

DAILY LOG BOOK

MISSION
NUMBER

2007-43

DATE:

From: June 4, 07

to: June 9, 07

VESSEL:

Vector

PROJECT:

SoG - JdF

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

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

Mission Participants / Agencies:

Scientific Personnel:

Name	Watch	Cabin	Name
SV. J. T.			Diane Masson

[illegible][illegible][illegible]

Data logging computer: PAC02588 HQ COMPAG
Data acquisition program: SEASAVE
CTD deck unit make: SBE model: 11 serial number: 0619
Primary CTD

Make: SEAGRAM model: 911 serial number: _____

Primary temperature serial number: 2663 model: _____ serial number: _____

Primary conductivity serial number: 2128

Secondary temperature serial number: 2038

Secondary conductivity serial number: 2173

Transmissometer: Chelsea/Serlach Model: 1010

Fluorometer: Model Seaquant Cable gain: 10

Oxygen sensor: SBE Model: SBE

PAR sensor: LI-190R Model: _____Other sensors: pressure

Other sensors: ALTIMETER

Other sensors:

Other sensors: _____

Primary CTD

Make: _____ model: _____ serial: _____

Primary temperature serial number: _____

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer: _____ Model: _____
 Extinctionmeter: M 11 _____

Fluorometer: Model _____ Cable gain: _____

Oxygen sensor: _____ Model: _____
 MAP sensor: _____

PAR sensor: _____ Model: _____
Other sensors: _____

Other sensors:

Other sensors: _____
Other sensors: _____
Other sensors: _____Other sensors: _____
Other sensors: _____
Other sensors: _____

Owner sensors:

CTD calibration bottle location (height above CTD in metres): 1.41

Rosette Setup:

Number of bottles: 24
Manufacturer: _____
Volume of Bottles (litres): 20 L

Winches:

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

Comments on performance during cruise:

Salinometer:

Make: _____ Model: _____ Serial #: _____

Comments on performance during cruise:

Oxygen Kit #

Comments on performance of kit and chemicals:

Thermosalinograph System:

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

Comments on performance during cruise:

ADCP Setup:

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

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??) Digital (output) reader not working - no spare.

CTD pressure reading on deck (db): 29 db
(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: 002
(Average from the Mixed Region)

Secondary Salinity- Primary Salinity: 002
(Average from the Mixed Region)

Additional Comments:

DAILY LOG

Ocean Sciences and Productivity Division

(Digital readout not working)
on watch

INSTITUTE OF OCEAN SCIENCES

DAILY LOG																Ocean Sciences and Productivity Division																Cruise ID															
Month				Year				Ship								Cruise ID																															
June				2007				Vector								2007-43																															
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	51	22:40	BE	ROS	UN	1	48 39.546	123 30.046	143		42	2			for Sheila's info: 0.29 db sitting on deck																																
			BO				48 39.559	123 30.050		102																																					
		22:45	EN				48 39.586	123 30.047																																							
5	59	00:41	BE	CTD		2	48 37.858	123 14.672	228				10/BS		* entered as 58																																
	see note	00:52	BO				48 37.847	123 14.630		220					* should have been a rosette.																																
		00:58	EN				48 37.883	123 14.657																																							
5	60	1:40	BE	ROS	UN	3	48 33.894	123 12.815	293		3-16	14	10/BS		entered as 59 on computer and on labels																																
		1:49	BO				48 34.003	123 12.707		279																																					
5		2:03	EN				48 34.492	123 12.719																																							
5	61	03:00	BE	CTD		4	48 29.165	123 9.274	288																																						
		03:10	BO				48 29.222	123 9.194		280																																					
		03:17	EN				48 29.322	123 9.266																																							
5	67	04:29	BE	CTD		5	48 22.77	123 18.11	110																																						
		04:32	BO				48 22.77	123 18.11		102																																					
		04:34	EN				48 22.78	123 18.10																																							
5	101	11:20	BE	CTD		6	48 25.553	124 45.133	253				10/BS																																		
		11:27	BO				48 25.663	124 45.130		261																																					
		11:32	EN				48 25.687	124 45.151																																							

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
DN = down/no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

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

Daily_log_book.doc

It is all DFO's fault!

