W		102				AR	
			0118	BO		48 22.86N	123 18.32 W							
			0120	EN		48 22.86N	123 18.43W							
11	66	ROS	0222	BE	21	48 19.28N	123 14.27W		102	91.3				
			0224	BO						91.39				
			0226	EN		48 19.20N	123 14.58W							
11	65	ROS	0323	BE	22	48 15.85N	123 9.99 W		121		92-101			
			0326	BO		48 15.84	123 10.11			119				
			0340	EN		48 15.86N	123 10.67 W							
11.	64	ROS	0428	BE	23	48 12.83	123 05.76		108				BM	
			0431	BO		48 12.86	123 05.81			99				
			0433	EN		48 12.88	123 05.84							
11	63	ROS	0521	BE	24	48 14.67	123 58.58		154				BM	one bottle fired by mistake
			0525	BO		48 14.72	122 58.63			148				
			0528	EN		48 14.73	122 58.64							
11.	62	ROS	0634	BE	25	48 22.80	122 02.64		150		102-110	11.	BM	Backed up CTD data
			0639	BO		48 22.81	122 02.60			145				onto ZIP
			0649	EN		48 22.81	122 02.53							

Cast type: BOT = ottle cast; CTD = CTD; MOR = mooring; ROS = Rosette; NET = net haul; DRF = drifter; USW = sea water loop

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INSTITUTE OF OCEAN SCIENCES

Year 2002 **Month** 01 **Ship** VECTOR **Cruise I.D.** 2002-03

Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
11	54	ROS	0821	BE	26	48 26.75	122 44.46		78				bfee	
			0823	BO		48 26.81	122 44.50							
			0825	EN		48 26.87	122 44.54							
11	53	ROS	0910	BE	27	48 33.44	122 45.11		61				bfee	
			0911	BO		48 33.33	122 45.14							
			0913	EN		48 33.64	122 45.15							
11	52	ROS	0949	BE	28	48 39.10	122 43.08		77				bfee	
			0950	BO		48 39.17	122 43.01							
			0952	EN		48 39.26	122 42.94							
11	51	ROS	1059	BE	29	48 46.74	122 51.68		162				MacA	
			1102	BO		48 46.77	122 51.83			150				
			1105	EN		48 46.82	122 51.97							
11	56	ROS	1205	DE	30	48 46.65	123 1.55		214		113-126	14		
			1208	BO		48 46.51	123 1.50			208			AK	
			1227	EN		48 46.88	123 1.19							
11	57	ROS	1315	BE	31	48 44.01N	123 8.08W		163				AK	
			1318	BO		48 44.04N	123 8.04W			156				
			1321	EN		48 44.06N	123 7.99W							

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Year 2002 **Month** Jan **Ship** Vector **Cruise I.D.** 2002-03

Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
11	58	ROS	1356	BE	32	48 43.05N	123 14.30W		340				AR	
			1402	BO		48 43.13N	123 14.27W			329				
			1408	EN		48 43.17N	123 14.25W							
11	47	ROS	1611	BE	33	48 49.32	123 06.14		189					
			1615	BO		4933	06.03			184				
			1618	EN		49.32	05.94							
11.	44.	ROS	1712	BE	34	48 56.81	123 06.04		123					
			1715	BO		48 56.80	123 06.07			116				
			1717	EN		48 56.80	123 06.07							
11	45	ROS	1745	BE	35	48 53.88	123 08.41		131					
			1748			48 53.89	123 0842			127				
			1750			48 53.89	08.41							
11	46		1814		36	48 51.33	123 10.78		185		127-139	13		
										184.				
			1830			48 51.27	123 10.57							
11	43	ROS	2019	BE	37.	49.00 19	123 30 13		200	?				
			2023	BO		49 00 17	123 30 17			192		Wire		
			2027	EN		49 00 15	123 30 18							
11	42	ROS	2057	BE					324					

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11	42	ROS	2103	BO	38	49 01 80	123 20 33			316				
			2122	EN		49 01 77	123 26 41							
11	41	ROS	2155	BE	39	49 03 29	123 22 37		250	238				
			2159	BO		49 03 26	123 22 39							
			2203	EN		49 03 25	123 22 40							
11	37	ROS	2319	BE	40	49 13 59	123 20 70			218				
			2323	BO		49 13 55	123 20 68							
			2327	EN		49 13 53	123 20 65							
12	38	ROS	0002	BE	41	49 11.99	123 26.33							
			0008	BO		49 12.00	123 26.30		311	306			SV	
			0014	EN		49 12.01	123 26.30							
12	39	ROS	0053	BE	42	49 9.81N	123 32.99W				156-173	18	AK	hit bottom.
			0100	BO		49 9.87	123 32.97		380	377				
			0129	EN		49 9.97N	123 32.79W							
12	40	ROS	0200	BE	43	49 08.60	123 36.84		151				BM	
			0203	BO		49 08.61	123 36.86			145				
			0206	EN		49 08.62	123 36.87							

