

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2008-51

DATE:

From:

8 SEP 2008

to:

15 SEP 2008

VESSEL:

VECTOR

PROJECT(S):

STRAIT OF GEORGIA / JUAN DE FUCA
WATER PROPERTIES SURVEY

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
Sidney, BC, Canada

WaterProperties.ca

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month <i>September</i>				Year <i>2008</i>			Ship <i>Vector</i>				Cruise ID <i>2008-51</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
9	SI	1957	BE	ROS		1	48 39 38.3	123 29 46.8	100		1-9	9	10 /DT	✓	<i>all crew</i>
		2001	BO				48 39 40.0	123 30 24		100					
		2012	EN				48 39 42.0	123 30 07.4							
9	58	2148	BE	CTD		2	4842954	12314131	327		—	—	10 /DT	✓	
		2204	BO				4847992	12314198		331					<i>new crew</i>
		2212	EN				4842923	12314060							
9	59	2255	BE	ROS		3	483781	12314612	232		10-23	#14	10 /DT	✓	
		2301	BO				483777	12314689		229					
		2318	EN				4837859	12314944							
9	60	2356	BE	CTD		4	4833906	12312773	288		—	—			
10		0005	BO				4833869	12312769		288					
10		0012	EN				4833841	12312799							
10	61	0049	BE	CTD		5	4829184	1239221	268		—	—			
		0057	BO				4829122	1239242		283					
		0104	EN				4829110	1239301							
10	101	0829	BE	CTD		6	4825483	12445196	245				10	✓	
		0837	BO				4825464	12445259		239					
		0842	EN				4825453	12445304							

Local time

- 1430 ① Winch discovered to have 6 cable wire - required cut and splice to make
 ② oxygen lat setup req'd extra attention. compatible with seabird system
- 1700 ③ surface PAR sensor with apparent setup problems cannot be connected without
 stopping acquisition program - disconnected
- 1800 ④ remote pressure readout 155 m too high
- 1830 ⑤ test launch in Saanich Inlet - failure alarm
 1900 - replace with backup deck unit - failure alarm
 - switch winches - failure alarm
 1930 - replace with backup CTD 91
- ⑥ 3 variables a) CTD unit b) deck unit c) winch/cable
- | | a) CTD unit
M/B | b) deck unit
M/B | c) winch/cable
P/C | |
|---|--------------------|---------------------|-----------------------|--|
| 1 | AM + BM + CP | | | - 50 m alarm |
| 2 | AM + bB + CP | | | - alarm |
| 3 | AM + bB + CC | | | - alarm |
| 4 | AB + bB + CP | | | - error, after 2 min |
| 5 | AB + bB + CC | | | - no alarm, temp difference $> 20^\circ$ |
| 6 | AM + bM + CC | | | - alarm |
- M - main
 B - backup
 P - port side
 C - centre

- note: consider main CTD unit faulty - backup CTD unit unserviceable due to temp 2 sensor
 - proceed back to Port Bay

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month SEP				Year 2008			Ship VECTOR				Cruise ID 2008-51				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
10	102	09:25	BE	ROS		7	48 30 107	124 44 087	254		24-38		FD	✓	on recovery
		09:33	BO				48 30 164	124 44 257		248					contact Satcen ship
		09:51	EN				48 30 282	124 44 674							down rosette ring
10	103	10:30	BE	CTD		8	48 32 863	124 43 177	125				FD	✓	
		10:34	BO				48 32 885	124 43 249		124					
		10:37	EN				48 32 898	124 43 304							
10	76	11:59	BE	CTD		9	48 31 366	124 29 971	88				TD/OT	✓	
		12:03	BO				48 31 376	124 30 060		86					
		12:06	EN				48 31 380	124 30 120							
16	75	12:39	BE	ROS		10	48 28 333	124 32 726	217		39-52	14	TD/OT	✓	
		12:46	BO				48 28 381	124 32 867		214					
		12:03	EN				48 28 518	124 33 194							
10	74	13:50	BE	CTD		11	48 25 063	124 35 629	187				TD/OT	✓	
		13:56	BO				48 25 097	124 35 698		~180					
		14:01	EN				48 25 115	124 35 741							
16	73	16:40	BE	CTD		12	48 14 944	124 66 679	160				DA/RD		
		16:45	BO				48 14 939	124 66 683		156					
10		16:49	EN				48 14 932	124 66 682							

