

SHIP <u>PARIZEAU</u>		CRUISE <u>88-53</u>				TIME ZONE <u>UTC</u>		PAGE <u>1</u> OF <u>1</u>							
DATE	STATION ID	DEPTH SOUNDING (m)	LATITUDE & LONGITUDE	TIME SHIP STOPS	STD - CONSEC. NO. & DEPTH (m)	STD START TIME	HYDRO - CONSEC. NO. & DEPTH (m)	MESSENGER TIME	HYDRO SALINITY NO.	HYDRO OXYGEN NO.	BUCKET TEMPERATURE & SALINITY NO.	LOOP TEMPERATURE & SALINITY NO.	ENGINE INTAKE TEMPERATURE	TIME SHIP PROCEEDS	NOTES
<u>GMT</u>		<u>Loran</u>								<u>CTD</u>					
88/10/24	2305		DEPART	IOS	PAT BAY										
88/10/25	LA01 253	48 29.45 124 43.46	1712	001	258 1716	/				10.094 31.311	1			1726	
88/10/25	LA02 295	48 26.49 124 51.30	1813	002	299 1816	/				11.466 30-275	2	(5.0 m)		1829	
88/10/25	LA03 110	48 23 00 124 57 56	1905	003	110 1910	/				11.155 31542	3	05M			
88/10/25	LA04 190	48 19 32 125 03 94	1950	004	190 1954	/					4.				
88/10/25	LA05 115	48 16 06 125 10 37	2034	005	115 2033	/				10.553 32389	5				
88/10/25	LA06 110	48 12 63 125 17 20	2114	006	113 2115	/				10.595 32943	6	5m			
88/10/25	LA07 110	48 09 20 125 23 86	2158	007	110 2200	/				11.575 31536	7	5m			
88/10/25	LA08 135	48 05 84 125 30 07	2240	008	139 2242	/					8				
25	LA09 343	48 02.35 125 36.86	2327	9	349 2331	/				11875 31315	9			2345	
26	LA10 897	47 59.02 125 43.25	0014	10	910 0018	/				14097 32270	10			0048	
26	LB A4 139	48 12 92 125 30.00	0224	11	144 0228	/					11				

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DATE <i>UTC</i>	STATION ID	DEPTH SOUNDING (m) <i>Loran</i>	LATITUDE & LONGITUDE	TIME SHIP STOPS	STD - CONSEC. NO. & DEPTH (m)	STD START TIME HYDRO-CONSEC. NO. & DEPTH (m)	MESSENGER TIME HYDRO SALINITY NO.	HYDRO OXYGEN NO. BUCKET TEMPERATURE & SALINITY NO. LOOP TEMPERATURE & SALINITY NO.	ENGINE INTAKE TEMPERATURE	TIME SHIP PROCEEDS	NOTES
<i>88/10/26</i>	<i>C3</i> <i>LBA3</i> <i>117</i>	<i>48 23 30</i> <i>125 20.90</i>	<i>0341</i>	<i>12</i>	<i>118</i>	<i>0355</i>		<i>12</i>		<i>0430</i>	<i>VERTICAL PLANKTON (119m)</i>
<i>88/10/26</i>	<i>C1</i> <i>PLC1</i> <i>146</i>	<i>48 28.92</i> <i>125 15.62</i>	<i>0515</i>	<i>13</i>	<i>148</i>	<i>0520</i>		<i>13</i>		<i>0547</i>	<i>VERTICAL (140m) PLANKTON</i>
<i>88/10/26</i>	<i>C2</i> <i>LBA2</i> <i>155</i>	<i>48 25.52</i> <i>125 08.09</i>	<i>0630</i>	<i>14</i>	<i>149</i>	<i>0633</i>		<i>14</i>		<i>0705</i>	<i>VERTICAL (145m) PLANKTON</i>
<i>88/10/26</i>	<i>LBA1</i> <i>112</i>	<i>48 31 60</i> <i>125 03 83</i>	<i>0743</i>	<i>15</i>	<i>115</i>	<i>0745</i>		<i>15</i>			
<i>88/10/26</i>	<i>BBA0</i> <i>60</i>	<i>48 34 60</i> <i>124 58 00</i>	<i>0815</i>	<i>16</i>	<i>59.1</i>	<i>0824</i>		<i>9.674</i> <i>31.643</i>	<i>16</i>		
<i>88/10/26</i>	<i>BBA1</i> <i>40</i>	<i>48 37 71</i> <i>124 53 39</i>	<i>0858</i>	<i>17</i>	<i>42</i>	<i>0900</i>		<i>17</i>			
<i>88/10/26</i>	<i>LB01</i> <i>30</i>	<i>48 40 41</i> <i>124 59 39</i>	<i>0935</i>	<i>18</i>	<i>30</i>	<i>0938</i>		<i>18</i>			
<i>88/10/26</i>	<i>LB02</i> <i>50</i>	<i>48 39 05</i> <i>125 02 21</i>	<i>0958</i>	<i>19</i>	<i>50</i>	<i>10:00</i>		<i>19</i>			
<i>88/10/26</i>	<i>LB03</i> <i>87</i>	<i>48 37 34</i> <i>125 05 31</i>	<i>1023</i>	<i>20</i>	<i>90</i>	<i>1024</i>		<i>10.684</i> <i>30.945</i>	<i>20</i>	<i>25</i>	
<i>88/10/26</i>	<i>LB04</i> <i>105</i>	<i>48 35 67</i> <i>125 08 64</i>	<i>1049</i>	<i>21</i>	<i>109</i>	<i>1051</i>		<i>9.746</i> <i>31.428</i>	<i>21</i>	<i>25</i>	
<i>88/10/26</i>	<i>LB05</i> <i>100</i>	<i>48 33 99</i> <i>125 11.97</i>		<i>22</i>	<i>99</i>	<i>1123</i>		<i>22</i>			
<i>26</i>	<i>LB06</i> <i>110</i>	<i>48 32 17</i> <i>125 15.52</i>		<i>23</i>		<i>1154</i>		<i>23</i>	<i>1</i>	<i>1201</i>	

