

DAILY LOG BOOK

MISSION
NUMBER

2003-24

DATE:

From: JUNE 16 to: JUNE 20

VESSEL:

VECTOR

PROJECT:

MASSON - Juan de Fuca

Georgia Strait

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

Captain: Andy Quane First Officer: Date
Second Officer: Mark Third Officer:

Mission Participants / Agencies: Diane Masson

Scientific Personnel:

Party Chief: Sophie Johnsen

[illegible]

Second leg of Mission:

Party Chief:

[illegible]

Data logging computer:

Data acquisition program: Seasoft / Seasave

CTD deck unit make: Seabird model: 911 serial number: 04244

Primary CTD

Make: *Seabird* model: *911* serial number: *0443*

Primary temperature serial number: 2038

Primary conductivity serial number: 2173

Secondary temperature serial number: 2968

Secondary conductivity serial number: 1729

Transmissometer: _____ Model: Chokes s/n: 498 D12

Fluorometer: Model Seamount Cable gain: 16 X 0-15 s/n: 2228

Oxygen sensor: None Model: None s/n: None

PAR sensor:	None	Model:	s/n:
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Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

	s/n:
Other sensors:	

Other sensors:	s/n:

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/m: _____

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

Oxygen sensor: _____ Cable gain: _____ s/l: _____
 Model: _____ s/n: _____

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

Other sensors: _____ s/n: _____

Other sensors:	s/n:

Other sensors:	s/n:	s/n:

Other sensors:	s/n:

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

Rosette Setup:

Number of bottles: 24 (Ocean Test Equip., General Oceanics, IOS)
Manufacturer: _____
Volume of bottles (litres): 20

Winches:

- | | | | | | | | |
|----------|-------|--------|-------|-----------|-------|-----------|-------|
| 1. Make: | _____ | model: | _____ | serial #: | _____ | used for: | _____ |
| 2. Make: | _____ | model: | _____ | serial #: | _____ | used for: | _____ |
| 3. Make: | _____ | model: | _____ | serial #: | _____ | used for: | _____ |
| 4. Make: | _____ | model: | _____ | serial #: | _____ | used for: | _____ |
| 5. Make: | _____ | model: | _____ | serial #: | _____ | used for: | _____ |
| 6. Make: | _____ | model: | _____ | serial #: | _____ | used for: | _____ |
| 7. Make: | _____ | model: | _____ | serial #: | _____ | used for: | _____ |

Comments: _____

Salinometer: make: _____ model: _____ serial number: _____

Comments: _____

Thermosalinograph System:

Program: _____ Version: _____

Sampling interval (seconds): _____

Fluorometer sensor serial number: _____

Comments: _____

ADCP Setup:

Computer time zone: _____

User Exits: Name: _____ Exit points: _____

Sampling interval (sec): _____

Name: _____ Exit points: _____

Bin Length: (2^x): _____

Name: _____ Exit points: _____

Pulse Length: _____ Work File: _____

Buffer (bytes): _____

Gyro Offset: _____

Comments: _____

Comments: _____

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

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Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
<i>16</i>	<i>SI</i>	<i>2048</i>	<i>ROS</i>	<i>BE</i>	<i>1</i>	<i>48 39 19</i>	<i>123 29 02</i>	<i>80</i>	<i>60</i>			<i>ST</i>	☒	
		<i>2052</i>		<i>BO</i>		<i>48 39 19</i>	<i>123 28 98</i>							
		<i>2052</i>		<i>EN</i>		<i>48 39 18</i>	<i>123 28 98</i>							
<i>16</i>	<i>58</i>	<i>2232</i>	<i>CTD</i>	<i>BE</i>	<i>2</i>	<i>48 42 35</i>	<i>123 16 26</i>	<i>333</i>	<i>315</i>			<i>ST</i>		
		<i>2233</i>		<i>BO</i>		<i>48 42 36</i>	<i>123 16 24</i>							
		<i>2244</i>		<i>EN</i>		<i>48 42 32</i>	<i>123 16 16</i>							
<i>16</i>	<i>59</i>	<i>2344</i>	<i>CTD</i>	<i>BE</i>	<i>3</i>	<i>48 37 90</i>	<i>123 14 68</i>	<i>227</i>	<i>206</i>					
		<i>2349</i>		<i>BO</i>		<i>48 38 10</i>	<i>123 14 65</i>							<i>bottle not firing</i>
		<i>2355</i>		<i>EN</i>		<i>48 38 15</i>	<i>123 14 77</i>							
<i>17</i>	<i>59</i>	<i>0005</i>	<i>ROS</i>	<i>BE</i>	<i>4</i>	<i>48 37 80</i>	<i>123 14 70</i>	<i>227</i>	<i>212</i>	<i>1-14</i>	<i>14</i>		☒	
		<i>0011</i>		<i>BO</i>		<i>48 37 88</i>	<i>123 14 75</i>							
		<i>0025</i>		<i>EN</i>		<i>48 38 48</i>	<i>123 15 08</i>							
<i>17</i>	<i>60</i>	<i>1:17</i>	<i>CTD</i>	<i>BE</i>	<i>5</i>	<i>48 33 96</i>	<i>123 12 27</i>	<i>292</i>	<i>285</i>					
		<i>1:22</i>		<i>BO</i>		<i>48 34 13</i>	<i>123 12 93</i>							
		<i>1:26</i>		<i>EN</i>		<i>48 34 30</i>	<i>123 12 98</i>							
<i>17</i>	<i>61</i>	<i>2:24</i>	<i>CTD</i>	<i>BE</i>	<i>6</i>	<i>48 29 01</i>	<i>123 9 13</i>	<i>289</i>	<i>280</i>					
		<i>2:30</i>		<i>BO</i>		<i>48 29 10</i>	<i>123 9 17</i>							
		<i>2:35</i>		<i>EN</i>		<i>48 29 29</i>	<i>123 9 31</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 of cast time

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>2003</i>			Ship <i>Vecton</i>				Cruise ID <i>2003-24</i>			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
<i>17</i>	<i>62</i>	<i>0335</i>	<i>ROS</i>	<i>BE</i>	<i>7</i>	<i>48 22 73</i>	<i>123 255</i>	<i>153</i>	<i>141</i>	<i>15-25</i>	<i>11</i>	<i>8</i>	<i>✓</i>		
		<i>0341</i>		<i>BO</i>		<i>48 22 73</i>	<i>123 227</i>								
		<i>0351</i>		<i>EN</i>		<i>48 22 72</i>	<i>123 206</i>								
<i>17</i>	<i>101</i>	<i>1341</i>	<i>CTD</i>	<i>BE</i>	<i>8</i>	<i>48 25 46</i>	<i>124 45 16</i>	<i>238</i>	<i>225</i>						
		<i>1348</i>		<i>BO</i>		<i>48 25 49</i>	<i>124 45 34</i>								
		<i>1352</i>		<i>EN</i>		<i>48 25 51</i>	<i>124 45 42</i>								
<i>17</i>	<i>102</i>	<i>1430</i>	<i>ROS</i>	<i>BE</i>	<i>9</i>	<i>48 30 07</i>	<i>124 43 99</i>	<i>254</i>	<i>245</i>	<i>26-39</i>	<i>14</i>	<i>8</i>			
		<i>1436</i>		<i>BO</i>		<i>48 30 05</i>	<i>124 44 04</i>								
		<i>1447</i>		<i>EN</i>		<i>48 30 01</i>	<i>124 44 07</i>								
<i>17</i>	<i>103</i>	<i>1513</i>	<i>CTD</i>	<i>BE</i>	<i>10</i>	<i>48 33 03</i>	<i>124 42 96</i>	<i>125</i>	<i>108</i>				<i>✓</i>		
		<i>1516</i>		<i>BO</i>		<i>48 33 04</i>	<i>124 42 95</i>								
		<i>1518</i>		<i>EN</i>		<i>48 33.06</i>	<i>124 42.94</i>								
<i>17</i>	<i>76</i>	<i>1623</i>	<i>CTD</i>	<i>BE</i>	<i>11</i>	<i>48 31 35</i>	<i>124 29 96</i>	<i>87</i>	<i>83</i>						
<i>17</i>	<i>73</i>	<i>1626</i>		<i>BO</i>		<i>48 31 38</i>	<i>124 29 97</i>								
		<i>1627</i>		<i>EN</i>		<i>48 31 41</i>	<i>124 29 99</i>								
<i>17</i>	<i>75</i>	<i>1656</i>	<i>ROS</i>	<i>BE</i>	<i>12</i>	<i>48 28 31</i>	<i>124 32 80</i>	<i>218</i>	<i>212</i>	<i>40-53</i>	<i>14</i>				
		<i>1701</i>	<i>CTD</i>	<i>BO</i>		<i>48 28 38</i>	<i>124 32 91</i>							<i>Bottle not firing</i>	
				<i>EN</i>											

