

DAILY LOG BOOK

MISSION
NUMBER

2009-43

DATE:

From: 17 JUNE 2009 to: 24 JUNE 2009

VESSEL:

VECTOR

PROJECT:

STRAIT OF GEORGIA / JUAN DE FUCA

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

Captain: DAW LEE First Officer: KENIN MCKECKLE
Second Officer: JONY HESKE Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel:

Party Chief:

[illegible][illegible]

Data logging computer: _____
Data acquisition program: _____
 CTD deck unit make: _____ model: _____ serial number: _____
Primary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____

Oxygen sensor: _____ Model: _____ s/n: _____ P, S or NO pump?

PAR sensor: _____ Model: _____ s/n: _____ P, S or NO pump?

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

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

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

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

_____ CTD

Secondary CTD _____ s/n: _____

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____

Oxygen sensor: _____ Model: _____ s/n: _____

PAR sensor: _____ Model: _____ 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

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Month <i>June</i>				Year <i>2009</i>				Ship <i>Vector</i>				Cruise ID <i>2009-43</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							
17	SE	2345	BE	ROS		1	48 49 40.7	123 29 99.2	176		1-9	9	10/OT	✓	
		2347	BO				48 39 40.0	123 29 99.0		10.2					
		2357	EN				48 39 42.0	123 29 97.7							
18	22	0754	BE	ROS		2	49° 40.192	124° 16.321					SR/MA	✓	
		0802	BO				49° 40.181	124° 16.310	354	347					
		0808	EN				49° 40.183	124° 16.324							
18	20	0933	BE	ROS		3	49° 47.239	124° 32.340	310				SR/MA	✓	Rosette fouled bottom
		0938	BO				49° 47.238	124° 32.341		305					lighter
		0943	EN				49° 47.2	124° 32.3							
18	19	1144	BE	ROS		4	50° 1.196	124° 52.922	280				SR/MA	✓	
		1151	BO				50° 1.177	124° 52.879		270					
		1155	EN				50° 1.139	124° 52.861							
18	18	1223	BE	ROS		5	49 59 18.8	124 58 90.0	146				13/OT	✓	
		1237	BO				49 59 18.2	124 58 91.5		143					
		1240	EN				49 59 17.2	124 58 92.0							
18	17	1308	BE	ROS		6	49 58 78.9	125 43 12	264				20/OT	✓	
		1314	BO				49 58 80.5	125 43 40		259					
		1319	EN				49 58 80.0	125 43 54							

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

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

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- Depart Port Bay 16:15 local 17 June, sunny, warm, light breeze
- conduct safety briefing for science crew
proceed to Saanich Inlet station

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							Latitude	Longitude							
14	16	13 58	BE	ROS		7	49 57 769	125 8 800	152		10-20	11	MB/OT	✓	
		1401	BO				49 57 794	125 8 894		146					
		1413	EN				49 57 830	125 9 160							
18	21	1450	BE	ROS		8	50 2 020	125 13 595	77				MB/OT	✓	
		1453	BO				50 2 062	125 13 614		78					
		1454	EN				50 2 075	125 13 609							
18	15	1645	BE	ROS		9	49 51 612	125 1 622	126				MB	✓	
		1647	BO				49 51 618	125 1 650		121					
		1650	EN				49 51 630	125 1 667							
18	14	1711	BE	ROS		10	49 52 931	124 59 670	313		21-36	16	MB	✓	
		1718	BO				49 52 871	124 59 762		306					
		1736	EN				49 52 835	125 0 006							
18	13	1824	BE	ROS		11	49 55 297	124 55 220	219				MB	✓	
		1829	BO				49 55 271	124 55 276		224					
		1833	EN				49 55 260	124 55 321							
18	10	2012	BE	ROS		12	49 46 721	124 47 332	95				MB	✓	
		2016	BO				49 46 746	124 47 323							
		2018	EN				49 46 765	124 47 328							

