

DAILY LOG BOOK

MISSION
NUMBER

2007-65

DATE:

From: OCT 10 to: NOV 5

VESSEL:

F.V. VIKING STORM

PROJECT:

TRUDEL HI SEAS SALMON

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship		Cruise ID									
OCTOBER		2007		VIKING STORM		207-65									
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							
10	GS01	11:41	BE	CTD		1	49 13.98	123 53.7	162	150		1			BOT @ 10m. SAL/NOTS
		11:50	BO				49 13.92	123 53.72							
		11:58	EN				49 13.89	123 53.77							
		12:05	BE	BONGO		2	49 13.82	123 53.81	218	150					BONGO
		12:12	BO				49 13.86	123 53.84							
		12:19	BE				49 13.85	123 53.87							
10	GS02	16:01	BE	BONGO		3	48 57.74	123 21.27	208	150					
		16:09	EN				48 57.80	123 21.34							
		16:19	BE	CTD		4	48 57.85	123 21.36	209	150		1			BOT @ 10m. SAL/NOTS
		16:28	EN				48 57.93	123 21.35							
10	GS03	18:05	BE	CTD		5	48 50.38	123 5.83	199	150		1			BOT @ 10m. SAL/NOTS
		18:14	EN				48 50.33	123 5.67							
		18:17	BE	BONGO		6	48 50.30	123 5.62							
		18:26	EN				48 50.23	123 5.49							

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
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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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* ALL TIMES RECORDED IN PACIFIC DAYLIGHT TIME (PDT)

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>OCTOBER</i>				Year <i>2007</i>				Ship <i>Viking Storm</i>				Cruise ID <i>2007-65</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							
11	JF01	6:53	BE	BONGO		7	48 17.07	123 39.74	182	150		1			
		7:02	EN				48 17.05	123 39.85							
		7:10	BE	CTD		8	48 17.02	123 39.94	182	150		1			BOT @ 10m SAL/NTS
		7:19	EN				48 16.98	123 40.01							
		7:37	BE	TRAWL		9	48 17.40	123 39.93	167		SURFACE TOW				
11	JF02	08:45	BE	CTD		10	48 20.01	123 50.7	140	130		1			BOT @ 10m SAL/NTS
		08:52	EN				48 20.07	123 50.9							
		08:56	BE	BONGO		11	48 20.11	123 51.17	137	130					
		09:03	EN				48 20.15	123 51.35							
		09:16	BE	TRAWL		12	48 20.30	123 51.50			SURFACE TOW				
11	JF03	10:38	BE	BONGO		13	48 23.59	124 5.34	95	85					
		10:42	EN				48 23.66	124 5.44							
		10:46	BE	CTD		14	48 23.70	124 5.50	91	80		1			BOT @ 10m SAL/NTS
		10:52	EN				48 23.79	124 5.60							
		11:06		TRAWL		15	48 23.70	124 5.39			SURFACE TOW				

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>OCTOBER</i>				Year <i>2007</i>			Ship <i>Viking Seam</i>				Cruise ID <i>2007-65</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
11	JF04	12:39	BE	CTD		16	48 24 49	124 20 57	118	105		1			BOT @ 10m SAL/NOTS
		12:45	EN				48 27 47	124 20 56							
		12:48	BE	BONGO		17	48 27 47	124 20 53	119	109					
		12:54	EN				48 27 46	124 20 50							
		13:05	BE	TRAWL		18	48 27 52	124 21 20			SURFACE TOW				
11	JF05	14:16	BE	BONGO		19	48 30 14	124 31 59	178	150					
		14:25	EN				48 30 18	124 31 61							
		14:31	BE	CTD		20	48 30 21	124 31 61	176	150		1			BOT @ 10m SAL/NOTS
		14:40	EN				48 30 27	124 31 61							
		14:50	BE	TRAWL		21	48 30 39	124 32 09			SURFACE TOW				
11	JF06	16:09	BE	CTD		22	48 32 96	124 42.99	120	110		1			BOT @ 10m SAL/NOTS
		16:15	EN				48 32 94	124 42.96							
		16:18	BE	BONGO		23	48 32 93	124 42.95	120	110					
		16:24	EN				48 32 92	124 42.95							
		16:31	BE	TRAWL		24	48 32 99	124 43.67			SURFACE TOW				

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Month <i>October</i>				Year <i>2007</i>				Ship <i>Viking Storm</i>				Cruise ID <i>2007-65</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							
11	JF07	17:52	BE	BONGO		25	48 35 85	124 54 25	59	45					
		17:55	EN				48 35 86	124 54 26							
		17:59	BE	CTD		26	48 35 88	124 54 24	58	45		1			BOT @ 10m SAL/NOTS
		18:02	EN				48 35 89	124 54 25							
		18:11		TRAWL		27	48 36 07	124 54 84			SURFACE TOW				
12	IUV01	7:10	BE	CTD		28	48 57.91	125 7.27	93	84		1			BOT @ 10m SAL/NOTS
		7:14	EN				48 57.91	125 7.23							
		7:18	BE	BONGO		29	48 57.90	125 7.33	97	84					
		7:22	EN				48 57 89	125 07.38							
			BE	TRAWL		30	48 57.91	125 6 99	100		SURFACE TOW				
12	IUV02	8:29	BE	BONGO		31	48 55 08	125 12.01	97	87					
		8:35	EN				48 55 05	125 12.08							
		8:39	BE	CTD		32	48 55 03	125 12.10	97	87		1			BOT @ 10m SAL/NOTS
		8:43	EN				48 54 99	125 12.14							
		8:56	BE	TRAWL		33	48 54 65	125 12.36			SURFACE TOW				

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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							
12	VI03	10:02	BE	CTD		34	48 50 44	125 15.74	101	90		1			BOT @ 10m SAL/NOTS
		10:08	EN				48 50 41	125 15.81							
		10:09	BE	BOMBO		35	48 50 41	125 15.82	190	90					
		10:14	EN				48 50 40	125 15.86							
		10:28	BE	TRAWL		36	48 50 38	125 15.90	105		SURFACE TOW				
12	VI01	11:54	BE	BOMBO		37	48 45 53	125 25.52	102	90					
		11:57	EN				48 45 57	125 25.66							
		12:02	BE	CTD		38	48 45 58	125 25.75	104	94		1			BOT @ 10m SAL/NOTS
		12:08	EN				48 45 60	125 25.84							
		12:18	BE	TRAWL		39	48 45 26	125 26 41			SURFACE TOW				
12	VI02	13:27	BE	CTD		40	48 40 47	125 34.82	189	150		1			BOT @ 10m SAL/NOTS
		13:36	EN				48 40 48	125 35.06							
		13:39	BE	BOMBO		41	48 40 49	125 35.11	200	150					
		13:47	EN				48 40 52	125 35.30							
		13:57	BE	TRAWL		42	48 40 17	125 35 82	200		SURFACE TOW				

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Month <i>October</i>		Year <i>2007</i>		Ship <i>Viking Green</i>		Cruise ID <i>2007-65</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							
12	V103	15:11	BE	BONGO		43	48 34 35	125 44 02	71	60					
		15:14	EN				48 34 32	125 44 10							
		15:19	BE	CTD		44	48 34 27	125 44 13	71	60		1	BOT @ 10m		SAL/NOTES
		15:23	EN				48 34 24	125 44 15							
		15:32	BE	TRAWL		45	48 33 87	125 44 68							
12	V104	16:43	BE	CTD		46	48 28.86	125 52.59	120	110		1	BOT @ 10m		SAL/NOTES
		16:49	EN				48 28.83	125 52.58							
		16:53	BE	BONGO		47	48 27.79	125 52.53	121	110					
		16:58	EN				48 28.76	125 52.43							
		17:10	BE	TRAWL		48	48 29 06	125 52 86							
13	V105	7:10	BE	BONGO		49	49 6 14	126 0.09	42	30					
		7:12	EN				49 6 15	126 0.11							
		7:18	BE	CTD		50	49 6.19	126 0.16				1	BOT @ 10m		SAL/NOTES
		7:21	EN				49 6.20	126 0.18							
			BE	TRAWL		51	49 5.93	126 0.73							

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INSTITUTE OF OCEAN SCIENCES

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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							
13	VI06	8:25	BE	CTD		52	49 2.90	126 5.64	58	50		1			BOT @ 10m. SAL/NUTS.
		8:28	EN				49 2.90	126 5.65							
		8:30	BE	Bongo		53	49 2.91	126 5.66	58	50					
		8:33	EN				49 2.92	126 5.66							
		8:43	BE	TRAWL		54	49 2.64	126 6.12			SURFACE TOW				
13	VI07	9:42	BE	BONGO		55	48 59.15	126 11.84	90	80					
		9:46	EN				48 59.22	126 11.89							
		9:51	BE	CTD		56	48 59.30	126 11.96	91	80		1			BOT @ 10m SAL/NUTS.
		9:54	EN				48 59.39	126 12.06							
		10:05	BE	TRAWL		57	48 59.19	126 12.47			SURFACE TOW				
13	VI08	11:04	BE	CTD		58	48 55 54	126 18.11	125	133		1			BOT @ 10m SAL/NUTS.
		11:13	EN				48 55 64	126 18.14							
		11:15	BE	BONGO		59	48 55 67	126 18.15	120	133					
		11:22	EN				48 55 76	126 18.18							
		11:31	BE	TRAWL		60	48 55 42	126 18.65			SURFACE TOW				