Cast Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Notes:

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 before each cast, do not use Ammonia products

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

Tues 0730

Ren Lindsay

- setup original deck unit, original CID - chater cable - crater in pressure alarm socket on CID * plug fitted
- sort out SPAR, remote pressure readout
- reconfigure voltage channels for transmissometer
- test ill port wind + splice cable - ok

→ no alarm

1245

test at jetty - ok

* used in Arctic as bottom proximity alarm

1315

proceed to Saamid inlet test station

- weather clear + calm

1400

practice muster station + abandon ship routine

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
<i>10</i>	<i>72</i>	<i>17:24</i>	<i>BE</i>	<i>ROS</i>		<i>13</i>	<i>48 18.616</i>	<i>124 40 46</i>	<i>187</i>						<i>* PHYTO @ SITE</i>
		<i>17:29</i>	<i>BO</i>				<i>48 18 624</i>	<i>124 40 31</i>		<i>185</i>					
		<i>17:45</i>	<i>EN</i>				<i>48 18 600</i>	<i>124 39 43</i>							
<i>10</i>	<i>71</i>	<i>18:22</i>	<i>BE</i>	<i>CTD</i>		<i>14</i>	<i>48 22 178</i>	<i>123 59 263</i>	<i>108</i>						
		<i>18:26</i>	<i>BO</i>				<i>48 22 206</i>	<i>123 59 244</i>		<i>106</i>					
		<i>18:28</i>	<i>EN</i>				<i>48 22 213</i>	<i>123 59 191</i>							
<i>10</i>	<i>70</i>	<i>19:40</i>	<i>BE</i>	<i>CTD</i>		<i>15</i>	<i>48 19 210</i>	<i>123 43 150</i>	<i>151</i>	<i>148</i>				☒	
		<i>19:45</i>	<i>BO</i>				<i>48 19 220</i>	<i>123 43.118</i>							
		<i>19:48</i>	<i>EN</i>				<i>48 19.214</i>	<i>123 43.040</i>							
<i>10</i>	<i>69</i>	<i>20:17</i>	<i>BE</i>	<i>ROS</i>		<i>16</i>	<i>48 15.684</i>	<i>123 43.175</i>	<i>180</i>					☒	
		<i>20:23</i>	<i>BO</i>				<i>48 15 736</i>	<i>123 43.145</i>		<i>180</i>					
		<i>20:37</i>	<i>EN</i>				<i>48 15 785</i>	<i>123 42.880</i>							
<i>10</i>	<i>68</i>	<i>21:13</i>	<i>BE</i>	<i>CTD</i>		<i>17</i>	<i>48 12 155</i>	<i>123 43 024</i>	<i>138</i>					☒	
		<i>21:18</i>	<i>BO</i>				<i>48 12 103</i>	<i>123 43 003</i>		<i>135</i>					
		<i>21:22</i>	<i>EN</i>				<i>48 12 077</i>	<i>123 42 964</i>							
<i>10</i>	<i>105</i>	<i>23:09</i>	<i>BE</i>	<i>CTD</i>		<i>18</i>	<i>48 10 992</i>	<i>123 19 056</i>	<i>85</i>				<i>10/10/20</i>	☒	
		<i>23:12</i>	<i>BO</i>				<i>48 10 981</i>	<i>123 19 088</i>		<i>83.3</i>					
		<i>23:14</i>	<i>EN</i>				<i>48 10 963</i>	<i>123 19 120</i>							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
10	ADC R	2341	BE	ROS		19	4814 075	12318031	120		78 - 87	10	10/01	✓	
		2344	BO				4814 096	12318073		117					
		2353	EN				4814179	12318296							
11	104	0036	BE	CTD		20	4820017	12318017	81				10/01		
		0039	BO				4820009	12318026		83					
		0041	EN				4820008	12318037							
11	67	107	BE	CTD		21	4822757	12318125	105				10/01	✓	
		110	BO				4822663	12318209		106					
		112	EN				4822574	12318326							
11	66	146	BE	CTD		22	4819309	12314117	102				10/01	✓	
		149	BO				4819332	12314136		100					
		151	EN				4819352	12314156							
11	65	226	BE	ROS		23	4815866	1239803	125				10/01	✓	
		230	BO				4815853	1239800		124					
		239	EN				4815781	1239895							
11	64	315	BE	CTD		24	4812817	1235741	108				10/01		
		318	BO				4812826	1235714		104					
		320	EN				4812835	1235694							

