

DAILY LOG BOOK

MISSION
NUMBER

2003-29

DATE:

From: 2/9/2003 to: 6/9/2003

VESSEL:

VECTOR

PROJECT:

Jdf - SOG

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

Captain: _____ First Officer: _____
Second Officer: _____ Third Officer: _____

Mission Participants / Agencies: OSAP

Scientific Personnel: _____
 Name _____
 Party Chief: _____
 Watch _____
 Cabin _____
 Name _____

[illegible]

Second leg of Mission:	Party Chief:
Name	Watch Cabin Name

[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: _____

Transmissometer: _____ Model: _____ s/n: _____
 Fluorometer: Model _____ Cable gain: _____ s/n: _____
P, S or NO pump? _____

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

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

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: _____ 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 _____ s/n: _____
Cable gain: _____ p. S or NO pump? _____

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

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

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

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

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____

_____ s/n: _____ p. S or NO pump?

_____ s/n: _____ p. S or NO pump?

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION															
Month <i>September</i>				Year <i>2003</i>			Ship <i>Vector</i>			Cruise ID <i>2003-29</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>2</i>	<i>51</i>	<i>21²⁶</i>	<i>BE</i>	<i>ROS</i>		<i>1</i>	<i>48 39.746</i>	<i>123 30.275</i>	<i>177</i>					<i>✓</i>	
		<i>21³²</i>	<i>BO</i>				<i>48 39.772</i>	<i>123 30.361</i>	<i>168</i>						<i>Rosette up above the surface then lower again</i>
		<i>21³⁶</i>	<i>EN</i>				<i>48 39.822</i>	<i>123 30.414</i>							
<i>2</i>	<i>59</i>	<i>23 25</i>	<i>BE</i>	<i>ROS</i>		<i>2</i>	<i>48 37 7</i>	<i>123 14 61</i>	<i>219</i>	<i>227</i>					
		<i>23 31</i>	<i>BO</i>				<i>48 37 67</i>	<i>123 14 70</i>		<i>219</i>	<i>3-16</i>	<i>14</i>	<i>DA</i>	<i>✓</i>	
		<i>23 42</i>	<i>EN</i>				<i>48 37 63</i>	<i>123 14 82</i>							<i>Bot 14 1/2 submerged →</i>
<i>3</i>	<i>60</i>	<i>00:21</i>	<i>BE</i>	<i>CTD</i>		<i>3</i>	<i>48 33 90</i>	<i>123 12 73</i>	<i>286</i>						
		<i>00:28</i>	<i>BO</i>				<i>48 33 87</i>	<i>123 12 68</i>		<i>275</i>					
		<i>00:34</i>	<i>EN</i>				<i>48 33.88</i>	<i>123 12-71</i>							
<i>3</i>	<i>61</i>	<i>1:16</i>	<i>BE</i>	<i>CTD</i>		<i>4</i>	<i>48 29 16</i>	<i>123 9 25</i>	<i>274</i>	<i>285</i>					
		<i>1:23</i>	<i>BO</i>				<i>48 29 19</i>	<i>123 9 30</i>	<i>270</i>						
		<i>1:30</i>	<i>EN</i>				<i>48 29 22</i>	<i>123 9 37</i>							
<i>3</i>	<i>103</i>	<i>08:44</i>	<i>BE</i>	<i>CTD</i>		<i>5</i>	<i>48 33 36</i>	<i>124 42 78</i>	<i>102</i>					<i>✓</i>	
		<i>08:49</i>	<i>BO</i>				<i>48 33 36</i>	<i>124 42 708</i>		<i>100</i>			<i>EF</i>		<i>swell</i>
		<i>08:53</i>	<i>EN</i>				<i>48 33 30</i>	<i>124 42 703</i>							
<i>3</i>	<i>102</i>	<i>09:47</i>	<i>BE</i>	<i>ROS</i>		<i>6</i>	<i>48 30 017</i>	<i>124 44 156</i>	<i>259</i>					<i>✓</i>	
		<i>09:54</i>	<i>BO</i>				<i>48 30 018</i>	<i>124 44 082</i>		<i>252</i>					
		<i>10:11</i>	<i>EN</i>				<i>48 30 234</i>	<i>124 43 978</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

28 May 2003
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Cast 2, Stn 59, surface bottle tripped with rosette $\frac{1}{2}$ submerged. ← should be OK!