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2007</i>			Ship <i>Vector</i>				Cruise ID <i>2007-43</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							
5	102	1212	BE	ROS		7	48 30 010	124 44 092	257		17-31	15	M/AS	✓	back down to 175m
		1217	BO				48 30 020	124 44 180		259					to fire a bottle on the way up
		1228	EN				48 30 044	124 44 273							
	103	1259	BE	CTD		8	48 33 016	124 43 052	123					✓	calm
		1302	BO				48 33 019	124 43 069		122					light swell.
		1305	EN				48 33 035	124 43 074							overcast
	76	1407	BE	CTD		9	48 31 394	124 29 978	88				M/AS	✓	
		1409	BO				48 31 388	124 29 977		85					
		1411	EN				48 31 382	124 29 983							
5	75	1441	BE	ROS		10	48 28 247	124 32 843		221	32-45		M/AS	✓	
		1446	BO				48 28 234	124 32 887		226					
		1454	EN				48 28 230	124 32 924							
	74	1525	BE	CTD		11	48 25 157	124 36 674	186						
		1529	BO				48 25 19	124 36 77		187					
		1533	EN				48 25 23	124 36 86							
	73	1824	BE	CTD		12	48 15 05	124 6 72	160						
		1828	BO				48 15 12	124 6 86		160					
		1831	EN				48 15 15	124 6 94							

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
DN = down/no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>			Year <i>2007</i>			Ship <i>Vector</i>			Cruise ID <i>2007-43</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
5	72	19:08	BE	ROS	UN	13	48° 18.721'	124° 4.048'	196	188.5	46→58	13	DT, OC	✓	* missed top 10m on way down.
		19:12	BO				48 18.826	124 4.218							
		19:21	EN				48 18.971	124 4.463							
5	71	19:59	BE	CTD		14	48 22.090	123 59.419	110				DT, OC	✓	light wind, some sun
		20:02	BO				48 22.105	123 59.449		107					
		20:05	EN				48 22.144	123 59.503							
5	70	21:22	BE	CTD		15	48 19.190	123 43.174	156				DT, OC	✓	sunny, windy (force 5)
		21:26	BO				48 19.189	123 43.219		152					
		21:30	EN				48 19.194	123 43.234							
5	69	22:02	BE	ROS	UN	16	48 15.755	123 43.154	183		59→70		DT, OC	✓	"
		22:08	BO				48 15.824	123 43.199		179					
		22:15	EN				48 15.870	123 43.313							
5	68	22:50	BE	CTD		17	48 12.157	123 43.099	140				DT, OC	✓	"
		22:55	BO				48 12.120	123 43.135		138					
		22:59	EN				48 12.101	123 43.126							
6	105	00:53	BE	CTD		18	48 11 057	123 18 947	89				DT, OC	✓	
		00:57	BO				48 11 054	123 18 949		85					
		00:59	EN				48 11 047	123 18 952							

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
 DN = down/no stop

Time Code

BE = beginning time of cast
 BO = bottom time of cast
 EN = end time of cast

DE = deployment time

MR = messenger release time
 RE = recover mooring time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2007</i>			Ship <i>Vecton</i>				Cruise ID <i>2007-43</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							
6	ADCP	1:25	BE	ROS	UN	19	48 14.000	123 17.962	121		71-80	10	TH/BS	✓	
		1:30	BO				48 14.005	123 18.040		118					
		1:37	EN				48 14.000	123 18.048							
6	104	2:24	BE	CTD		20	48 20.106	123 17.944	81				TH/BS	✓	
		2:27	BO				48 20.135	123 17.902		78					
		2:29	EN				48 20.141	123 17.884							
6	66	0253	BE	CTD		21	48 19.39	123 13.98	100				TH/BS		
		0256	BO				48 19.44	123 13.93		96			STet		
		0258	EN				48 19.45	123 13.85							
6	65	03:31	BE	ROS	UN	22	48 15.92	123 9.67	123		81-90	10		✓	
		03:35	BO				48 15.916	123 9.69		115					
		03:42	EN				48 15.88	123 9.72							
6	64	0414	BE	CTD		23	48 12.83	123 05.75	110					✓	
		0417	BO				48 12.83	123 05.74		105					
		0419	EN				48 12.82	123 05.73							
6	63	0458	BE	CTD		24	48 14.60	122 58.48	153						
		05:03	BO				48 14.61	122 58.51		147					
		05:07	EN				48 14.59	122 58.53							

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
DN = down/no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time

