

DAILY LOG BOOK

MISSION
NUMBER

2008-14

DATE:

From:

JUNE 18, 2008

to:

JULY 7, 2008

VESSEL:

CFV VIKING STORM

PROJECT:

HIGH SEAS SALMON - DR. MARC TRIDEL

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

Captain: Chris Rogers First Officer: _____
Second Officer: _____ Third Officer: _____

Mission Participants / Agencies: Fisheries & Oceans Canada, USA-NMFS

Scientific Personnel:

Party Chief:

Name	Watch	Cabin	Name	Watch	Cabin
<u>John Morris</u>	_____	_____	_____	_____	_____
<u>Tyler Zukowski</u>	_____	_____	_____	_____	_____
<u>Mary H. Hess</u>	_____	_____	_____	_____	_____
<u>STEPHAN TUCKER</u>	_____	_____	_____	_____	_____
<u>YEONGHA FURUG</u>	_____	_____	_____	_____	_____
<u>DEBORAH HARSTAD</u>	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Second leg of Mission:

Party Chief:

Name	Watch	Cabin	Name	Watch	Cabin
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Data logging computer:

Data acquisition program: _____
CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: _____ model: _____ serial number: _____
Primary temperature serial number: _____
Primary conductivity serial number: _____
Secondary temperature serial number: _____
Secondary conductivity serial number: _____
Transmissometer: _____ Model: _____ s/n: _____
Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump?
Oxygen sensor: _____ Model: _____ s/n: _____ P, S or NO pump?
PAR sensor: _____ Model: _____ s/n: _____
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?
Other sensors: _____ s/n: _____ P, S or NO pump?

Secondary CTD

Make: _____ model: _____ serial number: _____
Primary temperature serial number: _____
Primary conductivity serial number: _____
Secondary temperature serial number: _____
Secondary conductivity serial number: _____
Transmissometer: _____ Model: _____ s/n: _____
Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump?
Oxygen sensor: _____ Model: _____ s/n: _____ P, S or NO pump?
PAR sensor: _____ Model: _____ s/n: _____
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?
Other sensors: _____ s/n: _____ P, S or NO pump?

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CFV Viking Storm</i>				Cruise ID <i>2008-14</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							
18	G501	20:17	BE	CTD		001	49 12.33	123 41.99	335	150		1			INTS + SALINITY @ 10m
		20:23	EN				49 12.33	123 42.054							
		20:27	BE	BONGO		002	49 12.33	123 42.089		150					
		20:33	EN				49 12.33	123 42.153							
18	G502	21:33	BE	BONGO		003	49 12.37	123 28.94	308	150					
		21:39	EN				49 12.45	123 28.87							
		21:45	BE	CTD		004	49 12.52	123 28.83		150		1			INTS + SALINITY @ 10m
		21:51	EN				49 12.62	123 28.77							
18	G503	22:18	BE	CTD		005	49 12.95	123 20.46	188	150		1			INTS + SALINITY @ 10m
		22:30	EN				49 13.03	123 20.46							
		22:38	BE	BONGO		006	49 13.04	123 20.45							
		22:44	EN				49 13.13	123 20.45							
18	G504	23:22	BE	BONGO		007	49 07.14	123 20.985	145	135					
		23:33	EN				49 07.23	123 21.06							
		23:38	BE	CTD		008	49 07.33	123 21.14	149	135		1			INTS + SALINITY @ 10m
		23:45	EN				49 07.42	123 21.23							

Cast type:

BOT = bottle cast, no CTD
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 NET = net haul
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bottle firing method:
 US = up/stop
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Time Code

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

Daily_log_book.doc

* ALL TIMES AND DATES ARE RECORDED AS UTC

PST = UTC - 7:0 HRS

* THE FIRST 50 CHLOROPHYLLS, STARTING FROM STATION CS01 (EVENT #1) WERE COMPROMISED. THESE CHLOROPHYLL SAMPLES WERE LEFT OUT AT ROOM TEMPERATURE IN THE WET LAB AT PBS FOR APPROXIMATELY 36 HOURS. THE SAMPLES WERE NOT EXPOSED TO SUNLIGHT OR FLUORESCENT LIGHT DURING THIS TIME SINCE THEY WERE CONTAINED IN A BLACK GARBAGE BAG.

THIS INCIDENT OCCURRED DURING OFF-LOADING AT PBS AT THE END OF THE CRUISE.

EVENT #S COMPROMISED ARE:

1, 4, 5, 8, 9, 12, 13, 15, 19, 21, 25, 27, 31,
33, 37, 39, 43, 45, 49, 51, 55, 57, 61, 63, 67,
69, 73, 75, 79, 81, 85, 87, 91, 93, 97, 99, 103,
105, 109, 111, 115, 117, 121, 124, 128, 129, 133, 135, 139, 141

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CEV Viking Storm</i>				Cruise ID <i>2008-14</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							
19	G805	0:14	BE	CTD		009	49 07.02	123 27.91	319	150		/	1075+		Salinity 6.0m
		0:21	EN				49 07.17	123 28.12							
		0:23	BE	BOMBO		010	49 07.22	123 28.19							
		0:30	EN				49 07.36	123 28.34		150					
19	G806	1:28	BE	BOMBO		011	49 00.71	123 23.744	271	150					
		1:35	EN				49 00.71	123 23.8							
		1:38	BE	CTD		012	49 00.72	123 23.8	273	150		/	1075+		Salinity 6.10m
		1:44	EN				49 00.71	123 23.82							
19	G807	2:20	BE	CTD		013	49 00.71	123 16.59	151	140		/	1075+		Salinity 7.0.10m
		2:27	EN				49 00.80	123 16.70							
		2:28	BE	BOMBO		014	49 00.81	123 16.73							
		2:35	EN				49 00.90	123 16.76							

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CSO 5 9

CHARACTERISTICS COMPROMISED

CSO 6 12

CSO 7 13

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CFV Viking Storm</i>				Cruise ID <i>2008-14</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
19	JF01	14:04	FE	CTD		015	48 17 24	123 38 79	150	171		1			JUAN DE FUCA -
		14:10	FE				48 17 25	123 39 05							BERRY HEAD
		14:18	FE	Bottle		016	48 17 26	123 39 20	150						NOTS + SALINITY
		14:19	FE				48 17 28	123 39 49							@ 10m
		14:35	BE	TRAWL		017	48 17 40	123 41 40							
		15:05	FE				48 18 20	123 46 22							
	JF02	15:36	BE	Bongo		018	48 20.3	123 51.4	130	120					JUAN DE FUCA -
		15:40	EN				48 20.4	123 51.7							SHERIDAN PT.
		15:46	BE	CTD		019	48 20 46	123 51.94	124	115		1			NOTS + SALINITY
		15:50	EN				48 20 55	123 52 19							@ 10m
		15:59	BE	Trawl		020	48 20 85	123 53.28							
		16:29	FE				48 22 39	123 57 61							
	JF03	17:38	BE	CTD		021	48 25 74	124 10 94	68	55		1			JUAN DE FUCA -
		17:40	FE				48 25 76	124 11.04							MAGDALENA R.
		17:41	BE	Bongo		022	48 25 77	124 11.10		55					NOTS + SALINITY
		17:44	FE				48 25 77	124 11.19							@ 10m
		17:52	BE	TRAWL		023	48 25 73	124 12.08							
		18:22	FE				48 26 52	124 16.45							

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OVERCAST, LIGHT WIND, RIPPED SEAS, 1/2 meter swell.

JFO1 15 CHLOROPHYLLS UNPROMISED

JFO2 19

JFO3 21

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CGV Viking Storm</i>				Cruise ID <i>2008-14</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							
19	JF04	1841	BE	Bongo		024	48 27.75	124 19.44	87	75					JDF - Samba's
		1845	EN				48 27.75	124 19.51							
		1849	BE	CTD		025	48 27.76	124 19.62	89	80		/			NETS + SALINITY
		1853	EN				48 27.77	124 19.65							6 10m
		1902	BE	Trawl		026	48 28.28	124 20.15	57						
		1932	EN				48 30.16	124 22.88	48						
19	JF05	2011	BE	CTD		027	48 32.02	124 29.62	40	35		/			JDF - Port Renouveau
		2013	EN				48 32.02	124 29.61							NETS + SALINITY
		2015	BE	Bongo		028	48 32.03	124 29.60		35					6 10m
		2016	EN				48 32.03	124 29.60							
		2026	BE	Trawl		029	48 32.79	124 30.59	37						
		2056	EN				48 32.74	124 33.95	47						
19	JF06	2142	BE	Bongo		030	48 33.84	124 42.00	77	65					JDF - Bonaire R.
		2145	EN				48 33.83	124 41.98							NETS + SALINITY
		2150	BE	CTD		031	48 33.87	124 41.84	73	65		/			6 10m
		2153	EN				48 33.87	124 41.80							
		2159	BE	Trawl		032	48 34.00	124 42.23	69						
		2229	EN				48 34.82	124 45.022							