Cast type: USW = sea water loop • bottle firing method: • Time Code
 BOT = bottle cast, no CTD MOR = mooring • US = up / stop • BE = beginning time of cast
 CTD = CTD without Rosette NET = net haul • UN = up / no stop • BO = bottom time of cast DE = deployment time
 ROS = Rosette plus CTD DRF = drifter • DN = down / no stop • EN = end of cast time MR = messenger release time
 RE = recover mooring time

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

22 March 2002
 Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>					Year <i>2003</i>			Ship <i>Vector</i>				Cruise ID <i>2003-24</i>		
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						Latitude	Longitude							
17	75	1708	ROS	BE	13	48 28 48	124 33 10	218	211	40-53	14	SJ		bottle not firing
		1712		BO		48 28 50	124 33 23			aborted				
				EN										
17	75	1739	ROS	BE	14	48 28 18	124 32 75	218	217	40-53	14			before we fired bottle one bottle fired.
		1745		BO		48 28 22	124 32 85							Pressed fire 3 more times, but
				EN						aborted				still said 1 bottle fired
17	74	1839	CTD	BE	15	48 25 12	124 35 71	194	180					See note →
		1843		BO		48 25 15	124 35 80							
		1846		EN		48 25 17	124 35 84							
17	75	1920	ROS	BE	16	48 28 13	124 32 76	222	219	40-53	14	ST		redo th # 75 b/c
		1925		BO		48 28 10	124 32 76							bottles did not
		1942		EN		48 27 30	124 32 59							fire. Was some
														corrosion inside
17	73	2159	CTD	BE	17	48'14.96	124'06.61	160				ST		cable / on pins.
		2203		BO		48'14.96	124'06.69		153					(ST)
		2205		EN		48'14.96	124'06.70							
17	72	2249	ROS	BE	18	48'18.61	124'03.87	189	180	54-66		ST		
		2254		BO		48'18.60	124'03.65							
		2307		EN		48'18.56	124'03.33							

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Additional comments

- Problems with firing bottles
- water configuration will not maintain proper settings (24; SBE carousel) in the event of a crash.
 - bottles would not fire @ site 75 - tested 2-3x randomly firing - sometimes it tripped, sometimes not
 - system crashed if tried to shut down pumps while acquisition was on
 - Sheila then looked @ connection and cleaned carousel while we returned to STN 74 → tested bottles @ surface - all OK now
 - will go back to 75
- Seasave keeps crashing - it sure doesn't like when you do things out of order - like shutting off the Acq. ^{data} system before the pump
- It keeps going back to some odd default Rosette carousel setting + then messes up our bottles. ST.

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						Latitude	Longitude							
18	71	00:07	CTD	BE	19	48 22 20	123 59 36	108	100					
		00:09		BO		48 22 20	123 59 26							
		00:11		EN		48 22 19	123 59 17							
18	70	1:12	CTD	BE	20	48 19 16	123 43 17	151	145					
		1:16		BO		48 19 11	123 43 05							
		1:18		EN		48 19 06	123 43 04							
18	69	1:42	ROS	BE	21	48 15 55	123 43 19	177	166	467-68	12	70		
		1:47		BO		48 15 48	123 43 04	1						
		1:58		EN		48 15 25	123 42 67							
18	68	2:20	CTD	BE	22	48 12 25	123 42 97	140	131	1			✓	
		2:25		BO		48 12 23	123 42 92							
		2:26		EN		48 12 21	123 42 89							
18	105	3:51	CTD	BE	23	48 11 09	123 19 04	86	80			34	✓	
		3:54		BO		48 11 11	123 19 01							
		3:55		EN		48 11 12	123 19 02							
18	ADCP	4:25	ROS	BE	24	48 13 95	123 17 90	120	107	79-88	10		✓	2m leave
		4:28		BO		48 13 94	123 17 85							
		4:39		EN		48 13 85	123 17 89							