MR = messenger release time
RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2007</i>			Ship <i>Vecton</i>				Cruise ID <i>2007-43</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							
6	62	06:42	BE	ROS		25	48 22.78	123 2.57	149		91-101	11			
		06:46	BO				48 22.74	123 2.61		144					
		06:52	EN				48 22.75	123 2.65							
6	54	9:03	BE	CTD		26	48 26.590	122 44.261	80				DT, OC	✓	Dark out, calm
		9:06	BO				48 26.567	122 44.227		77					
		9:08	EN				48 26.554	122 44.230							
6	53	10:01	BE	CTD		27	48 33.149	122 44.952	60				DT, OC	✓	Pump turned on at ~10m on way down. T, S look OK, O ₂ affected
		10:03	BO				48 33.149	122 44.954		58					
		10:05	EN				48 33.140	122 44.950							
6	52	10:54	BE	CTD		28	48 38.890	122 43.295	82				DT, OC		
		10:57	BO				48 38.852	122 43.267		81					
		10:59	EN				48 38.831	122 43.250							
6	51	12:18	BE	CTD		29	48 46.712	122 51.574	163				TH/OS	✓	
		12:21	BO				48 46.704	122 51.574		160					
		12:24	EN				48 46.696	122 51.574							
6	56	13:43	BE	ROS		30	48 46.404	123 1.607	211		102-115	18	TH/HS	✓	
		13:45	BO				48 46.403	123 1.597		209					
		13:53	EN				48 46.412	123 1.596							

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
DN = down/no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time

MR = messenger release time
RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>JUNE</u>				Year <u>2007</u>			Ship <u>VECTOR</u>				Cruise ID <u>2007-43</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							
6	57	14:29	BE	CTD	1	31	48 44.016	123 8 132	160				70/BS	✓	
		14:33	BO				48 44.008	123 8 170		158					
		14:36	EN				48 44.011	123 8 189							
6	58	15:08	BE	CTD		32	48 42.97	123 14.30	336				ST	✓	
		15:15	BO				48 43.00	123 14.38		330					
		15:21	EN				48 43.01	123 14.39							
6	47	17:14	BE	CTD		33	48 49.27	123 6.19	184						
		17:18	BO				48 49.27	123 6.17		180					
		17:22	EN				48 49.28	123 6.16							
6	48	17:47	BE	CTD		34	48 51.67	123 3.11	216						
		17:52	BO				48 51.68	123 3.11		216					
		17:56	EN				48 51.69	123 3.11					ST	✓	
6	49	18:33	BE	CTD		35	48 54.99	122 59.53	134				↓		
		18:36	BO				48 54.96	122 59.46		127					
		18:39	EN				48 54.95	122 59.47							
6	50	19:08	BE	CTD		36	48 57.732	122 56.000	26				DT, OC	✓	
		19:09	BO				48 57.714	122 55.986		22					
		19:10	EN				48 57.710	122 55.981							

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
DN = down/no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time

MR = messenger release time
RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2007</i>			Ship <i>Victor</i>				Cruise ID <i>2007-43</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							
<i>6</i>	<i>44</i>	<i>20:05</i>	<i>BE</i>	<i>CTD</i>		<i>37</i>	<i>48 56.735</i>	<i>123 5.975</i>	<i>119</i>		<i>120</i>	<i>1</i>	<i>DT, OC</i>	<i>✓</i>	<i>* plankton sample from surface bottle.</i>
		<i>20:09</i>	<i>BO</i>				<i>48 56.688</i>	<i>123 5.874</i>		<i>117</i>					
		<i>20:12</i>	<i>EN</i>				<i>48 56.656</i>	<i>123 5.792</i>							
<i>6</i>	<i>45</i>	<i>20:37</i>	<i>BE</i>	<i>CTD</i>		<i>38</i>	<i>48 53.803</i>	<i>123 8.333</i>	<i>128</i>				<i>DT, OC</i>	<i>✓</i>	
		<i>20:40</i>	<i>BO</i>				<i>48 53.702</i>	<i>123 8.232</i>		<i>126</i>					
		<i>20:44</i>	<i>EN</i>				<i>48 53.633</i>	<i>123 8.140</i>							
<i>6</i>	<i>46</i>	<i>21:07</i>	<i>BE</i>	<i>ROS</i>		<i>39</i>	<i>48 51.270</i>	<i>123 10.811</i>	<i>191</i>		<i>121 →</i>		<i>DT, OC</i>	<i>✓</i>	<i>bottle 3 = 125m = sample 118 was fired at 100m (DT)</i>
		<i>21:12</i>	<i>BO</i>				<i>48 51.238</i>	<i>123 10.752</i>		<i>188</i>					
		<i>21:20</i>	<i>EN</i>				<i>48 51.233</i>	<i>123 10.758</i>							
<i>6</i>	<i>43</i>	<i>23:04</i>	<i>BE</i>	<i>CTD</i>		<i>40</i>	<i>49 0 214</i>	<i>123 30 121</i>	<i>195</i>				<i>10/15</i>	<i>✓</i>	<i>samples 118+119 can be used as duplicate</i>
		<i>23:09</i>	<i>BO</i>				<i>49 0 215</i>	<i>123 30 091</i>		<i>194</i>					
		<i>23:13</i>	<i>EN</i>				<i>49 0 181</i>	<i>123 30 194</i>							
<i>6</i>	<i>42</i>	<i>23:43</i>	<i>BE</i>	<i>ROS</i>		<i>41</i>	<i>49 1 781</i>	<i>123 26 228</i>	<i>319</i>		<i>128-143</i>	<i>16</i>	<i>10/15</i>	<i>✓</i>	
		<i>23:50</i>	<i>BO</i>				<i>49 1 795</i>	<i>123 26 204</i>		<i>314</i>					
		<i>00:03</i>	<i>EN</i>				<i>49 1 793</i>	<i>123 26 282</i>							
<i>7</i>	<i>41</i>	<i>00:47</i>	<i>BE</i>	<i>CTD</i>		<i>42</i>	<i>49 3 295</i>	<i>123 22 324</i>	<i>241</i>				<i>11/15</i>		
		<i>00:52</i>	<i>BO</i>				<i>49 3 274</i>	<i>123 22 343</i>		<i>240</i>					
		<i>00:57</i>	<i>EN</i>				<i>49 3 295</i>	<i>123 22 346</i>							

