

DAILY LOG BOOK

MISSION
NUMBER

2007-61

DATE:

From: 1 OCT 2007 to: 5 OCT 2007

VESSEL:

VECTOR

PROJECT:

SoG - JdF

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

Captain: Don Hardy First Officer: _____
Second Officer: _____ Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel: _____
Name: _____
Party Chief: PETER CHADLER

[illegible]

Second leg of Mission:

[illegible]

Data logging computer:

PAC 02570

Data acquisition program: SEASAVE

SEASIDE

CTD deck unit make: SEABIRD model: 911 serial number: 0619

Primary CTD

Make: SEA BIRD model: 911 serial number: _____

Primary temperature serial number: 2106

Primary conductivity serial number:	1766
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Secondary temperature serial number: 4752

Secondary conductivity serial number: 2399

Transmissometer: CHELSEA Model: s/n: 953 DB

Fluorometer: Model SEAPOINT Cable gain: 10x0-15_u s/n: 2228 P or NO num? 2228
 S.I.I. 123 DA

Oxygen sensor: 2500000 Cable gam. 080-124 s/n: 2728 P, S or NO pump: 2728

Oxygen sensor: Model: SBE s/n: 1119 P, S or NO pump: 1119

PAR sensor: _____ Model: LICOR s/n: 4615
 PAR sensor: _____ Model: SDE s/n: 1119
 F, S or NO pump: _____

Other sensors: ALTIMETER FLCIN S/L 4613 P S or NO numb?
s/n: 1252

Other sensors: SPAR

s/n: 1632 I, S or NO pump? P, S or NO pump?

s/n: 16504 P, S or NO pump?

Other sensors:

r, s or NO pump: 100% s/n: _____

P S or NO pump? 100% s/n: _____

Other sensors: _____

_____ s/n: _____

_____ s/n: _____

_____ P, S or NO pump?

_____ P, S or NO pump?

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer: _____
Model: _____

Fluorometer: Model _____ Cable gain: _____
Model: _____

Oxygen sensor: _____ Cabic gall: _____
Model: _____

PAR sensor: _____ Model: _____
PAR sensor: _____ Model: _____

Other sensors: _____

Other sensors:

Other sensors:

Other sensors:

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

Rosette Setup:

Number of bottles: 24
Manufacturer: Ocean Sc.
Volume of Bottles (litres): 20

Winches:

1. Make:	Model:	Serial #:	used for:
2. Make:	Model:	Serial #:	used for:
3. Make:	Model:	Serial #:	used for:

Comments on performance during cruise:

Salinometer: No

Make: _____ Model: _____ Serial #: _____
Comments on performance during cruise:

Oxygen Kit # 4

Comments on performance of kit and chemicals:

Thermosalinograph System: No

Program: _____ Version: _____
Sampling interval (seconds): _____
Fluorometer sensor serial number: _____

Comments on performance during cruise:

ADCP Setup: No

Computer time zone: _____ User Exits: Name: _____ Exit Points: _____
Sampling interval (seconds): _____ Name: _____ Exit Points: _____
Bin Length (2^x): _____ Name: _____ Exit Points: _____
Pulse Length: _____ Work File: _____
Buffer (bytes): _____
Gyro Offset: _____

Comments:

CTD Test Cast Information

Test Cast at IOS Jetty? (optional) yes ☐ no ☒

Comments: (i.e. how did everything work??)

Test cast in Saanich Inlet? (recommended) yes ☒ no ☐

If no, give reason:

Comments: (i.e. how did everything work??)

CTD pressure reading on deck (db): 0.3
(Should be 0.0 db $\pm$ 0.5)

Pumps working? yes ☒ no ☐
(i.e.. Was the red LED display on the deck unit 0011 and not still 0010?)