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INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2007</i>				Ship <i>Viking Star</i>				Cruise ID <i>2007-65</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							
13	V109	12:30	BE	Bottle		61	48 51.83	126 24.08	170	150					AT BOTTOM OF CAST
		12:38	END				48 51.85	126 24.11							DEPTH PROBE ON BOTTLE
		12:42	BE	CTD		62	48 51.87	126 24.11	170	150					= 160 m, "PARACHUTING"?
		12:52	END				48 51.91	126 24.13							SAL/NUTS
		13:00	BE	TRAWL		63	48 51.60	126 24.56							
13	V110	13:55	BE	CTD		64	48 48.31	126 29.95	239	150					
		14:00	END				48 48.37	126 29.99							
		14:08	BE	Bottle		65	48 48.38	126 30.00	238	150					BOT @ 10m
		14:16	END				48 48.42	126 30.06							SAL/NUTS
		14:26	BE	TRAWL		66	48 48.11	126 30.69							
13	V111	16:31	BE	Bottle		67	48 58.19	126 26.38	149	135					
		16:39	END				48 58.21	126 26.36							
		16:43	BE	CTD		68	48 58.23	126 26.33	152	140					BOT @ 10m
		16:52	END				48 58.24	126 26.30							SAL/NUTS
		17:01	BE	TRAWL		69	48 58.71	126 25.87							

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							Latitude	Longitude							
13	UI12	19:20	BE	CTD		70	49 10.13	126 21.71	76	60					
		19:23	EN				49 10.18	126 21.79							
		19:25	BE	BONGO		71	49 10.22	126 21.81	76	60					
		19:28	EN				49 10.27	126 21.84							
		18:19	BE	TRAWL		72	49 6.88	126 22.32							
14	EP01	7:00	BE	BONGO		73	49 21.38	126 31.96	30	20					
		7:04	EN				49 21.40	126 31.97	30						
		7:11	BE	CTD		74	49 21.48	126 32.10	30	20					
		7:13	EN				49 21.50	126 32.13							
		7:30	BE	TRAWL		75	49 20 36	126 34.00							
14	EP02	8:19	BE	CTD		76	49 18 85	126 36 39	70	84					
		8:21	EN				49 18 89	126 36.45							
		8:24	BE	BONGO		77	49 18 92	126 36.48	70	84					
		8:27	EN	TRAWL			49 18 97	126 36 53							
		8:39	BE	TRAWL		78	49 18 03	126 36 97							

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Month <i>October</i>				Year <i>2007</i>				Ship <i>CGV. Viking Seaman</i>				Cruise ID <i>2007-65</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
14	EP03	9:24	BE	BONGO		79	49 16.92	126 40.76	110	95					
		9:29	NEW				49 17.01	126 40.85							1.3 KNOT DRIFT 335°
		9:34	BE	CTD		80	49 17.10	126 40.95	110	95		1	BOT @ 10m		SAL/NUTS/CHLORO
		9:40	NEW				49 17.15	126 41.01							
		9:50	BE	TRAWL		81	49 17.21	126 41.04			SURFACE	Tow			
14	EP04	10:38	BE	CTD		82	49 14.7	126 45.13	117	105		1	BOT @ 10m		SAL/NUTS/CHLORO
		10:43	NEW				49 14.81	126 45.28							1.6 KNOT 321° DRIFT
		10:49	BE	BONGO		83	49 14.89	126 45.32	118	100					
		10:52	NEW				49 14.99	126 45.41							
			BE	TRAWL		84	49 14.81	126 46.11			SURFACE	Tow			
14	EP05	11:48	BE	BONGO		85	49 12.52	126 49.84	145	130					1.2 KNOT 315° DRIFT
		11:56	NEW				49 12.64	126 50.06							
		12:02	BE	CTD		86	49 12.62	126 50.13	147	130		1	BOT @ 10m		SAL/NUTS/CHLORO
		12:10	NEW				49 12.65	126 50.29							
			BE	TRAWL		87	49 12.43	126 50.82			SURFACE	Tow			

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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							
14	EP06	13:05	BE	CTD		88	49 10.31	126 54.15	185	150		/	BOT @ 10m		SA/NUTS/CHOROS
		13:14	EN				49 10.39	126 54.22							
		13:33	BE	Bongo		89	49 10.55	126 54.33	185	135					1st attempt Failed.
		13:47	EN				49 10.57	126 54.61							
		13:58	BE	TRAWL		90	49 10 24	126 54.84			SURFACE		Tow		
14	EP07	14:47	BE	Bongo		91	49 07.93	126 58.5	457	150					
		14:58	EN				49 07.99	126 58.73							
		15:04	BE	CTD		92	49 08.04	126 58.77	458	160		/	BOT @ 10m		SA/NUTS/CHOROS
		15:12	EN				49 08.07	126 58.91							
		15:22	BE	TRAWL		93	49 07.83	126 59.42			SURFACE		Tow		
14	VI13	16:21	BE	TRAWL		94	49 6.90	127 1.14			Tow AT 260m.				
14	EP06	17:21		TRAWL		95	49 10.45	126 54.95			Tow AT 15m.				
14	EP05	18:18		TRAWL		96	49 13.03	126 51.10			Tow AT 15m.				

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
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 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>October</i>				Year <i>2007</i>			Ship <i>CGC Viking Storm</i>			Cruise ID <i>2007-65</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							
15	VI14	7:09	BE	CTD		97	49 46.11	127 4.92	50	40		1			BOT @ 10m SAL/NUIS.
		7:12	EN				49 46.16	127 4.93							
		7:14	BE	BOMBO		98	49 45.20	127 4.94	50	40					
		7:17	EN				49 46.21	127 4.95							
		7:45	BE	Trawl		99	49 46.27	127 5.65				SURFACE TOW			
15	VI15	8:40:46	BE	BOMBO		100	49 43.09	127 11.32	104	90					BOT @ 10m SAL/NUIS.
		8:44:30	EN				49 43.13	127 11.35							
		8:52	BE	CTD		101	49 43.11	127 11.33	103	90		1			
		8:58	EN				49 43.08	127 11.31							
		9:05	BE	Trawl		102	49 42.87	127 12.04				SURFACE TOW			
15	VI16	10:06	BE	CTD		103	49 39.60	127 18.136	130	120		1			BOT @ 10m SAL/NUIS.
		10:11	EN				49 39.64	127 18.43	130	140					
		10:12:00	BE	BOMBO		104	49 39.67	127 18.46	110	140					
		10:18:00	EN				49 39.73	127 18.53							
		10:38	BE	Trawl		105	49 39.55	127 20.12				SURFACE TOW			

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
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 DRF = drifter

bottle firing method:

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Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2007</i>				Ship <i>CGV Viking Seam</i>				Cruise ID <i>2007-65</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
15	VI17	11:34	BE	Bottle		106	49 38 50	127 27 31	625	150					
		11:43	BE				49 38 61	127 27 45							
		11:49	BE	CTD		107	49 38 66	127 27 53	650	150		1 Bot @ 10m			SAL/MUTS
		11:57	BE				49 38 74	127 27 60							
		12:05	BE	TRAWL		108	49 38 74	127 18 42			SURFACE	TOW			
15	VI18	13:38	BE	CTD		109	49 44 48	127 39 38	575	150		1 Bot @ 10m			SAL/MUTS
		13:45	BE				49 44 59	127 39 43							
		13:48	BE	Bottle		110	49 44 62	127 39 41	521	150					
		13:56	BE				49 44 67	127 39 42							
		14:16	BE	TRAWL		111	49 45 45	127 38 36			SURFACE	TOW			
15	VI19	15:12	BE	Bottle		112	49 48 63	127 33 59	86	70					
		15:15	BE				49 48 65	127 33 67							
		15:20	BE	CTD		113	49 48 68	127 33 78	90	75		1 Bot @ 10m			SAL/MUTS
		15:25	BE				49 48 73	127 33 89							
		15:31	BE	TRAWL		114	49 49 02	127 33 45			SURFACE	TOW			

Cast type:

BOT = bottle cast, no CTD
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Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2007</i>			Ship <i>CGV VIKING Storm</i>				Cruise ID <i>2007-65</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							
15	VIZO	16:30	BE	CTD		115	49 52 39	127 26 81	67	55		1	bot @ 10m		SAL/NUTS
		16:38	END				49 52 44	127 26 84							
		16:41	BE	BONGO		116	49 52 46	127 26 86	68	55					
		16:43	END				49 52 51	127 26 88							
		16:52	BE	TRawl		117	49 52 89	127 26 38		SURFACE		Tow			
15	VIZI	17:47	BE	BONGO *		118	49 55 90	127 20 15	62	52					
		17:50	END				49 55 93	127 20 14							
		17:54	BE	CTD		119	49 55 96	127 20 12	62	50		1	bot @ 10m		SAL/NUTS
		17:58	END				49 56 01	127 20 10							
		18:04	BE	TRawl		120	49 55 69	127 19 64		SURFACE		Tow			
16	2VIZO4	07:20	BE	BONGO		122	48 50 33	126 59 43	90	80					
*		07:25	END				48 50 28	126 59 60							
		07:33	BE	CTD		121	49 50 26	126 59 85	66	50					
		07:36	END				49 50 26	126 59 89				1	bot @ 10m		SAL/NUT
		07:44	BE	TRawl		123	49 50 38	126 59 36		SURFACE		Tow			

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2007</i>			Ship <i>CGV. Viking Storm</i>				Cruise ID <i>2007-65</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							
10	IUI05	8:55		CTD		124	49 55 44	126 55 79	263	150		1	BOT @ 10m		SAL/NUTS
		9:04					49 55 43	126 55 81							
		9:07		BONGO		125	49 55 43	126 55 82	263	150					
		9:15					49 55 42	126 55 82							
		9:24		TRAWL		126	49 54 95	126 55 88			SURFACE	Tow			
16	IUI06	10:12		BONGO		127	49 51 51	126 54 83	200	150					
		10:20					49 51 51	126 54 04							
		10:25		CTD		128	49 51 50	126 55 19	197	150		1	BOT @ 10m		SAL/NUTS
		10:34					49 51 50	126 55 43							
		10:43		TRAWL		129	49 51 47	126 54 64			SURFACE	Tow			
16	IUI07	12:07		CTD		130	49 56 47	126 48 41	200	150		1	BOT @ 10m		SAL/NUTS
		12:08					49 56 53	126 48 49							
		12:14		BONGO		131	49 56 56	126 48 52	188	150					
		12:22					49 56 61	126 48 59							
		12:31		TRAWL		132	49 56 25	126 48 47			SURFACE	Tow			

