

DAILY LOG BOOK

MISSION
NUMBER

2004 - 08

DATE:

From: APRIL 26 to: APRIL 30 / 2004

VESSEL:

VECTOR

PROJECT:

MASSON / PEÑA

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

Captain: SCOTT First Officer: BILL
Second Officer: WILL Third Officer: _____

Mission Participants / Agencies: MASSON / PENNA

Scientific Personnel:

Name	Watch	Cabin	Name
			ANGELICA PEN [~] A

[illegible][illegible]

Data logging computer: F502

Data acquisition program: Sen save

CTD deck unit make: Seabird model: 11+ serial number: 0424

Primary CTD

Make: Seabird model: 911 serial number: 0550

Primary temperature serial number: 2638

Primary conductivity serial number: 2173

Secondary temperature serial number: 2968

Secondary conductivity serial number: 1729

Transmissometer: _____ Model: Scotab s/n: 498 DR

Fluorometer: Model Seapoint Cable gain: 16X0.15 s/n: 3229 P S or NO num? 71

Oxygen sensor: _____
Model: SBE
S/n: 0615

PAR sensor: LI601 Model:
 s/n: H615

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

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

Other sensors: Altimeter s/n: 1024 P, S or NO pump? NO

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

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

Other sensors: _____

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

ary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____ serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____
Fluorometer: Model _____

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

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

max sensor: _____ Model: _____ s/n: _____
 Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors:	s/n:

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

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INSTITUTE OF OCEAN SCIENCES

Month <i>4 APRIL</i>				Year <i>2004</i>			Ship <i>Vector</i>				Cruise ID <i>2004-08</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							
27	51	0208	BE	ROS	US	1	48° 39.46	123° 30.025	175		1-13	13	LB	✓	
		213	BO				48° 39.42	123° 30.612							
		227	EN				48° 39.33	123° 129.97							
	59	0434	BE	ROS	US	2	48° 37.82	123° 14.61	235				ST	✓	
		0441	BO				48° 37.85	123° 14.67		226	14-27	14			
		0456	EN				48° 38.01	123° 14.79							
27	60	0551	BE	CTD		3	48° 33.98	123° 12.84	292						
		0558	BO				48° 34.06	123° 12.79		280'			ST/ma		temp / conductivity error (as on
		0604	EN				48° 34.10	123° 12.74							2004-11 trip) only
	61	0703	BE	CTD		4	48° 29.20	123° 09.25	255						for a few seconds?
		0710	BO				48° 29.198	123° 09.414		275'			CW		- getting worse - I'll
		0715	EN				48° 29.205	123° 09.514							have to look at the cable. (ST)
	101	1505	BE	CTD		5	48° 25.43	124° 45.52	242				ST.		- nasty weather
		1517	BO				48° 25.45	124° 45.92		185'					off Cape Glattery
		1524	EN				48° 25.45	124° 46.12							+ slow going all way
	74	1629	BE	CTD		6	48° 25.87	124° 35.71	182				ST.		down due to slack
		1636	BO				48° 25.14	124° 35.81		176'					in wire
		1641	EN				48° 25.21	124° 35.88							→

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After Cast #3 I re-did the connections ~~bet~~ to the 1° temp +
1° conductivity. ~~Re~~ Cleaned + re-greased - see if this helps. (ST)

Not sure why I did 1° though...? If problem persists I'll do 2° too.

- Aborting Stations 102 + 103 due to poor weather conditions. Heading to Sta. 74

→ Rosette hit side of ship - Bot 7 broken

NO Bottle # 7 - busted.

