

# DAILY LOG BOOK

MISSION  
NUMBER

2007-09

DATE:

From: FEB. 27 to: MAR. 27

VESSEL:

W.E. RICHER

PROJECT:

TRUDEL - HIGH SEAS SALMON

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

Captain: STU ALDRIDGE First Officer: DARRYL MINTENING  
 Second Officer: JEFF M'DONALD Third Officer: \_\_\_\_\_

Mission Participants / Agencies: BS/105

Scientific Personnel: Name	Party Chief: Watch	Cabin	Name	Watch	Cabin
MARY THIESS					
CANDACE BOYLE					
TYLER ZUBNOWSKI					
HUGA MACLEN					
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Second leg of Mission: Name	Party Chief: Watch	Cabin	Name	Watch	Cabin
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Data logging computer: \_\_\_\_\_  
 Data acquisition program: PACOSAP F503  
 CTD deck unit make: SEA-BIRD model: 11+ serial number: 0471

Primary CTD  
 Make: SEA-BIRD model: 91 serial number: 0506  
 Primary temperature serial number: 4434  
 Primary conductivity serial number: 2280  
 Secondary temperature serial number: 2710  
 Secondary conductivity serial number: 1764  
 Transmissometer: SEA-TECH Model: \_\_\_\_\_ s/n: 490 DR  
 Fluorometer: Model SEA-POINT Cable gain: 10 x 0.15 s/n: 2224 **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: \_\_\_\_\_ **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		Year		Ship			Cruise ID								
FEB		2007		W.E. RICKER			2007-09								
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	JF 01	1457	BG	CTD		001	48° 18. 11	123° 39.52	136			1	H.M.		T: 7.69 S: 30.65
		1502	BO				48° 18.10	123° 31.50		125					BOT@ 10m - SAL/CAL/NOTS
		1505	GH				48° 18.09	123° 39.53							
		1515	BG	NET		002	48° 18. 01	123° 39. 37		125					BONGO
		1546	BE	TRAWL		003	48 18.306	123 40.537			SURFACE TOW.				TRAWL
28	JF 02	1657	BG	CTD		004	48° 19. 91	123° 50.09	145			1			T: 7.66 S: 30.37
		1700	BO				48° 19. 92	123° 50. 13		135					BOT@ 10m - SAL/CAL/NOTS
		1703	GH				48° 19. 92	123° 50. 15							
		1707	BG	NET		005	48° 19. 89	123° 50.25		135					BONGO
		1728	BE	TRAWL		006	48 20.287	123 52.024			SURFACE TOW.				TRAWL
28	JF 03	1857	BE	CTD		007	48° 23.23	124° 03.90	97			1			T: 7.65 S: 31.05
		1859	BO				48° 23.22	124° 03.92		85					BOT@ 10m - SAL/CAL/NOTS
		1901	GH				48° 23.21	124° 03.94							
		1909	BG	NET		008	48° 23. 17	124° 03. 88	110	100					NET
		1925	BE	TRAWL		009	48 23.363	124 05.048			SURFACE TOW.				TRAWL

Cast type:

BOF = 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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Month		Year		Ship				Cruise ID							
FEB / MARCH		2007		W.E. RICHER				2007-09							
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	JF 04	2132	BG	CTD		010	48° 26.76	124° 18.39	108			1	H.M.		T: 7.73 S: 30.77
		2134	BO				48° 26.76	124° 18.43		100					BOTE 10m - SAL/CAL/NUTS
		2136	CM				48° 26.77	124° 18.46							
		2141	BE	NET		011	48° 26.75	124° 18.48		99					BONGO
		2157	BE	TRAWL		012	48 26.955	124 19.405			SURFACE TOW				TRAWL
28	JF 05	2312	BG	CTD		013	48° 29.89	124° 29.67	157			1			T: 8.34 S: 29.50
		2315	BO				48° 29.87	124° 29.70		145					BOTE 10m - SAL/CAL/NUTS
		2319	CM				48° 29.84	124° 29.75							
		2336	BE	NET		014	48° 29.89	124° 29.76	161	150					BONGO
		2353	BE	TRAWL		015	48 30 163	124 30 893			SURFACE TOW				TRAWL
<del>_____</del>															
1	VI 01	0136	BG	CTD		016	48° 35.24	124° 46.18	41			1			T: 7.99 S: 29.09
		0137	BO				48° 35.22	124° 46.19		35					BOTE 10m - SAL/CAL/NUTS
		0138	CM				48° 35.21	124° 46.22							
		0142	BG	NET		017	48° 35.21	124° 46.26	45	35					BONGO
		0158	BG	TRAWL		018	48 35 499	124 47 480			SURFACE TOW				TRAWL