Cast type:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>		Year <i>2007</i>		Ship <i>CGV Vikim Storm</i>		Cruise ID <i>2007-65</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
16	<i>IV08</i>	1312	<i>BE</i>	<i>Bongo</i>		<i>133</i>	<i>49 53.69</i>	<i>126 47.29</i>	<i>142</i>	<i>135</i>					
		<i>1320</i>	<i>EN</i>				<i>49 53.73</i>	<i>126 47.34</i>							
		<i>1325</i>	<i>BE</i>	<i>CTD</i>		<i>134</i>	<i>49 53.76</i>	<i>126 47.39</i>	<i>178</i>	<i>150</i>		<i>1</i>	<i>Bot @ 10m</i>		<i>SAL/WOTS</i>
		<i>1334</i>	<i>EN</i>				<i>49 53.80</i>	<i>126 47.47</i>							
		<i>1342</i>	<i>BE</i>	<i>Trawl</i>		<i>135</i>	<i>49 53.47</i>	<i>126 47.09</i>			<i>SURFACE TOW</i>				
16	<i>IV09</i>	<i>1425</i>	<i>BE</i>	<i>CTD</i>		<i>136</i>	<i>49 51.60</i>	<i>126 44.56</i>	<i>200</i>	<i>150</i>		<i>1</i>	<i>Bot @ 10m</i>		<i>SAL/WOTS</i>
		<i>1433</i>	<i>EN</i>				<i>49 51.64</i>	<i>126 44.67</i>							
		<i>1435</i>	<i>BE</i>	<i>Bongo</i>		<i>137</i>	<i>49 51.64</i>	<i>126 44.69</i>	<i>251</i>	<i>150</i>					
		<i>1444</i>	<i>EN</i>				<i>49 51.68</i>	<i>126 44.76</i>							
16	<i>IV10</i>	<i>1540</i>	<i>BE</i>	<i>Bongo</i>		<i>138</i>	<i>49 54.17</i>	<i>126 39.46</i>	<i>145</i>	<i>130</i>					
		<i>1548</i>	<i>EN</i>				<i>49 54.19</i>	<i>126 39.48</i>	<i>13</i>						
		<i>1553</i>	<i>BE</i>	<i>CTD</i>		<i>139</i>	<i>49 54.20</i>	<i>126 39.49</i>	<i>136</i>	<i>125</i>		<i>1</i>	<i>Bot @ 10m</i>		<i>SAL/WOTS</i>
		<i>1559</i>	<i>EN</i>				<i>49 54.21</i>	<i>126 39.49</i>	<i>136</i>	<i>125</i>					
		<i>1617</i>	<i>BE</i>	<i>Trawl</i>		<i>140</i>	<i>49 53.81</i>	<i>126 39.59</i>			<i>SURFACE TOW</i>				

Cast type:

BOT = bottle cast, no CTD
 CTD = CTD without Rosette
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USW = sea water loop

MOR = mooring
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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

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>			Year <i>2007</i>			Ship <i>CGV. Viking Seaw.</i>			Cruise ID <i>2007-65</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							
16	IVT11	17:01	BE	CTD		141	49 50.81	126 39.64	185	150		1			BOT 610m SAL/NUTS
		17:10	BE				49 50.88	126 39.67							
		17:12	BE	BONGO		142	49 50.91	126 39.68	188	150					
		17:20	BE				49 50.98	126 39.73							
		17:35	BE	TRAND		143	49 49.59	126 39.73						SURFACE TOW	
16	IVI12	18:15	BE	BONGO		144	49 46.99	126 38.83	118	100					BOT 610m SAL/NUTS
		18:21	BE				49 46.98	126 38.83							
		18:25	BE	CTD		145	49 46.97	126 38.85	117	100		1			
		18:31	BE				49 46.96	126 38.86							
17	ZVI13	7:15	BE	CTD		146	49 35.99	126 35.66	116	100		1			BOT 610m SAL/NUTS
		7:20	BE				49 35.99	126 35.68							
		7:22	BE	BONGO		147	49 35.90	126 35.69	113	100					
		7:28	BE				49 35.86	126 35.72							
		7:37	BE	TRAND		148	49 36.27	126 35.81						SURFACE TOW	

Cast type:
 BOT = bottle cast, no CTD
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bottle firing method:
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Time Code
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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2004</i>			Ship <i>CFV Viking Seam.</i>			Cruise ID <i>2004-65</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
17	IV14	0830	17	Bottle		149	49 40.58	126 34.79	164	150					
		0838	EN				49 40.58	126 34.85							
		0842	BE	CTD		150	49 40.58	126 34.88	190	150		1			SAL/NUTS
		0850	EN				49 40.57	126 34.93							
		0858	17	Trawl		151	49 40.87	126 34.54			SURFACE		Tow		
17	IV15	13:22	BE	CTD		152	49 40 02	126 9.93	366	150		1			BOT @ 10m SAL/NUTS
		13:37	EN				49 40 08	126 10 02							
		13:33	BE	Bottle		153	49 40 08	126 10 04	367	150					
		13:42	EN				49 40 10	126 10.13							
		11:07	BE	Trawl		154	49 39.43	126 13.13			SURFACE		Tow		
17	IV16	14:11	BE	Bottle		155	49 38 83	126 15 94	341	150					
		14:20	EN				49 38 82	126 16 10							
		14:23	BE	CTD		156	49 38 82	126 16 15	333	150		1			BOT @ 10m SAL/NUTS
		14:32	EN				49 38 81	126 16 29							
		14:42	BE	Trawl		157	49 38 57	126 20 92			SURFACE		Tow		

Cast type:

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

USW = sea water loop

MOR = mooring
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 DRF = drifter

bottle firing method:

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Time Code

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2007</i>			Ship <i>CFV Viking Seam</i>				Cruise ID <i>2005-65</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
17	IV17	16:00	138	CTD		158	49 38.30	126 29 54	144	135		1	BOT @ 10m		SAL/NOTS.
		16:08	139				49 38 27	126 29 59							
		16:11	138	BONED		159	49 38 26	126 29 60	145	130					
		16:18	139				49 39 26	126 29 62							
		16:30	138	Trawl		160	49 37 20	126 30 02			SURFACE		Tow		
18	IV18	07:14	138	BONED		161	50 23.69	127 28.98	100	90					
		07:19	139				50 23 70	127 29 00							
		07:24	138	CTD		162	50 23 71	127 29 01	105	90		1	BOT @ 10m		SAL/NOTS.
		07:29	139				50 23 72	127 29 03							
		07:42	138	Trawl		163	50 24 21	127 29 49			SURFACE		Tow		
18	IV19	0836	138	CTD		164	50 26 98	127 31 61	190	150					
		0844	139				50 26 99	127 31 59							
		0848	138	BONED		165	50 26 98	127 31 60	190	150					
		0857	139				50 26 93	127 31 60							
			138	Trawl		166	50 27 40	127 32 06							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>June</i>				Year <i>2007</i>				Ship <i>CGO Viking Storm</i>				Cruise ID <i>2007-65</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
18	JUL 20	0953	BE	Bongo		167	50 29.82	127 34.97	159	145					
		1000	BE				50 29.85	127 35.00							
		1005	BE	CTD		168	50 29.86	127 35.01	165	150		1	bot @ 10m		SAL/NTS
		1013	BE				50 29.89	127 35.01							
		1022	BE	TRAN.		169	50 30 20	127 35 50			SURFACE		Tow		
18	JUL 21	1157	BE	CTD		170	50 34.94	127 28.32	69	60		1	bot @ 10m		SAL/NTS
		1200	BE				50 34.95	127 28.40							
		1202	BE	Bongo		171	50 34.95	127 28.44	66	55					
		1205	BE				50 34.95	127 28.51							
			BE	TRAN.		172	50 34.90	127 27.47			SURFACE		Tow		
18	JUL 22	1254	BE	Bongo		173	50 34.43	127 34.35	130	120					
		1301	BE				50 34.44	127 34.32							
		1306	BE	CTD		174	50 34.43	127 34.29	130	120					
		1313	BE				50 34.42	127 34.28							
		1321	BE	TRAN.		175	50 34.59	127 34.92			SURFACE		Tow		

Cast type:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2007</i>			Ship <i>CGV Viking Storm</i>			Cruise ID <i>2007-65</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	IV23	1402	BE	CTD		176	50 35.33	127 40.72	110	100					
		1407	BE				50 35.33	127 40.71							
		1409	BE	Bottle		177	50 35.33	127 40.70	111	100					
		1414	BE				50 35.33	127 40.70							
		1424	BE	Trawl		178	50 35.38	127 41.73			SURFACE TOW				
18	ZVI24	1504	BE	Bottle		179	50 36.05	127 47.31	52	40					
		1506	BE				50 36.05	127 47.30							
		1511	BE	CTD		180	50 36.05	127 47.29	52	40					
		1513	BE				50 36.05	127 47.29							
		1521	BE	Trawl		181	50 36.19	127 47.99			SURFACE TOW				
18	ZVI25	1610	BE	CTD		182	50 37.83	127 54.91	51	40					
		1612	BE				50 37.83	127 54.93							
		1614	BE	Bottle		183	50 37.83	127 54.94	51	40					
		1616	BE				50 37.82	127 54.95							
		1626	BE	Trawl		184	50 38.03	127 55.81			SURFACE TOW				

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_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2007</i>				Ship <i>CGV Viking Storm</i>				Cruise ID <i>2007-65</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	JUI 26	7:17	BE	Bongo		185	50 31 44	127 40 18	123	110					
		7:24	BE				50 31 39	127 40.24		115					
		7:28	BE	CTD		186	50 31 37	127 40.31	105	115		1	BOT @ 10m		SAL/MUTS
		7:30	BE				50 31 36	127 40 35							
		7:45	BE	TRawl		187	50 31 04	127 40.94			SURFACE	TOW			
19	JUI 27	9:36	BE	CTD		188	50 29 85	127 44.88	100	114		1	BOT @ 10m		SAL/MUTS.
		9:42	BE				50 29 82	127 44.90							
		9:44	BE	Bongo		189	50 29 82	127 44.93	100	113					
		9:49	BE				50 29 80	127 44.99							
		9:54	BE	TRawl		190	50 29.66	127 45.77			SURFACE	TOW			
19	JUI 28	10 47	BE	Bongo		191	50 29.00	127 50.76	177	150					
		10 55	BE				50 29 02	127 50.87							
		11 01	BE	CTD		192	50 29.04	127 50.93	175	150		1	BOT @ 10m		SAL/MUTS.
		11 09	BE				50 29 08	127 51.05							
		11 18	BE	TRawl		193	50 28 87	127 51.76			SURFACE	TOW			

