

DAILY LOG BOOK

MISSION
NUMBER

2006-29

DATE:

From: 11 Sept '06 to: 17 Sept '06

VESSEL:

Vector

PROJECT:

SOG - JdF

MASSON / PEÑA

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship			Cruise ID					
Sept				2006			Vector			2006-29					
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							
12	58	01:17	BE	CTD		1	48 43 090	123 14 264	338			24	10/01	✓	trigger all bottles
		1:25	BO				48 43 322	123 14 072		301		test bottles	fired		at bottom to
		1:32	EN				48 43 464	123 13 819				13 m off bottom	but very low fr. reading		just 10 setts
12	59	2:32	BE	ROS		2	48 37 802	123 14 820	216		1-14	14	10/01		BOT #1 empty, Bot 3 debris
		2:37	BO				48 37 804	123 14 832		213					→ up to 105 m
		2:48	EN				48 37 814	123 14 899							then down to
12	60	03:47	BE	CTD		3	48 33 854	123 13 564	270				MD/C		125 m to fire the bottle
		03:55	BO				48 33 796	123 13 670		260					
		04:00	EN				48 33 704	123 13 657							fired first 3 bottles #3 →
12	67	05:28	BE	CTD		4	48 22 806	123 18 115	105						fired bottles 1, 2, 3
		05:31	BO				48 22 835	123 18 222		100					all closed
12	66	05:33	EN	CTD			48 22 831	123 18 358							
		06:24	BE	CTD		5	48 19 285	123 14 11	99						fired bottles 1, 2, 3
		06:28	BO				48 19 240	123 14 155		94					all closed
		06:30	EN				48 19 193	123 14 258							
12	104	06:55	BE	CTD		6	48 19 922	123 18 175	84						
		06:57	BO				48 19 248	123 18 247		80					
		07:01	EN				48 19 921	123 18 344							

Cast type:

BOT = bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
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bottle firing method:

US = up/stop
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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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Did not close

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							Latitude	Longitude							
12	ADLP	7:38	BE	ROS		7	48 15.810	123 21.997	121		15-				
		7:41	BO							118					
		7:47	EN				48 15.756	123 22.062							
	69	9:40	BE	ROS		8	48 15.736	123 43.201	180		25-36	12			Foggy
		9:45	BO				48 15.738	123 43.096							
		9:53	EN				48 15.785	123 43.040							
12	70	10:46	BE	CTD		9	48 19 253	123 43 223	145				10/5/11		
		10:52	BO				48 19 274	123 43 088		142					
		10:56	EN				48 19 300	123 42 953							
12	71	12:29	BE	CTD		10	48 22 146	123 59 326	109				plot	✓	
		12:34	BO				48 22 118	123 59 336		105					
		12:39	EN				48 22 136	123 59 387							
12	72	13:20	BE	ROS		11	48 18 904	124 3 808	183		37-49	13	10/5/11	✓	
		13:28	BO				48 18 821	124 3 883		181					
		13:41	EN				48 18 755	124 3 961							
12	75	16:13		ROS		12	48 28 151	124 32 753	222				CS/MD	✓	
		16:16					48 28 158	124 32 827		217	50-63	14			
							48 28 147	124 32 867							

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→ STN 69 O₂ samples were mislabelled labelled 34- plus there were only 11 samples
and NOT 12 for oxygen (rtd)

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12	76	17:08	BE	CTD		13	48 31.394	124 28.893	84						
		17:10	BO				48 31.375	124 29.893		83					
		17:12	EN				48 31.370	124 29.888							
	103	18:14	BE	CTD		14	48 32.975	124 42.889	124						
		18:17	BO				48 32.962	124 42.924		116					
		18:20	EN				48 32.952	124 42.934							
	102	18:53	BE	ROS		15	48 30.181	124 44.26	253		64-78	15			
		19:59	BO				48 30.207	124 44.273		245					
		19:09	EN				48 30.330	124 44.386							
	101	20:52	BE	CTD		16	48 25.471	124 45.163	241	245					foggy, mild swell
			BO				48 25.546	124 45.205							
			EN				48 25.589	124 45.250							
	74	2206	BE	CTD		17	48 25.120	124 35.533	193	186					
		2204	BO				48 25.136	124 35.549							
		2208	EN				48 25.150	124 35.559							
	74	2225		RAD		18	48 25.129	124 35.346							