Secondary Temp- Primary Temp: close to 0
(Average from the Mixed Region)

Secondary Salinity- Primary Salinity: close to 0
(Average from the Mixed Region)

Additional Comments:

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Month 10				Year 2007			Ship Vector				Cruise ID 2007-61				
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							
01	51	2235	BE	ROS	UP	1	48 39.38	123 30.05	180		1-2	2	IT	✓	2 files 1 up
		2242	BO			2	48 39.40	123 30.07		171	-				1 down
		2249	EN				48 39.402	123 30.150				-			
2	58	00:22	BE	CTD	-	3	48 43.00	123 14.255	338		-		HAB	✓	
		00:29	BO				48 43.021	123 14.245		325		-			
		00:37	EN				48 43.997	123 14.228							
2	59	120	BE	ROS	UP	4	48 37.789	123 14.570		232	3-16	14	MHA	✓	
		126	BO				48 37.739	123 14.557							
		140	EN				48 37.7	123 14.472							
2	60	210	BE	CTD	-	5	48 33.919	123 12.790	290		-	-	HAB/DT	✓	
		217	BO				48 33.866	123 12.726							
		225	EN				48 33.848	123 12.726							
2	61	0314	BE	CTD	-	6	48 29.297	123 9.260	270		-	-	VF/RK	✓	forgot depth in header file
		0320	BO				48 29.323	123 9.300		260					
		0326	EN				48 29.293	123 9.335							
2	101	1721	BE	CTD	-	7	48 25.420	124 45.108	237		-	-	VF/RK	✓	
		1727	BO				48 25.412	124 45.125							
		1733	EN				48 25.445	124 45.140		230					

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* Left the syringes off the CTD in between the stations. Oxy sensor cover not used either.
S-S.

15 05 PDT DEPART PAT BAY - PROCEED TO SAANICH INLET STATION

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2	102	18:14	BE	ROS	US	8	48 30.007	124 43.950	256		18-31	14	VF/RK	✓	Bot. 9 did not
		1820	BO				48 30.055	124 43.976		250					trip - trigger
		1837	EN				48 30.110	124 43.892							arm not set properly, clicked
2	103	1913	BE	CTD	—	9	48 33.23	124 42.98	112	106	—	—	ST/NC	✓	down when pushed RK.
		1917	BO				48 33.27	124 43.02							
		1919	EN				48 33.31	124 43.03							* —————→
2	76	2028	BE	CTD	—	10	48 31.28	124 30.15	97		—	—	ST/NC	✓	took altimeter off
		2032	BO				48 31.28	124 30.12		90					for repair + to
		2034	EN				48 31.28	124 30.11							change cables. Pins
2	75	2107	BE	ROS	US	11	48 28.25	124 32.78	220		32-45			✓	are really hooked.
		2114	BO				48 28.30	124 32.78		215					(no, not because
		2129	EN				48 28.34	124 32.78							I bent them!) ss
2	74	2203	BE	CTD	—	12	48 25.11	124 35.60	192		—		ST	✓	
		2208	BO				48 25.10	124 35.61		185					
		2212	EN				48 25.10	124 35.60							
3	73	00:35	BE	CTD	—	13	48 15.002	124 6.684	160		—		TD	✓	altimeter
		00:39	BO				48 15.007	124 6.647		160					was kind of fine
		00:43	EN				48 15.010	124 6.650							

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- no samples #17 - depth different from anticipated depth

* altimeter not working well - bouncing around a lot all the way to the bottom.
I've checked + re-greased both cable ends + washed + bottomed the transducer. See if that helps.

↓ S.S.

Better but still not great. Will replace cable. ss.
(after cast 76) Can't get new cable to fit - put old one back on.
Re-greased + cleaned altimeter connections etc. Maybe that'll help.