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
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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>October</i>				Year <i>2007</i>				Ship <i>CGC Viking</i>				Cruise ID <i>2007-65</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	VI 29	12 03	BE	CTD		194	50 28.21	127 57.23	141	128		1	BOT @ 10m		SAR/MOTS
		12 10	EN				50 28.23	127 57.32							
		12 12	BE	Bongo		195	50 28.22	127 57.32	136	125					
		12 19	EN				50 28.23	127 57.35							
		12 29	BE	TRAWL		196	50 27.67	127 57.42							
											SURFACE		Tow		
19	VI 22	13 20	BE	Bongo		197	50 24.83	128 00.30	185	150					
		13 29	EN				50 24.91	128 00.36							
		13 34	BE	CTD		198	50 24.97	128 00.32	178	150		1	BOT @ 10m		SAR/MOTS
		13 42	EN				50 25.05	128 00.25							
		13 49	BE	TRAWL		199	50 24.85	128 00.82							
											SURFACE		Tow		
19	VI 23	15:04	BE	CTD		200	50 25.42	128 08.21	53	40		1	BOT @ 10m		SAR/MOTS
		15:06	EN				50 25.47	128 08.31							
		15:18	BE	TRAWL		201	50 25.63	128 09.14							
											SURFACE		Tow		
19	VI 24	16:39	BE	CTD		202	50 31.33	128 18.62	80	65		1	BOT @ 10m		SAR/MOTS
		16:42					50 31.47	128 18.71							
		16:54		TRAWL		203	50 32.42	128 17.36							
													Tow		AT 15m

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
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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>January</i>				Year <i>2007</i>			Ship <i>CGC. Vixen Storm</i>				Cruise ID <i>2007-65</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	TBC001	7:15	BE	CTD		204	51 18 45	127 14 45	320	150		1	BOT @ 10m		SAH/MUTS
		7:19	EN				51 18 43	127 14 55							
		7:20	BE	BONGO		205	51 18 43	127 14 57	322	150					
		7:29	EN				51 18 42	127 14 54							
		7:37	BE	TRAWL		206	51 18 35	127 15 56			SURFACE TOW				
20	TBC02	8:31	BE	BONGO		207	51 18 14	127 22 70	333	150					
		8:38	EN				51 18 16	127 22 79							
		8:44	BE	CTD		208	51 18 18	127 22 84	274	150		1	BOT @ 10m		SAH/MUTS
		8:55	EN				51 18 20	127 22 97							
		9:00	BE	TRAWL		209	51 18 316	127 23 76			SURFACE TOW				
20	TBC03	9:54	BE	CTD		210	51 18 90	127 31 23	214	150		1	BOT @ 10m		SAH/MUTS
		10:03	EN				51 18 94	127 31 41							
		10:06	BE	BONGO		211	51 18 94	127 31 47	226	150					
		10:14	EN				51 18 97	127 31 64							
		10:23	BE	TRAWL		212	51 18 98	127 32 54			SURFACE TOW				

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

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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		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
20	IB104	12:57	BE	Bottle		213	51 26.06	127 46 09	155	145					
		13:01	BE				51 26.03	127 46.05							
		13:07	BE	CTD		214	51 26.01	127 46 05	156	145		1	BOT @ 10m	SAL/NOTE	
		13:14	BE				51 25 96	127 46 05							
		13:21	BE	TRAWL		215	51 25 93	127 45 42							
											SURFACE TOW				
20	IB105	14:16	BE	CTD		216	51 26.70	127 38.70	237	150		1	BOT @ 10m	SAL/NOTE	
		14:25	BE				51 26.68	127 38.85							
		14:27	BE	Bottle		217	51 26.65	127 38.86	234	150					
		14:35	BE				51 26.61	127 38.94							
		14:44	BE	TRAWL		218	51 26 89	127 38 37							
											SURFACE TOW				
20	IB106	15:38	BE	Bottle		219	51 30.56	127 33.78	310	150					
		15:46	BE				51 30.53	127 33.82							
		15:51	BE	CTD		220	51 30.48	127 33.86	310	150		1	BOT @ 10m	SAL/NOTE	
		16:00	BE				51 30.43	127 33.90							
		16:09	BE	TRAWL		221	51 30.75	127 33.57							
											SURFACE TOW				

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
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 <i>October</i>				Year <i>2007</i>			Ship <i>CGV VIKING SQUAD</i>		Cruise ID <i>2007-65</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>20</i>	<i>IBL07</i>	<i>17:03</i>	<i>BE</i>	<i>CTD</i>		<i>222</i>	<i>51 35.20</i>	<i>127 32.07</i>	<i>325</i>	<i>150</i>		<i>1</i>	<i>300 @ 10m</i>		<i>SAL/NOTS</i>
		<i>17:11</i>	<i>BE</i>				<i>51 35.17</i>	<i>127 32.06</i>							
		<i>17:14</i>	<i>BE</i>	<i>BUNAO</i>		<i>223</i>	<i>51 35.17</i>	<i>127 32.05</i>	<i>325</i>	<i>150</i>					
		<i>17:22</i>	<i>BE</i>				<i>51 35.14</i>	<i>127 32.04</i>							
		<i>17:30</i>	<i>BE</i>	<i>TRAWL</i>		<i>224</i>	<i>51 35 00</i>	<i>127 31 84</i>							<i>SURFACE TOW.</i>
<i>21</i>	<i>IBL08</i>	<i>7:06</i>	<i>BE</i>	<i>CTD</i>		<i>225</i>	<i>52 40 82</i>	<i>128 58 23</i>	<i>166</i>	<i>150</i>		<i>1</i>	<i>300 @ 10m</i>		<i>SAL/NOTS*</i>
		<i>7:15</i>	<i>BE</i>				<i>52 40 81</i>	<i>128 58 45</i>							
		<i>7:28</i>	<i>BE</i>	<i>TRAWL</i>		<i>226</i>	<i>52 41 12</i>	<i>128 59 10</i>							<i>SURFACE TOW.</i>
<i>21</i>	<i>IBL09</i>	<i>8:29</i>	<i>BE</i>	<i>CTD</i>		<i>227</i>	<i>52 45 42</i>	<i>129 6.89</i>				<i>1</i>	<i>300 @ 10m</i>		<i>NOTS.</i>
		<i>8:36</i>	<i>BE</i>				<i>52 45 50</i>	<i>129 6.83</i>							
		<i>8:44</i>	<i>BE</i>	<i>TRAWL</i>		<i>228</i>	<i>52 46 05</i>	<i>129 4.70</i>							<i>SURFACE TOW.</i>
<i>21</i>	<i>IBL10</i>	<i>11:12</i>		<i>CTD</i>		<i>229</i>	<i>53 4.96</i>	<i>129 12.60</i>	<i>237</i>	<i>150</i>		<i>1</i>	<i>300 @ 10m</i>		<i>SAL/NOTS</i>
							<i>53 5.10</i>	<i>129 12.80</i>							
		<i>11:28</i>		<i>TRAWL</i>		<i>230</i>	<i>53 5.14</i>	<i>129 11.67</i>							<i>SURFACE TOW.</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

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Additional comments

* SAMPLING WILL NOW BE TAKEN EVERY 2ND CTD CAST, EXCEPT ON THE
HUMPS STRIP, TINKLE ISLAND, AND FORESTER ISLAND TRANSECTS. ON THESE
OCEANOGRAPHIC TRANSECTS, SAMPLING WILL BE TAKEN AT EVERY STATION.
* WINDS SE 15 KNOTS, DONGOS CANCELLED.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2007</i>				Ship <i>CFV Viking Sevm.</i>				Cruise ID <i>2007-65</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
21	IBC11	12:27	BE	CTD		231	53 9.21	129 7.62	543	150		1	BOT@	10m	NOTS
		12:35	EN				53 9.42	129 7.62							2.0 km DRIFT
		12:42	BE	TRAWL		232	53 10.19	129 7.61			SURFACE		TOW		
21	IBC12	13:40	BE	CTD		233	53 15 93	129 8 18	523	150		1	BOT@	10m	SAL / NUTS
		13:48	EN				53 16 01	129 8 09							
		13:50	BE	BONGO		234	53 16 00	129 8 06	523	150					
		13:59	EN				53 16 04	129 8 03							
		14:09	BE	TRAWL		235	53 17 00	129 8 55							TOW @ 15m
21	IBC13	15:16	BE	CTD		236	53 22 55	129 11 62	452	150		1	BOT@	10m	NUTS
		15:24	EN				53 22 54	129 11 37							
		15:25	BE	BONGO		237	53 22 61	129 11 34	392	150					
		15:35	EN				53 22 59	129 11 06							
		15:44	BE	TRAWL		238	53 22 46	129 11 06							TOW @ 15m
21		16:33	BE	CTD		239	53 22 42	129 11 09	499	150					
		16:40	EN				53 22 40	129 11 07							
		16:50	BE	CTD		240	53 22 40	129 11 07							

Cast type:

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

USW = sea water loop

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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 <u>OCTOBER</u>				Year <u>2007</u>				Ship <u>CFV VIKING STORM</u>				Cruise ID <u>2007-65</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							
21	IBC14	1638	BE	Bottle		239	53 29 45	129 12 16	369	150					
		1646	EN				53 29 45	129 12 17							
		1650	BE	CTD		240	53 29 48	129 12 17	370	150		1			Bot @ 10m Sal/NUTS
		1659	EN				53 29 51	129 12 19							
		1708	BE	TRAWL		241	53 29 39	129 12 50		TOW AT	15m				
21	IBC15	1802	BE	TRAWL		242	53 34 91	129 12 85		SURFACE TOW					
22	IBC16	7:11	BE	CTD		243	53 38 39	129 11 31	372	150		1			Bot @ 10m SAL/NUTS
		7:20	EN				53 38 38	129 11 35							
		7:22	BE	Bottle		244	53 38 36	129 11 36	372	150					
		7:30	EN				53 38 34	129 11 40							
		7:43	BE	TRAWL		245	53 38 84	129 10 45		SURFACE TOW					
22	IBC17	0840	BE	Bottle		246	53 42 94	129 04 80	378	150					
		0848	EN				53 42 97	129 04 76							
		0853	BE	CTD		247	53 42 97	129 04 71	380	150		1			Bot @ 10m NUTS
		0901	EN				53 49 96	129 04 63							
		0910	BE	TRAWL		248	53 43 32	129 03 70		TOW AT	15m				

Cast type:

BOT = bottle cast, no CTD
CTD = CTD without Rosette
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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			
OCTOBER				2007			CFV VIKING STORM					2007-65			
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	J13C18	10 11	BE	CTD		249	53 46 38	128 55 52	362	150		1			BOT @ 10 M SAL/NUTS
		10 20	EN				53 46 41	128 55 56							
		10 23	BE	Bongo		250	53 46 42	128 55 57	360	150					
		10 40	BE	Trans.		251	53 46 91	128 54 76	361				SURFACE	Tow	
22	J13C19	12 00	BE	Bongo		252	53 52 89	128 45 10	286	150					
		12 15	BE	CTD		253	53 52 72	128 45 30	290	150		1			BOT @ 10 M NUTS
		12 23	EN				53 52 63	128 45 44							
		12 32	BE	Trans.		254	53 52 20	128 46 13	298				SURFACE	Tow	
22	J13C20	13 35	BE	CTD		255	53 46 35	128 49 63	305	150		1			BOT @ 10 M SAL/NUTS
		13 43	EN				53 46 21	128 49 77	321						
		13 45	BE	Bongo		256	53 46 16	128 49 82	324	150					
		14 02	BE	Trans.		257	53 45 45	128 49 80	289				SURFACE	Tow	
22	J13C21	15:11	BE	Bongo		258	53 38 95	128 52.13	232	150					
		15:23	BE	CTD		259	53 38 87	128 52.04	196	150		1			BOT @ 10 M NUTS
		15:32	EN				53 38 82	128 52.01							
		15 40	BE	Trans.		260	53 38 31	128 51 66	163				SURFACE	Tow	
Cast type:				IISW = 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
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bottle firing method:
US = up/stop
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Time Code

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EN = end time of cast

DE = deployment time
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Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>OCTOBER</u>				Year <u>2007</u>				Ship <u>CTV VIKING STORM</u>				Cruise ID <u>2007-65</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							
22	IBC 22	16:43	BE	CTD		261	53 36	128 41	161	150.		1	BOT	10m	SAL/MOTS
		16:52	EN				53 32	128 52							
		16:54	BE	BONGO		262	53 32	128 52	164						
		17:11	BE	TRAWL		263	53 32 27	128 53 24	191		SURFACE		Tow		
23	IBC 23	7:07	BE	BONGO		264	53 48 70	130 18.92	205	150					
		7:18	BE	CTD		265	53 48 87	130 19.06	219	150		1	BOT	10m	SAL/MOTS
		7:29	EN				53 48 99	130 19.24							
		7:38	BE	TRAWL		266	53 49 53	130 19 03			SURFACE		Tow		
23	IBC 24	08:35	BE	CTD		267	53 54.18	130 15.63	282	150		1	BOT	10m	MOTS.
		08:43	EN				53 54.22	130 15.68							
		08:45	BE	BONGO		268	53 54.22	130 15.70	295	150					
		08:54	EN				53 54.19	130 15.73							
		09:03	BE	TRAWL		269	53 54 51	130 15 26	214		SURFACE		Tow		
23	IBC 25	10:00	BE	BONGO		270	53 59 28	130 12 08	96	*	APPROXIMATE POSITIONS				
		10:05	BE	CTD		271	53 59 28	130 12 08	96	*		1	BOT	10m	SAL/MOTS
		10:18		TRAWL		272	53 59 79	130 12 85	118		SURFACE		Tow		

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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DN = down/no stop

Time Code

BE = beginning time of cast
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Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>OCTOBER</u>				Year <u>2007</u>				Ship <u>CFV VIKING STORM</u>				Cruise ID <u>2007-65</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	ITBC26	11:21	BE	CTD		273	54 04.70	130 18.87	103	90		/	Bot @ 10m		NETS
		11:25	EN				54 04.78	130 18.80							
			BE	BONGO		274									
		11:53	BE	TRAWL		274	54 05 22	130 19 50	121		SURFACE	TOW			BONGO CANCELLED DUE TO SE 45 WINDS
23	ITBC27	12:34	BE	CTD		275	54 07 27	130 27.93	104	85		/	Bot @ 10m		SAL/NETS
		12:39	EN				54 07 35	130 27.91							
		12:42	BE	TRAWL		276	54 07 15	130 28.21			SURFACE	TOW			
23	ITBC28	13:47	BE	CTD		277	54 07 45	130 34 87	76	65		/	Bot @ 10m		NETS
		13:53	EN				54 07 40	130 34 94							
		14:01	BE	TRAWL		278	54 07 97	130 34 73			SURFACE	TOW			
23	ITBC29	15:02	BE	CTD		279	54 10 33	130 28 14	90	102		/	Bot @ 10m		SAL/NETS
		15:07	EN				54 10 37	130 28 00							
		15:22	BE	TRAWL		280	54 10 06	130 27 80	96		TOW	AT 5m			

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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Additional comments

* BOW GO TOWS CANCELLED DUE TO HIGH WIND SPEEDS. (APPROX) 45-50 KTS. SE.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>OCTOBER</u>				Year <u>2007</u>				Ship <u>CTU VIKING STORM</u>				Cruise ID <u>2007-65</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	IBC 30	7:07	BE	CTD		281	55 7.04	129 56.95	430	150		1			BOT @ 10m SAM/NETS *
		7:16	EN				55 7.11	129 56.93							
		7:18	BE	BONGO		282	55 7.13	129 56.93		150					
		7:43	BE	TRAWL		283	55 6.83	129 54.23							SURFACE TOW
25	IBC 31	9:04	BE	BONGO		284	54 59.75	130 2.77	195	150					
		9:17	BE	CTD		285	54 59.83	130 2.52	216	150					NO WATER SAMPLES
		9:26	EN				54 59.90	130 2.43							TAKEN
		9:34	BE	TRAWL		286	54 59.67	130 2.89	210						
25	IBC 32	11:06	BE	CTD		287	54 51.75	130 12.20	436	150		1			BOT @ 10m SAM/NETS
		11:14	EN				54 51.84	130 12.19							
		11:18	BE	BONGO		288	54 51.90	130 12.17							
		11:36	BE	TRAWL		289	54 51.64	130 12.89							SURFACE TOW

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Additional comments

* NEW BATTERIES HAVE BEEN PUT INTO THE SBE23

* IBC 32 - CTD NOT TURNED OFF AFTER CAST, LEFT ON FOR 1 HR, STOPPED FOR 1 MIN & RESTARTED FOR IBC 33

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>OCTOBER</i>				Year <i>2007</i>				Ship <i>CFV VIKING STORM</i>				Cruise ID <i>2007-65</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>25</i>	<i>IBL33</i>	<i>12:31</i>	<i>BE</i>	<i>BONGO</i>		<i>290</i>	<i>54 47 74</i>	<i>130 17.76</i>	<i>479</i>	<i>150*</i>					<i>* ACTUAL DEPTH = 120m, BIG WIRE ANGLE</i>
		<i>12:48</i>	<i>BE</i>	<i>CTD</i>		<i>291</i>	<i>54 47 76</i>	<i>130 17.49</i>	<i>526</i>	<i>150</i>					<i>NO WATER SAMPLES TAKEN</i>
		<i>12:56</i>	<i>EN</i>				<i>54 48 04</i>	<i>130 17.34</i>							
		<i>13:03</i>	<i>BE</i>	<i>TRAWL</i>		<i>292</i>	<i>54 47 81</i>	<i>130 17.84</i>			<i>SURFACE</i>	<i>Tow</i>			
<i>25</i>	<i>IBL34</i>	<i>14:05</i>	<i>BE</i>	<i>CTD</i>		<i>293</i>	<i>54 44 02</i>	<i>130 24.53</i>	<i>540</i>	<i>150</i>		<i>1</i>	<i>Bot @ 10m</i>		<i>SAL / NUTS</i>
		<i>14:13</i>	<i>EN</i>				<i>54 44 05</i>	<i>130 24.50</i>							
		<i>14:15</i>	<i>BE</i>	<i>BONGO</i>		<i>294</i>	<i>54 44 06</i>	<i>130 24.49</i>							
		<i>14:31</i>	<i>BE</i>	<i>TRAWL</i>		<i>295</i>	<i>54 43 65</i>	<i>130 25.15</i>			<i>SURFACE</i>	<i>Tow</i>			
<i>25</i>	<i>IBL35</i>	<i>15:48</i>	<i>BE</i>	<i>BONGO</i>		<i>296</i>	<i>54 40 90</i>	<i>130 36.08</i>	<i>220</i>	<i>150</i>					
		<i>15:57</i>	<i>BE</i>	<i>CTD</i>		<i>297</i>	<i>54 41 01</i>	<i>130 35.92</i>	<i>202</i>	<i>150</i>					<i>NO WATER SAMPLES TAKEN</i>
		<i>16:04</i>	<i>EN</i>				<i>54 41 03</i>	<i>130 35.79</i>							
		<i>16:13</i>	<i>BE</i>	<i>TRAWL</i>		<i>298</i>	<i>54 41 14</i>	<i>130 36.52</i>			<i>SURFACE</i>	<i>Tow</i>			
<i>26</i>	<i>PSKA01</i>	<i>7:29</i>	<i>BE</i>	<i>CTD</i>		<i>299</i>	<i>56 11 45</i>	<i>132 48.19</i>	<i>97</i>	<i>85</i>		<i>1</i>	<i>Bot @ 10m</i>		<i>SAL / NUTS</i>
		<i>7:33</i>	<i>EN</i>				<i>56 11.50</i>	<i>132 48.32</i>							
		<i>7:36</i>	<i>BE</i>	<i>BONGO</i>		<i>300</i>	<i>56 11.54</i>	<i>132 48.35</i>	<i>50</i>	<i>84</i>					
		<i>7:49</i>	<i>BE</i>	<i>TRAWL</i>		<i>301</i>	<i>56 11.95</i>	<i>132 48.51</i>							

