

DAILY LOG BOOK

MISSION
NUMBER

2009-26

DATE:

From: 11 APRIL 2009 to:

VESSEL:

CCGS VECTOR

PROJECT:

STRAIT OF GEORGIA / JUAN DE FUCA
WATER PROPERTIES SURVEY

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

Captain: DON LEE First Officer: RHONDA LETTAU
Second Officer: TOLY Third Officer: _____

Mission Participants / Agencies:

[illegible][illegible]

Data logging computer:

Data acquisition program: *Seasave*

CTD deck unit make: S&E model: 11-plus serial number: 0424

Primary CTD

Make: 5BX model: 9 serial number: 0550

Primary temperature serial number: 4883

Primary conductivity serial number: 1763

Secondary temperature serial number: 2095

Secondary conductivity serial number: 2754

Transmissometer:

Transmissometer: _____ Model: _____
s/n: 1005dr

Fluorometer: Model Seapoint Cable gain: (x10) (x3) s/n: SCF 2355 P S or NO pump?

Oxygen sensor: 5BE Model: 43 s/n: 1119

PAR sensor: Biospherical Model: QSP-200L s/n: 4565

Other sensors: Reference Par QSR2240 s/n: 16504 P. S or NO pump? NO

Other sensors: _____

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____ s/n: _____
P, S or NO pump? _____ s/n: _____
P, S or NO pump? _____ s/n: _____

Secondary CTD (Not used)

Make: SBE model: 9 serial number: 0443

Primary temperature serial number: 20323

Primary conductivity serial number: 2122

Secondary temperature serial number: 2449

Secondary conductivity serial number: 2424

Transmissometer: N/A Model:

Fluorometer: Model	Seapoint	Cable gain:	s/n: 7770
			s/n:

Oxygen sensor:	5B/E	Model:	43	s/n:	0997
			Caustic gain:	S.II.	1228

PAR sensor: 201 Model: 1 s/n: 0441

Other sensors: _____ S/n: _____

Other sensors: _____ S/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

CTD calibration bottle location (height above CTD in metres):

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>APRIL</u>				Year <u>2009</u>			Ship <u>VECTOR</u>				Cruise ID <u>2009-26</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
11	SI	2150	BC	ROS		001	40°38' 86	123° 29.64	139	100	1-9	9	HM/RF	✓	
		2200	BO				40° 38' 87	123° 29.65							
		2210	EN				40° 38' 89	123° 29.64							
11	58	2345	BC	CTD		002	48°43' 02	123° 14' 22	338		—	0	HM/RF	✓	
		2353	BO				48° 43' 04	123° 13' 96		310					
12		0001	EN				48° 43' 07	123° 13' 78							
12	59	0054	BC	ROS		003	48°37' 84	123° 14.62	232		10-23	14	HM/RF	✓	
		0101	BO				48° 37' 94	123° 14.68							
		0119	EN				48°38'377	123° 14.856							
12	60	02:04	BC	CTD		004	48°33'96	123° 12.84	291			0		✓	
		02:11	BO				48°34.00	123° 12.86		286			AL 8/11		
		02:19	EN				48°34.05	123° 12.90							
12	61	03:12	BC	CTD		005	48°29'29	123° 9.19	238					✓	shelley
		03:19	BO				48°29'31	123° 9.20		236					
		03:25	EN				48°29'31	123° 9.25							

Cast type:

BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

US = up/stop
UN = up/no stop
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Time Code

BE = beginning time of cast
MR = messenger release time
RE = recover mooring time

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Transmissometer to be cleaned for each cast, do not use Ammonia products

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11 APRIL - LOCAL TIME

1400 - TEST CAST AT JETTY

- CONFIRM APT LUNCH CONNECTIONS GOOD (RESPUNDS BY ROW & SCOTT) -

- PAR / SURFACE PAR ~ ORDER OF MAGNITUDE

- REMOTE DEPTH READOUT NOT WORKING

- BOTTLE 21 DID NOT TRIP (OKAY JUST NOT SET RIGHT)