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>September</i>				Year <i>2003</i>			Ship <i>USC70K</i>				Cruise ID <i>2003-29</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							
3	101	1101	BE	CTD		7	48 25 72	124 45 15	260	255					
		1107	BO				48 25 76	124 45 05		250					
		1112	EN				48 25 78	124 44 99							
3	74	1208	BE	CTD		8	48 25 05	124 35 69	192	178					
		1213	BO				48 25 03	124 35 61	170						
		1218	EN				48 24 99	124 35 45							
3	75	1310	BE	ROS		9	48 28 23	124 32 90	230	225	32-45	14			7/11 no bottle #13
		1318	BO				48 28 32	124 33 02		206					
		1330	EN				48 28 45	124 33 17							
3	76	1431	BE	CTD		10	48 31 36	124 29 80	93	88					
		1433	BO				48 31 36	124 29 73		75					
		1435	EN				48 31 35	124 29 67							
	71	1646	BE	CTD		11	48 22 20	123 59 34	112				DM		
		1650	BO				48 22 21	123 59 3		106					
		1653	EN				48 22 21	123 59 27							
	72	1732	BE	ROS		12	48 18 50	124 4 1	188		46-58	13			
		1737	BO				48 18 47	124 4 12		180					
		1746	EN				48 18 41	124 4 07							

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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>3</i>	<i>73</i>	<i>18:42</i>	<i>BE</i>	<i>CTD</i>		<i>13</i>	<i>48 14 934</i>	<i>124 06 583</i>	<i>161</i>						
		<i>18:46</i>	<i>BO</i>				<i>48 14 904</i>	<i>124 06 479</i>		<i>155</i>					
		<i>18:50</i>	<i>EN</i>				<i>48 18 874</i>	<i>124 06 340</i>							
<i>03</i>	<i>70</i>	<i>20:44</i>	<i>BE</i>	<i>CTD</i>		<i>14</i>	<i>48 19 204</i>	<i>123 43 534</i>	<i>151</i>						
		<i>20:49</i>	<i>BO</i>				<i>48 19 272</i>	<i>123 43 410</i>		<i>146</i>					
		<i>20:52</i>	<i>EN</i>				<i>48 19 322</i>	<i>123 43 434</i>							
<i>03</i>	<i>69</i>	<i>21:27</i>	<i>BE</i>	<i>ROS</i>		<i>15</i>	<i>48 15 652</i>	<i>123 43 283</i>	<i>178</i>		<i>59-70</i>				
		<i>21:32</i>	<i>BO</i>				<i>48 15 763</i>	<i>123 43 285</i>		<i>173</i>					
		<i>21:47</i>	<i>EN</i>				<i>48 16 633</i>	<i>123 43 404</i>							
<i>03</i>	<i>68</i>	<i>22:34</i>	<i>BE</i>	<i>CTD</i>		<i>16</i>	<i>48 12 256</i>	<i>123 43 068</i>	<i>139</i>						
		<i>22:38</i>	<i>BO</i>				<i>48 12 368</i>	<i>123 43 183</i>		<i>133</i>					
		<i>22:45</i>	<i>EN</i>				<i>48 12 427</i>	<i>123 43 302</i>							
<i>04</i>	<i>105</i>	<i>00:38</i>	<i>BE</i>	<i>CTD</i>		<i>17</i>	<i>48 10 88</i>	<i>123 19 11</i>	<i>80</i>						
		<i>00:41</i>	<i>BO</i>				<i>48 10 86</i>	<i>123 19 16</i>		<i>77</i>					
		<i>00:43</i>	<i>EN</i>				<i>48 10 85</i>	<i>123 19 08</i>							
<i>04</i>	<i>170 CP</i>	<i>1:14</i>	<i>BE</i>	<i>ROS</i>		<i>18</i>	<i>48 13 99</i>	<i>123 17 97</i>	<i>120</i>		<i>71-80</i>				
		<i>1:18</i>	<i>BO</i>				<i>48 13 99</i>	<i>123 17 97</i>		<i>111</i>					
		<i>1:25</i>	<i>EN</i>				<i>48 13 99</i>	<i>123 17 99</i>							