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
 DN = down/no stop

Time Code

BE = beginning time of cast
 BO = bottom time of cast
 EN = end time of cast

DE = deployment time

MR = messenger release time
 RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month JUNE				Year 2007				Ship VECTOR				Cruise ID 2007-43			
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							
1	37	207	BE	CTD		43	49 13 59.5	123 20 6.77	213				10/68		
		212	BO				49 13 61.9	123 20 6.59		205					
		216	EN				49 13 62.2	123 20 6.57							
7	38	0247	BE	CTD		44	49 12.00	123 26.38	309				ST	✓	
		0255	BO				49 11.98	123 26.38		300					
		0300	EN				49 11.98	123 26.40							
	39	03:40	BE	ROS	UN	45	49 9.84	123 32.95	376		149-160	17			
		03:48	BO				49 9.87	123 33.03		370					
		04:01	EN				49 9.87	123 33.06							
	40	0428	BE	CTD		46	49 08.62	123 36.77	140						
		0432	BO				49 08.62	123 36.81		136					
		0435	EN				49 08.62	123 36.81							
	26	05:47	BE	CTD		47	49 14.28	123 50.79	246						
		05:53	BO				49 14.29	123 50.82		246					
		05:59	EN				49 14.33	123 50.82							
	27	06:33	BE	ROS		48	49 19.09	123 47.98	348		161-176				bottle 15 dnf
		06:40	BO				49 19.09	123 47.87		340		16			(did not fire)
		06:52	EN				49 19.12	123 47.81							

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
DN = down/no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2007</i>				Ship <i>Victor</i>				Cruise ID <i>2007-43</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							
7	28	7:35	BE	CTD		49	49 24.389	123 45.310	156				DT, OC	✓	
		7:39	BO				49 24.395	123 45.312		154					
		7:43	EN				49 24.390	123 45.325							
7	24	9:25	BE	CTD		50	49 30.282	124 5.981	428				DT, OC	✓	1 lugolia sample
		9:34	BO				49 30.284	124 6.031		423	*	1			from surface
		9:42	EN				49 30.256	124 6.016							(not numbered)
7	25	10:06	BE	CTD		51	49 27.700	124 7.530	299				DT, OC	✓	
		10:12	BO				49 27.690	124 7.486		296					
		10:17	EN				49 27.685	124 7.426							
7	2	10:46	BE	ROS		52	49 24.118	124 9.275	278		177-191		DT, OC	✓	
		10:52	BO				49 24.073	124 9.289		275					
		11:02	EN				49 24.035	124 9.335							
7	1	11:33	BE	CTD		53	49 20.279	124 12.120	in file 256	344			11/05	✓	
		11:39	BO				49 20.238	124 12.115			238				
		11:43	EN				49 20.215	124 12.112							
7	4	12:37	BE	CTD		54	49 24.476	124 22.112	345				11/05	✓	
		12:43	BO				49 24.462	124 22.099		333					
		12:49	EN				49 24.469	124 22.112							

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
DN = down/no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time