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
12	67	03:25	BE	CTD		006	48°22.76	123°18.06	108	102			RL&MH	✓	
		04:29	BO				48°22.76	123°18.11		102					
		04:33	EN	CTD			48°22.76	123°18.21							
12	104	04:56	BE			007	48°19.98	123°17.957	85				RL&MH		
		04:58	BO				48°19.97	123°17.947		80					
		05:00	EN				48°19.976	123°17.948							
12	ADCP	05:52	BE	ROS		008	48°13.90	123°17.90	121				RL&MH	✓	
		05:56	BO				48°14.00	123°18.08		116					
		06:08	EN				48°13.99	123°18.34							
12	105	06:40	BE	CTD		009	48°10.99	123°19.06	85				RL&MH	✓	
		06:44	BO				48°11.00	123°19.06		80					
		06:47	EN				48°11.00	123°19.05							
12	68	08:32	BE	CTD		010	48°12.21	123°42.98	140				RL&MH	✓	
		08:38	BO				48°12.22	123°43.00		132					
		08:42	EN				48°12.21	123°42.99							
12	69	09:12	BE	ROS		11	48°15.647	123°43.243	180		34-45	12	RL&MH	✓	
		9:18	BE				48°15.643	123°43.229							
		9:34	EN				48°15.629	123°43.200							

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189
 in data file *

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year				Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments	
12	70	10:12	BE	CTD	12		48 19 216	123 43 212	150				BOT	✓		
		10:16	BO				48 19 207	123 43 206		146						
		10:20	EN				48 19 206	123 43 200								
12	71	11:37	BE	CTD	13		48 22 200	123 59 270	109	105			BOT	✓		
		11:42	BO				48 22 189	123 59 324		105						
		11:45	EN				48 22 192	123 59 370								
12	72	12:35	BE	ROS	14		48 18 605	124 4 025	189		46-58	13	BOT	✓		
		12:41	BO				48 18 569	124 4 021		184						
		12:57	EN				48 18 551	124 4 034								
12	73	13:31	BE	CTD	15		48 14 992	124 6 753	160				MM	✓		
		13:35	BO				48 14 976	124 6 796		157						
		13:40	EN				48 14 968	124 6 834								
12	74	15:41	BE	CTD	16		48 25 126	124 35 694	185				BOT	✓		
		15:43	BO				48 25 147	124 35 675		182						
		15:49	EN				48 25 151	124 35 639								
	75	16:18	BE	ROS	17		48 28 228	124 32 863	224		59-72	14	MM	✓		
		16:22	BO				48 28 224	124 32 860		218						
		16:37	EN				48 28 229	124 32 802								

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APR				2009			VECTON				2009-26				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
12	76	17 06	BE	CTD		18	48 31.29	124 29.98	91		—	0	H.M./R.F.	X	
		17 09	BO				48 31.31	124 30.00							
		17 10	EN				48 31.33	124 30.04							
12	103	18 07	BE	CTD		19	48 33 103	124 42 914	115		—	0	H.M./R.F.	✓	
		18 09	BO				48 33 102	124 42 926	116	110					
		18 11	EN				48 33 085	124 42 943							
12	102	18 47	BE	ROS		20	48 30 113	124 44 035	254		73-87	15		✓	
		18 51	BO				48 30 10	124 44 22		248					
		19 04	EN				48 30 064	124 44 710							
12	101	20 17	BE	CTD		21	48 25 573	124 45 203		250		0		✓	
		20 21	BO				48 25 576	124 45 233		248					
		20 26	EN				48 25 538	124 45 256							
	SPRINKLES ON														
13	66	02:12	BE	CTD		022	48°19.23	123°14.07	102	112			RL/MH		
		02:15	BO				48°19.24	123°14.03		97					
		02:17	EN				48°19.25	123°13.95							

