

DAILY LOG BOOK

MISSION
NUMBER

2007 - 11

DATE:

From: 26 March to: 1 - April

VESSEL:

CCGS VECTOR

PROJECT:

AQUACULTURE - BC PSF

Oceanography

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

Captain: Don Hardy First Officer: Roger
Second Officer: Elaine Third Officer: _____

Mission Participants / Agencies: TUS

Scientific Personnel: _____
Name _____
Party Chief: Dario Stucchi

Name	Watch	Cabin	Name	Watch	Cabin
Darin Stucchi		CS	Darin Stucchi		
Dave Spear		SS			
Doug Anderson		PS			
Edmund Fok		PS			
Lucius Perrault		SS			
Moira Galbraith		FS			
Christina Gulbransen		FS			

Second leg of Mission: _____
Name _____
Party Chief: _____
 Watch _____

[illegible]

Data logging computer:

Data acquisition program: SeaSave

CTD deck unit make: SBE **model:** 11 plus **serial number:** 0425

Primary CTD

Make: SBE model: 711 serial number: 0550

Primary temperature serial number: 2968

Primary conductivity serial number: 1766

Secondary temperature serial number: 2374

Secondary conductivity serial number: 1729

Transmissometer: wetlabs Model: CSTA0 s/n: 1006

Fluorometer: Model	Seapoint	Cable gain:	10x	s/n:	1845
Fluorometer: Model	Seapoint	Cable gain:	10x	s/n:	1845

Oxygen sensor:	S3E	Model:	43	s/n:	1117	P, S or NO pump?	S or NO pump?
Transducer, model:	SEAPoint	Cable gam:	10X	s/n:	2845	P, S or NO pump?	S or NO pump?

PAR sensor: _____ Model: _____ s/n: _____
 PAR sensor: _____ Model: _____ s/n: _____
 PAR sensor: _____ Model: _____ s/n: _____

Other sensors: AH1 meter s/n: 125

Other sensors: Anti meter s/n: 1252 P, S or NO pump? P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump? _____

Other sensors: _____ S/N: _____ P, S or NO pump? _____

Other sensors: _____ S/N: _____ P, S or NO pump? _____

Owner sensors. _____ s/n: _____ P, S or NO pump? _____
 ary CTD _____

Make: SGF model: 911 serial number: 0505

Primary temperature serial number: 0585
 model: 511 serial number: 0585

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ S/n: _____
Cable gain: _____

Oxygen sensor: _____ S/n: _____
 Model: _____

PAR sensor: _____ Model: _____ s/n: _____

Other sensors: _____ s/n: _____
 _____ model: _____ s/n: _____

Other sensors:	s/n:

Other sensors:	s/n:

CTD calibration bottle location (height above CTD in metres):

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month March				Year 2007			Ship Vector				Cruise ID 2007-11				
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	SI01	0249	BE	ROS		1	48 39 31	123 29 47	106			15 24	DA	✓	Bottles not sampled, only a pylon / ctd test.
		0254	BO				48 39 31	123 29 49		50	—				
		0256	EN				48 39.30	123 29 47							
28	KIW04	0154	DE	MOR			50°39.382	126° 9.868	182						Current Meter Mooring
28	Kn1	02:15	BE			2	50 39 32.5	126 10 985	186		1-10	10	EF DS	✓	
		02:20	BO				50 39 31.6	126 10 993		176					
		02:32	EN				50 39 29.9	126 10 988							
	SP1	0122	BE	NET			50 40.335	126 11.015	102	1					SARGENT PASS FARM
		0133	EN				40.487	11.103							
	SP2	0144	BE	NET			50 41.829	126 11.322	6	1					SPASS NARROWS
		0154	EN				41.726	11.938							
	SP3	0226	BE	NET			50 40.370	126 11.778	5	1					OPPOSITE FARM
			EN				40.230	11.787							
28	TV C0.5	03:05	BE	CTD		3	50 40.786	126 16.682	156					✓	
		03:09	BO				50 40.788	126 14.610		145					
		03:13	EN				50 40.78	126 14.584							

Cast type:

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bottle firing method:

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LIGHT TRAP DEPLOYED AT FLOATING DOCK IN SARGERUNT PASS NARROWS

N 5041656 W 12611601

Time in → March 27/07 19:30

Trap out → 13:00

(load?)

(load?)