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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								
<i>2</i>	<i>72</i>	<i>1:14</i>	<i>BE</i>	<i>ROS</i>	<i>UP</i>	<i>14</i>	<i>48 18.594</i>	<i>124 3.967</i>	<i>188</i>		<i>46-58</i>	<i>13</i>	<i>P/OT</i>	☒		<i>equipped 0014 A</i>
		<i>1:20</i>	<i>BO</i>				<i>48 18.575</i>	<i>124 3.983</i>		<i>182</i>						<i>see note on 110214 110714</i>
		<i>1:35</i>	<i>EN</i>				<i>48 18.503</i>	<i>124 3.974</i>								
<i>3</i>	<i>71</i>	<i>2:12</i>	<i>BE</i>	<i>LTD</i>	<i>—</i>	<i>15</i>	<i>48 22.163</i>	<i>123.59.351</i>	<i>108</i>		<i>—</i>	<i>—</i>	<i>R910T</i>	☒		
		<i>2:15</i>	<i>BO</i>				<i>48 22.147</i>	<i>123 59.332</i>		<i>106</i>						
		<i>2:18</i>	<i>EN</i>				<i>48 22.141</i>	<i>123 59.324</i>								
<i>3</i>	<i>70</i>	<i>0334</i>	<i>BE</i>	<i>CTD</i>	<i>—</i>	<i>16</i>	<i>48 19.301</i>	<i>123 43.207</i>	<i>145</i>		<i>—</i>	<i>—</i>	<i>VF/RK</i>	☒		
		<i>0338</i>	<i>BO</i>				<i>48 19.351</i>	<i>123 43.177</i>		<i>140</i>						
		<i>0342</i>	<i>EN</i>				<i>48 19.361</i>	<i>123 43.166</i>								
<i>3</i>	<i>69</i>	<i>0416</i>	<i>BE</i>	<i>ROS</i>	<i>UP</i>	<i>17</i>	<i>48 15.625</i>	<i>123 43.168</i>	<i>180</i>		<i>59-69</i>	<i>11</i>	<i>VF/RK</i>	☒		<i>BOTTLE 11 - SPRING</i>
		<i>0421</i>	<i>BO</i>				<i>48 15.586</i>	<i>123 43.135</i>		<i>175</i>						<i>LET GO WHILE COCKING BOTTLES</i>
		<i>0432</i>	<i>EN</i>				<i>48 15.611</i>	<i>123 43.195</i>								
<i>3</i>	<i>68</i>	<i>0505</i>	<i>BE</i>	<i>CTD</i>	<i>—</i>	<i>18</i>	<i>48 12.224</i>	<i>123 42.986</i>	<i>138</i>		<i>—</i>	<i>—</i>	<i>VF/RK</i>	☒		
		<i>0509</i>	<i>BO</i>				<i>48 12.233</i>	<i>123 42.988</i>		<i>136</i>						
		<i>0513</i>	<i>EN</i>				<i>48 12.236</i>	<i>123 42.994</i>								
<i>3</i>	<i>105</i>	<i>0721</i>	<i>BE</i>	<i>CTD</i>	<i>—</i>	<i>19</i>	<i>48 10.90</i>	<i>123 19.24</i>	<i>83</i>		<i>—</i>	<i>—</i>	<i>VF/RK</i>	☒		<i>Bottle 11 fixed up.</i>
		<i>0724</i>	<i>BO</i>				<i>48 10.89</i>	<i>123 19.35</i>		<i>78</i>			<i>S.S/NC</i>			<i>A Himetex working</i>
		<i>0725</i>	<i>EN</i>				<i>48 10.89</i>	<i>123 19.40</i>								<i>YAH 6</i>

Cast type:

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

72 - forget to fire bottle 1 - obtained surface water from
bucket 72 → Phyto Station

- no 50 m bottle - discovered while firing -

- Rosette 69 → oxygen & salinity - large rapid oscillations on down cast - $\frac{3}{4}$ degree change

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>10</u>				Year <u>2007</u>				Ship <u>VECTOR</u>				Cruise ID <u>2007-61</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	
3	ADCP	0801	BE	ROS	US	20	48°13.88	123°18.34	113		70-79	10	SS/NC	✓		
		0805	BO				48°13.84	123°18.52		108						
		0813	EN				48°13.59	123°18.40								
3	104	0907	BE	CTD	—	21	48°19.88	123°18.27	86		—	—		✓		
		0910	BO				48°19.82	123°18.42		76						
		0912	EN				48°19.78	123°18.51								
3	67	0942	BE	CTD	—	22	48°22.84	123°17.94	100		—	—		✓		
		0946	BO				48°22.85	123°17.95		95						
		0948	EN				48°22.86	123°17.95								
3	66	1021	BE	CTD	—	23	48°19.23	123°14.26	100		—	—		✓		
		1024	BO				48°19.19	123°14.37		96						
		1027	EN				48°19.17	123°14.42								
3	65	1103	BE	ROS	UP	24	48°15.857	123°9.882	124		80-89	10	PD/DT	✓		
		1106	BO				48°15.850	123°9.918		122						
		1115	EN				48°15.834	123°10.022								
3	64	1153	BE	CTD	—	25	48°12.770	123°59.23	109		—	—	PD/DT	✓		
		1157	BO				48°12.809	123°59.87		108						
		1200	EN				48°12.841	123°6.006								