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OCEAN SCIENCES AND TECHNOLOGY DIVISION															
Month <i>APRIL</i>				Year <i>2004</i>			Ship <i>Vector</i>			Cruise ID <i>2004-08</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							
27	75	1723	BE	ROS	US	7	48°28.28	124°32.82					ST.		
		1735	BO				48°28.47	124°32.96	219		28-36	9			
		1749	EN				48°28.69	124°33.09							
27	71	2038	BE	CTD	US	8	48°22.17	124°59.45	108						decentrate in first 75m may have been too fast
		2041	BO				48°22.129	124°59.465		105			CW		
		2044	EN				48°22.078	124°59.467							
28	68	0254	BE	CTD	US	9	48°12.079	123°43.081	137				LB	✓	stop 72.73 stopped due to bad weather
		0301	BO				48°12.048	123°43.02		129					
		03:05	EN				48°12.024	123°42.968							very rough (13-1#7)
	69	0346	BE	ROS	US	10	48°15.49	123°43.05	179		37-48	12	ST		
		0351	BO				48°15.43	123°43.02		172					
		0401	EN				48°15.30	123°43.01							
	70	0502	BE	CTD		11	48°19.18	123°43.03	158				ST.		
		0506	BO				48°19.19	123°42.95		150					
		0508	EN				48°19.19	123°42.97							
28	67	0715	BE	CTD		12	48°22.82	123°18.002	104				CW		
		0717	BO				48°22.81	123°17.998		100					
		0720	EN				48°22.806	123°17.975							

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28 May 2003

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INSTITUTE OF OCEAN SCIENCES

Month				Year 2004			Ship Vector			Cruise ID 2004-08					
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							
28	104	0753	BE	CTD		13	48 19 997	123 18 004	82				CW	✓	Had a do twice forgot to turn pumps on - just overwrote file 13.dat
		0755	BO				48 19 984	123 18 005		75					
		0757	EN				48 19 984	123 18 016	104						
28	106	0821	BE	CTD		14	48 19 283	123 14 149		97			CW	✓	
		0823	BO				48 19 275	123 14 177							
		0826	EN				48 19 288	123 14 198							
28	ADCP	0920	BE	ROS	US	15	48 14 012	123 18 076	123		49-58		CW	✓	
		0925	BO				48 14 022	123 18 150		117.5					
		0935	EN				48 14 161	123 18 372							
28	105	1014	BE	CTD		16	48 10 962	123 19 090	84				CW	✓	ship is heaving slightly
		1015	BO				48 10 975	123 19 164		81					
		1017	EN				48 10 968	123 19 243							
28	64	1125	BE	CTD	US	17	48 12 948	123 5 938	106				LB	✓	
		1128	BO				48 13 012	123 5 989		108					
		1131	EN				48 13 066	123 6 028							
28	65	1202	BE	ROS	US	18	48 15 942	123 9 901	125		59-68		LB	✓	
		1205	BO				48 15 956	123 9 966		122					
		1215	EN				48 15 931	123 10 056							

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Month <i>April</i>				Year <i>2004</i>			Ship <i>Vector</i>				Cruise ID <i>2004-08</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>28</i>	<i>62</i>	<i>13 18</i>	<i>BE</i>	<i>ROS</i>	<i>US</i>	<i>19</i>	<i>48 22 537</i>	<i>123 2 62.1</i>	<i>147</i>		<i>69-79</i>		<i>JP</i>	☒	
		<i>13 22</i>	<i>BO</i>				<i>48 22 858</i>	<i>123 2 656</i>		<i>146</i>					
		<i>13 33</i>	<i>EN</i>				<i>48 22 944</i>	<i>123 2 608</i>							
<i>28</i>	<i>63</i>	<i>14 41</i>	<i>BE</i>	<i>CTD</i>	<i>US</i>	<i>20</i>	<i>48 14 61</i>	<i>123 58 56</i>	<i>152</i>				<i>JP</i>	☒	
		<i>14 44</i>	<i>BO</i>				<i>48 14 584</i>	<i>123 58 616</i>		<i>151</i>					
		<i>14 48</i>	<i>EN</i>				<i>48 14 57</i>	<i>123 58 645</i>							
	<i>54</i>	<i>1640</i>	<i>BE</i>	<i>ROS</i>	<i>US</i>	<i>21</i>	<i>48' 26.61</i>	<i>122' 44.35</i>	<i>81</i>						
		<i>1643</i>	<i>BO</i>				<i>48' 26.63</i>	<i>122' 44.37</i>		<i>76</i>	<i>80-85</i>	<i>6</i>	<i>ST</i>	☒	
		<i>1648</i>	<i>EN</i>				<i>48' 26.64</i>	<i>122' 44.39</i>							
	<i>53</i>	<i>1812</i>	<i>BE</i>	<i>CTD</i>		<i>22</i>	<i>48' 33.13</i>	<i>122' 45.01</i>	<i>65</i>		<i>86-92</i>			☒	<i>All bottles at 60m.</i>
		<i>1815</i>	<i>BO</i>				<i>48' 33.13</i>	<i>122' 45.02</i>							
		<i>1817</i>	<i>EN</i>				<i>48' 33.14</i>	<i>122' 45.02</i>		<i>60</i>					
<i>28</i>	<i>52</i>	<i>1920</i>	<i>BE</i>	<i>CTD</i>		<i>23</i>	<i>48 38 767</i>	<i>122 43 243</i>	<i>78</i>				<i>CW</i>	☒	
		<i>19 21</i>	<i>BO</i>				<i>48 38 712</i>	<i>122 43 211</i>		<i>74</i>					
		<i>19 24</i>	<i>EN</i>				<i>48 38 683</i>	<i>122 43 182</i>							
<i>28</i>	<i>51</i>	<i>2101</i>	<i>BE</i>	<i>CTD</i>		<i>24</i>	<i>48 46 65</i>	<i>122 51 48</i>	<i>1100</i>				<i>CW</i>	☒	
		<i>2103</i>	<i>BO</i>				<i>48 46 634</i>	<i>122 51 409</i>		<i>150</i>					
		<i>2107</i>	<i>EN</i>				<i>48 46 639</i>	<i>122 51 383</i>							