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13	73	0057	BE	CTD		19	48 15 022	124 6 671	160				DT/10	✓	
		1:01	BO				48 15 000	124 6 671		157					
		1:05	EN				48 14 992	124 6 679							
13	73	08		RAD		20	48 11 013	124 06 698			978, 979	2	MD/DT		
13	68	0309	BE	CTD		21	48 12 188	123 43 002	137						
		0313	BO				48 12 188	123 42 932		132			CS/MD	✓	
		0316	EN				48 12 142	123 42 964							
13	165	0526	BE	CTD		22	48 10 998	123 19 019	83				CS/MD	✓	
		528	BO				48 11 014	123 19 044		80					
		530	EN				48 11 022	123 19 048							
13	65	0650	BE	ROS		23	48 15 986	123 09 803	122						
		0654	BO				48 15 982	123 09 803							
		0659	EN				48 15 926	123 09 830							
13	64	0803	BE	CTD		24	48 12.862	123 05.863	108	105			10/SFM	✓	Calm clear
		0807	BO				48 12 905	123 5.819							half moon
		0809	EN				48 12.914	123 5.815							
13	63	0857	BE			25	48 14.588	122 58.510	154	150	zmab		10/SFM	✓	
		0901	BO				48 14.606	122 58.487							
		0903	EN				48 14.605	122 58.471							

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							Latitude	Longitude							
13	61	11:13	BE	CTD		26	48 29 167	123 9 193	282				P/ST	P	
		1122	BO				48 29 038	123 9 235		271					
		1130	EN				48 28 880	123 9 116							
13	62	1219	BE	ROS		27	48 22 858	123 2 605	145		89-99	11	M/ST	✓	
		1223	BO				48 22 898	123 2 614		140					
		1231	EN				48 22 913	123 2 604							
13	54	1405	BE	CTD		28	48 26 633	122 44 227	75				P/ST	✓	
		1407	BO				48 26 658	122 44 226		70					
		1409	EN				48 26 681	122 44 225							
13	53	1454	BE	CTD		29	48 33 302	122 44 994	58				P/ST	✓	
		1456	BO				48 33 350	122 44 990		53					
		1458	EN				48 33 414	122 44 993							
13	52	1536	BE	CTD		30	48 38 891	122 43 211	80				CS/MD	✓	
		1539	BO				48 38 902	122 43 145		76					
		1541	EN				48 38 941	122 43 094							
	51	1646	BE			31	48 46 715	122 51 602	162				CS/MD	✓	
13	51	1650	BO				48 46 691	122 51 570		160					
		1654	EN				48 46 747	122 51 596							

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13	56	1814	BE	ROS		32	48 46 42	123 01 518	212		100-113			✓	
		1820	BO				48 46 40	123 01 438		207	114 & 115 were not used. Next Rosette (stn 46) start w/ sample # 116				
		1830	EN				48 46 .304	123 01 .274							
13	57	2120	BE	OPTIC		33	48 44.023	123 8 .162							2 bottles at
		2125	BO	ROS			48 44.022	123 8.209	162	159		2	10/SM		5m for optics
		2130	EN				48 44.016	123 8.287							
		2140	BE	RAD		34	48 44.078	123 8.390							
		2148	EN				48 44.119	123 8.279							
13	47	2324	BE	OPTIC		35	48 49 306	123 6 169	184				10/OT		
		2329	BO	ROS			48 49 313	123 6 146		182					1 bottle at 5m for optics.
		2335	EN				48 49 297	123 6 124							
		2340	BE	RAD		36	48 49.391	123 6.074					AP		
		2349	EN				48 49.551	123 5.577							
14	48	0022	BE	CTD		37	48 51 691	123 03.191	226				10/OT		Pump turned ON Before in water, then turned off until in water.
		0028	BO				48 51 686	123 3 146		220					
		0033	EN				48 51 709	123 3 082							
14	49	0105	BE	CTD		38	48 55 037	122 59 611	130				10/OT		
		109	BO				48 55 073	122 59 622		127					
		113	EN				48 55 111	122 59 647							

