

DAILY LOG BOOK

MISSION
NUMBER

2006-11

DATE:

From: April 14, 2006

to: April 21, 2006

VESSEL:

CCGS Vector

PROJECT:

Strait of Georgia / Juan de Fuca

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

Captain: Dave Viscetoward First Officer: Gary Mc Donnell
Second Officer: Roll Shields Third Officer: _____

Captain: Dore Westwood First Officer: Gary Howell
Second Officer: Paul Shields Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel: Party Chief: ANGELICA PENA

[illegible]

Second leg of Mission: Party Chief:

[illegible]

Data logging computer:

NEW DELL - F503?

88 g computer: _____ NLS Data - 1308

Data acquisition program: Seasave Wm 32 Ver 5.37d

Seasave Win 32 Ver 5.37d

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

Primary CTD

Make: Seabird model: 91DUS serial number: 0443

Primary temperature serial number: 2068 serial number: 0443

Primary conductivity serial number: 1766

Secondary temperature serial number: 206

Secondary conductivity serial number: 1729

Transmissometer: Wet Labs Model: CS-2AR s/n: 723DR

Fluorometer: Model _____ Wavelength(s) _____
Cable gain: 10X S/n: 7387

Oxygen sensor: Seabird Model: SBE 43 s/n: 2356 P, S or NO pump? NO pump?

PAR sensor: Sencon Model: SE-43 s/n: 0746 P, S or NO pump: 15-T

Other sensors: Biopotential Model: Underwater S/n: 4565
 Other sensors: Biopotential Model: 12-finger S/n: 12-finger

Other sensors:	bioSpherical	s/n: 16504	P, S or NO pump?
Other sensors:	Benthos	s/n:	P, S or NO pump?

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

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

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____ model: _____ serial number: _____

Primary conductivity serial number:

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model	S/n:
Cable gain:	S/n:

Cable gam. _____ s/n: _____
 Model: _____
 Oxygen sensor: _____ s/n: _____

PAR sensor: _____ Model: _____ s/n: _____

Other sensors: _____ s/n: _____
 _____ 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 <i>April</i>				Year <i>2006</i>			Ship <i>Vector</i>				Cruise ID <i>2006-11</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							
15	SI	2:41	BE	ROS		1	48 38 728	123 29 870	75		1-8	1-8	ZOLT	✓	cast stopped at
		2:48	BO			2	48 38 741	123 29 824		75					bottom & started over
		2:56	EN				48 38 808	123 29 609							2 on upcast
15	22	1300	BE	CTD		3	49 40 240	124 16 246	355				LB	✓	
		1311	BO				49 40 265	124 16 112		351					
		1320	EN				49 40 253	124 16 109							
15	20	1448	BE	CTD		4	49 47 191	124 32 329	314				ZBOT	✓	
		1456	BO				49 47 077	124 32 424		314					
		1504	EN				49 46 954	124 32 476							
15		15:01		LOOP#1			49 47 008	124 32 489							
15	19	17:45	BE	OPTI		5	50 1-253	124 52.937	285						
		17:52	BO				50 1-28K	124 52.927		275			EFHQ		
		18:05	EN				50 1-219	124 52.892							
15	19			RAD		6	50 01.22	124 52.812							
15	10	1907		LOOP#2			49 59.726	124 58.341							
15	18	1922	BE	CTD		7	49 59.196	124.58.977	147		14-20	7	RESAD	✓	
		1928	BO				49 59.261	124 59.089		137					
			EN				49 59.172	124 59.172							

Cast type:

BOT = bottle cast, no CTD
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ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