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3		2007		Vector		2007-61									
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							
3	63	1241	BE	CTD	—	26	48 14.808	122 58.699	148		—		JB/DT	✓	- stopped early
		1247	BO				48 14.923	122 58.804		138		—			due to different depths
		1251	EN				48 14.995	122 58.844							showing on winch & altimeter
3	62	1359	BE	ROS	UP	27	48 22.865	123 2.669	146		90-100	11	JA/DT	✓	
		1404	BO				48 22.939	123 2.701		140					
		1413	EN				48 23.136	123 2.606							
3	54	1500	BE	CTD	—	28	48 26.618	122 44.316	77		—	—	VF/RK	✓	
		1556	BO				48 26.617	122 44.333		74					
		1558	EN				48 26.635	122 44.429							
3	53	1640	BE	CTD	—	29	48 33.330	122 45.016	61		—	—	VF/RK	✓	
		1642	BO				48 33.351	122 45.014		58					
		1644	EN				48 33.551	122 45.042							
3	52	1715	BE	CTD	—	30	48 38.942	122 43.316	85		—	—	VF/RK	✓	
		1717	BO				48 39.053	122 43.279		81					
		1720	EN				48 39.185	122 43.234							
3	52	1733	BE	CTD	—	31	48 39.923	122 43.289	85		—	—	VF/RK	✓	redo 52 - no
		1736	BO				48 39.023	122 43.242							Temp / Sal Diff.
		1739	EN				48 39.116	122 43.204							(well mixed!)

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Beautiful day - sun & cloud - lots of tide

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							Latitude	Longitude								
3	51	1843	BE	CTD	—	32	48 46.681	122 51.706	163		—	—	VF/RK	✓		
		1847	BO				48 46.698	122 51.778								
		1851	EN				48 46.717	122 51.830								
3	56	1950	BE	ROS	us	33	48'46.43	123'01.54	211		101-114	14	SS/NC	✓		
		1956	BO				48' 46.45	123'01.52		205						
		2009	EN				48' 46.42	123'01.46								
3	57	2047	BE	CTD		34	48'43.99	123'08.08	160		—	—		✓	few porpoises	
		2051	BO				48'43.97	123'08.06		151						
		2054	EN				48'43.98	123'08.07								
3	47	2218	BE	CTD		35	48'49.29	123'06.19	186		—	—	✓	✓		
		2224	BO				48'49.28	123'06.20		181						
		2228	EN				48'49.29	123'06.19								
3	48	2253	BE	CTD		36	48 51.713	123 3.216	229		—	—	10/NC	✓	VF	
		2259	BO				48 51.718	123 3.252		225						
		2304	EN				48 51.704	123 3.262								
3	49	2336	BE	CTD		37	48 54.979	122 59.609	131		—	—	10/DT	✓		
		2340	BO				48 54.997	122 59.604		127						
		2343	EN				48 55.003	122 59.611								

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HPIC from last rosette left out for ~ 15 min prior to filtering.