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JF04-25

CHLOROPHYLLS COMPROMISED

JF05-27

JF06-31

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year				Ship				Cruise ID			
June				2008				CPV Viking - Storm				2008-14			
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
19	VI01	2315	RE	CTD		033	48 36.00	124 52.5	56	50		/			WAVE - SWIFTSURF OR
		2318	RE				48 36.00	124 52.5							NETS + SALINITY
		2320	RE	Bongo		034	48 36.01	124 52.4	56	45					10m -
		2322	RE				48 36.00	124 52.4							
		23 29	RE	Tow		035	48 36 02	124 52.9	60						
		23 39	RE				48 36 48	124 55 02	58						
20	VI02	0050	RE	Bongo		036	48 40.25	125 03.21	44	40					WAVE - over Mt. Imt.
		0053	RE				48 40.2	125 03.17							FLOCK OF 7
		0057	RE	CTD		037	48 40 21	125 03.08	44	40		/			PERICANS SITES
		0059	RE				48 40 19	125 03.07							NETS + SALINITY
		0106	RE	Tow		038	48 40 28	125 03.61	47						610m
		0136	RE				48 40 94	125 6.62	47						
20	VI01	13:54	RE	CTD		039	48 54 66	125 12.47	93	85		/			BS - IMPERIAL EAGLE
		14 02	RE				48 54 66	125 12.52							CH
		14:05	RE	Bongo		040	48 54 65	125 12.56	93	85					NETS + SALINITY
		14:09	RE				48 54 66	125 12.62							610m
		14:18	RE	TRAWL		041	48 54 3	125 12.96	96						
		14:48	RE				48 52 24	125 15.00							

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OVERCAST, LIGHT WINDS, RIPPED SEAS, 1M, SWELL

VI01 33 CHNOROPHYLLS COMPROMISED

VI02 37

JVI01 39

OVERCAST, LIGHT WINDS, 1M GROUND SWELL

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CAV. Viking Seaman</i>				Cruise ID <i>2008-14</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							
20	VI 03	1532	BE	Bongo		042	48 48.0	125 21.1	85	75					WAVE - off BS.
		1534	EN				48 48.1	125 21.2							FLOCK of 7
		1543	BE	CTD		043	48 48.0	125 21.3	85	75		/			PELICANS sighted
		1547	EN				48 48.1	125 21.3							NETS + SALINITY
		1553	BE	Trawl		044	48 47.9	125 21.9	86						@ 10 m.
		1623	EN				48 46.3	125 25.19							
20	VI 04	1728	BE	CTD		045	48 41.0	125 35.0	155	145		/			WAVE - off BS.
		1734	EN				48 41.0	125 35.1							NETS + SALINITY
		1738	BE	Bongo		046	48 41.1	125 35.1	152	145					@ 10 m.
		1745	EN				48 41.1	125 35.2							
		1752	BE	Trawl		047	48 40.8	125 35.7	146						
		1822	EN				48 39.22	125 38 46.							
20	VI 05	1906	BE	Bongo		048	48 35.5	125 42.7	62	55					WAVE - off BS
		1908	EN				48 35.5	125 42.7							
		1912	BE	CTD		049	48 35.6	125 42.7	62	55		/			NETS + SALINITY
		1915	EN				48 35.7	125 42.7							@ 10 m.
		1923	BE	Trawl		050	48 35.6	125 42.9	62						
		1953	EN				48 33.6	125 44.9							

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VI03, 43

VI04, 45

VI05, 49

CHLOROPHYLLS COMPROMISED

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>				Ship <i>CFV. Viking Storm</i>				Cruise ID <i>2008-14</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	
20	V106	2039	BE	CTD		51	48 29.1	128 50.9	111	105		1			WCTE - off 130.	
		2044	BE				29.2	50.9							NOT + SALINITY @ 10m.	
		2047	BE	Bongo		52	48 29.2	128 50.9	110	100						
		2052	BE				29.3	50.9								
		2059	BE	Trawl		53	48 29.0	125 51.4	117							
		2129	BE				27.2	53.9								
20	V107	2212	BE	Bongo		54	48 23.1	125 59.3	235	150					WCTE - off 130.	
		2218	BE				48 23.0	125 59.2								
		2223	BE	CTD		55	48 22.9	125 59.2	213	150		1			NOT + SALINITY @ 10m.	
		2230	BE				48 22.9	125 59.2								
		2238	BE	Trawl		56	48 22.46	125 59.56								
		2308	BE				48 20 22	126 1.8								
20	V108	2351	BE	CTD		57	48 15.75	126 06.1	1100	150		1			NOT SALINITY @ 10m.	
		2357	En				15.75	06.0								
		0000	BE	Bongo		58	48 15.8	126 06.0		150						
		0007	En				15.8	05.9								
		0015	BE	Trawl		59.	48 15.4	126 06.2	1300							
		0045	En				48 13.7	126 08.7								

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V506 51 CHLOROPHYLLS CONTAMINATED

V507 53

V508 54

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>				Ship <i>CFV V. Anne Green</i>				Cruise ID <i>2008-14</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							
21	V109	1:27	BE	Bongo		60	48 10 47	126 13.5	72000	150					WCVI - off BS.
		1:30	EN				48 10 50	126 13 48							
		1:36	BE	CTD		61	48 10.54	126 13 45		150		1			WTS + salinity @ 10m
		1:41	EN				48 10 60	126 13.5							
		1:48	BE	Trawl		62	48 10 28	126 13.95							
		2:18	EN				48 8 57	126 16 34							
21	V110	13:58	BE	CTD		63	49 05.9	126 00 25	39	35		1			WCVI - off Tortuga
		14:01	EN				49 5.96	126 00 25							WTS + salinity @ 10m
		14:02	BE	Bongo		64	49 5.96	126 00 25	40						
		14:05	EN				49 5.97	126 00 25							
		14:13	BE	Trawl		65	49 5.61	126 00 25	38						
		14:43	BE				49 4.03	126 03.99	49						
21	V111	15:00	BE	Bongo		66	49 03.2	126 05.8	52	45					WCVI - off Tortuga
		15:03	EN				03.2	05.8							
		15:09	BE	CTD		67	49 03.2	126 05.9	53	45		1			WTS + salinity @ 10m
		15:11	EN				03.2	05.9							
		15:17	BE	Trawl		68	49 02.9	126 06.5	54						
		15:47	EN				49 01.35	126 09.26							

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VE 09

61

CHOROPHYLLAC

COMPARISONED

VE 10

63

VE 11

67

* 21/08/2008

BRIGHT, LOW CLOUD, $\frac{1}{2}$ MERE SWELL, RIPPED SEA, LOW WINDS.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>JUNE</i>				Year <i>2008</i>				Ship <i>CGV Viking Storm</i>				Cruise ID <i>2008-14</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							
21	VI 12	1614	BE	CTD		69	48 59.7	126 12.2	86	80		/			
		1618	BE				59.7	12.1							ROTS + Salinity @
		1620	BE	Bongo		70	48 59.8	126 12.1	85	80					10m.
		1623	BE				59.8	12.1							
		1631	BE	Trawl		71	48 59.5	126 12.5	89						
		1701	BE												
21	VI 13	1756	BE	Bong		72	48 55.5	126 18.6	133	125					
		1801	EN				55.5	18.6							
		1807	BE	CTD		73	48 55.5	126 18.6	133	125		/			ROTS + Salinity @ 10m.
		1812	EN				55.5	18.7							
		1819	BE	Trawl		74	48 55.3	126 19.1	136						
		1849	EN				53.2	21.5							
21	VI 14	1923	BE	CTD		75	48 51.6	126 24.2	170	150		/			ROTS + Salinity @ 10m.
		1930	EN				51.6	24.2							
		1934	BE	Bongo		76	48 51.6	126 24.1	170	150					
		1941	EN				51.6	24.1							
		1948	BE	Trawl		77	48 51.3	126 24.6	172						
		2018	EN				48 49.6	126 27.4							

Cast type:

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

USW = sea water loop
MOR = mooring
NET = 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
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DE = deployment time
MR = messenger release time
RE = recover mooring time

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

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VI 12

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CHLOROPHYLLS COMPROMISED

VI 13

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VI 14

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>JUNE</i>				Year <i>2008</i>			Ship <i>CPV Viking Storm</i>				Cruise ID <i>2008-14</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							
21	VI15	2041	BE	BONGO		78	48 48.1	126 30.1	246	150					
		2042	BE				48 48.0	126 30.0							
		2052	BE	CTD		79	48 48.0	126 30.0	246	150		1			NOTS + Salinity @ 10m
		2100	BE				48 47.84	126 29.77							
		2105	BE	TRAWL		80	48 47 70	126 30 22	246	150					
		2135	BE				48 46 62	126 33 36							
21	VI16	2313	BE	CTD		81	48 58 96	126 24 83	154	145		1			NOTS + Salinity @ 10m
		2318	BE				48 58 87	126 24 66							
		2322	BE	BONGO		82	48 58 85	126 24 60							
		2330	BE				48 58 83	126 24 35							
		2335	BE	TRAWL		83	48 58 15	126 24 05							
22		0005	BE				49 1.20	126 25 22	140						
22	VI17	0058	BE	BONGO		84	49 6.1	126 22 65	103	90					
		0104	BE				49 6.11	126 22.61							
		0108	BE	CTD		85	49 6.1	126 22.60	103			1			NOTS + Salinity @ 10m
		0112	BE				49 6.06	126 22 51							
		0122	BE	TRAWL		86	49 6.44	126 22 35							
		0152	BE				49 8:82	126 21 44							

Cast type:

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UT 15 - 79
UT 16 - 81
UT 17 - 85.

