

DAILY LOG BOOK

MISSION
NUMBER

2007-67

DATE:

From: 27 NOV 2007 to: 1 DEC 2007

VESSEL:

VECTOR

PROJECT:

STRAIT OF GEORGIA / JUAN DE FUCA
WATER PROPERTIES SURVEY

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

Rosette Setup:

Number of bottles: 24
Manufacturer: Ocean Se.
Volume of Bottles (litres): 20L

Winches:

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

Comments on performance during cruise:

Salinometer:

Not taken

Make: _____ Model: _____ Serial #: _____
Comments on performance during cruise:

Oxygen Kit

3

Comments on performance of kit and chemicals:

Good - did a comparison of IOS standard vs DSIL standard.

Thermosalinograph System:

No.

Program: _____ Version: _____
Sampling interval (seconds): _____
Fluorometer sensor serial number: _____
Comments on performance during cruise:

ADCP Setup:

NO

Computer time zone: _____
Sampling interval (seconds): _____
Bin Length (2^x): _____
Pulse Length: _____
Buffer (bytes): _____
Gyro Offset: _____
User Exits: Name: _____ Exit Points: _____
Name: _____ Exit Points: _____
Name: _____ Exit Points: _____
Work File: _____

Comments:

CTD Test Cast Information

Test Cast at IOS Jetty? (optional)

yes ☐ no ☒

Comments: (i.e. how did everything work??)

Test cast in Saanich Inlet? (recommended)

yes ☒ no ☐

If no, give reason:

Comments: (i.e. how did everything work??) Remote display not working again

CTD pressure reading on deck (db): 0.25

(Should be 0.0 db $\pm$ 0.5)

Pumps working?

yes ☒ no ☐

(i.e.. Was the red LED display on the deck unit 0011 and not still 0010?)

Secondary Temp- Primary Temp: 0.001

(Average from the Mixed Region)

Secondary Salinity- Primary Salinity: 0.001

(Average from the Mixed Region)

Additional Comments:

DAILY LOG

Ocean Sciences and Productivity Division

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Month <u>11</u>				Year <u>2007</u>			Ship <u>Valer</u>				Cruise ID <u>2007-67</u>				
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	SI	2334	BE	ROS		1	48 39.342	123 29.15	80		1-8	8			
			BO				48 39.36	123 29.16		76					
		2346	EN				48 39.388	123.29.194							
28	58	0015	BE	LTD		2	48 42.934	123 14.221	326				20/10		clean + cold
		0025	BO				48 42.947	123 14.231		320					
		0034	EN				48 42.963	123 14.258							
28	59	218	BE	ROS		3	48 37.781	123 14.569	231		9-22	14	20/10	✓	
		224	BO				48 37.775	123 14.585		226					BOTTLE @ 10m used for 5-m chloro sample
		240	EN				48 37.799	123 14.521							
28	60	310	BE	LTD		4	48 33.818	123 12.844	300				20/10	✓	
		320	BO				48	123		292					
		329	EN				48 33.840	123 12.898							
28	61	04:13	BE	CTD		5	48 29.204	123 9.220	279					✓	
		04:22	BO				48 29.218	123° 9.204		276					
		04:29	EN				48° 29.194	123° 9.214							
28	67	05:49	BE	CTD		6	48° 22.799	123° 18.112	107					✓	hit bottom (gently)
		05:53	BO				48° 22.806	123° 18.137		105					b/c of wire angle →
		05:58	EN				48° 22.810	123° 18.125							Settled onto bottom.
															In future come up again right away when reach bottom.