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Month 09				Year 2008				Ship Vector				Cruise ID 2008-51				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments	
							Latitude	Longitude								
11	63	4:01	BE	CTD		25	4814592	122 58 488	152				20/24			
		4:05	BO				4814580	122 58 537		152						
		4:09	EN				4814592	122 58 600								
11	62	5:34	BE	ROS		26	4822824	123 26 03	148				04/20			
		5:37	BO				4822843	123 26 18		146						
		5:49	EN				4822870	123 27 14								
11	54	7:55	BE	CTD		27	48 26 549	122 44 244	77				LO/DS			
		7:58	BO				48 26 548	122 44 242		75						
		8:00	EN				48 26 546	122 44 244								
11	53	8:55	BE	CTD		28	48 33 191	122 44 971	58				LO/DS			
		8:57	BO				48 33 184	122 44 970		57						
		8:59	EN				48 33 173	122 44 970								
11	52	9:46	BE	CTD		29	48 38 893	122 43 288	83				LO/DS			
		9:49	BO				48 38 891	122 43 282		80						
		9:51	EN				48 38 893	122 43 286								
11	51	11:15	BE	CTD		30	48 46 678	122 51 540	158				P/DT	U		
		11:20	BO				48 46 654	122 51 508		152						
		11:24	EN				48 46 658	122 51 516								

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
11	56	1228	BE	RDS		31	48 46 483	123 16 25	208		169-122	14	10/DT	✓	
		1234	BO				48 46 402	123 16 42		207					
		1251	EN				48 46 361	123 1 777							
11	57	1334	BE	CTD		32	48 43 990	123 8 159	160				70/DT	✓	
		1339	BO				48 43 994	123 8 188		159					
		1343	EN				48 43 994	123 8 207							
11	47	1614	BE	CTD		33	48 49 314	123 6 088	183				09/RO	✓	* ALTIMETER SPIKE
		1619	BO				48 49 320	123 6 091		181					
		1623	EN				48 49 320	123 6 064							
11	48	1653	BE	CTD		34	48 51 721	123 3 137	225				09/RO	✓	
		1659	BO				48 51 733	123 3 106		223					
		1704	EN				48 51 732	123 3 112						✓	
11	49	1735	BE	CTD		35	48 54.988	122 59.454	128				DA/RO/PC		
		1740	BO				48 55.031	122 59.491		126					
		1743	EN				48° 55.08	122° 59.495							
11 th	50	1810	BE	CTD		36	48° 57.679	122° 56.131	24					✓	* ALTIMETER SPIKE
		1813	BO				48° 57.680	122° 56.131		22					- CHECKED CONNECTORS
		1814	EN				48° 57.680	122° 56.128					RO/DA/PC		- ALL OK <i>[Signature]</i>

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Month 09				Year 2008			Ship Vector		Cruise ID 2008-51						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
11th	44	19:05	BE	CTD		37	4856825	123 6 061	118				LO/DS	✓	
		19:08	BO				4856846	123 6020		117					
		19:11	EN				4856870	123 6 016							
11	45	19:43	BE	CTD		38	4853906	123 8365	126				LO/DS	✓	
		19:46	BO				4853898	123 8365		124					
		19:50	EN				4853880	123 8306							
11	46	20:17	BE	ROS		39	4851385	123 10799	176				LO/DS	✓	
		20:23	BO				4851392	123 10732		173					
		20:36	EN				4851360	123 10673							
11	43	22:20	BE	CTD		40	49 0 170	123 30 156	194	1			LO/DS	✓	
		22:24	BO				49 0 210	123 30 248		185					
		22:28	EN				49 0 250	123 30 355							
11	42	22:57	BE	ROS		41	49 01 793	123 26 236	320				LO/DS	✓	anometer gauge at bottom
		23:05	BO				49 01 798	123 26 226		318					
		23:24	EN				49 01 782	123 26 183							
11	41	23:55	BE	CTD		42	49 03 277	123 22 286	242				LO/DS	✓	
12		00:01	BO				49 03 281	123 22 295		240					
		00:07	EN				49 03 259	123 22 325							