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26	4807	150	48 28.52 125 22.14		24	155 1241			10844 30.895	24			
26	4808	137	48 25.27 125 28.73		25	136 1328				25		1334	
26	4809	144	48 22.05 125 34.68		26	143 1413			10138 32.476	26		1420	
88/10/26	LB10	147	48 18.46 125 41.22	1500	27	151 1506	/			27		1515	
88/10/26	LB11	204	48 15.18 125 47.52	1555	28	208 1558	/			28		1610	
88/10/26	LB12	500	48 12.99 125 51.81	1642	29	515 1645	/			29		1703	
88/10/26	LB13	805	48 10.74 125 55.84	1741	30	914 1741	/			30		/	CAL BOTTLE 5 m ABOVE PROBE
88/10/26	LB13	/	48 10.83 125 56.11	/	930	850 1805	/	1805	31	/		1823	
88/10/26	LCB6 <u>R2</u>	400	48 22.49 126 03.81	2040	32	416 2048				/			PLANK Change Strand depth 300 to 400
26	LCB5	115	48 28.20 125 49.93		33	121 2308			11.387 31.466	32			
27	^{B7} LCB4	73	48 31.97 125 35.58	0026	34	771 0031	/		10.749 31.046	33			volume backup 0 - 34 PLANK
27	^{B8} LCB3	110	48 34.56 125 30.13	0243	35	109 0246	/		9.746 31.436	34		0308	100 m Vertical Plankton Haul

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88/10/27	LCB2	97	48 41.03 125 26.92	0400	36	110	0403	35	0409
88/10/27	LCB1	94	48 44.90 125 22.23	0447	37	97	0449	36	0455
88/10/27	LC01	87	48 50.55 125 27.69	0539	38	88	0544	37	0550
88/10/27	LC02	104	48 48.89 125 31.06	0615	39	109	0618	38	0624
88/10/27	LC03	123	48 47.09 125 34.35	0646	40	120	0650	39	0657
88/10/27	LC04	160	48 43.55 125 40.69	0733	41	165	0736	40	0743
88/10/27	LC05	60	48 40.16 125 46.97	0818	42	56.5	0822	41	0827 PLANK
88/10/27	LC06	87	48 36.46 125 53.82	0911	43	92	0913	42	0919
88/10/27	LC07	125	48 33.06 126 00.44	0956	44	129.7	0959	43	1004
88/10/27	LC08	197	48 29.53 126 06.96	1041	45	202	1042	44	1104 PLANK
88/10/27	LC09	625	48 25.96 126 13.77	1144	46	644	1149	45	plankton #9
27	LC10	1230	48 22.42 126 20.15	1303	47	1310	1333 47	46	1402