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## INSTITUTE OF OCEAN SCIENCES

Month <i>MARCH</i>			Year <i>2007</i>				Ship <i>W.E. RICKER</i>				Cruise ID <i>2007-09</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	1VI 01	1458	BE	CTD		019	48° 57.90	125° 08.33	73			1	H.M.		T: 6.34 S: 26.04
		1500	BO				48° 57.88	125° 08.32		65					BOT@10m. SAL/CHL/NUTS
		1502	EM				48° 57.87	125° 08.31							
		1507	BE	NET		020	48° 57.93	125° 08.35	90	80					BONGO
		1526	BE	TRAWL		021	48 57.787	125 09.735			SURFACE	Tow			TRAWL
01	1VI 02	1619	BE	CTD		022	48° 54.07	125° 12.92	100m			1			T: 7.15 S: 27.75
		1621	BO				48° 54.06	125° 12.92		90					BOT@10m. SAL/CHL/NUTS
		1623	EM				48° 54.06	125° 12.91							
		1627	BE	NET		023	48° 54.06	125° 12.94	101	91					BONGO
		1644	BE	TRAWL		024	48 53 464	125 13 615			SURFACE	Tow			TRAWL
01	1VI 03	1736	BE	CTD		025	48° 50.63	125° 15.63	97			1			T: 7.79 S: 29.00
		1738	BO				48° 50.62	125° 15.64		90					BOT@10m. SAL/CHL/NUTS
		1740	EM				48° 50.62	125° 15.65							
		1744	BE	NET		026	48° 50.61	125° 15.68							BONGO
		18:01	BE	TRAWL		027	48 49 964	125 15.893			SURFACE	Tow			TRAWL

Cast type:

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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							
01	VI 02	1911	BE	CTD		028	48° 44.22	125° 21.70	101			1	H.M.		T: 7.77 S: 29.57
		1913	BO				48° 44.21	125° 21.72		90					BOT@10m - SAL/CHL/NUTS
		1916	EN				48° 44.21	125° 21.73							
		1920	BE	NET		029	48° 44.20	125° 21.76	99	89					BOT@10
		2000	BE	TRAWL		030	48 43 31.3	125 21 678			SURFACE	Tow			TRAWL
01	VI 03	2104	BE	CTD		031	48° 40.12	125° 30.49	170			1			T: 7.69 S: 29.24
		2108	BO				48° 40.10	125° 30.56		160					BOT@10m - SAL/CHL/NUTS
		2112	EN				48° 40.09	125° 30.60							
		2116	BE	NET		032	48° 40.08	125° 30.65		150					BOT@10
		2138	BE	TRAWL		033	48 39.607	125.31.759			SURFACE	Tow			TRAWL
01	VI 04	2235	BE	CTD		034	48° 36.17	125° 38.91	71			1			T: 7.79 S: 29.73
		2236	BO				48° 36.16	125° 38.98		60					BOT@10m - SAL/CHL/NUTS
		2238	EN				48° 36.16	125° 38.99							
		2242	BE	NET		035	48° 36.16	125° 39.01							BOT@10
		2258	BE	TRAWL		036	48 35.711	125 40.072			SURFACE	Tow			TRAWL

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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							
02	VI 05	0008	BE	CTD		037	48° 31.41	125° 49.14	82			1	H.M.		T: 8.00 S: 31.22
		0009	BO				48° 31.40	125° 49.13		70					BOT@10. SAL/CAL/NUTS
		0011	EN				48° 31.40	125° 49.11							
		0015	BE	NET		038	48° 31.42	125° 49.13							
		0031	BE	TRAWL		039	48° 30.917	125° 50.055							BONGO TRAWL
02	VI 04	1458	BE	CTD		040	49° 40.20	126° 08.49	341			1		✓	T: 7.98 S: 29.17
		1504	BO				49° 40.20	126° 08.51		250					BOT@10. SAL/CAL/NUTS
		1509	EN				49° 40.23	126° 08.50							
		1514	BE	NET		041	49° 40.28	126° 08.44		150					BONGO
		1536	BE	TRAWL		042	49° 40.191	126° 09.387							BONGO TRAWL
02	VI 05	1634	BE	CTD		043	49° 38.70	126° 15.64	247			1			T: 7.87 S: 27.74
		1640	BO				49° 38.70	126° 15.64		235					BOT@10. SAL/CAL/NUTS
		1644	EN				49° 38.72	126° 15.63							
		1649	BE	NET		044	49° 38.74	126° 15.62		150					BONGO
		16:08	BE	TRAWL		045	49° 38.757	126° 16.990							BONGO TRAWL