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4	44	00:38	BE	CTD	—	38	48 56 744	123 5964	119				72/OT	✓	Stn 50 not done
		00:41	BO				48 56 723	123 5948		115	—	—			too many crab traps
		00:44	EM				48 56 713	123 5959							
4	45	1:09	BE	CTD	—	39	48 53912	123 8.401	127		—	—	74/OT	✓	
		1:12	BO				48 53902	123 8.390		124					
		1:15	EN				48 53.885	123 8.408							
4	46	1:37	BE	ROS	UP	40	48 51 403	123 10.714	177		115-126	12	74/OT	✓	
		1:42	BO				48 51 390	123 10 768		172					
		1:53	EN				48 51 394	123 10 788							
4	43	0332	BE	CTD	—	41	49 0.220	123 30.074	201		—	—	VF/RK	✓	
		0334	BO				49 0.221	123 30.089		195					
		0342	EN				49 0.226	123 30.088							
4	42	0407	BE	ROS	UP	42	49 1.796	123 26.171	320		127-142	16	VF/RK	✓	fluor. >3
		0415	BO				49 1.798	123 26.204		316					
		0433	EN				49 1.777	123 26.126							
4	41	0527	BE	CTD	—	43	49 3.286	123 22.300	242		—	—	VF/RK	✓	fluor. ~4
		0533	BO				49 3.281	123 22.296		238					
		0538	EN				49 3.283	123 22.313							

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- did not fire surface bottle - samples from bucket.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month 10			Year 2007				Ship VECTOR				Cruise ID 2007-61				
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							
4	37	0704	BE	CTD	-	44	49°13.54	123°20.82	316		-	-	VF/RK		
		0710	BO				49°13.56	123°20.79		211			SS/NC	✓	
		0715	EN				49°13.58	123°20.77							
4	38	0745	BE	CTD	-	45	49°11.95	123°26.51	308		-	-		✓	
		0753	BO				49°11.97	123°26.52		300					
		0759	EN				49°11.99	123°26.53							
4	39	0834	BE	ROS	LP	46	49°09.97	123°33.07	374		143-159	17		✓	Phyto station
		0845	BO				49°09.10.00	123°33.02		368					
4		0905	EN				49°10.01	123°32.87							
	40	0950	BE	CTD		47	49°08.60	123°36.89	142 (138)					✓	
		0955	BO				49°08.62	123°36.95		130					
		0958	EN				49°08.62	123°36.95							
4	26	11:10	BE	CTD		48	49°14.377	123°50.815	251				no/OT	✓	
		11:18	BO				49°14.385	123°50.804		258					
		11:24	EN				49°14.408	123°50.755							
4	27	1201	BE	ROS		49	49°19.162	123°47.959	344		160-175	16	no/OT	✓	
		1209	BO				49°19.186	123°48.008		340					altimeter
		1225	EN				49°19.188	123°48.056							wind

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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
							Latitude	Longitude							
4	23	1317	BE	CTD	—	50	49 24 390	123 45 308	152		—	—	W/O	✓	alt-meter
		1321	BO				49 24 389	123 45 313		150					fluctuating from 98 to 100
		1325	EN				49 24 383	123 45 322							
4	24	1458	BE	CTD	—	51	49 30.299	124 6.005	425		—	—	VF/RK	✓	Fluor 3.5 @ surface
		1508	BO				49 30.316	124 6.053		420					
		1518	EN				49 30.340	124 6.082							
4	25	1542	BE	CTD	—	52	49 27.103	124 4.508	320		—	—	VF/RK	✓	-barge passed
		1553	BO				49 27.674	124 4.619		317					
		1600	EN				49 27.682	124 7.552							
4	2	1630	BE	ROS	UP	53	49 24.114	124 9.337	275		176-190	15	VF/RK	✓	
		1636	BO				49 24.131	124 9.356							
		1653	EN				49 24.086	124 9.427							
4	1	1727	BE	CTD	—	54	49 20.414	124 12.089	255		—	—	VF/RK	✓	
		1733	BO				49 20.422	124 12.106		250					
		1739	EN				49 20.438	124 12.086							
4	4	1830	BE	CTD	—	55	49 24.548	124 22.081	348		—	—	VF/RK	✓	
		1838	BO				49 24.590	124 22.123		343					
		1846	EN				49 24.606	124 22.111							

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→ cast in wake of quarry barge - mixing event @ surface? ✓