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

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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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Additional comments

→ CHECK TO MAKE SURE IBC 33 CAST IS NOT INCLUDED = IBC 32 CAST

WE ARE STILL RECORDING IN PDT TIME

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>OCTOBER</i>				Year <i>2007</i>				Ship <i>CFV VIKING STORM</i>				Cruise ID <i>2007-65</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>ISKA02</i>	<i>0856</i>	<i>BE</i>	<i>Bottom</i>		<i>302</i>	<i>56 15.61</i>	<i>132 38.65</i>	<i>314</i>	<i>150</i>					
		<i>0904</i>	<i>BE</i>	<i>CTD</i>			<i>56 15 56</i>	<i>132 38.63</i>							<i>NO WATER SAMPLES</i>
		<i>0909</i>	<i>BE</i>			<i>303</i>	<i>56 15 64</i>	<i>132.38.60</i>	<i>313</i>	<i>150</i>					
		<i>0927</i>	<i>BE</i>	<i>Trawl</i>		<i>304</i>	<i>56 16 29</i>	<i>132 38 11</i>			<i>SURFACE</i>	<i>Tow</i>			
<i>26</i>	<i>ISKA03</i>	<i>1018</i>	<i>BE</i>	<i>CTD</i>		<i>305</i>	<i>56 20.24</i>	<i>132 35.48</i>	<i>285</i>	<i>150</i>		<i>1</i>	<i>BE @ 10m</i>		<i>SAL/NOTS</i>
		<i>1027</i>	<i>BE</i>				<i>56 20.28</i>	<i>132 35.59</i>							
		<i>1029</i>	<i>BE</i>	<i>Bottom</i>		<i>306</i>	<i>56 20.29</i>	<i>132 35.61</i>	<i>283</i>	<i>150</i>					
		<i>1046</i>	<i>BE</i>	<i>Trawl</i>		<i>307</i>	<i>56 20 29</i>	<i>132 35 55</i>			<i>SURFACE</i>	<i>Tow</i>			
<i>26</i>	<i>ISKA04</i>	<i>1154</i>	<i>BE</i>	<i>Bottom</i>		<i>308</i>	<i>56 20.74</i>	<i>132 31.06</i>	<i>183</i>	<i>150</i>					
		<i>1206</i>	<i>BE</i>	<i>CTD</i>		<i>309</i>	<i>56 20.82</i>	<i>132 30.91</i>	<i>179</i>	<i>150</i>					<i>NO WATER SAMPLES</i>
		<i>1216</i>	<i>BE</i>				<i>56 20 84</i>	<i>132 30 85</i>							
		<i>1224</i>	<i>BE</i>	<i>Trawl</i>		<i>310</i>	<i>56 20 90</i>	<i>132 30 01</i>			<i>SURFACE</i>	<i>Tow</i>			
<i>26</i>	<i>ISKA05</i>	<i>1352</i>	<i>BE</i>	<i>CTD</i>		<i>311</i>	<i>56 27 55</i>	<i>132 28.25</i>	<i>174</i>	<i>150</i>		<i>1</i>	<i>BE @ 10m</i>		<i>SAL/NOTS</i>
		<i>1406</i>	<i>BE</i>				<i>56 27 56</i>	<i>132 28 33</i>							
		<i>1406</i>	<i>BE</i>	<i>Bottom</i>		<i>312</i>	<i>56 27 55</i>	<i>132 28 39</i>							
		<i>1421</i>	<i>BE</i>	<i>Trawl</i>		<i>313</i>	<i>56 27 97</i>	<i>132 29 20</i>			<i>SURFACE</i>	<i>Tow</i>			

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
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DN = down/no stop

Time Code
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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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>OCTOBER</i>			Year <i>2007</i>			Ship <i>CFV VIKING STORM</i>			Cruise ID <i>2007-65</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>ISEA06</i>	<i>1529</i>	<i>DE</i>	<i>BONGLO</i>		<i>314</i>	<i>56 31 00</i>	<i>132 40.27</i>	<i>68</i>	<i>65</i>					
		<i>1535</i>	<i>BE</i>	<i>CTD</i>		<i>315</i>	<i>56 31 06</i>	<i>132 40.35</i>							<i>NO WATER SAMPLES</i>
		<i>1538</i>	<i>EN</i>				<i>56 31 07</i>	<i>132 40.47</i>	<i>62</i>	<i>80</i>					
		<i>1546</i>	<i>BE</i>	<i>TRAWL</i>		<i>316</i>	<i>56 30 77</i>	<i>132 40.83</i>			<i>SURFACE</i>	<i>TOW</i>			
<i>26</i>	<i>ISEA07</i>	<i>1634</i>	<i>BE</i>	<i>CTD</i>		<i>317</i>	<i>56 28 58</i>	<i>132 46.99</i>	<i>127</i>	<i>115</i>		<i>1</i>	<i>130 @ 10m</i>		<i>SAL / MUTE</i>
		<i>1641</i>	<i>EN</i>				<i>56 28 61</i>	<i>132 47.00</i>							
		<i>1644</i>	<i>BE</i>	<i>BONGLO</i>		<i>318</i>	<i>56 28 61</i>	<i>132 47 03</i>	<i>127</i>	<i>115</i>					
		<i>1650</i>	<i>BE</i>	<i>TRAWL</i>		<i>319</i>	<i>56 28 58</i>	<i>132 47.128</i>			<i>SURFACE</i>	<i>TOW</i>			
<i>27</i>	<i>ISEA08</i>	<i>7:04</i>	<i>BE</i>	<i>BONGLO</i>		<i>320</i>	<i>56 29 48</i>	<i>132 54 11</i>	<i>110</i>	<i>124</i>					
		<i>7:15</i>	<i>BE</i>	<i>CTD</i>		<i>321</i>	<i>56 29 46</i>	<i>132 54 01</i>	<i>110</i>	<i>124</i>		<i>1</i>	<i>60 @ 10m</i>		<i>SAL / MUTE</i>
		<i>7:21</i>	<i>EN</i>				<i>56 29 46</i>	<i>132 54 02</i>							
		<i>7:42</i>	<i>BE</i>	<i>TRAWL</i>		<i>322</i>	<i>56 29 19</i>	<i>132 54 25</i>		<i>11</i>	<i>SURFACE</i>	<i>TOW</i>			
<i>27</i>	<i>ISEA09</i>	<i>0851</i>	<i>BE</i>	<i>CTD</i>		<i>323</i>	<i>56 25.87</i>	<i>133 05.50</i>	<i>63</i>	<i>50</i>					<i>NO WATER SAMPLES</i>
		<i>0854</i>	<i>EN</i>				<i>56 25.89</i>	<i>133 05.53</i>							
		<i>0856</i>	<i>BE</i>	<i>BONGLO</i>		<i>324</i>	<i>56 25 90</i>	<i>133 05.49</i>	<i>62</i>	<i>50</i>					
		<i>0907</i>	<i>BE</i>	<i>TRAWL</i>		<i>325</i>	<i>56 25 64</i>	<i>133 05 87</i>	<i>55</i>		<i>SURFACE</i>	<i>TOW</i>			

Cast type:

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bottle firing method:

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2007</i>				Ship <i>CGV VIKING</i>				Cruise ID <i>2007-65</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							
27	ISEA10	1024	BE	Bongo		326	5622.28	133 17 0	234	150					
		1036	BE	CTD		327	56 22 34	133 16 78	216	150		1	Bot @ 10m		SAL/NUTS.
		1045	EN				56 22 40	133 16 62.							
		1052	BE	Trawl		328	56 22 42	133 17 22			SURFACE		Tow.		
27	ISEA11	1148	BE	CTD		329	56 22 42	133 25 97	354	150					NO WATER SAMPLES.
		1156	EN				56 22 39	133 25 99							
		1158	BE	Bo460.		330.	56 22 39	133 25 98	354	150					
		1214	BE	Trawl		331	56 22 38	133 26 97			SURFACE		Tow.		
27	ISEA12	1305	BE	Bongo		332	56 23 38	133 34 70	374	150					
		1317	BE	CTD		333	56 23 36	133 34 38	317	150		1	Bot @ 10m.		SAL/NUTS.
		1326	EN				56 23 44	133 34 11							
		13:33	BE	TRAWL.		334.	56 23 34	133 34 76.			SURFACE		Tow.		
27	ISEA13	14:53	BE	CTD		335	56 18 01	133 42 65	244	150					NO WATER SAMPLES.
		15:01	EN				56 18 13	133 42 73.							
		15:03	BE	Bongo		336	56 18 17	133 42 76		150					
		15:21	BE	TRAWL		337	56 18 09	133 42 70			SURFACE		Tow.		