Cast Type:
BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

USW = Sea Water Loop
MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter
___ =

Bottle Firing Method:
US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Notes:

Time Code:
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Transmissometer to be cleaned before each cast, do not use Ammonia products

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Month 09				Year 2008			Ship Vector			Cruise ID 2008-81					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
12	37	01:19	BE	CTD		43	49 13646	123 20.616	212				PR	✓	
		01:23	BO				49 13693	123 20.624		211			LB		
		01:28	EN				49 13.733	123 20.592					DI		
12	38	201	BE	CTD		44	49 12008	123 26.375	308				20/01	✓	
		209	BO				49 12019	123 26.344		303					altimeter spike near bottom
		216	EN				49 12026	123 26.340							
12	39	257	BE	ROS		45	49 09830	123 32.946	376		151-167	17	DI/RO		
		305	BO				49 09892	123 31.922		370					
		326	EN				49 09859	123 32.621							
12	40	359	BE	CTD		46	498.610	12336.751	146				DI/RO	✓	
		4:03	BO				498.614	12336.724		145.7					
		4:06	EN				498.621	12336.679							
12	26	528	BE	CTD		47	4914.302	12350.708	249				DI/RO	✓	ALTIMETER SPIKE NEAR BOTTOM.
		534	BO				4914.316	12350.692		258					
		540	EN				4914.300	12350.670							
12	27	619	BE	ROS		48	4919116	12347.940	346				DI/RO		ALTIMETER SPIKE
		627	BO				4919096	12347.938		340					
		642	EN				4919096	12348.017							

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							Latitude	Longitude							
12	28	07:30	BE	CTD		49	49 24096	123 45 341	134				LO/DS	✓	
		07:34	BO				49 24102	123 45 372		131					
		07:37	EN				49 24103	123 45 402							
12	24	9:22	BE	CTD		50	49 30284	124 59 76	428				LO/DS	✓	
		9:32	BO				49 30294	124 59 99		425					
		9:42	EN				49 30288	124 6 019							
12	25	10:32	BE	CTD		51	49 27716	124 7 489	288				LO/DS	✓	Altimeter spike
		10:39	BO				49 27713	124 7 459		288					
		10:45	EN				49 27676	124 7 477							
12	2	11:19	BE	ROS		52	49 24088	124 09 265	278		184-198	15	LO/DS	✓	
		11:26	BO				49 24094	124 09 253		274					altimeter spike
		11:46	EN				49 24100	124 09 235							
12	1	12:24	BE	CTD		53	49 20261	124 12 077	244				LO/DS	✓	corimeter spike
		12:29	BO				49 20274	124 12 072		240					
		12:53	EN				49 20275	124 12 047							
12	4	13:41	BE	CTD		54	49 24481	124 22 094	343				LO/DS	✓	
		13:49	BO				49 24486	124 22 073		340					11
		13:57	EN				49 24487	124 22 066							