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							Latitude	Longitude							
18	11	20 49	BE	ROS		13	49 42 430	124 43 426	302				ABT	✓	
		20 54	BO				49 42 468	124 43 375		297					
		20 59	EN				49 42 511	124 43 350							
18	12	21 18	BE	ROS		14	49 43 600	124 40 895	3551		31-53	17	ABT	✓	
		21 26	BO				49 43 644	124 40 910		349					
		21 45	EN				49 43 703	124 40 944							
18	8	22 40	BE	ROS		15	49 39 326	124 33 014	345				ABT	✓	
		22 45	BO				49 39 331	124 33 025		335					
		22 50	EN				49 39 331	124 33 028							
18	9	23 29	BE	ROS	US	16	49 35 491	124 38 399	168		54-65	12	ABT	✓	
		23 32	BO				49 35 470	124 38 298		162					
		23 44	EN				49 35 502	124 38 248							
19	7	00 45	BE	ROS		17	49° 34.457	124° 24.143					SR _{MH}		
		00 51	BO				49° 34.457	124° 24.144	352	347				✓	
		00 57	EN				49° 34.466	124° 24.137							
19	6	01 44	BE	ROS		18	49° 30.653	124° 27.787	195		66-78	13	SR _{MH}	✓	Started going BTS
		01 47	BO				49° 30.689	124° 27.870		188					w/o tripping bottles
		02 01	EN				49° 30.722	124° 27.876							had to go back down

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bottle 10 nylon cup replaced on bottom plug

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19	5	0233	BE	ROS		19	49° 27.416	124° 30.776	316				SR MH	✓	
		0240	BO				49° 27.396	124° 30.745		310					
		0245	EN				49° 27.392	124° 30.722							
19	4	0434	BE	ROS		20	49° 24.535	124° 22.106	346				SR MH	X	
		0440	BO				49° 24.578	124° 22.118		339					
		0447	EN				49° 24.612	124° 22.122							
19	3	0509	BE	ROS		21	49° 26.747	124° 20.238			79-94	16	SR MH	✓	
		0516	BO				49° 26.747	124° 20.238	319	314					
		0537	EN				49° 26.734	124° 20.293							
19	1	0636	BE	ROS		22	49° 20.305	124° 12.247	247	242			11	✓	
		0641	BO				49° 20.305	124° 12.247							
		0647	EN	1			49° 20.321	124° 12.298							
19	2	0717	BE	ROS		23	49° 24.106	124° 9.275	280		95-108	14	11	X	
		0723	BO				49° 24.109	124° 9.248		275					
		0737	EN				49° 24.115	124° 9.169							
19	25	0808	BE	ROS		24	49° 27.719	124° 7.422	298				11		Header was miss labeled
		0815	BO				49° 27.720	124° 7.372		290					as Stn 2.
		0820	EN				49° 27.724	124° 7.339							

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							Latitude	Longitude								
19	24	0842	BE	ROS		25	49°30.335	124°5.974	428		100					
		0849	BO				49°30.349	124°5.953		423				✓		
		0856	EN				49°30.364	124°5.939								
19	28	1040	BE	ROS		26	49°24.106	123°45.347	135					✓		
		1043	BO				49°24.132	123°45.358		129						
		1045	EN				49°24.143	123°45.377								
19	27	1124	BE			27	49°19.133	123°47.976	342		109-124			✓		
		1131	BO				49°19.153	123°48.010		338						
		1150	EN				49°19.208	123°47.978								
19	26	1232	BE	CTD		28	49 14 377	123 50 612	268				11/15	✓		
		1237	BO				49 14 356	123 50 606		263						
		1242	EN				49 14 341	123 50 603								
19	40	1349	BE	CTD		29	49 8 635	123 36 811	156				11/11	✓		
		1352	BO				49 8 647	123 36 827		132						
		1355	EN				49 8 651	123 36 820								
19	39	1417	BE	ROS		30	49 9 800	123 32 930	390		125-141	17	km	✓		
		1424	BO				49 9 856	123 32 905		373						
		1444	EN				49 10 040	123 32 898								mud on bottom