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Month			Year			Ship			Cruise ID						
MARCH			2007			W.E. RICKER			2007-09						
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	101 06	18 18	BE	CTD		046	49° 38.68	126° 26.96	162			1	H.M.		T: 6.81 S: 25.26
		18 21	BO				49° 38.64	126° 26.97	151	140					BOT@10 - SAL/CHL/NUTS
		18 24	EN				49° 38.61	126° 26.96							
		18 41	BE	NET		047	49° 38.70	126° 26.99	165	150					BONGO
		19 01	BE	TRAWL		048	49 39.264	126 27.885							TRAWL
															SURFACE TOW
02	101 07	20 43	BE	CTD		049	49° 47.02	126° 28.07	120			1			T: 8.45 S: 28.72
		20 45	BO				49° 47.04	126° 28.04		105					BOT@10 - SAL/CHL/NUTS
		20 48	EN				49° 47.04	126° 28.02							
		20 51	BE	NET		050	49° 47.06	126° 27.93		101					BONGO
		21 12	BE	TRAWL		051	49 46.29	126 28.16							TRAWL
															SURFACE TOW
02	101 08	22 15	BE	CTD		052	49° 41.88	126° 30.11	245			1			T: 8.42 S: 29.54
		22 19	BO				49° 41.91	126° 30.16		235					BOT@10 - SAL/CHL/NUTS
		22 24	EN				49° 41.93	126° 30.20							
		22 27	BE	NET		053	49° 41.92	126° 30.24		150					BONGO
		22 47	BE	TRAWL		054	49 41.57	126.31.248							TRAWL
															SURFACE TOW

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MARCH		2007		W-E RICKER			2007-09								
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	1V1 09	2339	BE	CTD		055	49° 39.13	126° 36.47	150			1	H.M.		T: 8.13 S: 29.18
		2342	BO				49° 39.12	126° 36.48		140					BOTE 10n - SAL/CAL/NUTS
		2345	EN				49° 39.10	126° 36.49							
		2349	BE	NET		056	49° 39.04	126° 36.48							BONGO
		2408	BE	TRAWL		057	49 38 209	126 36 406							TRAWL
03	1V1 10	0127	BE	CTD		058	49° 35.84	126° 33.26	97			1			T: 7.33 S: 27.25
		0129	BO				49° 35.86	126° 33.30		85					BOTE 10n - SAL/CAL/NUTS
		0131	EN				49° 35.86	126° 33.33							
		0135	BE	NET		059	49° 35.88	126° 33.39		86					BONGO
		0153	BE	TRAWL		060	49 35 894	126 32 1422							TRAWL
03	EP01	1729	BE	CTD		061	49° 21.08	126° 31.76	34			1		✓	T: 7.29 S: 29.41
		1729	BO				49° 21.10	126° 31.78		25					BOTE 10n - SAL/CAL/NUTS
		1730	EN				49° 21.11	126° 31.81							
		1735	BE	NET		062	49° 21.17	126° 31.90		22					BONGO
		1752	BE	TRAWL		063	49 20.455	126 33 615							TRAWL

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							Latitude	Longitude							
03	EP 02	1849	BE	CTD		064	49° 18.86	126° 36.25	85			1	H.M.		T: 7.67 S: 30.26
		1851	BO				49° 18.90	126° 36.26		75					
		1854	EN				49° 18.95	126° 36.30							BOT@10m - SAL/CHL/NUTS
		1858	BE	NET		065	49° 19.00	126° 36.33		73					
		1915	BE	TRAWL		066	49 18 733	126 37 39							BONGO
															TRAWL
															SURFACE TOW
03	EP 03	2009	BE	CTD		067	49° 16.82	126° 40.65	112			1			T: 7.76 S: 30.98
		2011	BO				49° 16.87	126° 40.67		100					
		2014	EN				49° 16.88	126° 40.67							BOT@10m - SAL/CHL/NUTS
		2024	BE	NET		068	49° 16.98	126° 40.69		99					
		2043	BE	TRAWL		069	49 16 831	126 41 661							BONGO
															TRAWL
															SURFACE TOW
03	EP 04	2139	BE	CTD		070	49° 14.63	126° 45.76	117			1			T: 7.94 S: 31.35
		2141	BO				49° 14.67	126° 45.87		105					
		2144	EN				49° 14.72	126° 45.91							BOT@10m - SAL/CHL/NUTS
		2150	BE	NET		071	49° 14.87	126° 45.98		108					
		2212	BE	TRAWL		072	49 14.641	126 47.499							BONGO
															TRAWL
															SURFACE TOW