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09				2008			Vector			2008-51					
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							Latitude	Longitude							
12	3	1421	BE	ROS		55	49 26 626	124 20 207	318		199-214	16	FD/OT	✓	
		1429	BO				49 26 616	124 20 177		315					
		1448	EN				49 26 581	124 20 236							
12	5	1544	BE	CTD		56	49 27 404	124 30 806	315				DA/RO	✓	altimeter spike
		1551	BO				49 27 394	124 30 774		311					
		1558	EN				49 27 388	124 30 752							altimeter spike
12	6	1641	BE	ROS		57	49 30 623	124 27 767	190				DA/RO	✓	altimeter spike
		1645	BO				49 30 613	124 27 790		187					
		1659	EN				49 30 587	124 27 794							
12	7	1735	BE	CTD		58	49 34 411	124 24 175	354				DA/RO	✓	altimeter spike
		1743	BO				49 34 388	124 24 110		345					
		1751	EN				49 34 372	124 24 251							
12	8	1846	BE	CTD		59	49 39 287	124 32 996	336				FB/OS		11
		1854	BO				49 39 286	124 32 382		330					
		1901	EN				49 39 264	124 32 006							
12	9	19:40	BE	ROS		60	49 35 488	124 38 570	166				LO/DS	✓	11
		19:46	BO				49 35 490	124 38 316		161					
		19:56	EN				49 35 520	124 38 244							

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Month				Year			Ship				Cruise ID				
SEP				2008			VECTOR				2008-51				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
12	10	2051	BE	CTD		61	49 40.702	124 47.342	92				DD	✓	
		2053	BO				49 40.700	124 47.360		90					
		2055	EN				49 40.702	124 47.322							
12	11	2120	BE	CTD		62	49 42 407	124 43 368	302				LO/DS	✓	Altimeter spike
		2127	BO				49 42 402	124 43 391		298					
		2133	EN				49 42 413	124 43 408							
12	12	2157	BE	ROS		63	49 43 612	124 40 788	356				LO/DS	✓	11
		2206	BO				49 43 633	124 40 786		351					
		2225	EN				49 43 739	124 40 844							
13	13	0002	BE	CTD		64	49 55 218	124 55 217	234				RD/OA		
		0007	BO				49 55 247	124 55 297		232				✓	w/ NEW ALTIMETER STILL SPIKED...
		0013	EN				49 55 207	124 55 376							
13	14	0040	BE	ROS		65	49 53 018	124 59 616	316		257-570	16	W/DT	✓	
		0048	BO				49 53 048	124 59 603		312					
		106	EN				49 53 098	124 59 664							
13	15	143	BE	CTD		66	49 51 608	125 01 550	130				YMDT	✓	
		147	BO				49 51 630	125 01 535		129					
		150	EN				49 51 664	125 01 502							

Cast Type:
BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

USW = Sea Water Loop
MOR = Mooring
NET = Plankton 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 before each cast, do not use Ammonia products

Notes:

This page is for any notes or observations

replace altimeter 1233 with backup unit s/n 1252

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month 09				Year 2008				Ship Vector				Cruise ID 2008-51			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13	21	0309	BE	CTD		67	50 2034	125 13579	89				RD		
		0312	BO				50 2.116	125 13.625		84					
		0314	EN				50 2.207	125 13.669							
13	76	411	BE	ROS		68	4957701	125 8814	156				DA/RD	✓	altimeter Good
		414	BO				4957708	125 8.822		154					U =
		425	EN				4957702	125 8.869							
13	17	453	BE	CTD		69	4958786	125 4.309	265				DA/LD	✓	
		459	BO				4958784	125 4.276		261					
		505	EN				4958796	125 4.249							
13	18	535	BE	CTD		70	4959190	124 58942	147				DA/RD	✓	
		538	BO				4959155	124 58969		145					
		541	EN				4959111	124 58981							
13	19	616	BE	CTD		71	501.212	124 52901	277				DA/RD	✓	
		622	BO				501.166	124 52.985		267					
		628	EN				501.080	124 53.087							
13	20	8:30	BE	CTD		72	49 47 178	124 32 254	312				DS/LO	✓	Altimeter Spike
		8:37	BO				49 47 183	124 32 243		305					
		8:44	EN				49 47 185	124 32 228							
Cast Type: USW = Sea Water Loop Bottle Firing Method: T = Surface															

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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[illegible]

Cast Type:

BOT = Bottle cast, no CTD
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USW = Sea Water Loop
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DRF = Drifter

Bottle Firing Method:

US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast DE = Deployment Time
BO = Bottom Time of Cast MR = Messenger Release Time
EN = End Time of Cast RE = Recover Mooring Time

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

Produced by the Water Properties Group, IOS

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