CHLOROPHYLLS. COMPARISON

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>				Ship <i>CGV Viking Storm</i>				Cruise ID <i>2008-14</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							
22	EP01	14:01	BE	CTD		87	49 20 40	126 32 89	40	30					ESTERAN Point TRANSECT. NUTS + salinity @ 10m
		14:04	BN				49 20 39	126 32 89							
		14:07	BE	BOMBO		88	49 20 35	126 32 82	40	30		1			
		14:09	BN				49 20 34	126 32 80							
		14:18	BE	TRAWL		89	49 20 05	126 33 38	40						
		14:28	BN				49 18 80	126 36 00							
22	EP02	15:16	BE	BOMBO		90	49 19 00	126 36 5	84	75					NUTS + salinity @ 10m
		15:20	BN				19 00	36 4							
		15:26	BE	CTD		91	49 19 0	126 36 3	82	75		1			
		15:29	BN				18 94	36 3							
		15:35	BE	TRAWL		92	49 18 77	126 36 7	88						
		16:05	BN				17 4	39 7							
22	EP03	17:45	BE	CTD		93	49 16 9	126 40 6	109	100		1			NUTS + salinity @ 10m
		17:50	BN				16 9	40 6							
		17:52	BE	BOMBO		94	49 16 9	126 40 5	109	100					
		17:56	BN				16 9	40 5							
		18:03	BE	TRAWL		95	49 16 7	126 40 9	111						
		18:27	BN				49 15 22	126 44 134	115						

Cast type:

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- OVERCAST, BRIGHT / M SURF, FRIPPED SEAS, LIGHT WINDS.

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CHAORAPHYLLS COMFRAMISED

EP02 91

EP03 93

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CGC Viking Star</i>			Cruise ID <i>2008-14</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							
22	EP04	1908	BE	BONGO		96	49 14.6	126 45.2	121	110					
		1913	BE				14.6	45.2							
		1918	BE	CTD		97	49 14.6	126 45.1	120	110		1			NETS + SALINITY @ 10m
		1923	BE				14.5	45.1							
		1930	BE	TRAWL		98	49 14.4	126 45.6	123						
		2000	BE				12.8	48.5							
	EP05	2014	BE	CTD		99	49 12.4	126 49.8	141	135		1			NETS + SALINITY @ 10m
		2021	BE				12.4	49.7							
		2025	BE	BONGO		100	49 12.4	126 49.7	141	135					
		2031	BE				12.4	49.7							
		2039	BE	TRAWL		101	49 12.2	126 50.2	142						
		2109	BE				49 11.02	126 53.24	168						
	EP06	2127	BE	BONGO		102	49 10.6	126 54.4	183	150					
		2133	BE				10.7	54.4							
		2138	BE	CTD		103	49 10.7	126 54.3	180	150		1			NETS + SALINITY @ 10m
		2146	BE				10.7	54.2							
		2151	BE	TRAWL		104	49 10.6	126 54.5	185						
		2221	BE				49 9 10	126 57.16							

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

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CHAOROMUS

COMPROMISED

EP05 99

EP06 103

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>U. King Storm</i>				Cruise ID <i>2008-14</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
22	EP07	22:41	BE	CTD		105	49 08.2	126 59.0	445	150		1			
		22:48	EN				49 08.2	126 58.9							NOT, SALINITY @ 10m
		22:51	BE	Bongo		106	49 08.2	126 58.9	442	150					
		22:56	EN				49 08.2	126 58.9							
		23:05	BE	Trawl		107	49 08.021	126 59 48							
		23:35	EN				49 06.63	127 2.4							
23	EP08	0:22	BE	Bongo		108	49 2.67	127 9.46	1500	150					
		0:31	EN				49 2.61	127 9.34							
		0:35	BE	CTD		109	49 2.58	127 9.24		150		1			NOT, SALINITY @ 10m
		0:43	EN				49 2.57	127 9.15							
		0:49	BE	Trawl		110	49 2.24	127 9.69							
		1:19	EN				49 00.72	127 12 58							
23	VI18	15:01	BE	CTD		111	49 38 51	126 56 92	42	35		1			NOT, SALINITY @ 10m
		15:03	EN				49 38 51	126 56 92							INCL - OFF
		15:07	BE	Bongo		112	49 38 51	126 56 91		35					ASPERAUZA.
		15:09	EN				49 38 51	126 56 89							
		15:17	BE	Trawl		113	49 38 20	126 57 48							
		15:47	EN				49 36 61	127 00 35							

Cast type:

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bottle firing method:
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Time Code

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EN = end time of cast

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MR = messenger release time
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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EP08 - 109

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CALOROPHYLLUS COMPROMISED

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>June</u>				Year <u>2008</u>				Ship <u>CFV Viking Snæ</u>				Cruise ID <u>2008-14</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							
23	VI 19	1609		Bongo		114	49 35.7	127 02.4	106	95					
		1613					35.6	02.5							
		1619		CTD		115	49 35.6	127 02.5	106	100		1			not + salinity @ 10m
		1623					35.7	02.5							
		1630		Trawl		116	49 35.4	127 02.9	107						
		1700					33.7	05.8							
23	VI 20	1746		CTD		117	49 32.2	127 08.4	136	130		1			not + salinity @ 10m
		1752					32.2	08.4							
		1754		Bongo		118	49 32.2	127 08.4	137	130					
		1759					32.3	08.4							
		1806		Trawl		119	49 32.0	127 08.8	139						
		1836					30.2	12.8							
23	VI 21	1858		Bongo		120	49 29.0	127 14.3	265	150					
		1905					29.1	14.5							
		1915		CTD		121	49 29.1	127 14.5	279	150		1			not + salinity @ 10m
		1922					29.2	14.5							
		1928		Trawl		122	49 29.1	127 15.0	400						
		1958													

Cast type:

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bottle firing method:

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Time Code

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EN = end time of cast

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

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CHLOROPHYLLS CONTAMINATED

VI 20 - 117

VI 21 - 121

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>				Ship <i>CFV Viking Star</i>				Cruise ID <i>2008 14</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							
23	VI22	22:38	BE	Trawl		123	49 46.15	127 34 40.	125.						
		23:08	BE				48.6	31.6							WOT - 0.1%
		23:23	BE	CTD		124	49 48.6	127 31.5	83	75		1			Kyosoor.
		23:26	BE				48.6	31.5							plots + sampling @ 10m.
		23:29	BE	Bongo		125	49 48.6	127 31.5	81	75					
		23:32	BE				48.6	31.6							
23	VI23	23:56	BE	Trawl		126	49 50.5	127 29.1	72						
24		00:26	BE				49 52.27	127 26 42	66						
		00:44	BE	Bongo		127	49 52.7	127 26.1	67	60					
		00:47	BE				52.7	26.2							
		00:52	BE	CTD		128	49 52.8	127 26.2	67	60		1			plots + sampling @ 10m.
		00:55	BE				52.8	26.2							
24	IVIO2	14:06	BE	CTD		129	50 30.7	127 41.6	131	125					Quatsino - Quatsino CH.
		14:11	BE				30.7	41.7							
		14:12	BE	Bongo		130	50 30.6	127 41.7	126	115					
		14:18	BE				50 30.62	127 41.79							
		14:24	BE	Trawl		131	50 30.38	127 42.62							
		14:57	BE				50 29.68	127 46.43							

Cast type:

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bottle firing method:
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Time Code

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BO = bottom time of cast
EN = end time of cast

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MR = messenger release time
RE = recover mooring time

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

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VI 22 124
VI 23 128
VI 02 129

CHLOROPHYLLS COMPOUNDED

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>				Ship <i>CGV Viking Storm</i>				Cruise ID <i>200814</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
24	IUI03	1545	BE	Bongo		132	50 28.3	127 56.0	186	150					
		1551	BE				28.3	56.1							
		1557	BE	CTD		133	50 28.3	127 56.1	193	150		1			Quartz - Quartz CTD
		1603	BE				28.3	56.2							not + salinity @ 10m
		1609	BE	Trawl		134	50 28.01	127 56.46	185						
		1639	BE				25.5	56.9							
24	IUI04	1705	BE	CTD		135	50 25.1	128 00.0	156	145		1			Quartz - Quartz Sd
		1711	BE				25.2	127 59.8							not + salinity @ 10m
		1714	BE	Bongo		136	50 25.2	127 59.8	147	140					
		1721	BE				25.2	59.8							
		1728	BE	Trawl		137	50 24.9	128 00.3	179						
		1758	BE				50 23.22	128 2.26							
24	UI24	1824	BE	Bongo		138	50 21.5	128 06.0	82	75					WUII - one Quartz
		1828	BE				21.5	06.0							not + salinity @ 10m
		1833	BE	CTD		139	50 21.5	128 06.0	83	75		1			
		1837	BE				21.5	06.1							
		1844	BE	Trawl		140	50 21.21	128 6.55							
		1914	BE				19.6	09.4							

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Time Code

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BO = bottom time of cast
EN = end time of cast
DE = deployment time
MR = messenger release time
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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★ IUI03 , 133
IUI04 , 135
UI24 , 139

CHLOROPHYLLS COMPROMISED

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>NOV Viking Storm</i>				Cruise ID <i>2008-14</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							
24	VI25	1938	BE	CTD		141	50 18.0	128 12.2	200	150		1			
		1945	BE				18.1	12.3							
		1947	BE	Bongo		142	50 18.2	128 12.2	197	150					
		1954	BE				18.2	12.3							
		2001	BE	Trawl		143	50 18.0	128 12.8							
		2032	BE				58 16.29	128 15.36							
24	VI26	2059	BE	Bongo		144	50 14.5	128 18.2	950	150					
		2107	BE				14.5	18.4							
		2112	BE	CTD		145	50 14.6	128 18.5	900	150		1			
		2118	BE				14.7	18.5							
		2124	BE	Trawl		146	50 14.5	128 19.00							
		2154	BE				50 13.06	128 21.76							
25	VI27	0008	BE	CTD		147	50 29.87	128 34.82	600	150		1			
		0016	BE				50 29.87	128 34.85							
		0018	BE	Bongo		148	50 29.87	128 34.87							
		0024	BE				50 29.86	128 34.91							
		0030	BE	Trawl		149	50 30.12	128 34.55							
		1100	BE				50 32.05	128 31.78							