Cast type:

BOT = bottle cast, no CTD
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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- crane loading deck gear / lunches @ 1400
- fam tour - Robie, Sophie, Daren
- Samuel hit test station position altered to avoid AUV (glider) operations in middle of inlet

* - We are leaving the syringes OFF the CTD, unless doing streaming
for a few hours. (between casts)
S. Sloman

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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
28	101	1317		CTD		7	48 25 631	124 44 875	250				4/10	✓	attempted on bottom
		1327					48 25 648	124 44 870							
		1334					48 25 639	124 44 875							
	102	1420		ROS		8	48 29 974	124 43 955	257		22-37	15	4/10	✓	
		1427					48 29 980	124 43 973		247					
		1443					48 30 038	124 44 094							
	103	1527		CTD		9	48 32 964	124 43 040	122				4/10	✓	
		1530					48 32 982	124 42 998		119					
		1533					48 32 990	124 42 970							
28	76	1636		CTD		10	48 31.339	124 30.194	95					✓	
		1639					48 31.331	124 30.204		93					
		1641					48 31.328	124 30.216							
28	75	1710		ROS		11	48 28.267	124 32.783	223					✓	transmissometer signal crashed on the way up.
		1716					48 28.241	124 32.832		216					
		1731					48 28.203	124 32.852							
28	74	1813		CTD		12	48 28.174	124 35.672		192				✓	
		1818					48 25.116	124 35.680	180						couldn't get closer to the bottom - strong current
		1822					48 25.121	124 35.698							- same transmissometer problem as prev. cast

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→ removed + cleaned up cable. Will see how it is after cast 73.

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							Latitude	Longitude							
28	73	2108	BE	CTD		13	48° 15.02	124° 06.73	164						
		2113	BO				48° 14.99	124° 06.75		157					
		2116	EN				48° 15.00	124° 06.71							
28	72	2151	BE	ROS		14	48° 18.622	124° 04.027		193					<i>trans. trace looks good.</i>
		2154	BO				48° 18.59	124° 04.00	180						
			EN				48° 18.616	124° 04.012							
28	71	2254	BE	CTD		15	48° 22.201	123° 59.400	119						<i>remote press NFG</i>
		2258	BO				48° 22.200	123° 59.387	109						
		2301	EN				48° 22.198	123° 59.359							
29	70	00:15	BE	CTD		16	48° 19.199	123° 43.178	151						
		00:19	BO				48° 19.224	123° 43.182							
		00:23	EN				48° 19.226	123° 43.163							
	69	0053	BE	ROS		17	48° 15.690	123° 43.176	180		65-76	12			
		0057	BO				48° 15.684	123° 43.186		176					
		0109	EN				48° 15.775	123° 43.284							
	68	2116	BE	CTD		18	48° 12.226	123° 43.012	139						
29		2220	BO				48° 12.221	123° 43.020		137					
		2223	EN				48° 12.206	123° 43.016							

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							Latitude	Longitude							
29	105	0422	BE	CTD		19	48° 11.000	123° 19.040	87				88 P.C.	✓	
		0425	BO				48° 11.008	123° 19.014		85					
		0427	EN				48° 11.000	123° 19.012							
29	ADCP	0514	BE	ROS		20	48° 13.970	123° 18.024	122		77-86	10		✓	BOTTLE 7 DID NOT FIRE
		0517	BO				48° 13.979	123° 18.035		117					ALTHOUGH CONSOLE DISPLAY
		0527	EN				48° 13.996	123° 18.022							SHOWED THAT IT HAD
29	104	0626	BE	CTD		21	48° 19.999	123° 18.070	85					✓	-poured hot water over top of rosette.
		0630	BO				48° 20.006	123° 18.029		82		12 ^{no} samples			Fired 12 bottles @ 10m to test trip.
		0633	EN				48° 20.005	123° 18.008							All 12 fired.
29	66	0711	BE	CTD		22	48° 19.337	123° 14.118	102					✓	
		0715	BO				48° 19.313	123° 14.114		94					Large wire angle
		0718	EN				48° 19.290	123° 14.117							
29	65	0805	BE	ROS	US	23	48° 15.94	123° 09.84	123				DT/SS		
		0809	BO				48° 15.93	123° 09.86		113					
		0818	EN				48° 15.91	123° 09.85							
	64	0903	BE			24	48° 12.823	125° 05.806	108						
		0906	BO				48° 12.824	125° 05.862		99					
		0909	EN				48° 12.826	125° 05.863							

