

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

PAC 2011-63

2011 003 PGC

DATE:

From: Aug 13, 2011

to: Aug 21, 2011

VESSEL:

CCGS Vector

PROJECT(S):

NSERC - paleosismic - Barkly Sound
RRU - NRCOR - DFO - Clayoquot Sound.

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

WaterProperties.ca

Rosette Setup:Number of bottles: 24Manufacturer: SBE/105Volume of bottles (litres): 100**Winches:**

1. Make:	Model:	Serial #:	Used for:
2. Make:	Model:	Serial #:	Used for:
3. Make:	Model:	Serial #:	Used for:

Comments on performance during cruise (comments should also be reflected in the post-cruise report):**Salinometer:**Make: _____ Model: _____ Serial Number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):**Oxygen Kit(s):**Make: _____ Model: _____ Kit Number: _____
Make: _____ Model: _____ Kit Number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):**Thermosalinograph System (SBE21):**Program: _____ Version: _____
Sampling interval (seconds): _____
Fluorometer sensor serial number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):**ADCP Setup:**Computer time zone: _____ User Exits: Name: _____ Exit points: _____
Sampling interval (sec): _____ Name: _____ Exit points: _____
Bin Length: (2^x): _____ Name: _____ Exit points: _____
Pulse Length: _____ Work File: _____
Buffer (bytes): _____
Gyro Offset: _____*Comments on performance during cruise* (comments should also be reflected in the post-cruise report):**CTD Test Cast Information**Test Cast along side? Yes ☐ No ☐*Comments*Test Cast in Saanich Inlet or other location? Yes ☐ No ☐*Comments*

CTD pressure reading on deck (db), before cast: _____ after cast: _____

Pumps working?Yes ☐ (0011) No ☐ (0010)**Secondary Temp – Primary Temp:**

(Average from the mixed region) _____

Secondary Salinity – Primary Salinity:

(Average from the mixed region) _____

Additional Comments:

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Month <u>August</u>				Year <u>2011</u>			Ship				Cruise ID				
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							
<u>14/08/11</u>		<u>3:57</u>	<u>—</u>												
	<u>TI02</u>	<u>1629</u>	<u>BE</u>	<u>ROS</u>		<u>001</u>			<u>48</u>	<u>49</u>	<u>1-4</u>	<u>4</u>			<u>can't off Port Bay</u>
<u>15</u>	<u>TI</u>	<u>1637</u>	<u>EN</u>				<u>49°11.777</u>	<u>125°40.502</u>							<u>SBE 25</u>
	<u>TIAD1</u>	<u>1715</u>	<u>BE</u>	<u>ROS</u>		<u>002</u>	<u>49°10.973</u>	<u>125°40.717</u>	<u>54</u>		<u>—</u>				<u>Pigg/barted on Rosette</u>
		<u>1718</u>	<u>BO</u>												
		<u>1728</u>	<u>EN</u>				<u>49°10.978</u>	<u>125°40.722</u>							
	<u>TI01</u>	<u>1748</u>	<u>BE</u>	<u>ROS</u>		<u>003</u>	<u>49°9.919</u>	<u>125°41.423</u>	<u>70</u>		<u>5-10</u>	<u>6</u>			
		<u>1751</u>								<u>68</u>					
		<u>1757</u>	<u>EN</u>				<u>49°9.922</u>	<u>125°41.442</u>							
<u>16</u>	<u>TH01</u>	<u>1603</u>	<u>BE</u>	<u>ROS</u>		<u>004</u>	<u>49°13.679</u>	<u>125°35.880</u>	<u>48</u>	<u>47</u>	<u>11-15</u>	<u>5</u>			<u>1.6 m/s</u>
		<u>1613</u>	<u>EN</u>				<u>49°13.602</u>	<u>125°35.892</u>			<u>Do taken from 18</u>	<u>2 only Bottles</u>			<u>Smelled of H₂S</u>
	<u>TH02</u>	<u>1628</u>	<u>BE</u>	<u>ROS</u>		<u>005</u>									<u>to 15 to surface then cast</u>
		<u>1631</u>	<u>BO</u>				<u>49°13.502</u>	<u>125°35.945</u>							<u>anoxic below 28 m</u>
	<u>THAD1</u>	<u>2027</u>	<u>BE</u>	<u>ROS</u>		<u>006</u>	<u>49°12.140</u>	<u>125°38.470</u>	<u>122</u>		<u>16-24</u>				<u>to 10 to surface then cast</u>
		<u>2033</u>	<u>BO</u>				<u>49°12.128</u>	<u>125°38.470</u>		<u>119</u>					
		<u>2042</u>	<u>EN</u>				<u>49°12.124</u>	<u>125°38.468</u>							
	<u>THAD2</u>	<u>2111</u>	<u>BE</u>			<u>007</u>	<u>49°10.926</u>	<u>125°38.768</u>	<u>105</u>	<u>102</u>	<u>25-31</u>	<u>17</u>			<u>Anoxic For bottom bottle only</u>
		<u>2120</u>	<u>BO</u>				<u>10.930</u>	<u>38.768</u>							
		<u>2120</u>	<u>EN</u>				<u>10.932</u>	<u>125°38.771</u>							