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Month April				Year 2009				Ship Vector				Cruise ID 2009-26			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13	65	03:00	BE	ROS		23	48° 15.97	123° 09.90	125		88-97	10	RL/MH		
		03:04	Bo				48° 15.96	123° 09.44		122					
		03:13	EN				48° 15.98	123° 09.80							
	64	04:14		CTD		24	48 12.905	123 5.880	100				RL/MH		
		04:16					48 12.941	123 5.840		101					
		04:18					48 12.947	123 5.816							
	63			CTD		25	48	123	154				RL/MH	✓	weights on
							48	123							cast abandoned
							48	123							communication error
13	62	09:28	BE	ROS		26	48° 22.839	123° 2.610	149		98-108	11	DT/MH	✓	- 2 gear down + up again on
		09:30	Bo				48° 22.837	123° 2.610		145					
		09:43	EN				48° 22.841	123° 2.617							
13	54	11:39	BE	CTD		27	48 26.549	122 44.268	77				RL/MH	✓	
		11:41	Bo				48 26.538	122 44.238		74					
		11:43	EN				48 26.537	122 44.240							

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- communication error with later sample -
- communication to CTD unit intermittent
 - check connectors - Comm okay using striding wire
 - check primary wire - CTD plugs okay

With CTD - consider problem with termination of wire line

- reterminate CTD wire

- further bolts a socket supplied

- finished 08:00 UTC - Back to 62.

DAILY LOG

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INSTITUTE OF OCEAN SCIENCES

Month <i>April</i>				Year <i>2009</i>			Ship <i>Volta</i>				Cruise ID <i>2009-26</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13	53	1232	BE	CTD		28	48 33 023	122 44 948	57				THOT	✓	
		1234	BO				48 33 194	122 44 945		55					
		1235	EN				48 33 186	122 44 941							
13	52	1318	BE	CTD		29	48 38 904	122 43 352	91				THOT	✓	
		1326	BO				48 38 886	122 43 346		86					
		1322	EN				48 38 882	122 43 357							
	51	1436	BE	CTD		30	48 46 668	122 51 437	157				THOT	✓	
		1439	BO				48 46 652	122 51 390		150					
		1442	EN				48 46 643	122 51 330							
13	56	1545	BE	ROS		31	48 46 382	123 1 576	214		109-122	14	THOT	✓	
		1550	BO				48 46 319	123 1 549		218					
		1604	EN				48 46 140	123 1 546							
13	57	1636	BE	CTD		32	48 44 002	123 8 124	159				THOT	✓	
		1639	BO				48 43 992	123 8 153		158					
		1642	EN				48 43 990	123 8 191							
13	47	1830	BE	CTD		33	48° 49.25	123° 06.07	183		—	—	AM/RF.	✓	
		1833	BO				48° 49.25	123° 05.99		175					
		1837	EN				48° 49.24	123° 05 92							

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Month APRIL			Year 2009			Ship VECTOR			Cruise ID 2009-26						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13	48	1902	BC	CTD		34	48° 51.62	123° 03.14	210		—	—	H.M./R.F.	✓	
		1907	BO				48° 51.57	123° 03.16		193					
		1910	GN				48° 51.51	123° 03.03							
13	49	1946	BC	CTD		35	48° 54.88	122° 59.67	133		—	—	H.M./R.F.	✓	
		1949	BO				48° 54.89	122° 59.62		12					
		1951	GN				48° 54.89	122° 59.57							
13	50	2030	BC	CTD		36	48° 57.58	122° 56.08	24					✓	
		2031	BO				48° 57.57	122° 56.08							
		2032	GN				48° 57.58	122° 56.07							
13	44	2124	BC	CTD		37	48° 56.81	123° 05.97	119		—	—	H.M./R.F.	✓	
		2132	BO				48° 56.79	123° 05.97		115					
		2134	GN				48° 56.79	123° 05.98							
13	45	2159	BC	CTD		38	48° 53.88	123° 08.44	126		—	—	H.M./R.F.	✓	
		2202	BO				48° 53.87	123° 08.46		120					
		2204	GN				48° 53.86	123° 08.47							
13	46	2224	BC	ROS		39	48° 51.41	123° 10.84	176		123-134	12	H.M./R.F.	✓	CHANGE FLOUREMETER CABLES TO 3.0 X 10 GAIN
		2228	BO				48° 51.40	123° 10.86							
		2240	GN				48° 51.44	123° 10.90							