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							Latitude	Longitude							
<i>14</i>	<i>50</i>	<i>144</i>	<i>BE</i>	<i>CTD</i>		<i>39</i>	<i>48 57 754</i>	<i>122 56 111</i>	<i>25</i>				<i>10/01</i>	<i>✓</i>	
		<i>147</i>	<i>BO</i>				<i>48 57 793</i>	<i>122 56 094</i>		<i>22</i>					
		<i>148</i>	<i>EN</i>				<i>48 57 812</i>	<i>122 56 088</i>							
<i>14</i>	<i>44</i>	<i>245</i>	<i>BE</i>	<i>CTD</i>		<i>40</i>	<i>48 56 834</i>	<i>123 6 006</i>	<i>120</i>				<i>11/01</i>	<i>✓</i>	
		<i>246</i>	<i>BO</i>				<i>48 56 820</i>	<i>123 5 969</i>		<i>115</i>					
		<i>252</i>	<i>EN</i>				<i>48 56 839</i>	<i>123 5 834</i>							
<i>14</i>	<i>45</i>	<i>0336</i>	<i>BE</i>	<i>CTD</i>		<i>41</i>	<i>48 53 873</i>	<i>123 08 380</i>	<i>127</i>				<i>03/MD</i>	<i>✓</i>	
		<i>0341</i>	<i>BO</i>				<i>48 53 816</i>	<i>123 08 306</i>		<i>122</i>					
		<i>0345</i>	<i>EN</i>				<i>48 53 760</i>	<i>123 08 111</i>							
<i>14</i>	<i>46</i>	<i>0413</i>	<i>BE</i>	<i>ROS</i>		<i>42</i>	<i>48 51 386</i>	<i>123 10 776</i>	<i>178</i>				<i>05/MD</i>	<i>✓</i>	<i>waited 30 seconds</i>
		<i>0419</i>	<i>BO</i>				<i>48 51 382</i>	<i>123 10 627</i>		<i>173</i>					<i>before firing</i>
		<i>0434</i>	<i>EN</i>				<i>48 51 268</i>	<i>123 10 199</i>							<i>bottles</i>
	<i>43</i>	<i>0638</i>	<i>BE</i>	<i>CTD</i>		<i>43</i>	<i>49 0.206</i>	<i>123 30 139</i>	<i>186</i>				<i>05/MD</i>	<i>✓</i>	
		<i>0643</i>	<i>BO</i>				<i>49 0.182</i>	<i>123 30 331</i>		<i>182</i>					
		<i>0648</i>	<i>EN</i>				<i>49 0.094</i>	<i>123 30 476</i>							
<i>14</i>	<i>42</i>		<i>BE</i>	<i>ROS</i>		<i>44</i>			<i>318</i>	<i>319</i>					<i>Calm, overcast</i>
		<i>0731</i>	<i>BO</i>				<i>49 1.711</i>	<i>123 26 125</i>			<i>128-143</i>	<i>16</i>	<i>10/5FM</i>	<i>✓</i>	<i>warms</i>
		<i>0742</i>	<i>EN</i>				<i>49 1.529</i>	<i>123 26 203</i>							<i>15° surface waters</i>

Cast type:

USW = sea water loop

bottle firing method:

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<i>14</i>	<i>41</i>	<i>0859</i>	<i>BE</i>	<i>CTD</i>		<i>45</i>	<i>49 3.292</i>	<i>123 22.258</i>	<i>236</i>	<i>239</i>			<i>10/SFM</i>	<i>✓</i>	
		<i>0905</i>	<i>BO</i>				<i>49 3.275</i>	<i>123 22.325</i>							
		<i>0910</i>	<i>END</i>				<i>49 3.230</i>	<i>123 22.351</i>							
<i>14</i>	<i>37</i>	<i>1029</i>	<i>BE</i>	<i>CTD</i>		<i>46</i>	<i>49 13.649</i>	<i>123 20.701</i>	<i>213</i>	<i>211</i>			<i>10/SFM</i>	<i>✓</i>	
		<i>1033</i>	<i>BO</i>				<i>49 13.711</i>	<i>123 20.702</i>							
		<i>1038</i>	<i>EN</i>				<i>49 13.765</i>	<i>123 20.730</i>							
<i>14</i>	<i>38</i>	<i>1112</i>	<i>BE</i>	<i>CTD</i>		<i>47</i>	<i>49 12.011</i>	<i>123 26.333</i>	<i>303</i>				<i>N/O</i>	<i>✓</i>	
		<i>1120</i>	<i>BO</i>				<i>49 12.056</i>	<i>123 26.291</i>		<i>300</i>					
		<i>1127</i>	<i>EN</i>				<i>49 12.049</i>	<i>123 26.303</i>							
<i>14</i>	<i>39</i>	<i>1205</i>	<i>BE</i>	<i>ROS</i>		<i>48</i>	<i>49 9.776</i>	<i>123 32.941</i>	<i>372</i>		<i>144-160</i>	<i>17</i>	<i>N/D</i>		<i>BOT 17 didn't</i>
		<i>1215</i>	<i>BO</i>				<i>49 9.964</i>	<i>123 32.730</i>		<i>368</i>					<i>trigger - filled with</i>
		<i>1238</i>	<i>EN</i>				<i>49 9.518</i>	<i>123 32.360</i>							<i>Surface seawater</i>
<i>14</i>	<i>40</i>	<i>1337</i>	<i>BE</i>	<i>CTD</i>		<i>49</i>	<i>49 8.582</i>	<i>123 36.781</i>	<i>150</i>				<i>N/D</i>		
		<i>1341</i>	<i>BO</i>				<i>49 8.560</i>	<i>123 36.718</i>		<i>152</i>					
		<i>1344</i>	<i>EN</i>				<i>49 8.555</i>	<i>123 36.629</i>							
<i>14</i>	<i>36</i>	<i>1508</i>	<i>BE</i>	<i>CTD</i>		<i>50</i>	<i>49 14.288</i>	<i>123 50.802</i>	<i>241</i>				<i>CS/MD</i>	<i>✓</i>	
		<i>1514</i>	<i>BO</i>				<i>49 14.269</i>	<i>123 50.810</i>		<i>236</i>					
		<i>1518</i>	<i>EN</i>				<i>49 14.267</i>	<i>123 50.783</i>							