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2007</i>				Ship <i>OPV. Viking Storm</i>				Cruise ID <i>2007-65</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
27	ISSEA14	16:12	BE	BONGO		338	56 11.98	133 43.97	329	150					
		16:33	BE	CTD		339	56 12.00	133 44.14	322	150		1	BOT @ 10m		SAL/NOTS
		16:42	EN				56 12.02	133 44.33							
		16:58	BE	TRAWL		340	56 11.09	133 44.95	313		TOW AT	15m			
27	ISSEA15	17:53	BE	CTD		341	56 06.17	133 46.31	200	150					NO WATER SAMPLES
		18:01	EN				56 06.10	133 46.34	1						
		18:03	BE	BONGO		342	56 06.05	133 46.35	187	150					
		18:21	BE	TRAWL		343	56 05.13	133 46.74							
											TOW AT	15m			
28	F101	07:41	BE	BONGO		344	54 42.41	133 03.6	138	130					
		07:53	BE	CTD		345	54 48.00	133 03.92				1	BOT @ 10m		SAL/NOTS/CAL
		07:59	EN				54 47.64	133 04.00							
		08:08	BE	TRAWL		346	54 47.49	133 04.00			SURFACE	TOW			
28	F102	08:56	BE	CTD		347	54 46.42	133 10.97	193	150		1	BOT @ 10m		SAL/NOTS/CAL
		09:05	EN				54 46.49	133 11.05							
		09:07	BE	BONGO		348	54 46.50	133 11.07	196	150					
		09:25	BE	TRAWL		349	54 46.47	133 12.05			SURFACE	TOW			

Cast type:

BOT = bottle cast, no CTD
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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>OCTOBER</i>				Year <i>2007</i>			Ship <i>CGO. VIKING STORM</i>				Cruise ID <i>2007-65</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>28</i>	<i>FI03</i>	<i>1017</i>	<i>BE</i>	<i>BONGO</i>		<i>350</i>	<i>54 45.94</i>	<i>133 18.65</i>	<i>116</i>	<i>100</i>					
		<i>1026</i>	<i>BE</i>	<i>CTD</i>		<i>351</i>	<i>54 46.02</i>	<i>133 18.53</i>	<i>118</i>	<i>100</i>		<i>1</i>	<i>BOT @ 10m</i>		<i>SAL / NUTS / CHL</i>
		<i>1029</i>	<i>EN</i>				<i>54 46.10</i>	<i>133 18.8</i>							
		<i>1040</i>	<i>BE</i>	<i>TRAWL</i>		<i>352</i>	<i>54 46.09</i>	<i>133 19.02</i>			<i>SURFACE</i>		<i>TOW</i>		
<i>28</i>	<i>FI04</i>	<i>11:39</i>	<i>BE</i>	<i>CTD</i>		<i>353</i>	<i>54 45.19</i>	<i>133 26.39</i>	<i>130</i>	<i>143</i>		<i>1</i>	<i>BOT @ 10m</i>		<i>SAL / NUTS / CHL</i>
		<i>1146</i>	<i>EN</i>				<i>54 45.25</i>	<i>133 26.31</i>							<i>1.7 Ks Tide</i>
		<i>11:48</i>	<i>BE</i>	<i>BONGO</i>		<i>354</i>	<i>54 45.28</i>	<i>133 26.24</i>	<i>120</i>						
		<i>12:02</i>	<i>BE</i>	<i>TRAWL</i>		<i>355</i>	<i>54 45.12</i>	<i>133 26.48</i>			<i>SURFACE</i>		<i>TOW</i>		
<i>28</i>	<i>FI05</i>	<i>13:18</i>	<i>BE</i>	<i>BONGO</i>		<i>356</i>	<i>54 44.24</i>	<i>133 34.45</i>	<i>196</i>	<i>150</i>		<i>1</i>	<i>BOT @ 10m</i>		<i>SAL / NUTS / CHL</i>
		<i>13:24</i>	<i>BE</i>	<i>CTD</i>		<i>357</i>	<i>54 44.27</i>	<i>133 34.14</i>		<i>150</i>					<i>0.9 Ks</i>
		<i>13:32</i>	<i>EN</i>				<i>54 44.27</i>	<i>133 33.92</i>							
		<i>13:42</i>	<i>BE</i>	<i>TRAWL</i>		<i>358</i>	<i>54 44.15</i>	<i>133 34.56</i>			<i>SURFACE</i>		<i>TOW</i>		
<i>28</i>	<i>FI06</i>	<i>14:37</i>	<i>BE</i>	<i>CTD</i>		<i>359</i>	<i>54 43.94</i>	<i>133 42.00</i>	<i>222</i>	<i>150</i>		<i>1</i>	<i>BOT @ 10m</i>		<i>SAL / NUTS / CHL</i>
		<i>14:46</i>	<i>EN</i>			<i>360</i>	<i>54 43.98</i>	<i>133 42.02</i>							
		<i>14:47</i>	<i>BE</i>	<i>BONGO</i>		<i>360</i>	<i>54 43.90</i>	<i>133 42.01</i>							
		<i>15:05</i>	<i>BE</i>	<i>TRAWL</i>		<i>361</i>	<i>54 43.89</i>	<i>133 43.15</i>			<i>SURFACE</i>		<i>TOW</i>		

Cast type:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>OCTOBER</i>				Year <i>2007</i>				Ship <i>CAV Viking Storm</i>				Cruise ID <i>2007-65</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	D406	7:11	BE	BOMBO		362	54 14.52	132 55.62	121	110					
		7:20	BE	CTD		363	54 14.71	132 55.58		110		1	BOT @ 10m		SAL/NOTES/CHL
		7:26	EN				54 14.8	132 55.53							
		7:34	BE	TRAWL		364	54 14.79	132 54.84					SURFACE TOW		
29	D405	0846	BE	CTD		365	54 10.75	132 45.71	58	50		1	BOT @ 10m		SAL/NOTES/CHL
		0848	BE				54 10.73	132 45.65							
		0850	BE	BOMBO		366	54 10.72	132 45.60	57	45					
		0906	BE	TRAWL		367	54 10.53	132 44.44	55				SURFACE TOW		
29	D404	10:29	BE	BOMBO		368	54 07.88	132 28.54	48	1					
		10:34	BE	CTD		369	54 07.94	132 28.41				1	BOT @ 10m		SAL/NOTES/CHL
		10:37	EN				54 07.96	132 28.339							
		10:46	BE	TRAWL		370	54 08.10	132 27.22							
29	D403	12:08	BE	CTD		371	54 08.37	132 11.5	35	41m		1	BOT @ 10m		SAL/NOTES/CHL
		12:09	EN				54 08.37	132 11.5							
		12:11	BE	BOMBO		372	54 8.38	132 11.4							
		12:32	BE	TRAWL		373	54 8.99	132 10.30					SURFACE TOW		

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DAILY LOG

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INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>				Year <i>2007</i>			Ship <i>CGV Viking Storm</i>				Cruise ID <i>2007-65</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
29	DE02	13:40	BE	BONGO		374	54 8.54	131 57 63	30	45					
		13:46	BE	CTD		375	54 8.58	131 57 49	40	46		1	BOT @ 10m		SAL/NUTS/CHL
		13:48	EN				54 8.59	131 57 43							1.1 BT DRIFT
		13:55	BE	TRAWL		376	54 8.99	131 56 69							SURFACE TOW
29	DE01	15:38	BE	CTD		377	54 15.58	131 39.83	123	110		1	BOT @ 10m		SAL/NUTS/CHL
		15:44	EN				54 15.70	131 39.58							
		15:46	BE	BONGO		378	54 15.74	131 39.49							
		16:00	BE	TRAWL		379	54 16 57	131 38 66							SURFACE TOW
29	DE07	17:43	BE	TRAWL		380	54 28 13	131 28 06							SURFACE TOW
		18:25	BE	BONGO		381	54 30.21	131 25.64	131	120					
		18:31	BE	CTD		382	54 30.29	131 25.78	138	120		1	BOT @ 10m		SAL/NUTS
		18:38	EN				54 30.37	131 25.90							
30	IZC 36	7:06	BE	CTD		383	54 13.4	130 45 28	148	130		1	BOT @ 10m		SAL/NUTS
		7:13	EN				54 13.4	130 45 24							
		7:15	BE	BONGO		384	54 13.37	130 45 23	148	134					
		7:37	BE	TRAWL		385	54 13.47	130 44.44	142						SURFACE TOW

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>October</i>		Year <i>2007</i>		Ship <i>CGV Viking Storm</i>		Cruise ID <i>2007-65</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	IBC37	0830	BE	CTD		386	54 14.28	130 31.19	99	90					NO WATER SAMPLE
		0836	EN												
		0842	BE	TRAWL		384	54 14 39	130 36 86			SURFACE TOW				
30	IBC38	0930	BE	CTD		388	54 15 21	130 30 90	77	65?		1	BOT @ 10m		SAL/NOTS
		0942	EN				54 15 26	130 30 94	77						
		0951	BE	TRAWL		389	54 15 03	130 30 58	75		SURFACE TOW				
30	IBC39	10150	BE	CTD		390	54 12.22	130 27 34	95	106					NO WATER SAMPLE
		10:55	BE				54 12 23	130 27 40							
		11:04	EN	TRAWL		391	54 12 13	130 26 99			SURFACE TOW				
31	IBC40	0709	BE	CTD		392	52 48.03	128 26.33	525	150	1 BOT @ 10m				SAL/NOTS
		0716	EN				52 48.05	128 26.42							
		0718	BE	BONGO		393	52 48.03	128 26.39	500	150					
		0739	BE	TRAWL		394	52 47.56	128 26 27			SURFACE TOW				

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>August</i>				Year <i>2007</i>			Ship <i>CGO Viking Storm</i>				Cruise ID <i>2007-65</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	13C41	0851	BE	BONGO		395	52 42 75	128 27 53	524	150					
		0902	BE	CTD		396	52 42 69	128 27 48				1	BE @ 10m		Sal/moss
		0911	BE				52 42 66	128 27 42							
		0918	BE	TRAWL		397	52 42 32	128 27 41			SURFACE		Tow		
31	13C42	10:16	BE	CTD		398	52 38 07	128 27 89	570	150		1	BE @ 10m		Sal/moss
		10:25	BE				52 38 10	128 27 98							
		10:26	BE	BONGO		399	52 38 10	128 27 99		150					
		10:43	BE	TRAWL		400	52 37 69	128 28 09			SURFACE		Tow		
31	13C43	11:43	BE	BONGO		401	52 32 51	128 27 80	700	150					
		11:59	BE	CTD		402	52 32 52	128 27 82		150		1	BE @ 10m		Sal/moss
		12:05	BE				52 32 53	128 27 79							
		12:13	BE	TRAWL		403	52 32 15	128 27 81			SURFACE		Tow		
31	13C44	13:24	BE	CTD		404	52 26 04	128 28 57	492	150		1	BE @ 10m		Sal/moss
		13:33	BE				52 26 1	128 28 47							
		13:48	BE	BONGO		405	52 26 26	128 28 43		150					
		14:05	BE	TRAWL		406	52 26 03	128 28 53			SURFACE		Tow		