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

Produced by the Water Properties Group, IOS

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Month <u>August</u>				Year <u>2011</u>			Ship <u>Vector</u>			Cruise ID <u>2011-63</u>					
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							
16	THAD3	2146	BE	ROS		8	49° 9.560	125° 39.876	73	70	32-37	6		✓	
			BO												
		2154	EN				49° 9.574	125° 39.887	70						
	THAD2	2216	Br	ROS		9	49° 8.880	125° 41.900		65	38-43	6		✓	
		2221	BO				8876	41.897							
		2226	EN				8.881	41.902							
	THAD3	2326	BE	ROS		10	49° 7.150	125° 44.315	56		44-48	5		✓	
		2329	BO				7.147	44.317		53					
		2334	EN	ROS			49° 7.148	125° 44.322							
17	CL03	0040	BE	ROS		11	49° 11.063	125° 45.864	72		49-54	6		✓	3 mab
		0043	BO				49° 11.062	125° 45.862		73					
		0048	EN				49° 11.059	125° 45.860							
	CL02	0115	BE	ROS		12	49° 14.000	125° 45.493	140		55-63	9		✓	
		0120	BO				49° 13.991	125° 45.500		146					
		0129	EN				49° 14.002	125° 45.488							
	CL01	0159	BE	ROS		13	49° 14.464	125° 49.231	94	88	64-70	7		✓	5 mab
			BO				49° 14.426	125° 49.249							
		0209	EN				49° 14.454	125° 49.220							

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							Latitude	Longitude											
19	EF01	0119	BE	Ros		14	49°5.552	125°11.600	33	32	71-74	4		✓	3 mob				
		0122	BO				49°5.556	125°11.598											
		0125	EN				49°5.568	125°11.594											
	EF02	0153		Ros		15	49°5.010	125°10.306	67		75-80	6		✓					
		0157					49°5.022	125°10.300		66									
		0202					49°4.988	125°10.292											
	EF03	0256	BE	Ros		16	49°4.267	125°9.406	117		81-88	8		✓	Anoxic below ~80				
		0300	BO				49°4.277	125°9.396		114									
		0308					49°4.261	125°9.388											
	EF04	0326	BE	Ros		17	49°3.108	125°8.609	54		89-94	6		✓					
		0329	BO							60									
		0334	EN				49°3.096	125°8.611											
	EF05	0348	BE	Ros		18	49°2.549	125°9.162	204		95-105	11		✓	large difference in salinity sensors				
		0354	BO				49°2.554	125°9.164		198					3 mob				
		0405	EN				49°2.546	125°9.163											
	PT01	1816	BE	Ros		19	49°2.138	125°12.691	38										
		1818	BO				49°2.137	125°12.689		38	106-107	2			2.5 mob				
		1820	EN				49°2.141	125°12.685											

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Bottle Firing Method:

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19	P102	1915	BE	ROS		20	49 1.888	125° 14.125	68	64	—	—			4 mab
		1920	EN				49 1.890	125° 14.114							
	P103	2056	BE	ROS		21	49 1.608	125° 15.582	44	44	108	1			3.5 mab
		2102	EN				49 1.607	125° 15.584							
	P104	2123	BE	ROS		22	49 1.390	125° 16.982	40		—	—			
		2127	EN				49 1.385	125° 16.991		40					2.5 mab
20	EFF06	0104	BE	ROS		23	49 1.798	125° 9.182	152		109-117	9			
		0110	BO				49 1.799	125° 9.186		153					3.9 mab
			EN				49 1.799	125° 9.194							
	EF07	0133	BE			24	49 1.247	125° 9.475	119		118-125	8			3.7 mab
		0139	BO				49 1.243	125° 9.470		118					
		0147	EN				49 1.243	125° 9.455							
	EF08	0202	BE			25	49 0.677	125° 10.249	84		126-132	7			
		0211	EN				49 0.678	125° 10.252		83					3.6 mab
	EF09	0224	BE			26	49 0.114	125° 10.843	54	60	133-138	6			4 mab
		0231	EN				49 0.113	125° 10.836							
	EF10	0240	BE			27	48 59.98	125° 11.224	98		139-145	7			
		0252					48 59.862	125° 11.227		95					3 mab

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