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12	26	Ros	0324	BE	44	49 14.28N	123 50.88W		255				SV+AC	
			0329	BO		49 14.27N	123 50.92W			245				
			0334	EN		49 14.30N	123 50.96W							
12	27	ROS	0438	BE	45	49 19.17	123 48.07		347		174-189	16		
			0447	BO		49 19.23	123 48.37			334.				
				EN										
12	28	Ros	0547	BE	46	49 24.22	123 45.21		136					
			0551	BO		49 24.26	123 45.13			137				
			0553	EN		49 24.28	123 45.02							
12	25	Ros	0742	BE	47	49 27.68	124 07.43		297				BM	
			0748	BO		49 27.67	124 07.29			306				
			0754	EN		49 27.64	124 07.29							
12	2	Ros	0830	BE	48	49 24 13	124 09 30		282		190-204		MGeh	sample 209 lost
			0834	BO		4924 16	124 09 35			268				
				EN		4924 18	124 09 57							
12	1	Ros	0932	BE	49	49 20 34	124 12 18		250					
			0937	BO		49 20 46	124 12 34			240				
			094	EN		49 20 44	124 12 50							
12	4	Ros	1034	BE	50	49 24 53	124 22 21		344					

Cast type: BOT = ottle cast; CTD = CTD; MOR = mooring; ROS = Rosette; NET = net haul; DRF = drifter; USW = sea water loop

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12	4	ROS	1040	BO	50	49 24 60	124 22 36		3[illegible]	329				
			1045	EN		49 24 66	124 22 35							
12	3	ROS	1112	BE	51	49 26 62	124 20 23		325		205-220			transmissometer wiped
			1117	BO		49 26 67	124 20 34							prior to cast.
			1137	EN		49 26 88	124 20 66							sample 220
12	5	ROS	1230	BE	52	49 27.37N	124 30.78W		320				AK/SV	
			1231	BO		49 27.33N	124 30.78W							
			1236	EN		49 27.27N	124 30.80W							
12	6	ROS	1307	BE	53	49 30.67N	124 27.79W		196		221-233	13	SV/AK	
			1311	BO		49 30.77N	124 27.77W			195				
			1330	EN		49 31.07	124 27.82							
12	7	ROS	1406	BE	54	49 34.41	124 24.17		356				SV/AK	
			1412	BO		49 34.04	124 24.20			340				
			1419	EN		49 34.30	124 24.27							
12	8	ROS	1521	BE	55	49 39.35N	124 33.13W		349				SV/AK	
			1527	BO		49 39.31	124 33.05			~333				
			1533	EN		49 39.27	124 32.99							

Cast type: BOT = ottle cast; CTD = CTD; MOR = mooring; ROS = Rosette; NET = net haul; DRF = drifter; USW = sea water loop

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12	9	ROS	1616		56	49 35.50	124 38.30		170		234-245	12		
			1620			49 35.49	124 38.31							
			1632			49 35.43	124 38.25							
12	10	ROS	1730		57	49 40.68	124 47.29		97					
			1732			49 40.66	124 47.30			89				
			1734			49 40.65	124 47.32							
12	11		1805		58	49 42.42	124 43.49		304					Backed up CTD data onto zip disk.
			1811			49 42.44	124 43.60			292				
			1816			49 42.45	124 43.67							
12	12		1839		59	49 43.60	124 40.82		358		246-261	16		
			1845			49 43.58	124 40.86			350				
			1904			49 43.57	124 40.95							
12	15		2035	BE	60	49 51 60	125 01 63		129	120				
			2054	BO		49 51 59	125 01 62							
			2100	EN		49 51 57	125 01 59							
12	14		2124	RE	61	49 53 01	124 59 58		318		262-276			
			2129	BO		49 52 98	124 59 58			300				
			2146	EN		49 52 85	124 59 52							
12	13	ROS	2221	BE	62	49 56 28	124 55 25		235					

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2002 **Month** Jan **Ship** Vector **Cruise I.D.** 2002-03

Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
12	13	ROS	2226	BO	62	49 55 29	124 55 25			223	/		MEdl	
		|	2230	EN		49 55 31	124 55 23				/			
12	18	|	2306	BE	63	49 59 25	124 58 96		147		/			
		|	2309	BO		49 59 24	124 59 07			143	/			
		|	2313	EN		49 59 25	125 59 07				/			
12	19	|	2353	BE	64	50 01 20	124 52 94		285		/			hit bottom, and got into oxygen sensor.
13		|	0003	BO		50 1.17	124 52.95			275	/			
		|	0006	EN		50 1.15N	124 52.95W				/			
13	17	|	0101	BE	65	4958.80	125 4.50		274				SV/AK	
		|	0109	BO		4958.85	125 4.61			270	/			
		|	0114	EN		4958.88	125 4.74				/			
13	16	ROS	0139	BE	66	49 57.71N	125 8.94 W		158		277-287	11	SV/AK	
			0142	BO		4957.69	125 9.03			143				
			0156	EN		4957.69	125 9.21							
13	21	ROS	0233	BE	67	50 2.31	125 13.86		81		/		SV/AK	
			0235	BO		50 2.43	125 13.95			73	/			
			0237	EN		50 2.58	125 14.04				/			

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2002 | Month January | Ship Vector | Cruise I.D. 2002-03

Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
13	23	ROS	0648	BE	68	50 15.74	125 22.98		246		288-301	14	RM	
			0654	BO		50 15.83	125 22.95			232				
			0706	EN		50 15.81	125 22.85							
13	20	ROS	1136	BE	69	49 47.17	124 32.25		314					
			1143	BO		49 47.16	124 32.17			300				
			1148	EN		4947.01	124 32.06							
13	22	ROS	1303	BE	70	49 40.18	124 16.28		358					
			1310	BO		49 40.08	124 16.15			334				
			1316	EN		49 40.04	124 16.11							
13	24	ROS	1429	BE	71	49 20.25	124 6.02		430					Backed up CTD data onto zip disk.
			1437	BO		49 20.16	124 6.02			405				
			1445	EN		49 20.14	124 6.06							
13.	39	ROS	1745	BE	72	49 09.80	123 33.02		380		302-318	17.		
			1752	BO		49 09.79	123 33.03			370				
			1812	EN		49 09.81	123 33.11							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2002 **Month** JANUARY **Ship** Vector **Cruise I.D.** 2002 - 03

Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
14	P7		0156	DE	73	48 48.74	122 59.10		193	190				
			0201	BO		48 48.64	122 59.97							
			0204	EN		48 48.60	122 59.74							
	P1		0250	BE	74	48 46.60	123 00.96		192	180				
			0254	BO		48 46.52	123 01.05		1	180				
			0257	EN		48 46.46	123 01.14							
14	P1-P7	towyo	1001	BE	75	48°N 47.39	123°W 0.26							#
			1004			48°N 47.52	123°W 0.18							@ 180 m
			1008			48°N 47.63	123°W 0.10							@ 10 m
			1010			48°N 47.77	123°W 0.02							@ 100 m
			1012			48°N 47.87	122°W 59.93							@ 10 m
			1013			48°N 47.96	122°W 59.87							@ 50 m
			1014			48°N 48.08	122°W 59.79							@ 10 m
			1015			48°N 48.17	122°W 59.73							@ 50 m
			1016			48°N 48.25	122°W 59.66							@ 10 m
			1019			48 N 48.46	122°W 59.43							@ 130 m
			1022			48 N 48.54	122°W 59.36							@ 10 m
			1024			48 N 48.69	122°W 59.31							@ 180 m
			1026	EN		48 N 48.73	122°W 59.22							#

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
14	50	CTD	1749	BE	77	48 57.60	122 56.09		30					
			1751	BO		48 57.61	122 56 09			26				
			1752	EN										
14	49	CTD	18:25	BE	78	48 54.94	122 59.63		126	130				
			18:28	BO										
15	48	CTD	04:22	BE	79	48 54.80	122 59.54		230	220				
			04:26	BO										
15	P4	CTD	04:56	BE	80	48 51.70	123 3.03		228	215				
			05:03	BO		48 49.46	123 0.81							
15	P1	CTD	0537	BE	81	48 49.89	123 01,02		188	150				
			05:46	BO		48 46.39	123 1.03							
15	P8	CTD	0600	BE	82	48 49.45	122 59.01		220					
				BO		48 49.30	122 58.75			190				
			06:06	EN		48 49.21	122 58.52							
15	P8	CTD	09:41	BE	83	48 49.20	122 58.50		214					
			09:45	BO		48. 48.43	122 59.78							

Cast type: BOT = ottle cast; CTD = CTD; MOR = mooring; ROS = Rosette; NET = net haul; DRF = drifter; USW = sea water loop

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