MR = messenger release time
RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2007</i>				Ship <i>Vectra</i>				Cruise ID <i>2007-43</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							
7	3	13:28	BE	ROS		55	49 26 606	124 20 213	322		192-207	16	AM/AS	✓	
		13:35	BO				49 26 606	124 20 201		314					
		13:44	EN				49 26 593	124 20 177							
7	5	14:32	BE	CTD		56	49 27 412	124 30 786	316				AM/AS	✓	
		14:38	BO				49 27 432	124 30 752		309					
		14:44	EN				49 27 442	124 30 702							
7	6	15:11	BE	ROS		57	49 30.59	124 27.79	192		208-220	13	ST		
		15:16	BO				49 30.59	124 27.78		187					
		15:21	EN				49 30.60	124 27.73							
7	7	15:55	BE	CTD		58	49 34.37	124 24.21	348						
		16:02	BO				49 34.37	124 24.22		345					
		16:08	EN				49 34.36	124 24.20							
7	8	16:59	BE	CTD		59	49 39.27	124 32.97	338						
		17:05	BO				49 39.25	124 33.02		333					
		17:11	EN				49 39.18	124 33.05							
	9	17:45	BE	ROS		60	49 35.50	124 38.30	168		221-232	12			
		17:49	BO				49 35.49	124 38.31		162					
		17:54	EN				49 35.48	124 38.32							

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
DN = down/no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>JUNE</u>				Year <u>2007</u>			Ship <u>Vector</u>				Cruise ID <u>2007-43</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
7	10	18:47	BE	CTD		61	49 40.699	124 47.286	94				ST		
		18:50	BO				49 40.681	124 47.34		92					
		18:52	EN				49 40.672	124 47.317							
7	11	19:16	BE	CTD		62	49 42.389	124 43.406	301				DT, OC	✓	
		19:24	BO				49 42.402	124 43.411		295					
		19:30	EN				49 42.388	124 43.408							
7	12	19:49	BE	ROS		63	49 43.632	124 40.820	357				DT, OC	✓	→ wait 30 sec for each bottle
		19:58	BO				49 43.663	124 40.836		354					
		20:18	EN				49 43.711	124 40.919							
7	13	21:52	BE	CTD		64	49 55.302	124 55.218	235				DT, OC	✓	
		21:57	BO				49 55.297	124 55.234		227					
		22:03	EN				49 55.294	124 55.241							→ wait 30 sec for each bottle
7	14	22:37	BE	ROS		65	49 53.008	124 59.615	314				DT, OC	✓	* local time on computer??
		22:45	BO				49 53.015	124 59.628		311					
		23:04	EN				49 52.992	124 59.735							(not UTC any more)
7	15	23:41	BE	CTD		66	49 51.644	125 160.2128					DT, OC	✓	
		23:44	BO				49 51.628	125 160.32							
		23:47	EN				49 51.601	125 160.37							

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
 DN = down/no stop

Time Code

BE = beginning time of cast
 BO = bottom time of cast
 EN = end time of cast

DE = deployment time

MR = messenger release time

RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>JUNE</i>				Year <i>2007</i>				Ship <i>VECTOR</i>				Cruise ID <i>2007-43</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								
9	21	1:25	BE	CTD		67	50 1.99	125 13.579	76							
		1:27	BO				50 1.979	125 13.585		71					back to UTC time on computer.	
		1:30	EN				50 1.952	125 13.436								
8	16	2:06	BE	ROS		68	49 57.712	125 8.712	152		266-276	11			strong current	
		2:09	BO				49 57.703	125 8.698		150					bottle triggered	
		2:15	EN				49 57.600	125 8.723							on the fly	
8	17	2:40	BE	CTD		69	49 58.804	125 4.247	265	260					because we are drifting away.	
		2:47	BO				49 58.800	125 4.265								
		2:53	EN				49 58.811	125 4.308								
8	18	0320	BE	CTD		70	49 59.18	124 58.88	144				ST		popoises!	
		0324	BO				49 59.17	124 58.84		140						
		0327	EN				49 59.16	124 58.84								
	19	0401	BE	CTD		71	50 01.18	124 52.88	272							
		0407	BO				50 01.18	124 52.84		265						
		0412	EN				50 01.17	124 52.87								
	20	0624	BE	CTD		72	49 47.20	124 32.31	312				ST			
		0631	BO				49 47.20	124 32.28		304						
		0637	EN				49 47.18	124 32.33								

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
DN = down/no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

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

Daily_log_book.doc

Daily_log_book.doc