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							Latitude	Longitude							
19	38	1522	BE	ROS		31	49 12 055	123 26 33	305				MD	✓	290 305
		1529	BO				49 12 089	123 26 425		301					
		1535	EN				49 12 128	123 26 471							
19	37	1609	BE	ROS		32	49 13 596	123 20 710	210				MD	✓	213
		1610	BO				49 13 631	123 20 747		205					
		1613	EN				49 13 651	123 20 768							
19	41	1734	BE	ROS		33	49 3 457	123 22 415	235				MD	✓	247 still 8N off yellow
		1739	BO				49 3 486	123 22 522		237					not started deck unit twice
		1744	EN				49 3 502	123 22 600							because pump didn't come on
19	42	1804	BE	ROS		34	49 1 760	123 26 225	320		142-157	16	MD	✓	325
		1814	BO				49 1 744	123 26 291		315					
		1832	EN				49 1 693	123 26 474							
19	43	1855	BE	ROS		35	49 0.2	123 30.094	200				MD	✓	
		1859	EN				49 0.198	123 30.160		190					
		1902	BO				49 0.205	123 30.203							
19	46	2045	BE	ROS		36	48 51 391	123 10 823	178		158-169	12	AK		179
		2048	BO				48 51 391	123 10 840		173					wrong Sta #
		2100	EN				48 51 468	123 10 898							in leader
															should be 46

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							Latitude	Longitude							
19	45	2122	BE	CTD-ROS		37	48 53.902	123 8.424	128				LAB DT	✓	125
		2125	BO				48 53.922	123 8.435		124					
		2127	EN				48 53.928	123 8.446							
19	44	2152	BE	CTD-ROS		38	48 56.850	123 6.110	119				LAB DT	✓	
		2154	BO				48 56.869	123 6.138		115					
		2156	EN				48 56.876	123 6.170							
19	50	2245	BE	CTD-ROS		39	48 57.722	122 56.125	23				LAB DT	✓	25
		2246	BO				48 57.743	122 56.112		20					
		2247	EN				48 57.754	122 56.110							
19	49	2316	BE	CTD-ROS		40	48 55.012	122 59.579	132				LAB	✓	132
		2318	BO				48 55.026	122 59.597		129					
		2321	EN				48 55.032	122 59.612							
19	48	2352	BE	CTD-ROS		41	48 51.746	123 3.216	228				LAB	✓	
		2356	BO				48 51.815	123 3.224		217					at 5m
		20:01	EN				48 51.919	123 3.312							
20	47	0025	BE			42	48° 49.292	123° 6.174	185					✗	
		0029	BO				48° 49.261	123° 6.157		178					
		0032	EN				48° 49.241	123° 6.152							

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							Latitude	Longitude							
20	56	0109	BE	ROS		43	48° 46.411	123° 1.594	212		170-183	14	SR MH	✓	
		0113	BO				48° 46.391	123° 1.661		204					
		0127	EN				48° 46.360	123° 1.727							
20	57	0204	BE	ROS		44	48° 43.993	123° 8.092	159						
		0207	BO				48° 43.996	123° 8.107		154		Ø	SR MH	X	
		0210	EN				48° 44.003	123° 8.113							
20	58	0239	BE	ROS		45	48° 42.979	123° 14.231	330						
		0245	BO				48° 42.965	123° 14.196		323		Ø	SR MH	✓	
		0251	EN				48° 42.946	123° 14.162							
20	59	0330	BE	ROS		46	48° 37.792	123° 14.495	240		184-197	14	SR/MH	✓	
		0335	BO				48° 37.806	123° 14.401		232					
		0354	EN				48° 37.882	123° 14.225							
20	60	0427	BE	ROS		47	48° 33.902	123° 12.560	287					✓	
		0433	BO				48° 33.889	123° 12.420		269					
		0438	EN				48° 33.911	123° 12.295							
20	61	0517	BE	ROS		48	48° 29.219	123° 9.336	280					✓	
		0522	BO				48° 29.216	123° 9.365		274					
		0526	EN				48° 29.186	123° 9.420							

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20	62	0622	BE	ROS		49	48° 22.752	123° 2.674	150		198-208	11	SRM+1	✓	
		0625	BO				48° 22.674	123° 2.623		143					
		0636	EN				48° 22.560	123° 2.359							
20	54	0841	BE	ROS		50	48° 26.762	122° 44.333	77						
		0843	BO				48° 26.788	122° 44.369		71		Ø	SRM+1	✓	
		0844	EN				48° 26.798	122° 44.383							
20	53	0931	BE	ROS		51	48° 33.229	122° 44.993							
		0933	BO				48° 33.232	122° 44.975							
		0934	EN				48° 33.230	122° 44.962							
20	52	1018	BE	ROS		52	48° 39.910	122° 43.379	91			Ø		X	Unsure of DO readings
		1020	BO				48° 39.909	122° 43.382		85					so I replaced it with
		1022	EN				48° 39.905	122° 43.384							S/N 1438
20	51	1138	BE	ROS		53	48° 46.670	122° 51.593	160					✓	DO readings are
		1141	BO				48° 46.618	122° 51.550							much better now.
		1142	EN				48° 46.576	122° 51.481							
20	SID	1617	BE	CTD		54	48 38914	123 23 364	10			710T		✓	
		1618	BO				48 38909	123 23 345		3.2					
		1619	EN				48 38912	123 23 329							