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							Latitude	Longitude							
28	Tr C1	03:48	BE	ROS		4	50 43.602	126 10.921	295		11-23			✓	
		03:54	BO				50 43.624	126 10.922		285					
		04:10	EN				50 43.628	126 10.817							
28	Tr C1.5	04:40	BE	CTD		5	50 45.60	126 09.024	219					✓	
		04:45	BO				50 45.61	126 09.030		209					
		04:49	EN				50 45.61	126 09.036							
28	TS 1	05:28	BE	CTD		6	50 47.216	126 02.232	166					✓	
		05:32	BO				50 47.209	126 02.224		156					
		05:38	EN				50 47.202	126 02.221							
28	Tr C2	06:43	BE	CTD		7	50 49.21	126 12.768	205					✓	
		06:48	BO				50 49.19	126 12.779		195					
		06:53	EN				50 49.17	126 12.804							
28	ROS 1														
28	LOOP 1	06:59	3E				50 49.36	126 12.66							
28	ROS 1	07:22	3E	ROS		8	50 51.82	126 10.84	120			⊙	DR CG		
		07:26	BO				50 51.82	126 10.85	1	112					
		07:30	EN				50 51.81	126 10.86							

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Sutchan - 01 Mooring Recovery March 28, 2007

On Station 0730 - Range 234 232

B511

Deck crew rearranging rigging

0759 - Range 294 297

0800 - Sent B532 - 3/4 m Confirmed

- On surface

AACP on deck 0810 (PDT)

RCM on deck 0816 - clean - parabolic wheel spinning freely

RCM on deck 0820 - rotor spinning freely - some slime

RCM on deck 0823 - rotor spinning freely - some slime

RCM on deck 0826 - rotor spinning freely - some hydroid growing on rotor + on body

all aboard 0827 (PDT)

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							Latitude	Longitude							
28	TRC2-5	0820	BE	ROS		9	50 50 41	126 19 81	276						
		0827	BO				50 50 42	126 19 78		266	24-36	13	DA 86	✓	
		0844	EN				50 50 35	126 19 79							
28	TRC3	0918		ROS		10	50 48 98	126 25 41	235		—	⊖		✓	
		0924					50 48 97	126 25 45		22.2					
		0929					50 48 96	126 24 40							
28	PPI	0958		ROS		11	50 48 79	126 31 50	150			⊖	DA 86	✓	
		1002					50 48 78	126 31 48		140	37-45	9			
		1012					50 40 76	126 31 38							
28	KIND	1046		ROS		12	50 51 71	126 37 24	400						
		1057					50 51 74	126 37.24		395	46-48		DA 86	✓	SAL ONLY
		1108					50 51 73	126 37 19							
28	S4T01	1500	RE	MOR			50° 52.766	126° 44.701							Current Meter Mooring on surface
28	TCS04	2105	DE	MOR			50° 43.708	126° 10.455	222						Anchor released
28	PPI	1917	BE	NET			50 42.8	126 11.585	24						PUMISH POINT
		1927	EN				50 42.878	11.426							

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Pen Pass Recovery March 29, 2007

740 on station Range 289 305 Drifting away

748 Send B530 to release
749 On Surface

WT 600 KHz #1820

RCM4# 6471

RCM4# 8819

RCM4# 7498

(POT)

0805 out of water

0807 - rotor spinning freely, some growth

0811 - rotor spinning freely, minimal growth

0814 - rotor spinning freely, some hydroid on top tail

28-March: - Visited Burdwood farm and met Jason
- we dismantled weather sensors + retrieved the console
- brought the weather station back to the VECTOR
- farm workers were making use of the weather station
- asked if they would like to join the weather network
- Jason suggested that I call Phil Wiper (250) 203-1122 to discuss

- proceeded with small boat to Gormely Pt. to visit weather station
- noted that wire from wind speed + direction sensors was chewed up by animal
- dismantled station and brought it back to the ship.

1100 - back aboard the VECTOR

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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							
28	NHR	2045	BE	NET			50 43.515	126 12.726	6						NORTH HUMPHREY ROCK
		2055	EN				43.572	12.402							
	HR1	2112	BE	NET			50 41.941	126 15.409	4						HUMPHREY ROCK FARM
		2122	EN				41.887	15.497							
	HR2	2129	BE	NET			50 41.732	126 15.693	5.5						SOUTH OF FARM
		2139	EN				41.610	15.794							
	HR3	2150	BE	NET			50 41.755	126 13.992	10.7						ACROSS FROM FARM ON
		2200	EN				41.745	13.790							VISCOUNT ISLAND
29	Sut02	0248	DE	MOR			50° 52.752	126° 44.671	209						Deployed current meter mooring.
29	WP	04:12	BE	ROS		13	50 50.87	126 56.40	183		49-58				
		04:16	BO				50 50.87	126 56.45							
		04:27	EN				50 50.91	126 56.49							
29	WP05	05:05	BE	CTD		14	50 52.93	126 53.31	167						sea floor big change
		05:08	BO				50 52.97	126 53.32		131					when drift, may
		05:10	EN				50 52.99	126 53.32							touch bottom

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29 March

~ 1230

went ashore at point near the Wicklow farm

and downloaded data from weather station

~ 1247 (007) download time.