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						Latitude	Longitude							
18	104	0525	CTD	BE	25	48 20.01	123 17.97	85	80			88	✓	
		0527		BO		48 20.01	123 17.94							
		0528		EN		48 20.01	123 17.93							
18	67	0602	CTD	BE	26	48 22.85	123 18.00	104	93			88	✓	
		0603		BO		48 22.87	123 18.05							
		0606		EN		48 22.88	123 18.09							
18	66	0700	CTD	BE	27	48'19.25	123'14.16	105				ST		
		0702		BO		48'19.24	123'14.19		100					
		0703		EN		48'19.24	123'14.20							
18	65	0739	ROS	BE	28	48'16.05	123'09.80	128				ST		
		0742		BO		48'16.09	123'09.85		122					
		0749		EN		48'16.07	123'09.96							
18	64	0855	CTD	BE	29	48'12.80	123'05.74	110				ST	✓	
		0857		BO		48'12.81	123'05.76		100					
		0859		EN		48'12.82	123'05.78							
18	63	0942	CTD	BE	30	48'14.61	122'58.58	157				ST	✓	Beasave) computer crashed for no reason.
		0945		BO		48'14.64	122'58.60		150					
		0946		EN		48'14.65	122'58.63							

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						Latitude	Longitude							
18	514	1201	CTD	BE	31	48 26 58	122 44 25	79	70					1
		1203		BO		48 26 58	122 44 23							
		1204		EN		48 26 58	122 44 23							
18	53	1252	CTD	BE	32	48 33 17	122 45 04	61	59					
		1254		BO		48 33 17	122 45 05							
		1255		EN		48 33 16	122 45 05							
18	52	1339	CTD	BE	33	48 38 39	122 43 27	82	75					
		1341		BO		48 38 39	122 43 27							
		1343		EN		48 38 31	122 43 26							
18	51	1455	CTD	BE	34	48 46 67	122 51 60	159	150					computer crashed
		1459		BO		48 46 66	122 51 62							
		1501		EN		48 46 67	122 51 61							
18	47	1626	CTD	BE	35	48 49 32	123 6 18	188	180					
		1630		BO		48 49 32	123 6 12							
		1633		EN		48 49 30	123 6 12							
18	56	1711	ROS	BE	36	48 46 41	123 16 7	206	203	99-112	14			sample 105 BOT 7 broke in freezer
		1716		BO		48 46 38	123 16 5							
		1729		EN		48 46 37	123 16 9							

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						Latitude	Longitude							
<i>18</i>	<i>57</i>	<i>18:00</i>	<i>CTD</i>	<i>BE</i>	<i>37</i>	<i>484405</i>	<i>123 8 15</i>	<i>156</i>	<i>153</i>					
		<i>18:04</i>		<i>BO</i>		<i>484408</i>	<i>123 8 22</i>							
		<i>18:06</i>		<i>EN</i>		<i>4844.10</i>	<i>123 8.30.</i>							
<i>18</i>	<i>48</i>	<i>1940</i>	<i>CTD</i>	<i>BE</i>	<i>38</i>	<i>48'51.72</i>	<i>123'03.23</i>	<i>226</i>				<i>ST</i>	<i>✓</i>	<i>cleaned + regreased</i>
		<i>1944</i>		<i>BO</i>		<i>48'51.70</i>	<i>123'03.26</i>		<i>221</i>					<i>carousel cable</i>
		<i>1947</i>		<i>EN</i>		<i>48'51.70</i>	<i>123'03.26</i>							<i>(ST)</i>
<i>18</i>	<i>49</i>	<i>2016</i>	<i>CTD</i>	<i>BE</i>	<i>39</i>	<i>48'55.01</i>	<i>122'59.65</i>	<i>132</i>				<i>ST</i>		
		<i>2020</i>		<i>BO</i>		<i>48'55.00</i>	<i>122'59.67</i>		<i>128</i>					
		<i>2022</i>		<i>EN</i>		<i>48'54.99</i>	<i>122'59.67</i>							
<i>18</i>	<i>50</i>	<i>2048</i>	<i>CTD</i>	<i>BE</i>	<i>40</i>	<i>48'57.68</i>	<i>122'56.05</i>	<i>27</i>						
		<i>2049</i>		<i>BO</i>		<i>48'57.68</i>	<i>122'56.04</i>		<i>20</i>			<i>ST</i>		
		<i>2049</i>		<i>EN</i>		<i>48'57.68</i>	<i>122'56.04</i>							
<i>18</i>	<i>44</i>	<i>2135</i>	<i>CTD</i>	<i>BE</i>	<i>41</i>	<i>48'56.80</i>	<i>123'06.02</i>	<i>120</i>				<i>ST</i>		
		<i>2138</i>		<i>BO</i>		<i>48'56.80</i>	<i>123'05.99</i>		<i>110</i>					
		<i>2139</i>		<i>EN</i>		<i>48'56.80</i>	<i>123'05.98</i>							
	<i>45</i>	<i>2208</i>	<i>CTD</i>	<i>BE</i>	<i>42</i>	<i>48'53.92</i>	<i>123'08.44</i>	<i>128</i>				<i>ST</i>		<i>} no sounder readings</i>
		<i>2211</i>		<i>BO</i>		<i>48'53.93</i>	<i>123'08.39</i>		<i>120</i>					
		<i>2213</i>		<i>EN</i>		<i>48'53.93</i>	<i>123'08.37</i>							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month June					Year 2003			Ship Vector				Cruise ID 2003-24			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
18	46	2235	ROS	BE	43	48°51.39	123°10.85	181		113-124	12	ST			
		2238		BO		48°51.41	123°10.87		175						
		2249		EN		48°51.51	123°10.80								
18	GRD6	0350	BoxCORE		44	48°56.191	123°18.792	183	183						
19	43	1:00	CTD	BE	45	49°02.1	123°30.26	190	180						
		1:03		BO		49°02.1	123°30.34								
		1:06		EN		49°02.0	123°30.42								
19	42	1:32	ROS	BE	46	49°17.8	123°26.22	320	315	125-140			✓	A few jellyfish tentacles	
		1:37		BO		49°17.9	123°26.25								
		1:52		EN		49°18.6	123°26.31								
19	41	2:21	CTD	BE	47	49°32.8	123°22.32	243	239				✓	More jellyfish	
		2:25		BO		49°32.7	123°22.32								
		2:28		EN		49°32.7	123°22.34								
19	40	3:31	CTD	BE	48	49°8.67	123°36.81	140	137				✓	Even more jellyfish	
		3:33		BO		49°8.71	123°36.80								
		3:35		EN		49°8.75	123°36.79								