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→ Replaced ^(Niskin) bottle 7 with a spare from the ^{spare} Rosette

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Ocean Sciences and Productivity Division

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Month <i>April</i>				Year <i>2004</i>			Ship <i>VECTOR</i>				Cruise ID <i>2004-08</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>28</i>	<i>56</i>	<i>2208</i>	<i>BE</i>	<i>ROS</i>	<i>US</i>	<i>25</i>	<i>48 46.384</i>	<i>123 01.567</i>	<i>217</i>		<i>93-107</i>	<i>15</i>	<i>CW</i>	☒	
		<i>2213</i>	<i>BO</i>				<i>48 46.392</i>	<i>123 01.524</i>		<i>210</i>					
		<i>2227</i>	<i>EN</i>				<i>48 46.294</i>	<i>123 01.513</i>							
<i>28</i>	<i>57</i>	<i>2324</i>	<i>BE</i>	<i>CTD</i>	<i>US</i>	<i>26</i>	<i>48 44.087</i>	<i>123 8 227</i>	<i>156</i>				<i>4P</i>	☒	
		<i>2328</i>	<i>BO</i>				<i>48 44.130</i>	<i>123 8 312</i>		<i>152</i>					
		<i>2331</i>	<i>EN</i>				<i>48 44.158</i>	<i>123 8 406</i>							
<i>29</i>	<i>58</i>	<i>0006</i>	<i>BE</i>	<i>CTD</i>	<i>US</i>	<i>27</i>	<i>48 43.008</i>	<i>123 14 458</i>	<i>330</i>				<i>4P</i>	☒	
		<i>0013</i>	<i>BO</i>				<i>48 43.09</i>	<i>123 14.54</i>		<i>322</i>					
		<i>0019</i>	<i>EN</i>				<i>48 43.12</i>	<i>123 14.70</i>							
<i>29</i>	<i>47</i>	<i>2:14</i>	<i>BE</i>	<i>CTD</i>		<i>28</i>	<i>48 49.316</i>	<i>123 6 092</i>	<i>183</i>				<i>4P</i>	☒	
		<i>2:18</i>	<i>BO</i>				<i>48 49.362</i>	<i>123 6 062</i>		<i>181</i>					
		<i>2:21</i>	<i>EN</i>				<i>48 49.387</i>	<i>123 6 022</i>							
<i>29</i>	<i>48</i>	<i>249</i>	<i>BE</i>	<i>ROS</i>		<i>29</i>	<i>48 51.702</i>	<i>123 3 671</i>	<i>219</i>				<i>4P</i>	☒	<i>CDOM, CHL, MPCC</i>
		<i>0255</i>	<i>BO</i>				<i>48 51.71</i>	<i>123 02.89</i>		<i>208</i>	<i>108-113</i>	<i>6</i>	<i>ST</i>		
		<i>0303</i>	<i>EN</i>				<i>48 51.67</i>	<i>123 02.74</i>							
<i>29</i>	<i>49</i>	<i>0353</i>	<i>BE</i>	<i>CTD</i>		<i>30</i>	<i>48 55.027</i>	<i>122 59.666</i>	<i>131</i>	<i>125</i>			<i>MR/ST</i>	☒	
		<i>0358</i>	<i>BO</i>				<i>48 55.036</i>	<i>122 59.718</i>							
		<i>0400</i>	<i>EN</i>				<i>48 55.062</i>	<i>122 59.748</i>							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month April				Year 2004				Ship Vector				Cruise ID 2664-08			
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							
29	50	0440	BE	CTD		31	48 57.734	122 56.125	25	24			MQ/ST	✓	Fluorometer max'd out at 15 mg/L
		0442	BO				48 57.749	122 56.111							
		0444	EN				48 57.760	122 56.102							
29	44	0551	BE	CTD		32	48 56.820	123 5.940	119	116			MQ/ST		
		0554	BO				48 56.850	123 5.924							
		0557	EN				48 56.875	123 5.926							
29	45	0735	BE	CTD		33	48 53.921	123 8.311	127	123			MQ/ST	✓	COMPUTER CRASHED, restarted program. Noted that clock was erratic
	1156 LOCAL	0857	BO				48 53.922	123 8.347							
	1154 LOCAL		EN				48 53.928	123 8.408							
29	46	0727	BE	ROS	US	34	48 51.416	123 10.830	178		114-125	12	CW	✓	
		0731	BO				48 51.460	123 10.828		173					
		0744	EN				48 51.576	123 10.640							
29	043	0938	BE	CTD		35	49 0.181	123 30.095	195				CW	✓	
		0942	BO				49 0.192	123 30.176		190	126				
		0946	EN				49 0.140	123 30.236							
29	042	1015	BE	ROS	US	36	49 1.789	123 26.243	325		126-141	16	CW	✓	altimeter a little jump in depth.
		1022	BO				49 1.756	123 26.245		317					
		1041	EN				49 1.736	123 26.198							