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							Latitude	Longitude							
4	104	2:10	BE	CTD		19	48 20 07	123 17 99	82						* see 
		2:13	BO				48 20 10	123 17 97		79					* X
		2:15	EN				48 20 12	123 17 96							
4	67	2:52	BE	CTD		20	48 22 79	123 17 98	106						
		2:55	BO				48 22 82	123 17 89		99					
		2:58	EN				48 22 85	123 17 80							
4	66	3:56	BE	CTD		21	48 19.33	123 14.00	105				DM		
		3:59	BO				48 19.35	123 13.91		97					
		4:02	EN				48 19.37	123 13.85							
4	62	5:00	BE	ROS		22	48 22.84	123 2.56	150		91-101	11			
		5:05	BO				48 22.85	123 2.46		147					
		5:14	EN				48 22.85	123 2.27							
4	65	6:14	BE	ROS		23	48 15.79	123 9.81	128		81-90	10			
		6:18	BO				48 15.73	123 9.83		121					
		6:28	EN				48 15.61	123 9.95							
4	64	07:03	BE	CTD		24	48 12.788	123 5.972	112						
		07:06	BO				48 12.827	123 6.036		107					
		07:09	EN				48 12.864	123 6.103							

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* The CTD indicates consistently 3.5 db pressure at the surface when it should be between 2 to 2.5 db (the height of the rosette). So there seems to be an offset of about 1 m for the pressure sensor.

in fact,  the height of the CTD is 1.7 m.

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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>04</i>	<i>63</i>	<i>07:55</i>		<i>BE</i>	<i>CTD</i>	<i>25</i>	<i>48.14.593</i>	<i>122 58.573</i>	<i>155</i>						
		<i>08:00</i>		<i>BO</i>			<i>48 14.593</i>	<i>122 58.476</i>		<i>150</i>					
		<i>08:04</i>		<i>EN</i>			<i>48 14.64</i>	<i>122 58.41</i>							
<i>04</i>	<i>54</i>	<i>10:10</i>		<i>BE</i>	<i>CTD</i>	<i>26</i>	<i>48.2652</i>	<i>122 44.340</i>	<i>77</i>						
		<i>10:12</i>		<i>BO</i>			<i>48 26.546</i>	<i>122 44.346</i>		<i>72</i>					
		<i>10:16</i>		<i>EN</i>			<i>48 26.574</i>	<i>122 44.358</i>							
<i>04</i>	<i>53</i>	<i>11:22</i>		<i>BE</i>	<i>CTD</i>	<i>27</i>	<i>48 33.33</i>	<i>122 44.66</i>	<i>47</i>						
		<i>11:24</i>		<i>BO</i>			<i>48 33.35</i>	<i>122 44.67</i>		<i>40</i>					
		<i>11:26</i>		<i>EN</i>			<i>48 33.38</i>	<i>122 44.68</i>							
<i>04</i>	<i>52</i>	<i>12:23</i>		<i>BE</i>	<i>CTD</i>	<i>28</i>	<i>48 38.94</i>	<i>122 43.25</i>	<i>83</i>						
		<i>12:25</i>		<i>BO</i>			<i>48 38.98</i>	<i>122 43.25</i>		<i>68</i>					
		<i>12:27</i>		<i>EN</i>			<i>48 39.00</i>	<i>122 43.22</i>							
<i>04</i>	<i>51</i>	<i>13:47</i>		<i>BE</i>	<i>CTD</i>	<i>29</i>	<i>48 46.72</i>	<i>122 51.56</i>	<i>163</i>						
		<i>13:51</i>		<i>BO</i>			<i>48 46.76</i>	<i>122 51.58</i>		<i>155</i>					
		<i>13:54</i>		<i>EN</i>			<i>48 46.79</i>	<i>122 51.60</i>							
<i>04</i>	<i>56</i>	<i>14:56</i>		<i>BE</i>	<i>ROS</i>	<i>30</i>	<i>48 46.36</i>	<i>123 1.61</i>	<i>214</i>		<i>10.2-115</i>	<i>14</i>			
		<i>15:02</i>		<i>BO</i>			<i>48 46.30</i>	<i>123 1.65</i>		<i>210</i>					
		<i>15:13</i>		<i>EN</i>			<i>48 46.23</i>	<i>123 1.49</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
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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INSTITUTE OF OCEAN SCIENCES