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							Latitude	Longitude							
29	63	0952	BE	CTD		25	48°14.58	122°58.54	152				DT/SS	✓	
		0956	BO				48°14.611	122°58.54		1446					
		1000	EN				48°14.605	122°58.518							
29	62	1129	BE	ROS	US	26	48°22.85	123°02.58	146				DT/SS		
		1134	BO				48°22.85	123°02.60		141					
		1146	EN				48°22.82	123°02.63							
29	54	1332	BE	CTD		27	48°26.623	122°44.302	77				DT/SS	✓	
		1336	BO				48°26.621	122°44.304		75					
		1338	EN				48°26.617	122°44.306							
	53	1431	BE	CTD		28	48°23.298	122°45.002	61				DT/SS	✓	
		1434	BO				48°33.302	122°45.035		56					
		1437	EN				48°33.324	122°44.980							
	52	1517	BE	CTD		29	48°38.987	122°43.272	88				DT/SS	✓	
		1520	BO				48°38.999	122°43.291							
		1523	EN				48°39.000	122°43.291					DT/SS		
29	51	1629	BE	CTD		30	48°46.714	122°51.671	166				DT/SS	✓	
		1634	BO				48°46.720	122°51.674		164					
		1638	EN				48°46.722	122°51.674							

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							Latitude	Longitude							
29	56	1742	BE	ROS		31	48°46.424	123°1.565	213					✓	Sunny!
		1748	BO				48°46.418	123°1.574		207					
		1804	EN				48°46.418	123°1.609							
29	57	1849	BE	CTD		32	48°43.954	123°8.030	162					✓	
		1854	BO				48°43.933	123°8.027		159					
		1857	EN				48°43.906	123°8.088							
	47	2037	BE	ROS	US	33	48°49.29	123°06.19	186		4me oxy		DT/SS	✓	
		2043	BO				48°49.29	123°06.19		179	samples for Sheila	(12)			Niskin 7 misfired
		2048	EN				48°49.29	123°06.19							
29	48	2219	BE	ROS		34	48°51.68	123°03.23	229				✓	✓	Soaked the carousel
		2225	BO				48°51.69	123°03.24		225					in hot H ₂ O. See H
		2230	EN				48°51.71	123°03.20							that helps w Bottle F.
	49	2303	BE	ROS		35	48°55.01	122°59.58	131					✓	* Sed. Core - see note
		2307	BO				48°55.61	122°59.61		124					→
		2311	EN				48°55.025	122°59.623							
29	50	2336	BE	CTD		36	48°57.245	122°57.024	25m						
		2337	BO				48°57.244	122°57.032		22					
		2338	EN				48°57.245	122°57.042							

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Thursday Nov 29, 2007

SED. CORE

1530

48° 51.762

3 attempts, 3rd time lucky

167m

123° 05.681

21 cm core

12m/s 1st cast 1 lead weight on 70cm tube
1m/s 2nd cast 1 lead weight on 70cm tube
1m/s 3rd cast 2 lead, 1 steel weight, 70cm tube

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Ocean Sciences and Productivity Division