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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							
29	SC	05:56	BE	ROS		15	50 53.40	126 45.95	231		59-70		EF		Windy - Wire broken
		06:07	BO				50 53.39	126 46.19		220					
		06:16	EN				50 53.55	126 46.61							
29	KinD	0720	BE	CTD ROS		16	50 51.68	126 37.24	400		71-72				
		0729	BO				50 51.70	126 37.23		390		2	DA SC	✓	
		0738	EN				50 51.70	126 37.23							
29	Kin1.5	0827	BE	ROS		17	50 56.19	126 28.92	480						
		0836	BO				50 56.20	126 28.94		470	73-87	15	DA SC	✓	
		0858	EN				50 56.18	126 28.95							
29	WS0.5	0934	BO	ROS		18	50 58.56	126 30.50	440						
		0944	BO				50 58.58	126 30.52		430	88-89	2	DA SC	✓	
		0954	EN				50 58.56	126 30.51							
29	WS1	1018	BE	ROS		19	51 01.09	126 31.39	190						
		1024	BO				51 01.09	126 31.36		180	90-100	11	DA/SC	✓	Error light near bottom
		1036	EN				51 01.07	126 31.38							
29	Kin2	1134	BE	ROS		20	50 55.51	126 23.23	376						
		1143	BO				50 55.49	126 23.23		365	101-102	2	DA/SC	✓	Communication errors at 300 plus
		1152	EN				50 55.50	126 23.26							No bottle confirmation

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							Latitude	Longitude							
29	Pend 1	1449	RE	MOR			50° 50.21'	126° 34.76'							mooring recovery
29	PP1	1647	BE	CTD		21	50° 48.793	126° 31.537	150						
		1652	BO				48.760	31.540							
		1655	EN				48.763	31.523							
29	RaP	1759	BE	CTD		22	50° 46.525	126° 30.578	242						
		1806	BO				50 46.536	126 30.594							
		1812	EN				50 46.481	126 30.592							
29	V51	1743	BE	NET			50 47.10	126 23.879	4						VINER SOUND
		1753	EN				47.115	23.703							WEST SIDE
	V52	1808	BE	NET			50 47.247	126 23.475	3						VINER SOUND EAST
		1810	EN				47.260	23.569							
	KP1	1825	BE	NET			50 47.572	126 25.978	3						KING BINT COVE
		1835	EN				47.639	26.25							45 CHOM AT SURFACE
29	FIS	1934	BE	ROS		23	50 47 04	126 38 82	335						Reconnect rosette bulkhead
		1942	BO				50 47 99	126 38 05			103-116	14	DA DS		on OBSO. ⇒
		2001	EN				50 47 11	126 38 42							

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* Reconnect & Re-grease rosette bulkhead on 0050. Some corrosion evident.

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							Latitude	Longitude							
29	FISO	20:12	BE	ROS		24	50 45 50	126 44 29	203						
		20:51	BO				50 45 52	126 44 29		295	117-118	2	DA/DS		
		20:59	EN				50 45 55	126 44 29							
29	QCS1	21:51	BE	ROS		25	50 40 16	126 46 39	160 158						
		21:55	BO				50 40 19	126 46 46		155	119-127	9		✓	
		22:05	EN				50 40 26	126 46 52							
30	PENØ2	01:34	DE	MOR			50° 50.208	126° 34.753	158m						Current mid-mooring
30	SWL	04:12	BE	CTD		26	50 38.114	126 41.095	75					✓	
		04:13	BO				50 38.108	126 41.095		65					
		04:15	EN				50 38.108	126 41.081							
30	KNØ	04:44	BE	CTD		27	50 38.266	126 35.034	61					✓	
		04:46	BO				50 38.263	126 35.016		53					
		04:47	EN				50 38.266	126 35.002							
30	KN1	05:32	BE	ROS		28	50 38.102	126 25.510	247		128-139	12		✓	
		05:37	BO				50 38.093	126 25.510		238					
		05:51	EN				50 38.148	126 25.625							