Month <i>September</i>				Year <i>2003</i>			Ship <i>VECTOR</i>				Cruise ID <i>2003-29</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>4</i>	<i>57</i>	<i>15:51</i>	<i>BE</i>	<i>CTD</i>		<i>31</i>	<i>48 44.02</i>	<i>123 8.07</i>	<i>158</i>						
		<i>15:55</i>	<i>BO</i>				<i>48 44.08</i>	<i>123 8.01</i>		<i>148</i>					
		<i>15:58</i>	<i>EN</i>				<i>48 44.11</i>	<i>123 7.94</i>							
<i>4</i>	<i>58</i>	<i>16:37</i>	<i>BE</i>	<i>CTD</i>		<i>32</i>	<i>48 43.01</i>	<i>123 14.35</i>	<i>338</i>						
		<i>16:45</i>	<i>BO</i>				<i>48 43.06</i>	<i>123 14.27</i>		<i>337</i>					
		<i>16:51</i>	<i>EN</i>				<i>48 43.14</i>	<i>123 14.10</i>							
<i>4</i>	<i>47</i>	<i>18:24</i>	<i>BE</i>	<i>CTD</i>		<i>33</i>	<i>48 49.30</i>	<i>123 06.24</i>	<i>182</i>						
		<i>18:28</i>	<i>BO</i>				<i>48 49.29</i>	<i>123 06.24</i>		<i>175</i>					
		<i>18:33</i>	<i>EN</i>				<i>48 49.31</i>	<i>123 06.21</i>							
<i>4</i>	<i>48</i>	<i>19:01</i>	<i>BE</i>	<i>CTD</i>		<i>34</i>	<i>48 51.707</i>	<i>123 03.31</i>	<i>227</i>						
		<i>19:07</i>	<i>BO</i>				<i>48 51.69</i>	<i>123 03.30</i>		<i>222</i>					
		<i>19:12</i>	<i>EN</i>				<i>48 51.66</i>	<i>123 03.524</i>							
<i>4</i>	<i>49</i>	<i>19:47</i>	<i>BE</i>	<i>CTD</i>		<i>35</i>	<i>48 55.09</i>	<i>122 59.67</i>	<i>133</i>						
		<i>19:51</i>	<i>BO</i>				<i>48 55.108</i>	<i>122 59.716</i>		<i>130</i>					
		<i>19:54</i>	<i>EN</i>				<i>48 55.115</i>	<i>122 59.766</i>							
<i>4</i>	<i>50</i>	<i>20:22</i>	<i>BE</i>	<i>CTD</i>		<i>36</i>	<i>48 57.75</i>	<i>122 56.17</i>	<i>29</i>						
		<i>20:23</i>	<i>BO</i>				<i>48 57.77</i>	<i>122 56.18</i>		<i>23</i>					
		<i>20:28</i>	<i>EN</i>				<i>48 57.78</i>	<i>122 56.19</i>							

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28 May 2003
 Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>September</i>				Year <i>2003</i>			Ship <i>VECTOR</i>				Cruise ID <i>2003-29</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							
04	44	21:13	BE	CTD		37	48 56.77	123 06.06	122						
		21:16	BO				48 56.79	123 06.07		112					
		21:19	EN				48 56.83	123 06.143							
04	45	21:51	BE	CTD		38	48 53.85	123 08.47	131						
		21:55	BO				48 53.80	123 08.85		124					
		21:58	EN				48 53.79	123 08.57							
04	46	22:24	BE	ROS		39	48 51.37	123 10.81	183		116-127				
		22:28	BO				48 51.34	123 10.84		173					
		22:43	EN				48 51.73	123 10.95							
5	43	00:26	BE	CTD		40	49 0 28	123 30 25	197						
		00:31	BO				49 0 32	123 30 30		191					
		00:36	EN				49 0 34	123 30 33							
5	42	1:03	BE	AOS		41	49 1 76	123 26 19	320		128-142				no sample at 5M
		1:10	BO				49 1 74	123 26 19		314					
		1:24	EN				49 1 70	123 26 32							
5	41	1:53		CTD		42	49 3 18	123 22 31	246						
		1:59					49 3 10	123 22 31		239					
		2:04					49 3 05	123 22 33							