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Month <i>11</i>				Year <i>2007</i>				Ship <i>Vectra</i>				Cruise ID <i>2007-67</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	44	0022	BE	CTD		37	48 56 790	123 6 0 11	119				TP/DK	✓	
		0025	BO				48 56 801	123 6 0 06		115					
		0028	EN				48 56 796	123 6 0 02							
30	45	0057	BE	CTD		38	48 53 884	123 8 4 22	128				TP/DK	✓	
		1:00	BO				48 53 879	123 8 4 20		124					
		1:03	EN				48 53 866	123 8 4 38							
30	46	138	BE	ROS		39	48 51 368	123 10 8 38	180		122-133	12	TP/DK	✓	
		142	BO				48 51 348	123 10 7 82		177					
		154	EN				48 51 360	123 10 9 19							
30	43	3:39	BE	CTD		40	49 0.193	123 30.119	195m	192			ADT	✓	
		3:43	BO				49 0.203	123 30.109							
		3:49	EN				49 0.202	123 30.089							
30	42	0419	BE	ROS		41	49° 1.782	123° 26.256	323				8, PC	✓	
		0427	BO				49° 1.806	123° 26.201		317	134-149	16			
		0447	EN				49° 1.807	123° 26.218							
30	41	0602	BE	CTD		42	49° 3.299	123° 22.314	245					✓	
		0609	BO				49° 3.305	123° 22.326		244					
		0615	EN				49° 3.305	123° 22.312							

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							Latitude	Longitude							
30	37	0734	BE	CTD		43	49°13.592	123°20.702	216					✓	
		0739	Bo				49°13.600	123°20.700		214					
		0744	EN				49°13.589	123°20.678							
30	38	0817	BE	CTD		44	49°11.986	123°26.507		307					
		0825	Bo				49°11.965	123°26.524		300				✓	
		0832	EN				49°11.939	123°26.495							** See note →
30	26	1816	BE	CTD		45	49°14.291	123°50.780	252				SP PC	✓	
		1823	Bo				49°14.302	123°50.807		248					
		1828	EN				49°14.274	123°50.866							
30	27	1916	BE	ROS		46	49°19.108	123°48.023	348						
		1924	Bo				49°19.146	123°48.032		343					
		1947	EN				49°19.164	123°48.073							
30	27ish	1955				47				365					Sed. Core
	28	2046	BE			48	49°24.403	123°45.280	156						
		2050	Bo				49°24.397	123°45.304		152					CTD
		2055	EN				49°24.407	123°45.311							

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Nov 30, 2007 - 1235am break off STNS for Nanaimo

Nov 30, 2007 - 09:30 depart PBS and resume science program

Nov 30 1950 - Sed. Core 365m, first cast 1 weight + limiter plate

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							Latitude	Longitude							
30	24	2228	BE	CTD		49	49°30.26	124°05.90	426				DT/SS	✓	sunny beautiful
		2239	BO				49°30.28	124°05.97		420					day? (chilly
		2248	EN				49°30.27	124°05.99							though)
30	25	2310	BE	CTD		50	49°27.69	124°07.47	290					✓	
		2318	BO				49°27.638	124°07.562		295				✓	
		2326	EN				49°27.606	124°07.579							
30	2	23:53	BE	ROS	us	51	49°24.101	124°9.284	278		166-180	15	DT/LB	✓	BOTTLE 7 - didn't
1		00:20	BO				49°24.085	124°9.310		273					fire
1		00:17	EN				49°24.108	124°9.308	246						
1	1	00:47	BE	CTD	CDV	52	49°20.310	124°12.086		243				✓	
		00:53	BO				49°20.312	124°12.101							
		00:58	EN				49°20.321	124°12.118							
1	4	01:47	BE	CTD	blind and	53	49°24.505	124°22.079	344					✓	
		01:55	BO				49°24.496	124°22.134		338					
		02:02	EN				49°24.542	124°22.138							
1	3	02:22	BE	ROS	cruel and unusual	54	49°26.615	124°20.216	322		181-196			✓	
		02:29	BO				49°26.628	124°20.268		317					
		02:46	EN				49°26.608	124°20.292							