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→ change in Com FILE made after cast

osso ctd. con
lowering now 3x

DAILY LOG

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Month <i>April</i>				Year <i>2009</i>				Ship <i>Vector</i>				Cruise ID <i>2009-26</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
<i>14</i>	<i>43</i>	<i>00:18</i>	<i>BG</i>	<i>CTD</i>		<i>40</i>	<i>49°00.27</i>	<i>123°30.19</i>	<i>197</i>		<i>—</i>	<i>—</i>	<i>H.M./R.F.</i>	☒	
		<i>00:22</i>	<i>BO</i>				<i>49°00.25</i>	<i>123°30.21</i>		<i>191</i>					
		<i>00:25</i>	<i>EN</i>				<i>49°00.24</i>	<i>123°30.23</i>							
<i>14</i>	<i>42</i>	<i>01:13</i>	<i>BG</i>	<i>ROS</i>		<i>41</i>	<i>49°1.95</i>	<i>123°26.258</i>	<i>320</i>	<i>3/5</i>	<i>135-150</i>	<i>16</i>	<i>RL/MT</i>	☒	
		<i>01:18</i>	<i>BO</i>				<i>49°1.87</i>	<i>123°26.31</i>		<i>3/5</i>					
		<i>01:36</i>	<i>EN</i>				<i>49°1.9</i>	<i>123°26.63</i>							
<i>14</i>	<i>41</i>	<i>02:13</i>	<i>BG</i>	<i>CTD</i>		<i>42</i>	<i>49°3.25</i>	<i>123°22.79</i>	<i>246</i>				<i>RL/MT</i>	☒	
		<i>02:17</i>	<i>BO</i>				<i>49°3.25</i>	<i>123°22.40</i>		<i>242</i>					
<i>1</i>		<i>02:22</i>	<i>EN</i>				<i>49°3.26</i>	<i>123°22.46</i>							<i>SYLWES ON</i>
<i>14</i>	<i>37</i>	<i>03:31</i>	<i>BG</i>	<i>CTD</i>		<i>43</i>	<i>49°13.54</i>	<i>123°20.68</i>	<i>214</i>				<i>RL/MT</i>	☒	<i>SYLWES OFF</i>
		<i>03:34</i>	<i>BO</i>				<i>49°13.5</i>	<i>123°20.6</i>		<i>207</i>					
		<i>03:38</i>	<i>EN</i>				<i>49°13.5</i>	<i>123°20.6</i>							
<i>14</i>	<i>38</i>	<i>04:11</i>	<i>BG</i>	<i>CTD</i>		<i>44</i>	<i>49°11.96</i>	<i>123°26.34</i>	<i>309</i>				<i>RL/MT</i>	☒	
		<i>04:17</i>	<i>BO</i>				<i>49°11.97</i>	<i>123°26.32</i>		<i>304</i>					
		<i>04:22</i>	<i>EN</i>				<i>49°12.01</i>	<i>123°26.30</i>							
<i>14</i>	<i>39</i>	<i>05:18</i>	<i>BG</i>	<i>ROS</i>		<i>45</i>	<i>49°9.87</i>	<i>123°33.09</i>	<i>380</i>		<i>151-167</i>	<i>17</i>	<i>RL/MT</i>		<i>Rosette ~1m below surf.</i>
		<i>05:24</i>	<i>BO</i>				<i>49°9.89</i>	<i>123°33.07</i>		<i>374</i>					<i>Rough Seas</i>
		<i>05:46</i>	<i>EN</i>				<i>49°9.86</i>	<i>123°33.06</i>							