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							Latitude	Longitude							
03	EP 05	2301	BC	CTD		073	49° 12.63	126° 50.39	143			1	H.M.		T: 8.44 S: 32.48
		2304	BO				49° 12.65	126° 50.41		130					
		2307	EN				49° 12.67	126° 50.41							BOTE 10m - SAL/CHL/NUTS
		2310	BC	NET		074	49° 12.69	126° 50.41							
		2330	BE	TRAWL		075	49 12.249	126 51 317		128					BONGO
															SURFACE TOW TRAWL
04	EP 06	0017	BC	CTD		076	49° 10.18	126° 54.95	186			1			T: 8.39 S: 32.41
		0021	BO				49° 10.18	126° 55.01							
		0025	EN				49° 10.19	126° 55.03		175					BOTE 10m - SAL/CHL/NUTS
		0028	BC	NET		077	49° 10.20	126° 55.04							
		0050	BE	TRAWL		078	49 9 .875	126 56.105		150					BONGO
															SURFACE TOW TRAWL
04	1VI 11	15.37	BC	CTD		079	49° 47.45	126° 38.95	124			1		✓	T: 7.46 S: 26.35
		1539	BO				49° 47.45	126° 38.95							
		1542	EN				49° 47.43	126° 38.94		115					BOTE 10m - SAL/CHL/NUTS
		1546	BC	NET		080	49° 47.42	126° 38.95							
		1605	BE	TRAWL		081	49 48 157	126 39 291		114					BONGO
															SURFACE TOW TRAWL

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

# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month MARCH			Year 2007				Ship W.E. RICHER			Cruise ID 2007-09					
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							
04	101 12	1724	BE	CTD		082	49° 51.72	126° 44.37	222			1	H.M.		T: 7.87 s: 28.02
		1729	BO				49° 51.71	126° 44.41		210					BOT 10m - SAL/CAL/NUTS
		1735	EN				49° 51.75	126° 44.37							
		1740	BE	NET		083	49° 51.81	126° 44.36		150					BONGO
		1759	BE	TRAWL		084	49 52 242	126 45. 385			SURFACE		Tow.		TRAWL
04	101 13	1857	BE	CTD		085	49° 56.97	126° 48.71	127			1			T: 8.20 s: 27.84
		1859	BO				49° 56.97	126° 48.71		110					BOT 10m - SAL/CAL/NUTS
		1902	EN				49° 56.96	126° 48.70							
		1912	BE	NET		086	49° 56.98	126° 48.67		115					BONGO
		1924	BE	TRAWL		087	49 56 375	126. 48 484			SURFACE		Tow		TRAWL
04	101 14	2017	BE	CTD		088	49° 52.28	126° 49.56	230			1			T: 7.85 s: 28.56
		2021	BO				49° 52.27	126° 49.60		220					BOT 10m - SAL/CAL/NUTS
		2025	EN				49° 52.27	126° 49.62							
		2029	BE	NET		089	49° 52.27	126° 49.62		150					BONGO
		2049	BE	TRAWL		090	49 52 038	126 50 670			SURFACE		Tow		TRAWL

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
MARCH			2007			W. E. RICHER			2007-09						
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							
04	V115	2213	BE	CTD		091	49° 57.96	126° 56.12	193			1	H.M.		T: 8.26 S: 29.09
		2217	BO				49° 57.95	126° 56.11		180					BOTOM - SAL/CHL/NUTS
		2220	EN				49° 57.93	126° 56.11							
		2223	BE	NET		092	49° 57.92	126° 56.10		156					
		2243	BE	TRAWL		093	49 57 245	126 56 041							BONGO
															TRAWL
05	V106	0026	BE	CTD		094	49° 47.06	127° 04.03	43			1			T: 7.37 S: 29.26
		0027	BO				49° 47.02	127° 04.07		35					BOTOM - SAL/CHL/NUTS
		0028	EN				49° 47.02	127° 04.08							
		0032	BE	NET		095	49° 47.02	127° 04.13		31					
		0046	BE	TRAWL		096	49 46 946	127 05 602							BONGO
															TRAWL
05	V116	1502	BE	CTD		097	50° 29.58	127° 45.92	103			1			T: 7.71 S: 28.13
		1505	BO				50° 29.59	127° 45.91		95					BOTOM - SAL/CHL/NUTS
		1507	EN				50° 29.58	127° 45.91							
		1512	BE	NET		098	50° 29.57	127° 45.87		90					
		1529	BE	TRAWL		099	50 29 816	127 44 733							BONGO
															TRAWL