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UTC			<u>Lat Lon</u>											NOTES
27	LC11	1682	48 19.06 126 26.51	1438	48	1531	1443	/			48		1533	
88/10/27	LC12	2480	48 15.07 126 39.83	1749	49	2002	1752	/			49			VERTICAL PLANKTON HAUL
88/10/28	LD09	1045	48 35.71 126 30.07	0328	50	1063	0333	/			50			
88/10/28	LD09		48 35.88 126 29.90		950	1000	0357	/	0358	51			0418	CAL BOTTLE 5m ABOVE PROBE.
88/10/28	LD08	775	48 39.19 126 23.46	0452	51	782	0455	/			52		0522	
88/10/28	LD07	477	48 42.60 126 17.07	0557	52	502	0601	/			53		0622	
88/10/28	LD06	135	48 46.11 126 10.21	0658	53	137	0659	/			54		0707	
88/10/28	LD05	85	48 49.64 126 03.57	0738	54	87	0740	/			55		0745	
88/10/28	LD04	60	48 53.18 125 57.23	0816	55	60	0818	/			56		0840	D2 Plankton Haul
88/10/28	LD03	43	48 56.65 125 50.30	0907	56	43	0909	/			57		0913	
88/10/28	LD02	40	48 58.35 125 47.00	0928	57	41	0931	/			58		0945	Plank
88/10/28	LD01	30	49 00.25 125 43.78	1006	58	30	1009	/			59		1013	

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			<i>LOBAN</i>													
<i>88/10/28</i>			<i>4900.10</i>	<i>10:18</i>												<i>Sail 8/k</i>
			<i>125438</i>													
<i>30</i>			<i>4833.88</i>	<i>1154</i>								<i>60</i>				
			<i>12511.31</i>													
<i>88/10/30</i>	<i>LA01</i>	<i>255</i>	<i>4829.37</i>	<i>1919</i>	<i>59</i>	<i>261</i>	<i>1922</i>					<i>61</i>		<i>1932</i>		
			<i>12443.92</i>													
<i>88/10/30</i>	<i>LA02</i>	<i>300</i>	<i>4826.30</i>	<i>2007</i>	<i>60</i>	<i>301</i>	<i>2010</i>			<i>10404</i>	<i>62</i>			<i>2021</i>		
			<i>12451.36</i>													
<i>88/10/30</i>	<i>LA03</i>	<i>107</i>	<i>4822.38</i>	<i>2055</i>	<i>61</i>	<i>111</i>	<i>2101</i>					<i>63</i>				<i>THE CTD DOWN TO 25m BEFORE THE START OF EAST</i>
			<i>12457.61</i>													
<i>88/10/30</i>	<i>LA04</i>	<i>100</i>	<i>4819.24</i>	<i>2145</i>	<i>62</i>	<i>189</i>	<i>2143</i>					<i>64</i>		<i>2155</i>	<i>m</i>	
			<i>12504.33</i>													
<i>88/10/30</i>	<i>LA05</i>	<i>115</i>	<i>4816.14</i>	<i>2229</i>	<i>63</i>	<i>120</i>	<i>2232</i>					<i>65</i>		<i>2238</i>	<i>"</i>	
			<i>12510.60</i>													
<i>88/10/30</i>	<i>LA06</i>	<i>110</i>	<i>4812.50</i>	<i>2312</i>	<i>64</i>	<i>112</i>	<i>2216</i>					<i>66</i>		<i>2221</i>	<i>"</i>	
			<i>12517.23</i>													
<i>88/10/31</i>	<i>LA07</i>	<i>109</i>	<i>4809.09</i>	<i>0005</i>	<i>65</i>	<i>110</i>	<i>0008</i>					<i>67</i>		<i>0013</i>		
			<i>12523.94</i>													
<i>31</i>	<i>LA08</i>	<i>135</i>	<i>4805.74</i>	<i>0045</i>	<i>66</i>	<i>136</i>	<i>0048</i>					<i>68</i>		<i>0054</i>		
			<i>12530.45</i>													
<i>31</i>	<i>LA09</i>	<i>310</i>	<i>4802.22</i>	<i>0128</i>	<i>67</i>	<i>310</i>	<i>0132</i>					<i>69</i>		<i>0143</i>		
			<i>12536.98</i>													
<i>31</i>	<i>LA10</i>	<i>910</i>	<i>4758.94</i>		<i>68</i>	<i>925</i>	<i>0219</i>					<i>70</i>		<i>0253</i>		
			<i>12543.43</i>													