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June 24. — LAKE OF QUINCE, RIPPED SEAS, 1m SWELL, LOW CLOUD BUT BRIGHT

VI 25, -141 CHLOROPHYLLS COMPROMISED

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CGV Viking Storm</i>				Cruise ID <i>200814</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							
25	V128	1:36	BE	Bongo		150	50 35.88	128 26.77	121	110					
		1:41	EU				50 35.89	128 26.77							
		1:46	BE	CTD		151	50 35.91	128 26.76							1103 + salinity @ 10m
		1:52	EU				50 35.95	128 26.71							
		1:57	BE	Trawl		152	50 36.26	128 26.27							
		2:27	EU												
25	T08	13:58	BE	CTD		153	50 42.3	129 29.1	2000	150					1103 + salinity @ 10m
		14:05	EU				42.2	29.2							1103 - TRIANGULAR IS.
		14:08	BE	Bongo		154	50 42.2	129 29.2	2000	150					TRANSACT.
		14:13	EU				50 42.2	129 29.2							
		14:22	BE	Trawl		155	50 42.38	129 28.98	2000	150					
		14:52	EU				50 44.14	129 26.40							
25	T07	16:16	BE	Bongo		156	50 49.19	129 13.65	109	100					
		16:20	EU				50 49.14	129 13.79							
		16:25	BE	CTD		157	50 49.19	129 13.90	107	100					1103 + salinity @ 10m
		16:29	EU				50 49.03	129 14.04							1103 - TRIANGULAR IS.
		16:35	BE	Trawl		158	50 49.24	129 13.66							TRANSACT.
		17:05	EU				50 50.55	129 11.37							

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

T08

JUNE 25 - BRIGHT, SEAS CALM, 1/2 SWELL, RIPPED.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CGV Viking Seam.</i>				Cruise ID <i>2008-14</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
25	T06	18:11	BE	CTD		159	50 55.75	129 00.23	57	50.		1	MOR - salinity @ 10m		
		18:14	EN				50 55.73	129 00.22					WUE - Transverse 15.		
		18:15	BE	Bottle		160	50 55.72	129 00.22	57	50.					Transverse -
		18:18	EN				50 55.72	129 00.25							
		18:26	BE	Trawl		161	50 56.03	128 57.51	118						
		18:56	EN				50 57.50	128 56.61							
25	T05	19:29	BE	Bottle		162	51 00.8	128 52.0	58	50					
		19:31	EN				00.8	52.0							
		19:36	BE	CTD		163	51 00.1	128 52.0	58	50		1	MOR + salinity @ 10m		
		19:38	EN				00.1	52.0							
		19:44	BE	Trawl		164	51 00.4	128 51.5	59						QCSD - Transverse Is.
		20:14	EN				02.1	48.2							Transverse
25	T04	20:45	BE	CTD		165	51 4.48	128 43.62	60	50.		1	MOR + salinity @ 10m.		
		20:48	EN				51 4.52	128 43.61							
		20:50	BE	Bottle		166	51 4.53	128 43.60	60	50					QCSD - Transverse Is.
		20:52	EN				51 4.57	128 43.60							Transverse
		20:50	BE	Trawl		167	51 4.89	128 42.98	60						
		21:29	EN				51 6.43	128 39.76							

Cast type:

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

USW = sea water loop
MOR = mooring
NET = 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 for each cast, do not use Ammonia products

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>June</u>				Year <u>2008</u>				Ship <u>CGC. Virginia Swann</u>				Cruise ID <u>200814</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							
25	T03	21 54	BE	Bottle		168	51 08.3	128 35.9	138	130					
		21 59	BE				08.3	35.8							
		22 04	BE	CTD		169	51 08.3	128 35.7	139	135		1	NETS + Salinity @ 10m		
		22 09	BE				51 08.3	128 35.5							
		22 17	BE	TRAWL		170	51 08.51	128 35.09							
		22 47	BE				51 10.14	128 32.33	180						
	T02	23 16	BE	CTD		171	51 12.45	128 27.87	192	150		1	NETS + Salinity @ 10m		
		23 23	BE				51 12.47	128 27.83							
		23 27	BE	Bottle		172	51 12 47	128 27.82	192	150					
		23 34	BE				51 12 53	128 27.89							
		23 41	BE	TRAWL		173	51 12 87	128 27 11							
26		00:11	BE				51 14 30	128 23.91							
	T01	00:41	BE	Bottle		174	51 16.6	128 20.0	75						
			BE												
		00 53	BE	CTD		175	51 16.5	128 20.0	75			1	NETS + Salinity @ 10m		
			BE												
		01 00	BE	TRAWL		176	51 16.8	128 19.6	73						
		01 30	BE				51 19.23	128 19.91							

Cast type:

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

Daily_log_book.doc

TYBROU Type C. - combination 4a

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CGV Viking Seem.</i>				Cruise ID <i>2008-14</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							
26	H02	12:59	BE	CTD		177	52 16.0	129 26.2	176	150		/			net + salinity @ 10m.
		13:05	BE				52 16.1	129 26.2							Heave Start
		13:08	BE	Bongo		178	52 16.4	129 26.24	174	150					TRANSECT.
		13:16	BE				52 16.4	129 26.35							
		13:21	BE	Trawl		179	52 16.275	129 26.118							
		13:51	BE				52 16.91	129 30.81							
26	H03	14:42	BE	Bongo		180	52 18.93	129 41.77	218	150					
		14:50	BE				52 18.96	129 41.75							
		14:54	BE	CTD		181	52 18.98	129 41.77		150		/			net + salinity @ 10m
		15:00	BE				52 19.07	129 41.76							
		15:06	BE	Trawl		182	52 19.14	129 42.735							
		15:36	BE				52 19.82	129 45.98							
26	H04	16:31	BE	CTD		183	52 22.38	129 57.62	209	150		/			net + salinity @ 10m
		16:38	BE				52 22.46	129 57.76							
		16:40	BE	Bongo		184	52 22.49	129 57.79		150					
		16:46	BE				52 22.51	129 57.95							
		16:54	BE	Trawl		185	52 22.67	129 58.68							
		17:24	BE				52 23.70	129 2.728							

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Daily_log_book.doc

JUNE 24 - Peace Strain, SE 10-20, overcast, scattered whitecaps, 2m swell.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>				Ship <i>CGC Viking Storm</i>				Cruise ID <i>2008-14</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							
26	1405	18:18	BE	Bottle		186	52 25.64	130 13.18	324	150					
		18:23	EN				52 25.61	130 13.07							
		18:27	BE	CTD		187	52 25.57	130 13.02		150		1			1600 + salinity @ 10m
		18:34	EN				52 25.52	130 12.90							
		18:42	BE	TRAWL		188	52 25.78	130 13.82							15m Tow
		19:12	EN				52 26.76	130 17.22							
26	1406	20:16	BE	CTD		189	52 28.85	130 28.90	170	150		1			1600 + salinity @ 10m
		20:21	EN				52 28.85	130 28.92							
		20:24	BE	Bottle		190	52 28.84	130 28.95							
		20:30	EN				52 28.79	130 28.97							
		20:39	BE	TRAWL		191	52 28.95	130 29.96							SURFACE TOW
		21:09	EN				52 30.02	130 33.82							
26	1407	22:02	BE	Bottle		192	52 32.14	130 44.56	116	105					
		22:07	EN				52 32.17	130 44.52							
		22:12	BE	CTD		193	52 32.22	130 44.53		105		1			1600 + salinity @ 10m
		22:16	EN				52 32.27	130 44.53							
		22:23	BE	TRAWL		194	52 32.48	130 45.34							
		22:53	EN				52 33.51	130 49.27							

Cast type:

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Time Code

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Daily_log_book.doc

H05 - SURFERS BUILDING, NOW 3m, OVERCAST AND FOG, VISIBILITY $\approx$ 100 m

H07 - SK wind DYING DOWN, OCCASIONAL WHITE CAPS, 2m SURFERS.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CGV. Nixing Storm</i>			Cruise ID <i>2008-14</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							
<i>26</i>	<i>H08</i>	<i>23:44</i>	<i>BK</i>	<i>CTD</i>		<i>195</i>	<i>52 35 55</i>	<i>131 00.42</i>	<i>109</i>	<i>100</i>		<i>1</i>	<i>MOR</i>	<i>+ salinity @ 10m</i>	
		<i>23:48</i>	<i>FW</i>				<i>52 35 62</i>	<i>131 00.50</i>							
		<i>23:51</i>	<i>BK</i>	<i>Bottle</i>		<i>196</i>	<i>52 35 67</i>	<i>131 00.56</i>							
		<i>23:56</i>	<i>FW</i>				<i>52 35 73</i>	<i>131 00.60</i>							
<i>27</i>		<i>00:04</i>	<i>BK</i>	<i>Trawl</i>		<i>197</i>	<i>52 35 79</i>	<i>131 00.73</i>							
		<i>00:34</i>	<i>FW</i>				<i>52 35 86</i>	<i>131 5.90</i>							
<i>27</i>	<i>H501</i>	<i>14:34</i>	<i>BK</i>	<i>CTD</i>		<i>198</i>	<i>52 48 92</i>	<i>130 54.30</i>	<i>45</i>	<i>40</i>		<i>1</i>	<i>MOR</i>	<i>+ salinity @ 10m *</i>	
		<i>14:38</i>	<i>FW</i>				<i>52 48 95</i>	<i>130 54.28</i>						<i>Heads S - LASTEST BK.</i>	
		<i>14:40</i>	<i>BK</i>	<i>Bottle</i>		<i>199</i>	<i>52 48 98</i>	<i>130 54 26</i>	<i>45</i>	<i>40</i>					
		<i>14:42</i>	<i>FW</i>				<i>52 49 01</i>	<i>130 54 23</i>							
	<i>H 2</i>	<i>14:57</i>	<i>BK</i>	<i>Trawl</i>		<i>200</i>	<i>52 50 11</i>	<i>130 53.08</i>							
		<i>15:27</i>	<i>FW</i>				<i>52 52 26</i>	<i>130 50 82</i>							
<i>27</i>	<i>H502</i>	<i>16:42</i>	<i>BK</i>	<i>Bottle</i>		<i>201</i>	<i>53 2.44</i>	<i>130 52 98</i>	<i>55</i>	<i>60</i>					
		<i>16:45</i>	<i>FW</i>				<i>53 2.42</i>	<i>130 52 97</i>							
		<i>16:49</i>	<i>BK</i>	<i>CTD</i>		<i>202</i>	<i>53 2.43</i>	<i>130 52 98</i>	<i>55</i>	<i>60</i>		<i>1</i>	<i>salinity @ 10m.</i>		
		<i>16:52</i>	<i>FW</i>				<i>53 2.41</i>	<i>130 53.01</i>						<i>NO NET OR CHLORO.</i>	
		<i>16:58</i>	<i>BK</i>	<i>Trawl</i>		<i>203</i>	<i>53 2.77</i>	<i>130 53 12</i>						<i>Heads S - LASTEST BK.</i>	
		<i>17:28</i>	<i>FW</i>				<i>53 5.10</i>	<i>130 53 89</i>							
Cast type: USW = sea water loop bottle firing method: Time Code															

Cast type:

BOT = bottle cast, no CTD
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USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
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Time Code

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MR = messenger release time
RE = recover mooring time

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

H08 - $\frac{1}{2}$ m SWIRL, NO WHITE CAPS, SKIES BRIGHTENING

H501 - $\frac{1}{2}$ SWIRL, RIPPED SEAS

- PERFORMED AROUND NET AT START

* - METRIC SAMPLING SCHEDULE - 1ST STATION IN TURNING TAKEN ALTERNATING FOR SUBSEQUENT STATIONS

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2006</i>			Ship <i>CGV. Viking Storm</i>				Cruise ID <i>2008-14</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
<i>27</i>	<i>4503</i>	<i>18:32</i>	<i>BE</i>	<i>CTD</i>		<i>204</i>	<i>53 13.15</i>	<i>130 57.24</i>	<i>90</i>	<i>80</i>		<i>1</i>	<i>LOTS</i>	<i>SALINITY @ 10m.</i>	
		<i>18:35</i>	<i>BU</i>				<i>53 13.17</i>	<i>130 57.22</i>							<i>HEATE STRAIN - LASKER BK.</i>
		<i>18:37</i>	<i>BE</i>	<i>Bongo</i>		<i>205</i>	<i>53 13.18</i>	<i>130 57.19</i>							
		<i>18:42</i>	<i>BE</i>				<i>53 13.18</i>	<i>130 57.08</i>							
		<i>18:48</i>	<i>BE</i>	<i>Trawl</i>		<i>206</i>	<i>53 13.60</i>	<i>130 57.37</i>							
		<i>19:18</i>	<i>BU</i>				<i>53 15.72</i>	<i>130 57.29</i>							
<i>28</i>	<i>4504</i>	<i>20:10</i>	<i>BE</i>	<i>Bongo</i>		<i>207</i>	<i>53 21.01</i>	<i>131 4.48</i>	<i>45</i>	<i>40</i>					
		<i>20:12</i>	<i>BE</i>	<i>CTD</i>		<i>208</i>	<i>53 20.94</i>	<i>131 4.425</i>				<i>1</i>		<i>SALINITY @ 10m.</i>	
		<i>20:14</i>	<i>BU</i>				<i>53 20.94</i>	<i>131 4.46</i>							<i>NO MUTS OR CHLORO</i>
		<i>20:20</i>	<i>BE</i>	<i>Trawl</i>		<i>209</i>	<i>53 21.30</i>	<i>131 4.22</i>							
		<i>20:50</i>	<i>BU</i>				<i>53 23.63</i>	<i>131 3.15</i>							
<i>29</i>	<i>4505</i>	<i>21:39</i>	<i>BE</i>	<i>CTD</i>		<i>210</i>	<i>53 29.3</i>	<i>130 0.0</i>	<i>52</i>	<i>40</i>		<i>1</i>		<i>LOTS & SALINITY @ 10m.</i>	
		<i>21:41</i>	<i>BU</i>				<i>53 29.35</i>	<i>130 59.78</i>							
		<i>21:43</i>	<i>BE</i>	<i>Bongo</i>		<i>211</i>	<i>53 29.37</i>	<i>130 59.79</i>	<i>52</i>	<i>40</i>					
		<i>21:45</i>	<i>BU</i>				<i>53 29.36</i>	<i>130 59.76</i>							
		<i>21:54</i>	<i>BE</i>	<i>Trawl</i>		<i>212</i>	<i>53 29.86</i>	<i>130 59.47</i>	<i>55</i>						
		<i>22:24</i>	<i>BU</i>				<i>53 32.52</i>	<i>130 58.79</i>							

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

US = up/stop
 UN = up/no stop
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Time Code

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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H903	-	SE	GALL	PICKING	UP	1m	SUBST.	OCCASIONAL	W/ WHITE CAPS
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H505 - SE LANE 30-35 Knots 3m SWELL, SCATTERY W/ WHITE CAPS

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>June</u>				Year <u>2008</u>			Ship <u>CGC M/V. M. Green</u>			Cruise ID <u>2008-14</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							
28	DT01	14:10	BE	CTD		213	54 24.010	131 01.38	45	40		1			
		14:12	EN				54 24.013	131 01.392							
		14:13	BE	Bongo		214	54 24.95	131 01.45	65	55		1			
		14:16	EN				54 24.96	131 01.50							
		14:26	BE	Trawl		215	54 25.72	131 2.55							
		14:56	EN				54 25.24	131 6.46							
28	DT02	15:31	BE	Bongo		216	54 25.7	131 12.2	155	150					
		15:38	EN				54 25.6	131 12.1							
		15:43	BE	CTD		217	54 25.6	131 12.0	150	145		1			
		15:48	EN				54 25.6	131 11.97							
		15:54	BE	Trawl		218	54 25.5	131 12.51	15						
		16:24	EN				54 25.7	131 16.54							
28	DT03	17:03	BE	CTD		219	54 26.5	131 23.4	227	150		1			
		17:07	EN				54 26.5	131 23.4							
		17:09	BE	Bongo		220	54 26.5	131 23.4	227	150					
		17:15	EN				54 26.5	131 23.4							
		17:22	BE	Trawl		221	54 26.57	131 24.11							
		17:52	EN				54 26.80	131 28.17							

Cast type:

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

Daily_log_book.doc

Additional comments

DTD: — DIXON ENTRANCE, DUNDAS IS, CHALLENGER RE, 1/2 MILE, RIPPED PARTS,
 — UPPER LENGTH 52 FATHOMS

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>June</u>				Year <u>2008</u>				Ship <u>CGV Virginia Sparrow</u>				Cruise ID <u>2008-14</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							
28	DT04	1824	BE	Bongo		222	54 27.3	131 34.8	287	150					
		1831	BE				54 27.3	131 34.9							
		1836	BE	CTD		223	54 27.3	131 35.0		150					
		1842	BE				54 27.3	131 35.1				1			Salinity 610m
		1848	BE	Trawl		224	54 27.36	131 35.78							NO NETS OR CHLOROPHYLL
		19:18	BE				54 27.53	131 40.23							
28	DT05	19:46	BE	CTD		225	54 28.0	131 45.8	332	150		1			NETS + SALINITY 610m
		19:53	BE				54 27.98	131 45.84							
		19:56	BE	Bongo		226	54 27.97	131 45.86		150					
		20:02	BE				54 27.88	131 45.87							
		20:09	RE	Trawl		227	54 27.896	131 46.62							
		20:39	BE				54 27.94	131 50.75							
28	DT06	21 10	BE	Bongo		228	54 28.7	131 57.0	302	150					
		21 18	BE				28.7	57.1							
		21 22	BE	CTD		229	54 28.62	131 57.06		150		1			Salinity 610m
		21 29	BE				54 28.58	131 56.98							
		21 35	BE	Trawl		230	54 28.62	131 57.90							NO NETS OR CHLOROPHYLL
		22 05	BE				54 29.00	132 2.03							

Cast type:

BOT = bottle cast, no CTD
 CTD = CTD without Rosette
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 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 for each cast, do not use Ammonia products