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>					Year <i>2003</i>			Ship <i>Vector</i>				Cruise ID <i>2003-24</i>		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
19	39	0357	ROS	BE	49	49° 9.85	123° 32.88	378	367	141-157		88	✓	No jellyfish!
		0405		BO		49° 9.90	123° 32.75							
		0423		EN		49° 10.09	123° 32.21							
19	38	0455	CTD	BE	50	49° 12.00	123° 26.31	309	305			88	✓	
		0500		BO		49° 12.02	123° 26.23							
		0504		EN		49° 12.09	123° 26.10							
19	37	0532	CTD	BE	51	49° 13.60	123° 20.65	215	210					
		0535		BO		49 13 60	123 20 61							
		0538		EN		49 13 58	123 20 59							
19	GVR02		BOXCORE		52	49 19 88.7	123 18 50.9	76	76					
	26	0841	CTD	BE	53	49° 14.27	123° 50.78	256				ST		hit bottom - oops!
		0847		BO		49° 14.19	123° 50.74		250					bit of mud on
		0849		EN		49° 14.19	123° 50.80							chain only. ST
	27	0930	ROS	BE	54	49° 19.07	123° 48.09	360				ST		
		0937		BO		49° 18.99	123° 48.15		355					
		0952		EN		49° 18.88	123° 48.26							
	28	1033	CTD	BE	55	49° 24.11	123° 45.31	138				ST		touchdown again.
		1036		BO		49° 24.11	123° 45.33		132					
		1038		EN		49° 24.11	123° 45.34							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>					Year <i>2003</i>			Ship <i>Vecton</i>				Cruise ID <i>2003-24</i>		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
19	24	1213	CTD	BE	56	49 30.29	124 6 02	426	410					
		1221		BO		49 30.18	124 6 05							
		1226		EN		49 30.10	124 6 01							
19	25	1248	CTD	BE	57	49 27.71	124 7 56	291	284					
		1255		BO		49 27.71	124 7 55							
		1258		EN		49 27.69	124 7 52							
19	2	1326	ROS	BE	58	49 24.10	124 9 36	277	274	174-188	15	W		
		13		BO		49 24	124 9							
		1344		EN		49 24.02	124 9 84							
19	1	1416	CTD	BE	59	49 20.30	124 12 17	245	234					
		1421		BO		49 20.31	124 12 22							
		1424		EN		49 20.34	124 12 26							
19	4	1514	CTD	BE	60	49 24.59	124 22 17	350	346					
		1520		BO		49 24.61	124 22.20							
		1524		EN		49 24.60	124 22 19							
19	3	1547	ROS	BE	61	49 26.61	124 20 16	325	306	189-204				
		1607		BO		49 26.67	124 20.24							
				EN		49 26.83	124 20.44							