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Date

(local)

WICKLOW WOGGER'S DOCK LIGHT TRAP 1335 50 47.283N 126 46.886W

FISH FARM FULL OPERATION FISH LOOK ABOUT 1/2 KILO

29. March.

NET

0207

BE

50

47.129

126 41.477

WICKLOW FARM BETWEEN NETS + 1300MS

0217

EN

47.264

41.604

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							Latitude	Longitude							
30	KN1.5	06:34	BE	CTD ROS		29	50 38.323	126 17.747	242					✓	
		06:40	BO				50 38.286	126 17.820		231	—	0			
		06:45	EN				50 38.294	126 17.932							
30	KN2	07:25	BE	CTD ROS		30	50 39 30	126 11 04	186						
		07:31	BO				50 39 31	126 11 01		175	—	0	DA SE	✓	
		07:36	EN				50 39 31	126 10 49							
30	Drifter#5	0803	DE	DRF		JILL	50° 39.068	126° 06.041							
31		1619	RE				50° 40.693	125° 59.537							
30	Drifter#4	0809	DE	DRF		PIP	50° 39.474	126° 5.583							
31		1611	RE				50° 40.613	125° 57.208							
30	Drifter#3	0914	DE	DRF		RON	50° 39.697	126° 5.199							
		1722	RE				50° 39.148	126° 06.547							
		0918?					(50.6523)	(126.1091)							
30	Drifter#2	0918	DE	DRF		DARIO	50° 40.273	126° 4.755							
31		1604	RE	DRF			50° 40.901	125° 55.637							

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							Latitude	Longitude							
30	Drifted #1	0823	DE	DRF		WENDY	50° 40.662	126° 4.389							
30	KN3	0833	BE	ROS		31	50 40 19	126 04 03	196						Bot - 7.5
		0839	BO				50 40 20	126 04 11		185	140 - 149	10	DA		
		0852	EN				50 40 19	126 04 01							
30	KN4	0930	BE	ROS		32	50 40 89	125 56 23	447						
		0943	BO				50 40 91	125 56 24		435	150 - 152	3	DA/CG		Bot - 6.6
		0956	EN				50 40 91	125 56 20							
30	KN5	1038	BE	ROS		33	50 41 62	125 46 98	394						
		1049	BO				50 41 56	125 46 99			150 - 166	14	DA/CG		
			EN				50 41 55	125 46 94							Bot - 8.8
30	KN5S	15:30	BE	CTD		34	50 40 89	125 47 09	190					✓	
		15:36	BO				50 40 88	125 47 07		182					BOT-8.
		15:40	EN				50 40 90	125 47 07							
30	KN5	15:50	BE	ROS		35	50 41 62	125 46 99	400		168 - 169	2		✓	Bot -
		16:00	BO				50 41 587	125 47 02		391					BOT-8
		16:10	EN				50 41 59	125 47 05							
30	KN5N	16:20	BE	CTD		36	50 42 09	125 47 15	200					✓	
		16:27	BO				50 42 08	125 47 17		190					
		16:31	EN				50 42 098	125 47 173							

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Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>March</i>				Year <i>2007</i>			Ship <i>VZC70R</i>				Cruise ID <i>2007-11</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	KN5N	1636		Loop#2			50 41.98	125 46.58							
30	KN4S	17:55	BE	CTD		37	50 42.037	125 56.15	246					✓	
		18:02	BO				50 40.051	125 56.158		240					
		18:07	EN				50 40.050	125 56.191							
30	GC1	1550	BE	NET			50 40.157	125 43.881	1.5	1					GLENDALE COVE
		1600	EN				50 40.247	125 43.76							EAST OF LODGE
	GC2	1612	BE	NET			50 40.221	125 44.236	1.5	1					ACROSS FROM GC1
		1622	EN				50 40.078	125 44.223							
	GC3	1638	BE	NET			50 41.150	125 44.297	20	1					NEAR POINT ON WEST
		1648	EN				50 41.022	125 44.382							N/5 CHUM
30	KN4	19:00	BE	ROS		38	50 40.63	125 56.101	430						
		19 08	BO				50 40.65	125 55.95		420	170-171	2			
		19 19	EN				50 40.62	125 55.89							
30	KN4	1901		Loop#3			50° 40.64	125° 56.08							
							50 40.	125 55							
	HS1	2057	BE	NET			50 41.297	125 59.541	5	1					HOEYA SOUND POINT
		2107	EN				50 41.385	125 59.352							N/10 CHUM