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

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month December			Year 2007			Ship Vector			Cruise ID 2007-67						
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							
1	5	3:33	BE	CTD	devious	55	49° 27.388	124° 30.796	316				TH/OT	✓	
		3:39	BO				49° 27.410	124° 30.808		312					
		3:44	EN				49° 27.430	124° 30.784							
1	6	0413	BE	ROS	click of mouse	56	49° 30.598	124° 27.858	190		197-209	13		✓	SB, PC
		0417	BO				49° 30.600	124° 27.808							Bottle 13 (surface)
		0430	EN				49° 30.658	124° 27.857							Fired but empty.
1	7	0504	BE	CTD		57	49° 34.420	124° 24.202	353					✓	wood chips on sea
		0511	BO				49° 34.440	124° 24.222		351					Surface; water clear.
		0518	EN				49° 34.446	124° 24.298							Fired 16 bottles @ surface. All fired correctly.
1	8	0005	BE	CTD		58			341					✓	
		0615	BO				49° 39.300	124° 33.023		340					
		0621	EN				49° 39.306	124° 33.002							
1	9	0658	BE	ROS		59	49° 35.530	124° 38.294	171		210-221			✓	
		0702	BO				49° 35.514	124° 38.291		166					
		0714	EN				49° 35.507	124° 38.356							
1	10	0808	BE	CTD		60	49° 40.703	124° 47.263	96						
		0811	BO				49° 40.708	124° 47.258		90				✓	
		0813	EN				49° 40.696	124° 47.266							

Cast type:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>December</u>				Year <u>2007</u>			Ship					Cruise ID				
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								
1	11	0840	BE	CTD		61	49° 42.398	124° 43.400	300				DT/SS	✓		
		0846	BO				49° 42.413	124° 43.406		294			↓			
		0850	EN				49° 42.409	124° 43.408								
1	12	0911	BE	ROS		62	49° 43.543	124° 40.770	354							
		0918	BO				49° 43.555	124° 40.806		348	222-237	16		✓		
		0936	EN				49° 43.56	124° 40.95								
1	13	1109	BE	CTD		63	49° 55.304	124° 55.168	243							
		1114	BO				49° 55.307	124° 55.162								
		1117	EN				49° 55.314	124° 55.152								
1	14	1146	BE	ROS	matches	64	49° 52.988	124° 59.634	312		238-253	16	1.105	✓	Did not turn off (D)	
		11:54	BO				49° 52.978	124° 59.664		309					pump until 12:21	
		12:14	EN				49° 53.006	124° 59.636							(7 min after on deck)	
1	15	12:40	BE	CTD	hang man	65	49° 51.616	125° 1.602	125					✓		
		12:42	BO				49° 51.618	125° 1.595		122						
		12:45	EN				49° 51.612	125° 1.585								
1	16	13:37	BE	ROS		66	49° 57.715	125° 8.816	154		254 -264	11		✓	strong currents	
		13:42	BO				49° 57.721	125° 8.885		153						
		13:54	EN				49° 57.725	125° 8.857								

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

DAILY LOG				Ocean Sciences and Productivity Division								Cruise ID 2007-67			
Month December				Year 2007			Ship Vector								
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1	17	14:36	BE	CTD		67	49 58.800	125 4.310	263				Lizette DAVID	✓	snowing hard
		14:42	BO				49 58.790	125 4.321		260					dark outside
		14:45	EN				49 58.814	125 4.326							
1	18	15:30	BE	CTD		68	49 59.209	124 58.950	147					✓	still dark outside
		15:33	BO				49 59.225	124 58.950		142					and snowing ever so
		15:35	EN				49 59.233	124 58.945							hard
1	19	1610	BE	CTD		69	50° 1.178	124° 52.910	273					✓	light now, not snowing
		1615	BO				50° 1.190	124° 52.926		277.5			8, PC	✓	
		1618	EN				50° 1.195	124° 52.928							
1	20	1832	BE	CTD		70	49° 47.186	124° 32.309	315					✓	
		1838	BO				49° 47.183	124° 32.340		313					
		1842	EN				49° 47.183	124° 32.316							
1	22	2009	BE	CTD		71	49° 40 206	124° 16 304		354			DT/SS	✓	Attender not working
		2016	BO				49 40 222	124 16 301			354		↓	✓	
		2023	EN				49 40 206	124 16 295							
1	24		BE	CTD											
			BO												
			EN												

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SAR TASK INC 14:40 - 15:15