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Month					Year			Ship				Cruise ID			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
19	5	1652	CTD	BE	62	49 27 40	124 30 87	305	300						
		1657		BO		49 27.43	124 30.93								
		1701		EN		49 27.46	124 30.98								
20	6	1:31	ROS	BE	63	49 30 58	124 27 85	193	185						
		1 35		BO		49 30 53	124 27 87			205-217	13	70.			
		1 46		EN		49 30 63	124 27 91								
20	7	218	CTD	BE	64	49 34 43	124 24 22	352	340						
		2 24		BO		49 34 49	124 24 27								
		2 28		EN		49 34 54	124 24 33								
20	8	318	CTD	BE	65	49 39 33	124 33 08	338	329			SJ	✓		
		324		BO		49 39 35	124 33 16								
		328		EN		49 39 36	124 33 21								
20	9	404	ROS	BE	66	49 35 47	124 38 28	169	166			SJ	✓		
		0408		BO		49 35.45	124 38.35								
		0419		EN		49 35.52	124 38.46			218-229	12				
20	GURDIL	0500	Boxcore	BE	67	49 35.50	124 38.27	169	169						
20	10	0629	CTD	BE	68	49 40 71	124 47 37	95	83			SJ.	✓	Accidentally saved as event 67.	
		0631		BO		49 40 70	124 47 35								
		0632		EN		49 40 71	124 47 32								

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month JUNE					Year 2003			Ship Vector				Cruise ID 2003-24			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
20	11	0659	CTD	BE	69	49°42.36	124°43.41	302				ST	✓	It's too cold to be June! Brrrr	
		0704		BO		49°42.33	124°43.45		290						
		0709		EN		49°42.32	124°43.52								
	12	0728	ROS	BE	70	49°43.59	124°40.83								
		0734		BO		49°43.58	124°40.90	356		230-246	17	ST			
		0749		EN		49°43.55	124°41.02		350						
	13	0922	CTD	BE	71	49°55.28	124°55.20	237							
		0927		BO		49°55.26	124°55.22		238			ST			
		0929		EN		49°55.28	124°55.27								
20	14	0954	ROS	BE	72	49°52.99	124°59.61	319		247-261		ST			
		0958		BO		49°52.98	124°59.60		308						
		1014		EN		49°53.01	124°59.60								
20	15	1038	CTD	BE	73	49°51.57	125°01.62	188	118			ST			
		1041		BO		49°51.55	125°01.66								
		1042		EN		49°51.56	125°01.68								
20	21	12:13	CTD	BE	74	50°02.08	125°13.62	78	70			JK			
		1214		BO		50°02.00	125°13.62								
		1216		EN		50°02.00	125°13.62								

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INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>					Year <i>2003</i>			Ship <i>Vectra</i>				Cruise ID <i>2603-24</i>		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
20	16	1304	BE	ROS	75	49 57 66	125 8 79	155	145	262-272	11	JP		
		13 07	BO			49 57 61	125 8 82							
		13 16	EN			49 57 64	125 8 86							
20	17	1342	BE	CTD	76	49 58 79	125 4 37	267	256			JP		
		13 46	BO			49 58 80	125 4 39							
		13 50	EN			49 58 83	125 4 41							
20	18	1417	BE	CTD	77	49 59 21	124 58 93	147	146			JP		
		1420	BO			49 59 19	124 58 95							
		1422	EN			49 59 18	124 58 95							
20	19	1457	BE	CTD	78	50 1 13	124 52 82	269	260					
		1502	BO			50 1 04	124 52 68							
		1506	EN			50 0 99	124 52 60							
20	20	1654	BE	CTD	79	49 47 17	124 32 27	313	303					
		1659	BO			49 47 16	124 32 28							
		1703	EN			49 47 18	124 32 28							
20	22	1817	BE	CTD	80	49 40 14	124 16 28	354	342					
		1823	BO			49 40 14	124 16 28							
		1828	EN			49 40 15	124 16 29							

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