US = up/stop
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Apr</i>				Year <i>2006</i>				Ship <i>USC706</i>				Cruise ID <i>2006-11</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
15	18	1945		RAD		8	49 59.494	124 59.445							
15	17	20:44	BE	ROS		9	49 58.738	125 4.304	265		21-27	7	RE: DA		
			SO				49 58.762	125 4.297		255					
			EN				49 58.727	125 4.156							
17		03:00		Loop #3			49 48.40	124 34.38							2 Nut, 2 chl
17	24	05:57	BE	CTD		10	49 30.397	124 5.99	431						Forget to turn pump on
		06:07	BO				49 30.47	124 6.04		420					
		08:17	EN				49 30.47	124 6.04							
17	24	06:19	BE	CTD		11	49 30.47	124 06.06	431						Re-cast str 24
		06:29	BO				49 30.46	124 06.06		414					
		06:39	EN				49 30.41	124 06.02							
17	25		BE	CTD		12									} no event 12
			BO												
			EN												
17		12:00		Loop 4			49 27.661	124 07.523	3						2 Nut, 2 chl, 1 sal.
17	25	07:08	BE	CTD		13	49 27.665	124 7.524	362						
		07:15	BO				49 27.685	124 7.508							
		07:21	EN				49 27.691	124 7.502							

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Month <i>Apr</i>				Year <i>2006</i>				Ship <i>VECTOR</i>				Cruise ID <i>2006-11</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>17</i>	<i>02</i>	<i>07:53</i>	<i>BE</i>	<i>ROS</i>		<i>14</i>	<i>49 24.077</i>	<i>124 9.275</i>	<i>277</i>		<i>28-47</i>	<i>20</i>	<i>RE:DA</i>		<i>bottle 15 did not amp</i>
		<i>07:59</i>	<i>BO</i>				<i>49 24.036</i>	<i>124 9.248</i>	<i>270</i>	<i>270</i>					
		<i>08:21</i>	<i>EN</i>				<i>49 24.077</i>	<i>124 9.161</i>							
<i>17</i>	<i>01</i>	<i>09:40</i>	<i>BE</i>	<i>CTD</i>		<i>15</i>	<i>49 20.386</i>	<i>124 12.085</i>	<i>253</i>				<i>RE:DA</i>		
		<i>09:47</i>	<i>BO</i>				<i>49 20.368</i>	<i>124 12.078</i>		<i>243</i>					
		<i>09:53</i>	<i>EN</i>				<i>49 20.346</i>	<i>124 12.082</i>							
<i>17</i>	<i>04</i>	<i>10:54</i>	<i>BE</i>	<i>CTD</i>		<i>16</i>	<i>49 24.588</i>	<i>124 22.176</i>	<i>348</i>				<i>RE:DA</i>		<i>no file #16</i>
		<i>11:02</i>	<i>BO</i>				<i>49 24.577</i>	<i>124 22.176</i>		<i>337</i>					
		<i>11:09</i>	<i>EN</i>				<i>49 24.558</i>	<i>124 22.142</i>							
<i>17</i>	<i>03</i>	<i>1131</i>	<i>BE</i>	<i>ROS</i>		<i>17</i>	<i>49 26.608</i>	<i>124 20.278</i>	<i>327</i>						
		<i>1137</i>	<i>BO</i>				<i>49 26.600</i>	<i>124 20.210</i>		<i>318</i>			<i>LA OT</i>		
		<i>1158</i>	<i>EN</i>				<i>49 26.585</i>	<i>124 20.144</i>							
<i>17</i>		<i>1200</i>		<i>LOOPS</i>			<i>49 26.585</i>	<i>124 20.144</i>							
<i>17</i>	<i>05</i>	<i>1306</i>	<i>BE</i>	<i>CTD</i>		<i>18</i>	<i>49 27.364</i>	<i>124 30.804</i>	<i>315</i>				<i>RE:DA</i>	<i>✓</i>	
		<i>1315</i>	<i>BO</i>				<i>49 27.391</i>	<i>124 30.791</i>		<i>307</i>					
		<i>1322</i>	<i>EN</i>				<i>49 27.390</i>	<i>124 30.763</i>							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Apr</i>				Year <i>2006</i>				Ship <i>VECTOR</i>				Cruise ID <i>2006-11</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	6	13:58	BE	ROS		19	49 30.617	124 27.900	192		64-80	1-17			
		14:03	BO				49 30.620	124 27.844		189					
		14:21	EN				49 30.629	124 27.736							
17		14:59		LOOP6			49 34.33	124 24.135							
17	7	15:09	BE	CTD		20	49 34.237	124 24.122	354						
		15:18	BO				49 34.28	124 24.247		360					
		15:27	EN				49 34.309	124 24.412							
17	8	16:19	BE	CTD		21	49 39.358	124 32.986	345						
		16:27	BO				49 39.36	124 32.933		333					
		16:33	EN				49 39.366	124 32.912							
17	9	17:15	BE	ROS+OPTI		22	49 35.508	124 38.263	172		82-97	1-16			from cartidge changed
		17:20	BO				49 35.557	124 38.28		160					
		17:36	EN				49 35.768	124 38.28							
17	9	17:42	BE	RADIO		23	49 35.857	124 38.261							
		17:47	EN				49 35.918	124 38.244							
17	10	19:01	BE	CTD/OPT		24	49 40.566	124 47.272	92						
		19:04	BO				49 40.550	124 47.234		84					
		19:09	EN				49 40.520	124 47.182							
17	10	19:18	BE	RDD		25	49 40.463	124 47.176							