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							Latitude	Longitude							
29	41	1120	BE	CTD	US	37	49 3 296	123 22 303	242				TP	✓	differences S+T* are high at beginning
		1127	BO				49 3 362	123 22 230		236					
		11:31	EN				49 3 341	123 22 199							
29	GURD 7	11:42	BO	REP#1 GRAB		38	49 3 32	123 22 191	234						- good penetration
	"	1157	"	REP#2			49 3 33	123 22 167	237						- full
	"	1209	"	REP#3		✓	49 3 297	123 22 162	235						
29	37	1325	BE	CTD	US	39	49 13 63	123 20 714	213				TP	✓	
		1330	BO				49 13 670	123 20 741		210					
		1335	EN				49 13 690	123 20 790							
29	38	1406	BE	CTD	US	40	49 11 914	123 26 344	304				TP	✓	
		1413	BO				49 11 852	123 26 236		297					
		1419	EN				49 11 83	123 26 185							
29	39	1458	BE	ROS	US	41	49 09.72	123 32.84	376		142-160	19	TP	✓	-
		1507	BO				49 09.65	123 32.81		370			ST+MQ		
		1528	EN				49 9.449	123 32.727							
	40	1638	BE	CTD		42	49 08.59	123 36.82	156						-cleaned 2° temp
		1641	BO				49 08.66	123 36.82		739	got shallow (down to 140 m)				+2° conductivity
		1644	EN				49 08.67	123 36.82							cables. See if
															spiking goes away (ST)

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day it looks better!