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MOR = mooring

bottle firing method:

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Time Code

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Month <i>September</i>			Year <i>2006</i>				Ship <i>VECTOR</i>					Cruise ID <i>2006-29</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								
14	27	1604	BE	ROS		51	49 19 116	123 48 094	345		161-176	17	CS/MD	✓	bottles tripped @ surface 16/17	
		1612	BO				49 19 139	123 48 091		340					CASEY SAYS 15/16 fired at same time	
		1629	EN				49 19 164	123 48 053							15 should be @ 5m	
14	27	1640	BE	optic		52	48 49.391	123 06074					AP			
14	28	1729	BE	CTD		53	49 24 124	123 45 334	133		9177	1	CS/MD	✓	1 bottle @ 5m	
		1733	BO				49 24 125	123 45 370		128						
		1737	EN				49 24 126	123 45 403								
14	28	1742	BE	RAD	✓	54	49 24.123	123 45.469					AP			
		1756	EN				49 24.112	123 45.566								
14	2	1946	BE	ROS		55	49 24.175	124 9.329	278	275	5.6 mab	15		✓	* note next page	
		1950	BO				49 24.203	124 9.322			177-191					
		2005	EN				49 24.322	124 9.216								
14	2	2135	stilt	RAP		56									within drifting distance of ROS	
14	1	2107	BE	CTD		57	49 20.336	124 12.080	258	250	5 mab				at 2	
			BO												** note next page	
		2120	EN				49 20.363	124 11.962								

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(cast 55)

14 Sept 2006 - * digital display of pressure was not shown on screen. At about 50-60 db halted downcast and rechose display file that matched the graphic display i.e. 2006-29. This resolved display problem. Since the graphic display was outputting proper values, it is assumed data file will be fine. ***

Cast 57

** primary salinity (one of them anyway) jumped to a lower value when instrument stopped at about 8 mbs, went down to about 5 mbs but still stayed w/psu lower than secondary. The upcast also exhibited this bias till about ? 100m or so when it jumped back to following the downcast.

After the cast, Marty cleaned the plumbing with melle Q and syringe and the problem was not seen in the next two casts. — SFH

*** However, it is likely that the header file information i.e. cruise number & maybe ship, will not be correct.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Sept</i>		Year <i>2006</i>		Ship <i>VECTOR</i>		Cruise ID <i>2006-29</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							
14	4	2223	BE	CTD		58	49 24.497	124 22.034	345						
		2236					49 24.514	124 21.932							
		2241					49 24.515	124 21.904							
14	4	22:50	BE	RAD		59	49 24.531	124 21.830							
		22:59	EN				49 24.548	124 21.751							
14	3	2328	BE	MOS		60	49 26.621	124 20.219	322		192-207	16	N/D	✓	Calm; overcast
		2336	BO				49 29.644	124 20.290		315					
		2358	EN				49 26.719	124 20.532							
15	5	0053	BE	CTD		61	49 27.401	124 30.841	314				N/D	✓	
		1:01	BO				49 27.418	124 30.820		312					
		1:09	EN				49 27.409	124 30.767							
15	6	1:44	BE	ROS		62	49 30.640	124 27.787	191		208-220	13	N/D	✓	
		1:49	BO				49 30.654	124 27.832		188					
		2:05	EN				49 30.635	124 27.793							
15	7	2:48	BE	CTD		63	49 34.433	124 24.224	350				N/D	✓	
		2:57	BO				49 34.444	124 24.247		349					
		3:06	EN				49 34.444	124 24.240							