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INSTITUTE OF OCEAN SCIENCES

Month				Year				Ship				Cruise ID			
April				2006				V6C76K				2006-11			
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	10	19:25	EN				49 40.483	124 47.220							
17	11	19:57	BE	ROBOT		26	49 42.544	124 43.543	304		103-107				
		20:05	BO				49 42.484	124 43.489							
		20:17	EN				49 42.493	124 43.399							
17		19:53	?	LOOP7			49 42.469	124 43.499							
17		20:22	BE	ROS		27	49 42.488	124 43.387							
		20:30	EN				49 42.633	124 43.446							
17	12	20:59	BE	ROS		28	49 43 59	124 40 88	355		108-127	20	DA/RE		#13 did not
		21:11	BO				49 43 54	124 40 92		345					trip ==>
		21:34	EN				49 43 74	124 40 85							
17	12	21:43	BE	ROS		29	49 43.844	124 40.830							
		21:51	EN				49 43.925	124 40.810							
17		23:00		LOOP8			49 34 72	124 32.67							
18	26	2:47	BE	CTD		30	49 14 335	123 50 813	259						
		2:54	BO				49 14 375	123 50 816		255					
		3:00	EN				49 14 394	123 50 842							
18		2:55		LOOP9			49 14 380	123 50 821							

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Bottle no. 13 did not trip Caswell fired, latch released, but the angle on some outside handles is too close to pull latch away. This can be alleviated by raising the handles but is a weakness in the rattle design. Will raise handle 13.

Bottle no. 13 did not trip Caswell fired, latch released, but the angle on some outside handles is too low to pull latch away. This can be alleviated by raising the handles but is a weakness in the handle design. Will raise handle 13.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Apr.</i>				Year <i>2006</i>			Ship <i>VECTOR</i>				Cruise ID <i>2006-11</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							
18	27	03:46	BE	ROS		31	49 19.207	123 48.125	382		128-148	21	EF/HQ		Bottle 13 not fire.
		03:55	BO				49 19.294	123 48.204		345					
		04:18	EN				49 19.514	123 48.305							
18	27		BE	ZOO		32									
			EN												
18	28	06:04	BE	CTD		33	49 24.04	123 45.337	140						
		06:08	BO				49 24.05	123 45.36		128					
		06:11	EN				49 24.05	123 45.39							
18	LOOP 10	07:04	BE	LOOP 10			49 16.50	123 40.89			LOOP 10	41	DA/RE		
18	40	08:09	BE	CTD		34	49 8.644	123 36.803	148				RE-DA		
		08:13	BO				49 8.624	123 36.768		135					
		08:17	EN				49 8.620	123 36.752							
18	39	08:46	BE	ROS		35	49 9.811	123 33.187	383		149-165		RE-DA		
		08:57	BO				49 9.838	123 33.134		370					
		09:20	EN				49 9.859	123 33.115							
18	38	10:35	BE	CTD		36	49 11.941	123 26.386	306						
		10:42	BO				49 11.957	123 26.364		295					
		10:48	EN				49 11.963	123 26.358							
18		11:00		LOOP 11			49 12.898	123 23.180							