→ I have to look at that cable! It is bouncing around a lot more this cruise. (ST)

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INSTITUTE OF OCEAN SCIENCES

Month April				Year 2004				Ship Vector			Cruise ID 2004-08				
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							
29	26	1810	BE	CTD		43	49 14.322	123 50.869	251	245			MR/S		
		1815	BO				49 14.296	123 50.905							
		1820	EN				49 14.280	123 50.927							
29	27		BE	ROS	US	44	49 19.036	123 47.972	347	340	161-178	18	MR		
		1913	BO				49 19.044	123 48.008							
		1933	EN				49 19.050	123 48.026					MR		
29	28	2049	BE	CTD		45	49 24.092	123 45.371	133	130					1°/2° sal 0.2 ml start
		2052	BO				49 24.090	123 45.395							
		2055	EN				49 24.090	123 45.419							
29	25	2239	BE	CTD		46	49 27.632	124 7.357	305	300			MR		
		2245	BO				49 27.680	124 7.373							
		2251	EN				49 27.715	124 7.387							
29	02	2326	BE	ROS	US	47	49 24.154	124 9 275	279		179-195		LB	✓	
		2331	BO				49 24.127	124 9 280		273					
		2346	EN				49 24.082	124 9 235							
30	1	0034	BE	CTD		48	49 20.30	124 12.04	250				ST	✓	
		0040	BO				49 20.31	124 11 97		244					
		0044	EN				49 20.326	124 11 593							

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>April</i>				Year <i>2004</i>			Ship <i>Vector</i>				Cruise ID <i>2008-08</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							
30	4	150	BE	CTD	US	49	49 24 446	124 22 024	344					✓	
		156	BO				49 24 444	124 21 973		338					
		203	EN				49 24 430	124 21 883							
30	3	229	BE	ROS	US	50	49 26 537	124 20 108	320		196-211			✓	
		235	BO				49 26 501	124 20 000		315					
		251	EN				49 26 43	124 19 795							
30	5	0349	BE	CTD		51	49 27.414	124 30.725	315	310			MR		
		0355	BO				49 27.433	124 30.728							
			EN				49 27.438	124 30.709							
30	6	0435	BE	ROS	US	52	49 30.600	124 27.728	190	190	212-224		MR		
		0439	BO				49 30.588	124 27.719							
		0453	EN				49 30.606	124 27.632							
30	7	0531	BE	CTD		53	49 34.378	124 24.232	350				MR		
		0537	BO				49 34.391	124 24.234		345					altimeter bounced between 5 & 100m and "bottom"
		0544	EN				49 34.394	124 24.252							
	8	0641	BE	CTD		54	49 39.29	124 32.99	337				ST		
		0648	BO				49 39.31	124 33.01		334					
		0654	EN				49 39.32	124 33.01							

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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							
<u>30</u>	<u>GVRD1</u>	<u>0735</u>	<u>BO</u>	<u>GRAB^{Rep1}</u>		<u>55</u>	<u>49 35 53</u>	<u>124 38 332</u>	<u>170</u>				<u>CW</u>		<u>-fuel</u>
	<u>"</u>	<u>0745</u>	<u>BO</u>	<u>Rep²</u>			<u>49 35 52</u>	<u>124 38 33</u>	<u>170</u>						<u>-fuel</u>
	<u>"</u>	<u>0756</u>	<u>BO</u>	<u>Rep³</u>		<u>↓</u>	<u>49 35 53</u>	<u>124 38 28</u>	<u>170</u>						<u>-fuel</u>
<u>30</u>	<u>9</u>	<u>0814</u>	<u>BE</u>	<u>ROS</u>	<u>US</u>	<u>56</u>	<u>49 35 50</u>	<u>124 38 35</u>	<u>168</u>		<u>225-236</u>	<u>12</u>	<u>CW</u>	<u>✓</u>	
		<u>0819</u>	<u>BO</u>				<u>49 35 52</u>	<u>124 38 34</u>		<u>164.5</u>					
		<u>0832</u>	<u>EN</u>				<u>49 35 50</u>	<u>124 38 17</u>							
<u>30</u>	<u>10</u>	<u>0927</u>	<u>BE</u>	<u>CTD</u>		<u>57</u>	<u>49 40 716</u>	<u>124 47 326</u>	<u>98</u>				<u>CW</u>	<u>✓</u>	
		<u>0930</u>	<u>BO</u>				<u>49 40 739</u>	<u>124 47 340</u>		<u>95</u>					
		<u>0932</u>	<u>EN</u>				<u>49 40 753</u>	<u>124 47 334</u>							
<u>30</u>	<u>11</u>	<u>0957</u>	<u>BE</u>	<u>CTD</u>		<u>58</u>	<u>49 42 414</u>	<u>124 43 409</u>	<u>305</u>				<u>CW</u>	<u>✓</u>	
		<u>1003</u>	<u>BO</u>				<u>49 42 464</u>	<u>124 43 362</u>		<u>299</u>					
		<u>1010</u>	<u>EN</u>				<u>49 42 469</u>	<u>124 43 362</u>							
<u>30</u>	<u>12</u>	<u>1029</u>	<u>BE</u>	<u>ROS</u>	<u>US</u>	<u>59</u>	<u>49 43 613</u>	<u>124 40 790</u>	<u>360</u>		<u>237-252</u>	<u>16</u>	<u>CW</u>	<u>✓</u>	
		<u>1037</u>	<u>BO</u>				<u>49 43 615</u>	<u>124 40 730</u>		<u>353</u>					
		<u>1057</u>	<u>EN</u>				<u>49 43 518</u>	<u>124 40 717</u>							
<u>30</u>	<u>13</u>	<u>1234</u>	<u>BE</u>	<u>CTD</u>		<u>60</u>	<u>49 55 313</u>	<u>124 55 252</u>	<u>234</u>				<u>YB</u>	<u>✓</u>	
		<u>1239</u>	<u>BO</u>				<u>49 55 296</u>	<u>124 55 308</u>		<u>229</u>					
		<u>1244</u>	<u>EN</u>				<u>49 55 253</u>	<u>124 55 321</u>							
Cast type: USW = sea water loop bottle firing method: Time Code:															