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88/10/31	LBA4	138	48 12.83 125 29.82	0434	69 142	0436	/				71		0443		
88/10/31	LBA3	115	48 23.57 125 20.82	0600	70 119	0605	/				72		0611		
88/10/31	LBA2	120	48 25.41 125 07.88	0708	71 139	0710	/				73		0717		
88/10/31	LBA1	110	48 31.71 125 03.80	0800	72 107	0803	/				74	0808 0808	0808	Drop to 10m then back up before cast	
88/10/31	BBA4	52	48 34.51 124 58.25	0838	73 50	0843	/				75	0848 0848	0848	Drop to 5m then back up before cast	
88/10/31	BBA1	45	48 37.71 124 53.57	0915	74 41	0917	/				76		0922	"	
88/10/31	LB01	30	48 40.36 124 59.52	0949	75 29	0953	/				77		0955	"	
88/10/31	LB02	50	48 39.17 125 02.32	1008	76 50	1011	/				78		1015	"	
88/10/31	LB03	90	48 37.25 125 05.55	1033	77 91	1036	/				79		1041	"	
88/10/31	LB04	105	48 35.76 125 08.77	1059	78 105	1102	/				80		1109	"	
88/10/31	LB05	100	48 34.00 125 12.15	1130	79 102.5	1134	/				81		1139	"	
88/10/31	LB06	110	48 32.18 125 15.45	1200	80 110	1202	/				82		1207		

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UTC															
88/10/31	LB07	151	48 28.75 125 22.04	1244	81 152 1247	/					83				
31	LB08	130	48 25.29 125 28.65	1331	82 131 1334	/					84		1340		
31	LB09	145	48 22.10 125 34.72	1418	83 150 1420	/					85		1427		
31	LB10	148	48 18.66 125 41.31	1500	84 151 1510	/					86		1516		Volume backup 25-83 6,631,595
88/10/31	LB11	205	48 15.22 125 47.70	1536	85 213 1559	/					87		1609		
88/10/31	LB12	498	48 12.93 125 51.83	1636	86 511 1638	/					88		1700		
88/10/31	LB13	920	48 10.51 125 56.15	1725	87 940 1730	/					89				CAL BOTTLE 5 M ABOVE PROBE
88/10/31	LB13	/	48 10.10 125 55.79	/	987 857 1755	/	1756	90			/		1814		
88/10/31	LCB5	120	48 28.13 125 49.74	2013	88 123 2016	/					91		2022		
88/10/31	LCB4	75	48 31.94 125 35.58	2130	89 77 2132	/					/		2138		
88/10/31	LCB3	130	48 34.55 125 30.20	2209	90 132 2216	/					/		2222		
88/10/31	LCB2	125	48 41.21 125 27.12	2306	91 140 2310	/					/		2317		

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88/10/31	L001	95	48 44.89 125 22.09	2347	92 97 2350	/					/		2355			CTD done within a cable of the station
88/11/01	L001	92	48 50.44 125 27.68		93 95 0040	/					/		0045			
1	L002	106	48 48.73 125 31.04	0104	94 109 0106	/					/		0112			
1	L003	130	48 46.95 125 34.27	0132	95 133 0135	/					/		0142			
1	L004	160	48 43.53 125 40.80	0214	96 163 0218	/					/		0226			
1	L005	62	48 39.49 125 47.39	0304	97 60 0306	/					/		0311			
1	L006	87	48 36.55 125 54.07	0341	98 91 0345	/					/		0350			
88/11/1	L007	121	48 33.02 126 00.52	0425	99 125 0428	/					91		0435			
88/11/1	L008	192	48 29.57 126 07.13	0510	100 199 0512	/					92		0521			
END OF CTD SURVEY.																
88/11/2			48 23.77 124 34.18	1341		/					93					
						/										

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