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							Latitude	Longitude							
20	63	1916	BE	CTD-ROS		55	48 14 662	122 58 525	151				MDT	✓	
		1926	BO				48 14 690	122 58 536		145					
		1923	EN				48 14 717	122 58 516							
20	64	2003	BE	C-ROS		56	48 12 810	123 5.776	909				MDT	✓	91
		2006	BO				48 12 823	123 5.737		102					
		2008	EN				48 12 841	123 5.720							
20	65	2039	BE	ROS		57	48 15 905	123 9 745	128		209-218	10	MDT	✓	121
		2041	BO				48 15 925	123 9 722		120					
		2050	EN				48 15 935	123 9 578							
20	66	2128	BE	C-ROS		58	48 19 333	123 14.095	102				MDT	✓	104
		2130	BO				48 19.357	123 14.034		91					
		2132	EN				48 19.358	123 14.035							
20	67	2211	BE	C-ROS		59	48 22 765	123 18.000	105				MDT	✓	106
		2213	BO				48 22 752	123 17.928		106					
		2215	EN				48 22 739	123 17 845							
20	104	2240	BE	C-ROS		60	48 20 040	123 17 940		80			MDT	✓	80
		2241	BO				48 20 051	123 17 898			80				
		2243	EN				48 20 058	123 17 874							

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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
							Latitude	Longitude							
20	ADCP	2331	BE	ROS		61	48°14.032	123°17.897	122		219-228	10	WBT	✓	113
		2333	BO				48°14.030	123°17.868		118					HPLC's + CHLs were not
		2342	EN				48°14.014	123°17.858							put in the fridge and became
21	105	0014	BE	ROS		62	48°11.069	123°18.989					SR MH	✓	warm.
		0015	BO				48°11.004	123°18.965	92						
		0017	EN				48°11.152	123°18.926		86					
21	68	0205	BE	ROS		63	48°12.227	123°42.946	140					✓	
		0208	BO				48°12.230	123°42.916		135			SR MH		
		0210	EN				48°12.252	123°42.908							
21	69	0245	BE	ROS		64	48°15.628	123°43.355	179				SR MH	✓	
		0248	BO				48°15.628	123°43.355		174					
			EN				48°15.619	123°43.657							
21	70	0349	BE	ROS		65	48°19.242	123°43.272	151				MH + SR	✓	
		0352	BO				48°19.261	123°43.297		146					
		0354	EN				48°19.268	123°43.291							
21	71	0509	BE			66	48°22.196	123°59.435	110				SR MH	✓	
		0512	BO				48°22.192	123°59.440		106					
		0514	EN				48°22.187	123°59.442							

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							Latitude	Longitude							
21	72	0550	BE	ROS		67	48°18.588	124° 4.014	192		241-253	13	SR MH	✓	
			BO				48°18.587	124° 4.105		183					
			EN				48°18.596	124° 4.190							
21	73	0640	BE	ROS		68	48°15.031	124° 6.817	162					✓	
		0643	BO				48°15.055	124° 6.854							
		0646	EN				48°15.080	124° 6.880							
21	74	0859	BE	ROS		69	48°25.096	124° 35.663	186					✓	
		0903	BO				48°25.092	124° 35.731							
			EN				48°25.092	124° 35.731							
21	75		BE	ROS		70	48°28.224	124° 32.030	225		254-267			✓	
			BO				48°28.225	124° 32.031		220					
			EN				48°28.226	124° 32.033							
21	76	1038	BE	ROS		71	48°31.411	124° 30.016	88					✓	
		1040	BO				48°31.410	124° 30.049		83					
		1042	EN				48°31.411	124° 30.090							
21	103	1142	BE	ROS		72	48°33.043	124° 43.260	120					✓	
		1144	BO				48°33.054	124° 43.297		114					
		1147	EN				48°33.068	124° 43.342							

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