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							Latitude	Longitude							
14	40	06:30	BG	CTD		46	49° 08.58	123° 36.80	154				RL/MA	✓	
		06:34	BO				49° 08.50	123° 36.80		150					
		06:37	EN				49° 08.59	123° 36.82							
14	26	07:52	BG	CTD		47	49° 14.27	123° 50.77	246				RL/MA	✓	
		07:57	BO				49° 14.29	123° 50.78		245					showed 4m from Bottom
		08:01	EN				49° 14.30	123° 50.75							
14	27	08:40	BG	ROS		48	49° 19.14	123° 48.01	348				RL/MA	✓	
		08:46	BO				49° 19.16	123° 48.02		344					
			EN												
14	28	9 43	BE	CTD		49	49 24 067	123 45 338	134				RL/MA	✓	INSTALLED 10x Cable DID NOT CHECK Con. file
		9 46	BO				49 24 089	123 45 351		130					
		9 49	EN				49 24 095	123 45 354							
14	24	11 24	BE	CTD		50	49 30 293	124 59 93	428				RL/MA	✓	
		11 30	BO				49 30 286	124 60 18		423					
		11 38	EN				49 30 289	124 59 89							
14	25	12 02	BE	CTD		51	49 27 754	124 7 561	280				RL/MA	✓	
		12 08	BO				49 27 743	124 7 530		284					
		12 13	EN				49 27 721	124 7 555							

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- Forgot to chg con. file for Flor. cable X10.
- Chgd cable from X3 To X10. Noticed con file was set to 30x. "NOT 3x"
- Con. file now set To X10. + X10 cable installed.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>April</i>				Year <i>2009</i>				Ship <i>Vector</i>				Cruise ID <i>2009-26</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
14	2	12 42	BE	ROS		52	49 24 101	124 9 347	278		184-198	15	PHOT	✓	changed flow from 10x
		12 47	BO				49 24 077	124 9 378		275					+ 3x cable
		13 03	EN				49 24 074	124 9 343							
14	1	13 36	BE	CTD		53	49 20 310	124 12 095	248				PHOT	✓	windy
		13 41	BO				49 20 345	124 12 065		245					
		13 45	EN				49 20 350	124 12 022							
14	4	14 37	BE	CTD		54	49 24 520	124 22 039	348				PHOT	✓	
		14 43	BO				49 24 476	124 22 994		325					
		14 48	EN				49 24 460	124 21 944							
14	3	15 08	BE	CTD		55	49 26 604	124 20 190	325		199-214	16	PHOT	✓	BOTH 16 didn't fill bottles 16 filled
		15 14	BO				49 26 628	124 20 182		318					with bucket at surf
		15 31	EN				49 26 630	124 20 358							
14	5	16 23	BE	CTD		56	49 27 418	124 30 787	319				PHOT	✓	
		16 29	BO				49 27 395	124 30 767		312					
		16 35	EN				49 27 455	124 30 704							
14	6	17 01	BE	ROS		57	49 30 595	124 27 805	193		215-227	13			
		17 05	BO				49 30 605	124 27 809		187					
		17 17	EN				49 30 605	124 27 882							