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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>5</i>	<i>37</i>	<i>3:27</i>	<i>BE</i>	<i>CTD</i>		<i>43</i>	<i>49 13.63</i>	<i>123 20.68</i>	<i>213</i>						
		<i>3:35</i>	<i>BO</i>				<i>49 13.69</i>	<i>123 20.68</i>		<i>208</i>					
		<i>3:40</i>	<i>EN</i>				<i>49 13.69</i>	<i>123 20.67</i>							
<i>5</i>	<i>38</i>	<i>4:21</i>	<i>BE</i>	<i>CTD</i>		<i>44</i>	<i>49 11.92</i>	<i>123 26.38</i>	<i>306</i>						
		<i>4:28</i>	<i>BO</i>				<i>49 11.86</i>	<i>123 26.34</i>		<i>296</i>					
		<i>4:34</i>	<i>EN</i>				<i>49 11.86</i>	<i>123 26.31</i>							
<i>5</i>	<i>39</i>	<i>5:13</i>	<i>BE</i>	<i>ROS</i>		<i>45</i>	<i>49 9.74</i>	<i>123 32.84</i>	<i>376</i>		<i>143-159</i>	<i>17</i>			
		<i>5:21</i>	<i>BO</i>				<i>49 9.74</i>	<i>123 32.65</i>		<i>373</i>					
		<i>5:40</i>	<i>EN</i>				<i>49 9.85</i>	<i>123 32.51</i>							
<i>5</i>	<i>40</i>	<i>6:19</i>	<i>BE</i>	<i>CTD</i>		<i>46</i>	<i>49 8.63</i>	<i>123 36.76</i>	<i>154</i>						
		<i>6:23</i>	<i>BO</i>				<i>49 8.69</i>	<i>123 36.79</i>		<i>143</i>					
		<i>6:26</i>	<i>EN</i>				<i>49 8.70</i>	<i>123 36.79</i>							
<i>5</i>	<i>26</i>	<i>07:45</i>	<i>BE</i>	<i>CTD</i>		<i>47</i>	<i>49 14.28</i>	<i>123 50.78</i>	<i>253</i>						<i>Began cast with CTD submerged but bottles out</i>
		<i>07:51</i>	<i>BO</i>				<i>49 14.28</i>	<i>123 50.724</i>		<i>243</i>					<i>to measure CT+D closer to the surface.</i>
		<i>07:55</i>	<i>EN</i>				<i>49 14.202</i>	<i>123 50.654</i>							
<i>5</i>	<i>27</i>	<i>08:34</i>	<i>BE</i>	<i>ROS</i>		<i>48</i>	<i>49 19.128</i>	<i>123 48.049</i>	<i>352</i>		<i>160-175</i>	<i>16</i>			<i>Station name in HDR</i>
		<i>08:41</i>	<i>BO</i>				<i>49 19.14</i>	<i>123 48.084</i>		<i>340</i>					<i>DAT file should be</i>
		<i>08:57</i>	<i>EN</i>				<i>49 19.292</i>	<i>123 48.106</i>							<i>27 not 48.</i>

Cast type:

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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>Sept</i>				Year <i>2003</i>			Ship <i>UEC70K</i>				Cruise ID <i>2003-29</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>5</i>	<i>28</i>	<i>09:46</i>	<i>BE</i>	<i>CTD</i>		<i>49</i>	<i>24 11</i>	<i>123 45 42</i>	<i>137</i>						<i>Jellyfish tentacles!</i>
		<i>09:40</i>	<i>BO</i>				<i>49 24 106</i>	<i>123 45 48</i>		<i>130</i>					
		<i>09:43</i>	<i>EN</i>				<i>49 24 096</i>	<i>123 45 512</i>							
<i>5</i>	<i>24</i>	<i>11:16</i>	<i>BE</i>	<i>CTD</i>		<i>50</i>	<i>49 30 34</i>	<i>124 6 00</i>	<i>430</i>						
		<i>11:25</i>	<i>BO</i>				<i>49 30 41</i>	<i>124 6 10</i>		<i>422</i>					
		<i>11:32</i>	<i>EN</i>				<i>49 30 47</i>	<i>124 6 15</i>							
<i>5</i>	<i>25</i>	<i>11:56</i>	<i>BE</i>	<i>CTD</i>		<i>51</i>	<i>49 27 73</i>	<i>124 7 45</i>	<i>295</i>						
		<i>12:03</i>	<i>BO</i>				<i>49 27 80</i>	<i>124 7 42</i>		<i>286</i>					
		<i>12:08</i>	<i>EN</i>				<i>49 27 84</i>	<i>124 7 39</i>							
<i>5</i>	<i>2</i>	<i>12:39</i>	<i>BE</i>	<i>ROS</i>		<i>52</i>	<i>49 24 15</i>	<i>124 9 36</i>	<i>278</i>		<i>176-190</i>				
		<i>12:45</i>	<i>BO</i>				<i>49 24 22</i>	<i>124 9 45</i>		<i>270</i>					
		<i>12:55</i>	<i>EN</i>				<i>49 24 26</i>	<i>124 9 53</i>							
<i>5</i>	<i>1</i>	<i>13:28</i>	<i>BE</i>	<i>CTD</i>		<i>53</i>	<i>49 20 46</i>	<i>124 12 08</i>	<i>258</i>						
		<i>13:34</i>	<i>BO</i>				<i>49 20 53</i>	<i>124 12 10</i>		<i>247</i>					
		<i>13:39</i>	<i>EN</i>				<i>49 20 58</i>	<i>124 12 12</i>							
<i>5</i>	<i>4</i>	<i>14:32</i>	<i>BE</i>	<i>CTD</i>		<i>54</i>	<i>49 24 50</i>	<i>124 22 09</i>	<i>340</i>						
		<i>14:39</i>	<i>BO</i>				<i>49 24 48</i>	<i>124 22 12</i>		<i>330</i>					
		<i>14:45</i>	<i>EN</i>				<i>49 24 46</i>	<i>124 22 16</i>							