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USW = sea water loop MOR = mooring NET = net haul DRF = drifter

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							Latitude	Longitude							
30	14	13 11	BE	ROS	US	61	49 53 00	124 59 587	315		238-253		M	✓	
		13 18	BO				49 53 058	124 59 650		310					
		13 34	EN				49 53 189	124 59 844							
30	15	14 12	BE	CTD		62	49 51 738	125 1 740	128				M	✓	
		14 15	BO				49 51 757	125 1 760		124					
		14 18	EN				49 51 764	125 1 771							
	21	15 38	BE	CTD		63	50 02.02	125 13.60	81				ST	✓	
		15 40	BO				50 02.02	125 13.59		80					
		15 42	EN				50 02.02	125 13.59							
30	23	17 08	BE	ROS		64	50 15 00	125 23.01	237	230	254-267		ST/MR	✓	
		17 14	BO				50 14.964	125 22.992							
		17 29	EN				50 14.899	125 23.053							
30	16	19 22	BE	ROS	US	65	49 57 695	125 8.778	156		268-280	13			recomendations are
		19 25	BO				49 57 688	125 8 764		157.77			CW	✓	> 10 ? - triton plunger
		19 36	EN				49 57 684	125 8 756							not remove - pulled it back up 75m and redeployed
30	17	20 09	BE	CTD		66	49 58 800	125 4.320	265				CW	✓	-rewrote over file.
		20 14	BO				49 58 807	125 4 314		260					
		20 19	EN				49 58 818	125 4 313							

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							Latitude	Longitude							
30	18	2050	BE	CTD		067	49 59.967	124 58.966	148				CW	✓	
		2053	BO				49 59.206	124 58.952		145					
		2056	EN				49 59.207	124 58.946							
30	19	2133	BE	ROS	US	068	50 1.136	124 53.012	267		281-297	17	CW	✓	altimeter seems to crap out when close to bottom
		2139	BO				50 1.078	124 53.022		259					<5m
		2155	EN				50 1.037	124 53.106							
1	20	0012	BE	ROS	US	069	49 47.131	124 32.110	308		298-315		JD	✓	no oxygen sampled
		0018	BO				49 47.087	124 32.071		305					
		0035	EN				49 46.982	124 31.984							
1	22	1:56	BE	CTD		070	49 40.236	124 16.327	353				JD	✓	
		2:03	BO				49 40.258	124 16.318		348					
		2:09	EN				49 40.271	124 16.327							
	24	0330	BE	CTD		071	49 30.32	124 06.00		432					
		0339	BO				49 30.31	124 05.98	419						
		0345	EN				49 30.34	124 05.93							

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