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LIGHT TRAPS

GLENDALE LODGE 50.4264 125 44.62 MARCH 30/07 0820 RETRIEVE MARCH 31 0815

HOEY SOUND 50 21.45 125 58.198 MARCH 30/07 1345

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>March</i>				Year <i>2007</i>			Ship <i>Vector</i>				Cruise ID <i>2007-11</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
30	KN44	1933	BE	ROS			50 41 07	125 56 20	265						
		1940	BO			39	50 41 06	125 56 16		275	0	⊖	DA CG	✓	
		1947	EN				50 41 06	125 56 11							
30	KN35	2107	BE	ROS		40	50 39.61	126 03 96	111						
		2111	BO				50 39.62	126 03 96		110	0	⊖	DA CG	✓	
		2113	EN				50 39 62	126 03 96							
30	KN3	2139	BE	ROS		41	50 40 18	126 03 95	193						
		2142	BO				50 40 22	126 03 99			0	⊖	DA CG	✓	
		2146	EN				50 40 25	126 03 96							
30	KN34	2156	BE	ROS		42	50 40 69	126 04 07	88						
		2159	BO				50 40 67	126 04 06		80	0	⊖	DA CG	✓	
		2200	EN				50 40 67	126 04 05							
30	KN25	2240	BE	ROS		43	50 38 87	126 11 11	168						
		2244	BO				50 38 87	126 11 09		160	0	⊖	DA CG	✓	
		2247	EN				50 38 87	126 11 07							
30	Kn2	2257	BE	ROS		44	50°39.304	126°10.961	188		0	0	PS	✓	
		2301	BO				50°39.296	126°10.950		177					5m off
		2304	EN				50°39.301	126°10.936							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			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							
30	Kn2N	2304	BE	ROS		45	50°40.031	126°11.270	190		0	0	DSL		5m off bottom
		2320	BO				50°40.048	126°11.278		183					
		2324	EN				50°40.061	126°11.286							
31	Kn1.5S	0048	BE	ROS		46	50°38.036	126°17.675	155		0	0	DSL		
		0055	BO				50°38.066	126°17.618		170					Altimeter never came into
		0058	EN				50°38.058	126°17.605							range - chattered out
31	Kn1.5	0108	BE	ROS		47	50°38.311	126°17.585	247		172-173	2			
		0115	BO				50°38.314	126°17.554		240					5 mob
		0120	EN				50°38.363	126°17.432							
31	Kn1.5N	0133	BE	ROS		48	50°38.998	126°17.758	108						Shallowed up on station
		0139	BO				38.994	126°17.678		165					and then got deeper
		0143	EN				50°39.008	126°17.642							9 mob
31	Tribunech.	02:57		LOOP#4			50°41.154	126°14.264							
31	Knight	1516		LOOP#5			50°41.99	125°44.63							new filament
31	Drifter #1	1543	RE	DRF		WENDY	50°41.304	125°52.064							not transmitting
							50.6884	125.8677							

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30 - March

1530(PDT)

- at Doctor Island weather station
- seal haul out at site
- noted that speed + dir sensor arm was tilted
- cups were rotating but the direction vane not giving accurate reading
- 1507 console time did download
- rain gauge was plugged - cleared it.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Mar</i>				Year <i>2007</i>			Ship <i>V8C70R</i>				Cruise ID <i>2007-11</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							
31	CC1*	18:43	BE	ROS		49	50 36.319	126 21.391	117		174-180				
		18:46	BO				50 36.317	126 21.377		107		7			
		18:53	EN				50 36.324	126 31.346							
31	CC2*	19:36	BE	CTD		50	50 34 20	126 29 25	70						
		19:38	BO				50 34 19	126 29 27		60			DA'CC	✓	
		19:40	EN				50 34 19	126 29 28							
31	BIS*	22:13	BE	ROS		51	50 36 06	126 43 06	127						
		22:16	BO				50 36 06	126 43 06		120	0	0	DA'CC	✓	
		22:19	EN				50 36 06	126 43 07							
31	Johnston St.	22:25		LOOP#6			50° 35.40	126° 42.40							
01	Johnston St.	05:11		LOOP#7			50° 14.09	125° 22.86							
01	SofG	14:25		LOOP#8			49° 06.82	123° 34.52							

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31-March

* SBE-19 SN 1294 was attached to rosette frame in order to compare with SBE 911.

- 3 joint profiles were collected (sh CC1, CC2 + BIS)

- File names for #1294 are	2007-11-049.hex	sh	CC1
	2007-11-050.hex		CC2
	2007-11-051.hex		BIS