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INSTITUTE OF OCEAN SCIENCES

Month				Year				Ship				Cruise ID 2006-29				
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	
15	8	0400	BE	CTD		64	49 39 328	124 33 010	338				CS/MD	✓		
		0409	BO				49 39 428	124 33 154		336						
		0417	EN				49 39 568	124 33 323								
15	9	0503	BE	ROS		65	49 35 482	124 38 285	168		221-232	12	CS/MD	✓		
		0507	BO				49 35 425	124 38 212		164						
		0521	EN				49 35 332	124 38 000								
15	10	6125	BE	CTD		66	49 40 680	124 47 282	92				CS/MD	✓		
		628	BO				49 40 660	124 47 276		90						
		631	EN				49 40 648	124 47 208								
15	11	0703	BE	CTD		67	49 42.311	124 43.456	295	296	1.2 mab		10/SM	✓	Calm, partially cloudy	
		0710	BO				49 42.278	124 43.374								
		0716	EN				49 42.251	124 43.325								
15	12	0735	BE	ROS		68	49 43.547	124 40.792	355	353			10/SM	✓	→ see NOTE on Rosette log	
		0744	BO				49 43.524	124 40.651		3 mab	233-248	16			note: header file has erroneous depth of 330 instead of 230 m	
15	13	0941	BE	CTD		69	49 55.278	124 55.297	219	232						
		0946	BO				49 55.264	124 55.264								
		0950	END				49 55.248	124 55.247								

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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								
15	14	1021	BE	ROS		70	49 53.040	124 59.716	316		249-264	16	10/SFM	✓		
		1028	BO				49 53.093	124 59.732								
		1041	EN				49 53.116	124 59.700								
15	15	1129	BE	CTD		71	49 51.641	125 1 564	126				10/SFM	✓		
		1133	BO				49 51.684	125 1 549		127						
		1136	EN				49 51.716	125 1 552								
15	21	1362	BE	CTD		72	5 0 1994	125 13 634	73				10/SFM	✓		
		1304	BO				5 0 2004	125 13 642		69						
		1306	EN				50 2 004	125 13 639								
15	16	1350	BE	ROS		73	49 57 655	125 8 808	153		265-275	11	10/SFM	✓		
		1354	BO				49 57 641	125 8 803		149						
		1405	EN				49 57 610	125 8 802								
15	17	1442	BE	CTD		74	49 58 790	125 4 322	263				10/SFM	✓		
		1448	BO				49 58 794	125 4 256		258						
		1454	EN				49 58 834	125 4 211								
15	18	1522	BE	CTD		75	49 59 232	124 58 888	140				CS/MD	✓		
		1526	BO				49 59 228	124 58 925		138						
		1529	EN				49 59 213	124 58 970								

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15	19	1605	BE	CTD		76	50 01 253	124 52 873	280		1	2	CS/MD	✓	2 bottles @ 5m	
		1612	BO				50 01 255	124 52 925		280						
		1619	EN				50 01 247	124 52 936								
15	19	1623	BE	RAD		77	50 01 268	124 52 914								
			EN													
15	20	1905	BE	CTD		78	49 47.221	124 32.226	303	307	277	2	10/SFM	✓		
		1914	BO				49 47.232	124 32.275		2.5m						
		1921	EN				49 47.258	124 32.302								
15	20	1926		RAD		79	49 47.256	124 32.298					AP			
		1935					49 47.332	124 32.534								
15	22	2120		OPT		80	49 40.212	124 16.166	358							
				ROS												
		2129					49 40.160	124 16.156								
15	22	2126	BE	RAD		81	49 47.256	124 32.298								
			EN				49 47.332	124 32.534								
15	24	2313	BE	CTD		82	49 30 313	124 6 017	425				20/10T			
		2323	BO				49 30 326	124 5 998		423						
		2331	EN				49	124								
															crash at end	
															but data all there	

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Month

Ship

Cruise ID

Crest type:	HGW	see water level	level 5 in	stake	SW	6 ft
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