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>April</i>				Year <i>2006</i>			Ship <i>Vuclon</i>				Cruise ID <i>2006-11</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								
18	37	1126	BE	CTD		37	49 13708	123 20 742	216				10 DT	✓		
		11 31	BO				49 13710	123 20 640		209						
		1136	EN				49 13 716	123 20 543								
18	41	1248	BE	CTD		38	49 3 254	123 22 474	247				10 DT	✓		
		1255	BO				49 3 208	123 22 619		240						
		1301	EN				49 3 174	123 22 775								
18	42	1325	BE	ROS		39	49 1 889	123 26 213	320		167-184	18	10 DT			Little 13215 didn't fire
		1333	BO				49 1 990	123 26 460		310						
		1355	EN				49 2 107	123 27 038								
18	43	1445	BE	CTD		40	49 0 226	123 30 040	207				10 DT			
		1450	BO				49 0 278	123 30 022		205						
		1456	EN				49 0 322	123 30 001								
18		15:00		LOOP 12			49 0 322	123 30 001								
18	39	16:02	BE			41	49 09 91	123 32 91			9184 185-191	8				OPTIC ONLY, starting sample # repeat, use 9184
		16:03	30m				49 09 92	123 32 94								
		16:10	EN				49 09 93	123 33								
18	39	16:15	BE	PAD		42	49 09 989	123 32 928								
		16:22	EN				49 10 191	123 33 079								

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At Station 39, Apr 18, 2016 (UTC). Captain reports engine oil leak problem, need to head back to Los, proceed to stn 42 for optic rest, then back for repair.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>April</i>				Year <i>2006</i>			Ship <i>Vectra</i>				Cruise ID <i>2006-11</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
18	42	17:42	BE	OPTI		43	49 1873	123 26.269	323		192-199				OPTI only, down 30m only
		17:44	30m				49 1862	123 26.262							
		17:49	EN				49 1826	123 26.166							
18	42	17:53	BE	RAD		44	49 01.799	123 26.136							
		18:08	EN				49 01.785	123 26.172							
18	LOOP 13	19:22		LOOP			48 54 99	123 15 94							
18	46	19:51	BE	ROS		45	49 51.458	123 10.822	175		200-46				LOOP 13
		20:01	BO				48 51.421	123 10.811		167					
		20:15	EN				48 51.412	123 10.801							
18	46	20:21	BE	RAD		46	48 51.532	123 10.829							
		20:29	EN				48 51.612	123 10.728							
18	LOOP 14	22:18		LOOP			48 43.34	123 26.078							
19	LOOP 15	02:57		LOOP			48 41.986	123 19.445							LOOP 14
19	58	03:28	BE	CTD		47	48 42.776	123 13.956	320						LOOP 15
		03:39	BO				48 42.636	123 13.696		305					enter wray str name in file, enter "47", not 58.
		03:48	EN				48 42.41	123 13.298							
19	57	04:22	BE	CTD		48	48 44.35	123 63.17	160						
		04:26	BO				48 44.38	123 78.13		146					Lds of current, wide angle
		04:31	EN				48 44.32	123 7.71							

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19	56	05:17	BE	ROS		49	48 46.59	123 01.25	216		217-235	19			Heavy Truffle
		05:22	BO				48 46.56	123 1.267		203					
		05:36	EN				48 46.46	123 1.35							
17*	47	06:37	BE	CTD		50	48 49.181	123 05.80	190						
		06:42	BO				48 49.19	123 05.76		180					
		06:46	EN				48 49.21	123 05.76							
17*	Loop 16	06:50		Loop			48 49.31	123 05.95							
19	48	07:19	BE	CTD		51	48 51.374	123 2.920	229				DA&RE		Station appears to be
		07:11	BO				48 51.282	123 2.810	219						extremely well-mixed
		07:30	EN				48 51.754	123 2.854							
19	49	08:03	BE	CTD		52	48 55.164	122 59.238	135						Station appears to
		08:07	BO				48 55.187	122 59.259		125			DA&RE		be well mixed.
		08:11	EN				48 55.211	122 59.321							
19	50	08:44	BE			53	48 57.139	122 56.221	26				DA&RE		
		08:46	BO				48 57.148	122 56.210		20					
		08:47	EN				48 57.152	122 56.208							
19	44	09:37	BE	CTD		54	48 56.500	123 5.794	121				DA&RE		
		09:40	BO				48 56.424	123 5.725		111					
		09:44	EN				48 56.431	123 5.717							