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							Latitude	Longitude							
4	3	1907	BE	ROS	UP	56	49 26.629	124 20.250	323		191-206	16	NC/PC	✓	
		1914	BO				49 26.628	124 20.628		318					
		1932	EN				49 26.609	124 20.231							
4	5	2022	BE	CTD	—	57	49 27.386	124 30.816	315		—	—	nc/pc	✓	calm seas
		2030	BO				49 27.348	124 30.854		310					light scattered clouds
		2038	EN				49 27.404	124 30.856							
4	6	2108	BE	ROS	UP	58	49 30.57	124 27.79	193		207-219	13	SS/NC		
		2113	BO				49 30.56	124 27.76		186			↓		
		2125	EN				49 30.59	124 27.80							
4	7	2155	BE	CTD	—	59	49 34.40	124 24.17	353		—	—	SS/NC	✓	
		2205	BO				49 34.43	124 24.02		350					
		2213	EN				49 34.43	124 23.97							
4	8	2302	BE	CTD	—	60	49 39 276	124 33 006	338		—	—	TMOT	✓	
		23 16	BO				49 39 270	124 33 036		332					
		23 18	EN				49 39 287	124 33 052							
4	9	2353		ROS	—	61	49 35501	124 38 298	168		220-231	12	TMOT	✓	
		2357					49 35491	124 38 285		163					
5		00:07					49 35506	124 38 311							

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INSTITUTE OF OCEAN SCIENCES

Month				Year				Ship				Cruise ID				
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5	10	101	BE	CTD	—	62	49 40 722	124 47 220	100		—	—	94/18	✓		
		104	BO				49 40 728	124 47 150		98						
		107	EN				49 40 730	124 47 144								
5	11	131	BE	CTD	—	63	49 42 386	124 43 349	300		—	—	MDT	✓		
		139	BO				49 42 389	124 43 307		295						
		146	EN				49 42 409	124 43 304								
5	12	205	BE	ROS	UP	64	49 43 607	124 40 813	355		232-247	14	MDT	✓		
		214	BO				49 43 621	124 40 799		350						
		231	EN				49 43 600	124 40 776								
5	13	0405	BE	CTD	—	65	49 55.272	124 55.187	234				VF/RK	✓		
		0411	BO				49 55.294	124 55.194								
		0416	EN				49 55.302	124 55.184								
5	14	0448	BE	ROS	UP	66	49 52.979	124 58.610	315		248-263		VF/RK	✓		
		0456	BO				49 52.981	124 59.616		310						
			EN				49 53.000	124 59.598								
5	15	0541	BE	CTD	—	67	49 51.667	125 1.631	128		—	—	VF/RK	✓		
		0544	BO				49 51.642	125 1.633		123						
		0547	EN				49 51.618	125 1.630								

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INSTITUTE OF OCEAN SCIENCES

Month <i>Oct</i>				Year <i>2007</i>			Ship <i>VECTOR</i>				Cruise ID <i>2007-61</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
5	16	0803	BE	ROS	UP	69	49° 57.73	125° 08.80	154		264-274	11	SS/NC	✓	
		0808	BO				49° 57.76	125° 08.72							
		0818	EN				49° 57.73	125° 08.71							
5	21	0718	BE	CTD	—	68	50° 02.00	125° 13.61	78		—	—		✓	ended up doing this before
		0720	BO				50° 02.01	125° 13.62		70					Star. 16.)
		0722	EN				50° 02.01	125° 13.62							
5	17	0858	BE	CTD		70	49° 58.83	125° 04.27	262					✓	Beautiful calm night - lights of Campbell River look pretty!
		0905	BO				49° 58.86	125° 04.26		255					
		0911	EN				49° 58.86	125° 04.26							
5	18	0938	BE	CTD		71	49° 59.19	124° 59.00	145						
		0941	BO				49° 59.18	124° 58.98		140					
		0946	EN				49° 59.16	124° 58.92							
5	19	1021	BE	CTD		72	50° 01.16	124° 52.94	272					✓	Altimeter does not detect bottom > 10m.
		1028	BO				50° 01.16	124° 52.95		267					
		1035	EN				50° 01.18	124° 52.91							
5	20	1243	BE	CTD		73	49° 47.79	124° 32.26	310				10/NT		
		1251	BO				49° 47.37	124° 32.19		305					
		1259	EN				49° 47.14	124° 32.20							

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