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- net tow - bottom & back

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
14	6	1730	BC	NET		58	49° 30.60	124° 27.88	193	185					SCORE NET
14	7	1817	BC	CTD		59	49° 34.42	124° 24.21	353		—	—	HM/R.F.	✓	
		1820	BO				49° 34.43	124° 24.20							
		1826	GM				49° 34.42	124° 24.18							
14	9	1931	BC	ROS		60	49° 35.52	124° 38.26	168		228-239	12	HM/R.F.	✓	
		1934	BO				49° 35.52	124° 38.25							
		1947	GM				49° 35.53	124° 38.26							
14	8	20:26	BE	CTD		61	49° 39.27	124° 33.08	338	331	—	—	HM/R.F.	✓	
		20:32	BO				49° 39.25	124° 33.07							
		20:38	EN				49° 39.22	124° 33.08							
14	10	21:45	BE	CTD		62	49° 40.67	124° 47.36	88	83	—	—	HM/BF	✓	
		21:47	BO				49° 40.67	124° 47.36							
		21:48	EN				49° 40.65	124° 47.36							
14	11	22:13	BE	CTD		63	49° 42.41	124° 43.43	300	294	—	—	HM/R.F.	✓	
		22:17	BO				49° 42.40	124° 43.46							
		22:22	EN				49° 42.36	124° 43.43							
14	12	22:41	BE	ROS		64	49° 43.60	124° 40.87	353		240-256	17	HM/R.F.	✓	
		22:48	BO				49° 43.60	124° 40.90		348					
		23:07	EN				49° 43.62	124° 41.21							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>APRIL</u>				Year <u>2009</u>			Ship <u>Vector</u>				Cruise ID <u>2009-26</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
15	13	0038	BG	CTD		65	49°55.31	124°55.21	235		—	—	H.M/R.F.	✓	
		0043	BO				49°55.31	124°55.23		229					
		0047	EN				49°55.30	124°55.22							
15	14	0115	BG	ROS		66	49°53.00	124°59.61	315		257-272		RLMH	✓	Phyto
		0120	BO				49 52.9	124 59.63		310					Bottle 13 leaked
		0137	EN				49 52.98	124 59.75							
15	15	02:01	BG	CTD		67	49 51.6	125°1.6	123					✓	
		02:03	BO				49° 51.61	125° 1.63		119					
		02:05	EN				49 51.62	125° 1.64							
15	16	04:40	BG	ROS		68	49 51.67	125 8.79	158				RLMH	✓	RETERMINATED
		04:44	BO				49 51.60	125 8.79		152					Sea cable 21.5MRS
		04:53	EN				49 57.45	125 8.7							
15	21	05:37	BG	CTD		69	50° 1.94	125°13.55	73				RLMH	✓	
		05:35	BO				50° 1.94	125° 13.54		72					
		05:37	EN				50° 1.94	125° 13.53							
15	17	06:35	BG	CTD		70	49°58.79	125° 4.37	268				RLMH	✓	
		06:41	BO				49°58.8	125° 4.42		264					
		06:48	EN				49°58.8	125° 4.42							

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- Communications error showed up at the end of event # 67
- Deck unit alarm - human error.

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

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							Latitude	Longitude							
15	18	07:26	BE	CTD		71	49°59.1	124°58.92	148		—	—	RL+MH	✓	
		07:30	BO				49°59.17	124°58.91		145					
		07:33	EN				49°59.19	124°58.91							
15	19	08:13	BE	CTD		72	50°1.18	124°52.88	270		—	—	RL+MH	✓	
		08:19	BO				50°1.19	124°52.91		267					
		08:25	EN				50°1.20	124°52.86							Syringes on !!
15	20	10:40	BE	CTD		73	49 47.209	124 32.312	307				RL+MH	✓	
		10:48	BO				49 47.216	124 32.346		316					
		10:55	EN				49 47.232	124 32.416							
15	22	12:17	BE	CTD		74	49 40.147	124 16.387	352				RL+MH	✓	
		12:25	BO				49 40.178	124 16.338		347					
		12:33	EN				49 40.186	124 16.286							
15	CEP 1	14:30	BE	NET		75	49 22.04	124 05.13	245	240			H.M		SCOR NET
15	CEP 1	16:41	BE	NET		76	49 14.98	123 44.97	405	400			H.M		SCOR NET

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