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* should be 19

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Apr</i>				Year <i>2006</i>				Ship <i>VECTOR</i>				Cruise ID <i>2006-11</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							
19	45	10:16	BE	CTD		55	48 53.616	123 8.339	129				DAE		
		10:20	BO				48 53.800	123 8.602					BE		
		10:23	EN				48 53.722	123 8.503							
19	LOOP	11:00		LOOP17			48 51.598	123 01.453							
19	51	11:57	BE	CTD		56	48 46.988	122 51.222	15.9				MOR	✓	
		12:02	BO				48 46.968	122 51.144		150					
		12:06	EN				48 46.934	122 51.066							
19	52	13:21	BE	CTD		57	48 39.115	122 42.781	88				MOR	✓	
		13:25	BO				48 39.112	122 42.757		80					
		13:28	EN				48 39.103	122 42.738							
19	53	14:38	BE	CTD		58	48 33.175	122 44.999	65				MOR		
		14:41	BO				48 33.120	122 45.001		57					
		14:43	EN				48 33.198	122 45.004							
19	LOOP 18	14:52		LOOP 18			48 32.73	122 44.981							
19	54	15:34	BE	CTD		59	48 26.66	122 44.327	81						
		15:37	BO				48 26.702	122 44.299		74					
		15:40	EN				48 26.73	122 44.27							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Apr</i>				Year <i>2006</i>			Ship <i>USC701</i>				Cruise ID <i>2606-11</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							
19	62	17:10	BE	ROS		60	48 22.814	123 2.671	151		236-250				
		17:15	BO				48 22.836	123 02.752		143					
		17:28	EN				48 22.706	123 02.981							
19	62	17:34	BE	RAD		61	48 22.922	123 03.070							
		17:45	EN				48 22.934	123 03.224							
19	63	19:01	BE	CTD/OP		62	48 14.656	122 58.576	151						
		19:05	BO				48 14.635	122 58.561		139					
		19:13	EN				48 14.612	122 58.571							
19	63	19:25	BE	RAD		63	48 14.725	122 58.684							
			EN				48 14.689	122 58.822							
19		12:44 *		100A9			48 14.190	123 01.022							
19	64	20:13	BE	CTD		64	48 12.854	123 5.892	107						
		20:16	BO				48 12.876	123 5.915		99					
		20:19	EN				48 12.898	123 5.939							
19	65	20:52		ROS/OP		65	48 15.902	123 9.694	122						
		20:59					48 15.934	123 9.676		112					
		21:06					48 15.953	123 9.714							
19	65	21:10		RAD		66	48 15.938	123 9.776							
		21:22					48 15.789	123 9.859							

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* Probably POT

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Apr</i>				Year <i>2006</i>				Ship <i>VECTOR</i>				Cruise ID <i>2006-11</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	
19	66	22:06	BE	CTD/OP		67	48 19.300	123 14.177	99.5							
		22:08	BO				48 19.280	123 14.180		91.0						
		22:16	EN				48 19.248	123 14.267								
19	66	22:19	BE	RAD		68	48 19.241	123 14.377								
		22:29	EN				48 19.237	123 14.460								
	LOOP	23:08		LOOP20			48 22.867	123 17.902								
19	67	23:08	BE	CTD		69	48 22.867	123 17.902	101							
		23:11	BO				48 22.880	123 17.897		91						
		23:13	EN				48 22.886	123 17.876								
19	104	23:38	BE	CTD		70	48 20.029	123 17.992	83							
		23:40	BO				48 20.023	123 18.002		75						
		23:43	EN				48 20.024	123 18.011								
20	ADCP	00:26	BE	ROS		71	48 14.080	123 17.926	119		284-297	14				
		00:29	BO				48 14.065	123 17.864		110						
		00:39	EN				48 14.041	123 17.600								
20	105	1:26	BE	CTD		72	48 11.028	123 19.014	83							
		1:29	BO				48 11.039	123 18.996		82						
		1:32	EN				48 11.045	123 18.965								
20	LOOP 21	03:02		LOOP 21			48 11.651	123 37.590								