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>				Ship <i>CGV Viking Storm</i>				Cruise ID <i>2008-14</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
26	DT07	22:38	BE	CTD		231	54 29.3	132 08.1	265	150		1			
		22:44	BE				54 29.35	132 8.04							NETS + salinity @ 10m
		22:47	BE	Bottle		232	54 29.35	132 7.980		150					
		22:53	BE				54 29.32	132 7.87							
		23:03	BE	Trans.		233	54 29.63	132 8.89							
		23:33	BE				54 30.56	132 12.47							
28	D01	00:19	BE	Bottle		234	54 33.01	132 21.09	315	150					
		00:26	BE				54 33.	132 20.96							
		00:29	BE	CTD		235	54 32.96	132 20.93		150		1			NETS + salinity @ 10m
		00:36	BE				54 32.97	132 20.81							
		00:42	BE	Trans.		236	54 32.86	132 21.36							
		00:12	BE				54 32.33	132 25.30							
29	D004	14:10	BE	CTD		237	54 7.72	132 27.85				1			NETS + salinity @ 10m
		14:11	BE				54 7.72	132 27.79	46	40					DE - VIRGO SA
		14:13	BE	Bottle		238	54 7.70	132 27.70							
		14:14	BE				54 7.69	132 27.7							
		14:22	BE	Trans.		239	54 7.84	132 28.37							
		14:52	BE				54 8.6	132 31.55							

Cast type:

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

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
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Time Code

BE = beginning time of cast
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EN = end time of cast

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RE = recover mooring time

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

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Additional comments

* DECH - 100 SURF, RIPPED SKAS, BLUE ~~WATER~~ BRIGHT, BEAUTIFUL WEATHER.
Dion Fennel - Virgo St.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CGV Vixen Storm</i>				Cruise ID <i>2008-14</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							
29	DE05	15:57	BK	Bongo		240	54 10 77	132 45 59	61	50					DE - WIAH R.
		15:58	BK				54 10 78	132 45 52							
		16:01	BK	CTD		241	54 10 79	132 45 51	61	50		1			SALINITY @ 10m
		16:04	BK				54 10 79	132 45 48							
		16:12	BK	TRawl		242	54 10 82	132 45 49.6							
		16:42	BK				54 11 20	132 50.5							
29	DE06	17:19	BK	CTD		243	54 14.5	132 55.4	150	145		1			WATS + SALINITY @ 10m
		17:25	BK				54 14.95	132 55.75							DE - LARGA
		17:27	BK	Bongo		244	54 14.2	132 55.12	146	135					
		17:34	BK				54 14.36	132 54.92							
		17:40	BK	TRawl		245	54 14.44	132 55 02.							
		18:10	BK				54 16.34	132 56 44.							
29	DE04	19:20	BK	Bongo		246	54 25 20	133 1.29	130	100		1			WATS + SALINITY @ 10m
		19:24	BK				54 25 17	133 1.31							DE - LARGA
		19:28	BK	CTD		247	54 25 17	133 1.42	148	140	120 *				
		19:34	BK				54 25 19	133 1.60							
		19:41	BK	TRawl		248	54 25 053	133 2.544							
		20:11	BK				54 24 016	133 6.724							

Cast type:

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NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
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Time Code

BE = beginning time of cast
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EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

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

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Additional comments

DOU - Keesmootz BC, CTD SHORTENED TO 120w TO AUDIO RED TREE AND CROWNING GEAR

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>			Ship <i>CGV Viking Spear</i>				Cruise ID <i>2008-14</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							
29	005	20:48	BE	CTD		249	54 22.163	133 15.16	446	150		1			SALINITY @ 10m
		21:58	BE				54 22.114	133 15.25				100	100TS	OR	CHLOROPHYLL
		21:01	BE	Bottle		250	54 22 09	133 15.32							
		21:04	BE				54 22 09	133 15 36							
		21:13	BE	Trawl		251	54 21 80	133 16 20							
		21:43	BE				54 20 41	133 20 33							
29	006	22:06	BE	Bottle		252	54 19 21	133 24.13							
		22:18	BE				54 19 17	133 24 27	345	150					
		22:16	BE	CTD		253	54 19 16	133 24 29				1			NOOTS AND SALINITY @ 10m
		22:23	BE				54 19 14	133 24 31		150					
		22:31	BE	Trawl		254	54 18 86	133 25.24							
		23:01	BE				54 17 80	133 29.12							
29	007	23:46	BE	CTD		255	54 15.026	133 37.89	279	150		1			SALINITY @ 10m
		23:53	BE				54 15.01	133 37.86							
		23:55	BE	Bottle		256	54 15 01	133 37.85							NOOTS OR CHLOROPHYLL
30		00:02	BE				54 14 99	133 37.80							
30		00:02	BE	Trawl		257	54 14 84	133 38.77							
		00:34	BE				54 14 08	133 41.92							

Cast type:

BOT = bottle cast, no CTD
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bottle firing method:
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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>				Ship <i>CFV Viking Storm</i>				Cruise ID <i>2008-14</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	QC101	14:09	BE	CTD		258	53 54 70	133 21 70	59	55		1			Salinity + notes @ 10m
		14:11	EN				53 54 68	133 21 68							WE-QCT - Frederick I
		14:13	BE	Bongo		259	53 54 69	133 21 67	54	55					CHASE TO DEPTH
		14:16	EN				53 54 73	133 21 65							
		14:25	BE	Trawl		260	53 54 36	133 20 99							
		14:53	EN				53 52 46	133 18 11							
30	QC102	15:26	BE	Bongo		261	53 50 55	133 22 61	195	150					
		15:32	EN				53 50 52	133 22 64							
		15:36	BE	CTD		262	53 50 48	133 22 65		150		1			Salinity + notes @ 10m
		15:42	EN				53 50 43	133 22 63							WE-QCT - TO WIND
		15:49	BE	Trawl		263	53 50 90	133 22 13							Above 200m contour
		16:19	EN				53 48 17	133 19 45							
30	QC103	16:55	BE	CTD		264	53 48 41	133 12 98	69	55		1			Salinity @ 10m
		16:58	EN				53 48 40	133 12 99							NO CHLOROPHYLLS OR MOTS
		16:59	BE	Bongo		265	53 48 39	133 13 00		55					CHASE TO DEPTH
		17:02	EN				53 48 38	133 13 01							
		17:09	BE	Trawl		266	53 47 89	133 12 89							
		17:39	EN				53 45 60	133 11 28							

Cast type:

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bottle firing method:
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RE = recover mooring time

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Additional comments

Q101 - BEAUTIFUL DAY, BLUE SKY, SUNNY, ~~14~~ 0.3 INCHES, RIPPED SEAS.

- 14-20 TANKERS OFF FREDERICK IS.

Q103 - SEAS LAM, GLASSY, 100 WIND, SUNNY.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2008</i>				Ship <i>CGV Viking Star</i>				Cruise ID <i>2008-14</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
<i>30</i>	<i>QC104</i>	<i>18:09</i>	<i>BE</i>	<i>Bottle</i>		<i>267</i>	<i>53 43.27</i>	<i>133 14.61</i>	<i>200</i>	<i>150</i>					
		<i>18:15</i>	<i>BE</i>				<i>53 43.30</i>	<i>133 14.48</i>							
		<i>18:19</i>	<i>BE</i>	<i>CTD</i>		<i>268</i>	<i>53 43.29</i>	<i>133 14.45</i>	<i>212</i>	<i>150</i>		<i>1</i>			<i>SALINITY @ 10m.</i>
		<i>18:25</i>	<i>BE</i>				<i>53 43.28</i>	<i>133 14.42</i>							
		<i>18:31</i>	<i>BE</i>	<i>Trawl</i>		<i>269</i>	<i>53 42 93</i>	<i>133 13.98</i>							<i>NO NETS OR CHLOROPHYLLS</i>
		<i>19:01</i>	<i>BE</i>				<i>53 40 86</i>	<i>133 11.39</i>							<i>ALONG 200m contour</i>
<i>30</i>	<i>QC105</i>	<i>19:30</i>	<i>BE</i>	<i>CTD</i>		<i>270</i>	<i>53 41 53</i>	<i>133 5.80</i>	<i>138</i>	<i>130</i>		<i>1</i>			<i>NETS + SALINITY @ 10m</i>
		<i>19:35</i>	<i>BE</i>				<i>53 41 49</i>	<i>133 5.81</i>							
		<i>19:37</i>	<i>BE</i>	<i>Bottle</i>		<i>271</i>	<i>53 41 48</i>	<i>133 5.80</i>	<i>138</i>	<i>130</i>					
		<i>19:42</i>	<i>BE</i>				<i>53 41 45</i>	<i>133 5.75</i>							
		<i>19:48</i>	<i>BE</i>	<i>Trawl</i>		<i>272</i>	<i>53 41 06.5</i>	<i>133 5.33</i>							
		<i>20:18</i>	<i>BE</i>				<i>53 38.8</i>	<i>133 03.4</i>							<i>BEACH Tow</i>
<i>30</i>	<i>QC106</i>	<i>20:46</i>	<i>BE</i>	<i>Bottle</i>		<i>273</i>	<i>53 36.12</i>	<i>133 7.29</i>				<i>1</i>			<i>NETS + SALINITY @ 10m</i>
		<i>20:50</i>	<i>BE</i>				<i>53 36.03</i>	<i>133 7.34</i>							
		<i>20:56</i>	<i>BE</i>	<i>CTD</i>		<i>274</i>	<i>53 36.00</i>	<i>133 7.38</i>							
		<i>21:02</i>	<i>BE</i>				<i>53 35.96</i>	<i>133 7.42</i>							
		<i>21:08</i>	<i>BE</i>	<i>Trawl</i>		<i>275</i>	<i>53 35.55</i>	<i>133 7.07</i>							
		<i>21:38</i>	<i>BE</i>				<i>53 33.4</i>	<i>133 5.24</i>							<i>ALONG 200m contour</i>