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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							
5	3	15:09	BE	ROS		55	49 26.63	124 20.23	322		191-206	16	D.M.		nice morning
		15:19	BO				49 26.64	124 20.41		316					a few clouds
		15:30	EN				49 26.72	124 20.61							
	5	16:18	BE	CTD		56	49 27.37	124 30.81	315						*Add -1.0 m offset
		16:25	BO				49 27.36	124 30.90		310					to 0585ctd.com.
		16:30	EN				49 27.36	124 30.95							
	6	17:02	BE	ROS		57	49 30.56	124 27.72	194		207-219	13			
		17:06	BO				49 30.56	124 27.63		189					
		17:15	EN				49 30.58	124 27.48							
	7	17:46	BE	CTD		58	49 34.45	124 24.09	352						
		17:53	BO				49 34.55	124 24.08		346					
		17:59	EN				49 34.65	124 24.20							
	9	19:04	BE	ROS		59	49 35.42	124 38.23	167		220-230	11			
		19:09	BO				49 35.42	124 38.17		163.5					
		19:19	EN				49 35.51	124 37.97							
	8	19:57	BE	CTD		60	49 39.38	124 32.83	336						
		20:04	BO				49 39.45	124 32.68		330					
		20:11	EN				49 39.48	124 32.56							

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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							
5	12	21:00	BE	ROS		61	49 43.61	124 40.56	357		231-245	15		✓	
		21:08	BO				49 43.61	124 40.56		354					
		21:24	EN				49 43.58	124 40.32							
5	11	21:49	BE	CTD		62	49 42.92	124 43.30	302					✓	
		21:55	BO				49 42.43	124 43.22		297					
		22:01	EN				49 42.47	124 43.16							
5	10	22:30	BE	CTD		63	49 40.76	124 47.33	98						
		22:33	BO				49 40.80	124 47.28		98					
		22:35	EN				49 40.86	124 47.26							
6	15	00:06	BE	CTD		64	49 51.60	125 1 58	132						
		00:09	BO				49 51.60	125 1 56		124					
		00:12	EN				49 51.61	125 1 54							
6	14	00:32	BE	ROS		65	49 52.96	124 59.48	318		246-261	16			
		00:40	BO				49 52.95	124 59.34		309					
		00:52	EN				49 53.02	124 59.12							
6	13	124	BE	CTD		66	49 55.28	124 55.06	240						
		130	BO				49 55.26	124 55.09		238					
		135	EN				49 55.24	124 55.10							

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							Latitude	Longitude							
6	18	2:14	BE	CTD		67	49 59.20	124 59.09	146				<i>10</i>		
		2:18	BO				49 59.19	124 59.09		142					
		2:21	EN				49 59.19	124 59.11							
6	17	2:49	BE	CTD		68	49 58.75	125 4.27	268						
		2:55	BO				49 58.77	125 4.28		261					
		3:00	EN				49 58.81	125 4.31							
	16	3:27	BE	ROS		69	49 57.71	125 8.68	155		262-272	11			
		3:30	BO				49 57.70	125 8.68		148					
		3:39	EN				49 57.71	125 8.71							
	21	5:16	BE	CTD		70	50 1.99	125 13.56	82						
		5:18	BO				50 1.98	125 13.55		78					
		5:19	EN				50 1.98	125 13.56							
	19	0702	BE	CTD		71	50 1.135	124 52.932	279	265					
		0708	BO				50 1.097	124 52.896							
		0713	EN				50 1.064	124 52.873							
	20	09:19	BE	CTD		72	49 47.22	124 32.30	310-314						
		09:26	BO				49 47.29	124 32.22		297					
		09:31	EN				49 47.37	124 32.22							

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The bottom was ~15m shallower than we as we hit the bottom, sprayed mud out of fluorometer pump on return to surface.

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[illegible]

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