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Apr</i>				Year <i>2006</i>			Ship <i>USC707</i>				Cruise ID <i>2006-11</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
20	68	03:32	BE	CTD		73	48 12.16	123 42.907	141						
		03:35	BO				48 12.161	123 42.918		132					
		03:38	EN				48 12.148	123 42.890							
20	69	04:10	BE	ROS		74	48 15.558	123 43.447	180		298-313	16			
		04:14	BO				48 15.569	123 43.022		170					
		04:27	EN				48 15.308	123 42.503							
20	70	05:08	BE	CTD		75	48 19.168	123 43.128	158						
		05:11	BO				48 19.181	123 43.157		148					
		05:14	EN				48 19.19	123 43.114							
20	71	06:34	BE	CTD		76	48 22.17	123 59.369	113						
		06:36	BO				48 22.181	123 59.389		103					
		06:39	EN				48 22.184	123 59.400							
20		23:46*		LOOP22			48 21.867	123 59.846	182				RE:DA		
20	72	07:56	BE	ROS		77	48 18.624	123 3.784	187		314-330		RE:DA		
		08:01	BO				48 18.626	123 3.726		177					
		08:17	EN				48 18.525	123 3.623							
20	73	09:28	BE	CTD		78	48 14.939	123 6.574	161						
		09:31	BO				48 14.942	123 6.608		153					
		09:36	EN				48 14.959	123 6.636							

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

Program crashed after
 Pump shut down

Daily_log_book.doc

* Pacific Daylight Time?

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
20	LOOP	0400		LOOP22		—	48 19 415	124 20 942							Loop should be 23, not 22
26	101	1248	BE	CTD		79	48 25 512	124 45 016	242						
		1254	BO				48 25 534	124 45 024		241					
		1301	EN				48 25 540	124 45 130							
20	102	1429	BE	ROS		80	48 29 939	124 44 006	260		331-348	18			
		1436	BO				48 29 899	124 43 931		250					
		1455	EN				48 29 752	124 43 948							
20	LOOP 24	15.02		LOOP24			48 29.911	124 44.165							
20	103	15:51	BE	CTD		81	48.32.765	124 43.160	125						ETD HQ
		15:55	BO				48 32.98	124 43.165		117					
		15:58	EN				48 32.98	124 43.193							
20	76	17:07	BE	ROS		82	48 31.378	124 30.228	93		349-356				may enter station number incorrectly
		17:16	BO				48 31.367	124 30.268		85					
		17:18	EN				48 31.339	124 30.372							
20	76	17:28	BE	ROS		83	48 31.389	124 30.230							
		17:38	EN				48 31.347	124 30.264							
20	75	18:08	BE	ROS		84	48 28.768	124 32.764	223		357-375	19			
		18:14	BO				48 28.296	124 32.776		213					
		18:32	EN				48 28.248	124 32.898							

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* Appended to PPT

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				loop 25		85	48 25.191	124 35.820							
20	74	19:29	BO	CTD/opt		85	48 25.102	124 35.608	185		376-384		DA & RG		
		19:34	BO				48 25.080	124 35.548		175			RG & DA		
		19:43	EN				48 25.062	124 35.479							Bot depth at depth of wave.
20		6:30	PT*	LOOP 26			48 23.094	123 14.657							
21	61	202	BE			86	48 29.122	123 9 193	286				LE	✓	
		209	BO				48 29.128	123 9 193		286					
		216	EN				48 29.183	123 9 230							
21	60	254	BE	CTD		87	48 33.944	123 12.828		291					
		301	BO				48 33.966	123 12.778			280				
		308	EN				48 34.052	123 12.728							
21	Loop 26	02:57		Loop 26			48 33.95	123 12.811							
21	59	03:38	BE	ROS		88	48 37.844	123 14.655	233		385-402				
		03:44	BO				48 37.865	123 14.552		228					
		04:01	EN				48 38.032	123 14.538							

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* Seems more likely to be PDT and probably p.m.