Cast type:
 BOT = bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD

USW = sea water loop
 MOR = mooring
 NET = 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 for each cast, do not use Ammonia products

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>June</u>				Year <u>2008</u>				Ship <u>CFV VIKING Storm</u>				Cruise ID <u>2008-14</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							
30	QC107	21:56	BZ	CTD		276	53 32.14	133 3.54	180	150		1			
		22:02	BN				53 32.14	133 3.54							NO NETS OR CHLOROPHYLL
		22:03	BZ	Bottle		279	53 32.15	133 3.54	150						SALINITY @ 10m.
		22:10	BN				53 32.06	133 3.51							BEACH TOW.
		22:16	BZ	Trawl		278	53 031.69	132 3.0							OFF HIPPA I.
		22:46	BN				53 30.09	132 59.93							
30	QC108	23:07	BZ	Bottle		279	53 27 89	132 59.97	268	150					
		23:12	BN				53 27 84	132 59 54							
		23:16	BZ	CTD		280	53 27 77	132 59.79				1			NO NETS OR CHLOROPHYLL
		23:23	BN				53 27 69	132 59.74							
		23:29	BZ	Trawl		281	53 27 29	132 59 35							Tow ALONG 200m contour.
		23:59	BN				53 24 98	132 57 40							
1	QC109	00:29		CTD		282	53 25 19	132 51.65	136	123					NETS + SALINITY @ 10m.
		00:35					53 25 13	132 51.59							
		00:36		Bottle		283	53 25 18	132 51.55	147	140					
		00:42					53 25 06	132 51.45							
		00:49		Trawl		284	53 25 37	132 51 85							
		01:19					53 27 27	132 54 24							BEACH TOW - OFF
															Recover SO, QCTE

Cast type:

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

USW = sea water loop
MOR = mooring
NET = 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 for each cast, do not use Ammonia products

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>July</u>				Year <u>2008</u>		Ship <u>CTD</u> <u>Virgin Star</u>		Cruise ID <u>2008-14</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							
1	QCI 10	14:05	BE	CTD		285	53 22.31	132 45 16	139	130		1			
		14:10	BE				53 22.32	132 45 20							
		14:11	BE	Bottom		286	53 22.32	132 45 22		130					
		14:17	BE				53 22.30	132 45 23							
		14:26	BE	Trawl		287	53 21 80	132 45 15	90						
		14:56	BE				53 19 75	132 47 15							BEACH TOW. OR
1	QCI 11	15:32	BE	Bottom		288	53 15 67	132 46 26	100	90					QCI - off Ranche So.
		15:37	BE				53 15 68	132 46 16							
		15:41	BE	CTD		289	53 15 67	132 46 06	105	95		1			
		15:45	BE				53 15 66	132 46 60							SALINITY @ 10m
		15:51	BE	Trawl		290	53 15 30	132 45 54							120 MTS - OR CHLOROPHYLL
		16:21	BE				53 13 18	132 43 46							BEACH TOW - QCI - OR
1	QCI 12	17:00	BE	CTD		291	53 8.91	132 39 55	163	150		1			
		17:06	BE				53 8.95	132 39 52							SALINITY MTS @ 10m
		17:08	BE	Bottom		292	53 8.97	132 39 51	166	150					
		17:14	BE				53 9.00	132 39 58							
		17:21	BE	Trawl		293	53 8.71	132 39 21							
		17:51	BE				53 7.18	132 36 44							BEACH TOW OR TIRAKIN

Cast type:

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

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
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Time Code

BE = beginning time of cast
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MR = messenger release time
RE = recover mooring time

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

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Additional comments

Q410 - Jany 1 - Part cream, sunny

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>July</i>				Year <i>2008</i>			Ship <i>CFV Victoria Seam</i>				Cruise ID <i>2008-14</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							
1	QCI13	1836	BE	Bottle		294	53 03.0	132 32.9	165	150					
		18:43	EM				53 03.12	132 33.06							
		18:46	BE	CTD		295	53 03.18	132 33.12				1			SALINITY @ 10m.
		18:53	EM				53 03.32	132 33.24							NO NETS OR CHLOROPHYLL.
		19:01	BE	Trawl		296	53.2.93	132 32.9							BEACH TOW - OFF
		19:31	EM				53 00.87	132 31.273							WL-CT - KITGORE INLET.
1	QCI14	20:11	BE	CTD		297	52 56 56	132 26 56.				1			SALINITY + NETS @ 10m.
		20:17	EM				52 56 54	132 26 58							
		20:26	BE	Bottle		298	52 56 52	132 26 53							
		20:32	EM				52 56 49	132 26 57							
		20:40	BE	Trawl		299	52 56 14	132 26.00							BEACH TOW OFF
		21:10	EM				52 54 60	132 22 78							WL-CT - BOWENLAND. BAY.
1	QCI15	21 35	BE	Bottle		300	52 52.9	132 18.9	94	85					
		21 39	EM				52 53.0	132 18.8							
		21 42	BE	CTD		301	52 53.0	132 18.8	77	70		1			SALINITY @ 10m.
		21:43	EM				52 53 03	132 18.8							NO NETS OR CHLOROPHYLL.
		21:53	BE	Trawl		302	52 52 65	132 18.46							BEACH TOW OFF
		22:23	EM				52 50 502	132 16.460							WL-CT - BOTTNE PT.

Cast type:

ISSW = sea water loop

bottle firing method:

Time Code:

Cast type:

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

USW = sea water loop

MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

US = up/stop
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Additional comments

QCT3 - SEAL MOVING THROUGH WIND GUSTS, HARD RAIN, RIGIDITY

QC13 - PASSENGER LOST, REPLACED WITH A SHACKLE

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>July</i>				Year <i>2008</i>				Ship <i>CFV Viking Storm</i>				Cruise ID <i>2008-14</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							
1	QCI 16	2300	DE	CTD		303	52 47.2	132 12.4	150	145		1			
		2308	BU				52 47.2	132 12.4							SALINITY @ 10m
		2310	BE	Bongo		304	52 47.2	132 12.4	150	145					* MOTS
		2316	END				52 47.2	132 12.4							
		2326	BE	Trawl		305	52 48.72	132 11.43	110	-					BEACH TOW off TASU So.
		2356	BU				52 44.72	132 9.09							
2	QCI 17	14:00	DE	CTD		306	52 42.5	132 7.01	151	145		1			
		14:06	BU				52 42.53	132 7.04							SALINITY + MOTS @ 10m
		14:08	BE	Bongo		307	52 42.54	132 7.05							
		14:14	BU				52 42.53	132 6.99							
		14:21	BE	Trawl		308	52 42.24	132 6.52							
		14:51	BU				52 40.49	132 3.90							BEACH TOW off QCI-TASU So.
2	QCI 18	15:52	BE	Bongo		309	52 34.14	131 54.84							
		15:59	BU				52 34.15	131 54.75							
		16:03	BE	CTD		310	52 34.095	131 54.7				1			
		16:11	BU				52 34.04	131 54.66							SALINITY @ 10m
		16:17	BE	Trawl		311	52 33.75	131 54.04							NO MOTS OR CHLOROPHYLLS
		16:47	BU				52 32.10	131 50.81							BEACH TOW off QCI-

Cast type:

BOT = bottle cast, no CTD
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ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = 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
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DE = deployment time
MR = messenger release time
RE = recover mooring time

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 <i>June</i>				Year <i>2008</i>				Ship <i>CFV Viking Green</i>				Cruise ID <i>2008-14</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
2	QCI19	17:39	BE	CTD		312	52 26.97	131 43.01	204	150.		1			SALINITY + TRITS @ 10m.
		17:46	EN				52 26.97	131 42.93							
		17:50	BE	Bongo		313	52 26.93	131 42.87		150					
		17:54	EN				52 26.88	131 42.88							
		18:01	BE	Tran.		314	52 26.46	131 42.24							200 - off Gougeon Bay.
		18:30	EN				52 24.20	131 39.98							
2	QCI20	19:17	BE	Bongo		315	52 18.38	131 34.19	180	150.		1			
		19:24	EN				52 18.28	131 34.03							
		19:28	BE	CTD		316	52 18.21	131 33.96		150.		1			SALINITY @ 10m
		19:34	EN				52 18.11	131 33.87							100. 100TS or CHLOROPHYLL.
		19:43	BE	Tran.		317	52 17.66	131 33.22							BEACH TOW
		20:13	EN				52 15.96	131 30.54	161						
2	QCI21	21:17	BE	CTD		318	52 10.55	131 24.19	167	150.		1			SALINITY @ 10m
		21:24	EN				52 10.61	131 24.4							
		21:25	BE	Bongo		319	52 10.62	131 24.4		150					WC - off MAGAS Pt.
		21:31	EN				52 10.69	131 24.54							BEACH TOW
		21:39	BE	Tran.		320	52 10.47	131 23.94							
		22:09	EN				52 9.35	131 21.23							

Cast type:

BOT = bottle cast, no CTD
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ROS = Rosette plus CTD

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NET = net haul
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bottle firing method:

US = up/stop
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Time Code

BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast

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Additional comments

QCI 19 - FMT CALM, "LIKE A MILD POOL" OVERCAST BUT BRIGHT.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>July</i>				Year <i>2008</i>				Ship <i>CAV. Viking Storm</i>				Cruise ID <i>2008-14</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								
2	QCI 22	22:48	BE	Bongo		321	52 4.98	131 17.43	180	150.						
		22:53	EN				52 4.93	131 17:40								
		22:59	BE	CTD		322	52 4.84	131 17 32		50.		1				
		23:04	EN				52 4.82	131 17.305								
		23:10	BE	Trawl		323	52 4.47	131 17.05								
		23:40	EN				52 2.00	131 14.15								
3	QCI 23	00:13	BE	CTD		324	51 58.68	131 9.49	316	150						
		00:17	EN				51 58 53	131 9.42								
		00:19	BE	Bongo		325	51 58 49	131 9.40		140						
		00:25	EN				51 58 29	131 9:35								
		00:34	BE	Trawl		326	51 57 63	131 8.63								
		01:04	EN				51 55 32	131 5.59								
3	H506	14:00	BE	CTD		328	51 57.3	130 57.4	107	100						
		14:05	EN				57.2	57.5								
		14:07	BE	Bongo		329	51 57.13	130 57.56	104	95.						
		14:11	EN				51 57.05	130 57.61								
		14:18	BE	Trawl		330	51 56.77	130 57.03								
		14:48	EN				51 55 47	130 57 64								
												Tow off Cape St. James				

Cast type: USW = sea water loop bottle firing method: Time Code

Cast type:

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

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
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Time Code

BE = beginning time of cast
BO = bottom time of cast
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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Additional comments

July 3 - H506 - ~~fast~~ calm, overcast.
DS

- H506: Consecutive number 327 was skipped accidentally.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>July</i>				Year <i>2008</i>			Ship <i>CGV Viking Storm</i>			Cruise ID <i>2008-14</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	
3	QCS001	1543	BE	Bongo		331	51 52.96	130 43.4	300	150		1				
		1550	EN				51 53 09	130 43 50								
		1553	BE	CTD		332	51 53 15	130 43 54				1				
		16:02	EN				51 53 33	130 43 69								
		16:12	BE	TRAWL		333	51 53 14	130 42 21								
		16:42	EN				51 52 06	130 39 45								
4	GS08	21:24	BE	CTD		334	49 57.00	125 5.88	229	150		1				
		21:31	EN				49 57.045	125 5.746								GS - C. Mudge
		21:33	DE	Bongo		335	49 57.054	125 5.724								MUTS + SALINITY @ 10m
		21:39	EN				49 57.11	125 5.65								
4	GS09	22:08	BE	Bongo		336	49 53 64	125 3.28	142	135						
		22:13	EN				49 53 63	125 3.23								
		22:18	BE	CTD		337	49 53 65	125 3.21		135		1				GS - Oyster R.
		22:24	EN				49 53.63	125 3.18								MUTS + SALINITY @ 10m
4	GS10	22:56	BE	CTD		338	49 53.96	124 56.45	141	135		1				
		23:02	EN				49 54.03	124 56.47								MUTS + SALINITY @ 10m
		23:04	BE	Bongo		339	49 54.04	124 56 45		135						GS - Montgomery Bk E
		23:09	EN				49 54.19	124 56.42								

Cast type:

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bottle firing method:
US = up/stop
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Time Code

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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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>July</i>		Year <i>2008</i>		Ship <i>CSV Viking Storm</i>		Cruise ID <i>2008-14</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						
4	GS11	23:46	13E	BONGO		340	49 49 91	124 56.15	186	150				
		23:53	KN				49 50 07	124 56 16						GS - over CANAWAGA Beach
		23:56	BE	CTD		341	49 50 07	124 56 05	200	150				
5		00:02	KN				49 50 13	124 56 03			1			NOTS + salinity @ 10m
5	GS12	00:40	BE	CTD		342	49 49 64	124 49 34	208	150				
		00:46	EU				49 49 71	124 49 41			1			NOTS + salinity @ 10m
		00:49	BE	BONGO		343	49 49 73	124 49 51						
		00:56	KN				49 49 73	124 49 59						
5	GS13	01:29	BE	BONGO		344	49 48 92	124 42 84	157	150				
		01:36	KN				49 48 88	124 42 87						
		01:40	BE	CTD		345	49 48 87	124 42 93	160	150				
		01:46	KN				49 48 87	124 42 92			1			NOTS + salinity @ 10m
5	GS14	02:27	BE	CTD		346	49 49 92	124 34 94	260	150				
		02:33	KN				49 49 94	124 34 90			1			NOTS + salinity @ 10m
		02:35	BE	BONGO		347	49 49 96	124 35 02		150				
		02:41	KN				49 49 96	124 35 01						

Cast type:

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

USW = sea water loop
MOR = mooring
NET = net haul
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bottle firing method:
US = up/stop
UN = up/no stop
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Time Code

BE = beginning time of cast
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EN = end time of cast

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MR = messenger release time
RE = recover mooring time

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 <u>July</u>				Year <u>2008</u>				Ship <u>CFV Viking Seam</u>				Cruise ID <u>2008-14</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							
5	GS15	14:37	BE	CTD		348	49 44.68	124 46.18	325	150		1			
		14:44	RE				49 44.78	124 46.10							ROS + salinity @ 10m
		14:46	BE	Bougeo		349	49 44.85	124 46.07	335						
		14:52	RE				49 45.01	124 46.11							
5	GS16	15:34	BE	Bougeo		350	49 42.46	124 39.43	338	150					
		15:34	RE				49 42.41	124 39.46							
		15:44	BE	CTD		351	49 42.43	124 39.60							
		15:50	RE				49 42.91	124 39.60				1			ROS + salinity @ 10m
5	GS17	16:24	BE	CTD		352	49 37.98	124 40.78	121	115		1			
		16:29	RE				49 37.92	124 40.71							ROS + salinity @ 10m
		16:31	BE	Bougeo		353	49 37.93	124 40.67	124	115					
		16:35	RE				49 37.92	124 40.62							
5	GS18	17:05	BE	Bougeo		354	49 36.71	124 33.94	145	135					
		17:11	RE				49 36.73	124 33.83							
		17:18	BE	CTD		355	49 36.76	124 33.80		135		1			
		17:24	RE				49 36.82	124 33.80							ROS + salinity @ 10m

Cast type:

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

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bottle firing method:
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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
5	GS19	17:57	BE	CTD		356	Latitude 49 32 73 Longitude 124 34 68	171	150		1			
		18:04	BE				49 32 73 124 34 56							
		18:06	BE	BONGO		357	49 32 79 124 34 54	173	150					
		18:12	BE				49 32 76 124 35 00							
5	GS20	18:48	BE	BONGO		358	49 31 12 124 27.6	190	150					
		18:54	BE				49 31 11 124 27.58							
		18:58	BE	CTD		359	49 31 05 124 27.48		150					
		19:04	BE				49 30 99 124 27.41				1			NOT + salinity @ 10m
5	GS21	19:42	BE	CTD		360	49 26.5 124 28.77	323	150					
		19:48	BE				49 26 42 124 28.56				1			NOT + salinity @ 10m
		19:51	BE	BONGO		361	49 26 49 124 28.48	331	150					
		19:58	BE				49 26 54 124 28.34							
5	GS22	21:06	BE	BONGO		362	49 22 26 124 15.31	317	150					
		21:13	BE				49 22 26 124 15.215							
		21:17	BE	CTD		363	49 22 25 124 15.16		150					
		21:24	BE				49 22 26 124 15.04				1			NOT + salinity @ 10m

Cast type:

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

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
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Time Code

BE = beginning time of cast
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RE = recover mooring time

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

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Additional comments

20-30 SE. winds.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

INSTITUTE OF OCEAN SCIENCES																	
Month <u>July</u>				Year <u>2008</u>				Ship <u>CPV UPRIMA</u>				Cruise ID <u>2008-14</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									
5	GS23	22:03	BZ	CTD		364	49 23 S	124 7.99	273	150		1					
		22:07	KW				49 23 56	124 8.1							MOTS + SALINITY @ 10m		
		22:09	BZ	BONGO		365	49 23 59	124 8.16									
		22:15	KW				49 23 61	124 8.336									
5	GS24	22:51	BZ	BONGO		366	49 25 84	124 1.631	395	150.							
		22:56	KW				49 25 90	124 1.92									
		23:00	BZ	CTD		367	49 25 98	124 2.11		150.		1			MOTS + SALINITY @ 10m		
		23:07	KW				49 26 07	124 2.47									
5	GS25	23:44	BZ	CTD		368	49 22 46	123 58.03	402	150		1			MOTS + SALINITY @ 10m		
		23:51	KW				49 22 44	123 58.23									
		23:53	BZ	BONGO		369	49 22 46	123 58.30									
6		00:00	KW				49 22 468	123 58.50									
6	GS26	00:33	BZ	BONGO		370	49 18 94	123 54 51	411	150							
		00:38	KW				49 18 90	123 54 59									
		00:42	BZ	CTD		371	49 18 89	123 54 60		150		1			MOTS + SALINITY @ 10m		
		00:49	KW				49 18 92	123 54 80									
							END OF CRUISE										

Cast type:
BOT = bottle cast, no CTD
CTD = CTD without Bottle

USW = sea water loop
MOR = mooring
BZ = beginning time of cast

bottle firing method:
US = up/down

Time Code
BE = beginning time of event

Cast type:

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

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