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>000302</i>				Year <i>2007</i>				Ship <i>CGV Viking Green</i>				Cruise ID <i>2007-65</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>31</i>	<i>IBL45</i>	<i>15:14</i>	<i>BE</i>	<i>BONMO.</i>		<i>407</i>	<i>52 21.098</i>	<i>128 32.908</i>	<i>238</i>	<i>150</i>					
		<i>15:26</i>	<i>BE</i>	<i>CTD.</i>		<i>408</i>	<i>52 21.08</i>	<i>128 32.78</i>		<i>150</i>		<i>1 Bot @ 10m</i>			<i>SAL/NOTS.</i>
		<i>15:35</i>	<i>EN</i>				<i>52 21.06</i>	<i>128 32.72</i>							
		<i>15:43</i>	<i>BE</i>	<i>TRAWL.</i>		<i>409.</i>	<i>52 20.757</i>	<i>128 33.056</i>			<i>SURFACE</i>		<i>Tow.</i>		
<i>31</i>	<i>IBL46</i>	<i>16:49</i>	<i>BE</i>	<i>CTD</i>		<i>410</i>	<i>52 15 65</i>	<i>128 36.565</i>	<i>241</i>	<i>150</i>		<i>1 Bot @ 10m</i>			<i>SAL/NOTS</i>
		<i>16:57</i>	<i>EN</i>				<i>52 15 726</i>	<i>128 36 263</i>							
		<i>16:58</i>	<i>BE</i>	<i>BONMO.</i>		<i>411</i>	<i>52 15 749</i>	<i>128 36 202</i>		<i>150</i>					
		<i>17:01</i>	<i>BE</i>	<i>TRAWL.</i>		<i>412.</i>	<i>52 15 560</i>	<i>128 36 385</i>			<i>SURFACE</i>		<i>Tow.</i>		
<i>01</i>	<i>H06</i>	<i>7:04</i>	<i>BE</i>	<i>BONMO</i>		<i>413</i>	<i>52 29 026</i>	<i>130 28 57</i>	<i>175</i>	<i>150</i>					
		<i>7:15</i>	<i>BE</i>	<i>CTD</i>		<i>414</i>	<i>52 29.041</i>	<i>130 28 5400</i>	<i>175</i>	<i>150</i>		<i>1 Bot @ 10m</i>			<i>SAL/NOTS/CHLORO</i>
		<i>7:23</i>	<i>EN</i>				<i>52 29.046</i>	<i>130 28 506</i>							
		<i>7:32</i>	<i>BE</i>	<i>TRAWL.</i>		<i>415.</i>	<i>52 28 823</i>	<i>130 27 862</i>		<i>SURFACE</i>		<i>Tow</i>			
<i>01</i>	<i>H05</i>	<i>8:59</i>	<i>BE</i>	<i>CTD</i>		<i>416</i>	<i>52 25.755</i>	<i>130 12.730</i>	<i>323</i>	<i>150</i>		<i>1 Bot @ 10m</i>			<i>SAL/NOTS/CHLORO</i>
		<i>9:08</i>	<i>EN</i>				<i>52 25 819</i>	<i>130 12.616</i>							
		<i>9:09</i>	<i>BE</i>	<i>BONMO</i>		<i>417</i>	<i>52 25.832</i>	<i>130 12.588</i>	<i>325</i>	<i>150</i>					
		<i>9:24</i>	<i>BE</i>	<i>TRAWL.</i>		<i>418</i>	<i>52 25 683</i>	<i>130 11.506</i>			<i>SURFACE</i>		<i>Tow</i>		

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>November</i>				Year <i>2007</i>			Ship <i>CFV Viking Storm</i>				Cruise ID <i>2007-65</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							
01	H04	10:46	BE	BONGO		419	52 22.405	129 54.445	207	150					
		10:58	BE	CTD		420	52 22.451	129 54.240				1 Bot @ 10m			SAT/MOTS/CHORD
		11:04	EN				52 22.523	129 54.119							
		11:13	BE	TRAWL		421	52 22.393	129 56.397			SURFACE TOW				
01	H03	12:37	BE	CTD		422	52 18.881	129 42.389	203	150		1 Bot @ 10m			SAT/MOTS/CHORD
		12:48	EN				52 18.947	129 42.337							
		12:49	BE	BONGO		423	52 18.957	129 42.327							
		13:08	BE	TRAWL		424	52 18.898	129 41.470			SURFACE TOW				
01	H02	14:40	BE	BONGO		425	52 15.69	129 26.83	179	150		1 Bot @ 10m			SAT/MOTS/CHORD
		14:52	BE	CTD		426	52 15.79	129 26.91							
		15:01	EN				52 15.88	129 27.01							
		15:08	BE	TRAWL		427	52 15.71	129 26.51			SURFACE TOW				
01	H01	16:42	BE	CTD		428	52 12.642	129 11.106	162			1 Bot @ 10m			SAT/MOTS/CHORD
		16:55	EN				52 12.740	129 11.191							
		16:57	BE	BONGO		429	52 12.774	129 11.20							
		17:15	BE	TRAWL		430	52 12.84	129 10.66			SURFACE TOW				

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Month <i>November</i>			Year <i>2007</i>				Ship <i>CV Viking Storm</i>				Cruise ID <i>2007-65</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							
02	13C 47	7:03	BE	BOMBO		431	52 19 777	127 29 674	356	150					
		7:03	BE	CTD		432	52 19 674	127 29 839		150		1 Bot @ 10m			SPL/NOTES
		7:29	EN				52 19 196	127 29 95							
		7:35	BE	TRAWL		433	52 19 407	127 30 579			SURFACE	Tow			
02	13C 48	8:42	BE	CTD		434	52 16 465	127 40 155	166	150		1 Bot @ 10m			SPL/NOTES
		8:50	EN				52 16 44	127 40 42							
		8:52	BE	BOMBO		435	52 16 44	127 40 554							
		9:10	BE	TRAWL		436	52 16 16	127 41 74			SURFACE	Tow			
02	13C 49	10:34	BE	BOMBO		437	52 8.84	127 52.39	596	150					
		10:47	BE	CTD		438	52 8.64	127 52.48		150		1 Bot @ 10m			SPL/NOTES
		10:53	EN				52 8.496	127 52.539							
		11:02	BE	TRAWL		439	52 7.96	127 52.63			SURFACE	Tow			
02	13C 50	12:16	BE	CTD		440	52 1.493	127 54.871	288	150		1 Bot @ 10m			SPL/NOTES
		12:24	EN				52 1.437	127 54.83							
		12:25	BE	BOMBO		441	52 1.436	127 54.824							
		12:43	BE	TRAWL		442	52 1.08	127 55.29			SURFACE	Tow			

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INSTITUTE OF OCEAN SCIENCES

Month <i>November</i>				Year <i>2007</i>				Ship <i>CTV Viking Storm</i>				Cruise ID <i>2007-65</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							
02	IBL 51	14:09	BE	BOMBO		443	51 54.62	127 53 32	148	130					
		14:20	BE	CTD		444	51 54 65	127 53.44	141	130		1 BOT @ 10m.			SAL/NUTS.
		14:24	EN				51 54 65	127 53.564							
		14:35	BE	TRAWL		445	51 54 776	127 52.885					SURFACE		TOW
02	IBL 52	16:04	BE	CTD		446	51 59 46	127 40.30	239	150		1 BOT @ 10m.			SAL/NUTS
		16:12	EN				51 59 43	127 40.234							
		16:15	BE	BOMBO		447	51 59 442	127 40.232	237	150					
			BE	TRAWL		448	51 59 91	127 40 02					SURFACE		TOW
02	IBL 53	17:21	BE	TRAWL		449	52 03 69	127 39 576							
		18:01	BE	BOMBO		450	52 06 04	127 38.84	351	150					
		18:14	BE	CTD		451	52 05 83	127 38.90	356	150					
		18:23	EN				52 05.70	127 38.94							
03	IBL 54	7:29	BE	CTD		452	51 50.001	127 56:000	316	150		1 BOT @ 10m			SAL/NUTS.
		7:37	EN				51 50.093	127 56 020							
		7:38	BE	BOMBO		453	51 50.109	127 56.019							
			BE	TRAWL		454	51 49 281	127 56 188					SURFACE		TOW

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_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>November</i>				Year <i>2007</i>				Ship <i>CGV Viking Storm</i>				Cruise ID <i>2007-65</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
03	I3C55	0900	BE	BONAO		455	51 43.64	127 55.65	367	150					
		0911	BE	CTD		456	51 43.775	127 55.792		150		1 Bot @ 10m			SAL/NUTS
		0919	EN				51 43.898	127 55.859							
		0928	BE	TRAWL		457	51 43.56	127 55.83							SURFACE TOW
03	I3C56	1046	BE	CTD		458	51 36.88	127 53.89	362	150		1 Bot @ 10m			SAL/NUTS
		1054	EN				51 36.845	127 53.919							
		1054	BE	BONAO		459	51 36.838	127 54.007							
				TRAWL		460	51 36.356	127 53.790							SURFACE TOW
03	I3C57	1218	BE	BONAO		461	51 31.907	127 51.986	165						
		1230	BE	CTD		462	51 31.88	127 51.828				1 Bot @ 10m			SAL/NUTS
		1238	EN				51 31.862	127 51.815							
		1248	BE	TRAWL		463	51 31.495	127 51.676							SURFACE TOW

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