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month MARCH				Year 2007			Ship W. E. RICHER					Cruise ID 2007-09				
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								
05	101 17	1722	BE	CTD		100	50° 28. 21	127° 56. 49	200			1	H.M.		T: 7.72 S: 29.37	
		1726	BO					50° 28. 23	127° 56. 52							
		1736	EN					50° 28. 25	127° 56. 54		190					BOT@10m - SAL/CHL/NOTS
		1735	BE	NET			101	50° 28. 26	127° 56. 56		150					
		1755	BE	TRAWL			102	50 28. 229	127 55. 514			SURFACE TOW				BONGO TRAWL
05	101 18	1840	BE	CTD		103	50° 29. 31	127° 51. 77	112			1			T: 7.80 S: 28.93	
		1842	BO				50° 29. 31	127° 51. 77		100					BOT@10m - SAL/CHL/NOTS	
		1845	EN				50° 29. 29	127° 51. 76								
		1849	BE	NET			104	50° 29. 27	127° 51. 73		114					
		1906	BE	TRAWL			105	50 29. 010	127 50. 797			SURFACE TOW				BONGO TRAWL
05	101 19	2046	BE	CTD		106	50° 29. 67	127° 34. 45	151			1			T: 8.17 S: 28.04	
		2049	BO				50° 29. 67	127° 34. 44		140					BOT@10m - SAL/CHL/NOTS	
		2053	EN				50° 29. 67	127° 34. 45								
		2057	BE	NET			107	50° 29. 69	127° 34. 45							
		2116	BE	TRAWL			108	50 29. 168	127 33. 834			SURFACE TOW				BONGO TRAWL

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month <u>MARCH</u>				Year <u>2007</u>				Ship <u>W. E. Richee</u>				Cruise ID <u>2007-09</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								
05	1V1 20	2246	BE	CTD		109	50° 23.81	127° 28.94	110							
		2249	BO					50° 23.81	127° 28.92			1	H.M.		T: 8.20 S: 25.90	
		2251	EN					50° 23.81	127° 28.91							BOT@10m - SAL/CHL/NUIS
		2255	BE	NET			110	50° 23.82	127° 28.93		96					
		<del>23 12</del>	<del>BE</del>	<del>TRAWL</del>			<del>111</del>	<del>50 24 366</del>	<del>127 29 508</del>							
06	1V1 21	0020	BE	CTD		112	50° 25.71	127° 30.62	170							
		0023	BO					50° 25.68	127° 30.64			1			T: 8.03 S: 28.47	
		0027	EN					50° 25.67	127° 30.66							BOT@10m - SAL/CHL/NUIS
		0031	BE	NET			113	50° 25.68	127° 30.67		150				*	NO NUIS
		0049	BE	TRAWL			114	50 26 483	127 30 955							BONGO TRAWL
06	1V1 22	1512	BE	CTD		115	50° 31.62	127° 37.25	93							
		1514	BO					50° 31.61	127° 37.24			1		✓	T: 8.10 S: 29.14	
		1516	EN					50° 31.61	127° 37.23							BOT@10m - SAL/CHL/NUIS
		1520	BE	NET			116	50° 31.62	127° 37.21		80					
		1536	BE	TRAWL			117	50 31. 718	127 38 531							BONGO TRAWL

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
MARCH			2007			W. E. RICKER			2007-09						
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							
06	IV1 23	1725	BE	CTD		118	50° 34.14	127° 34.20	129			1	H.M.		T: 7.93 S: 25.16
		1728	BO				50° 34.14	127° 34.17		120					
		1731	EN				50° 34.14	127° 34.15							BOTE 10m - SAL/CHL/NUTS
		1735	BE	NET		119	50° 34.14	127° 34.17		116					
		1751	BE	TRAWL		120	50 36 600	127 35.00							BONGO
															TRAWL
															SURFACE TOW
06	IV1 24	1855	BE	CTD		121	50° 35.80	127° 44.46	78			1			T: 7.61 S: 24.51
		1857	BO				50° 35.79	127° 44.44		70					
		1858	EN				50° 35.79	127° 44.43							BOTE 10m - SAL/CHL/NUTS
		1902	BE	NET		122	50° 35.79	127° 44.46		66					
		1950	BE	TRAWL		123	50 35 600	127 43 319							BONGO
															TRAWL
															SURFACE TOW
06	IV1 24	1917	BE	USW		121.6	50° 35.71	127° 43.87				1			SAL, SAMPLE FROM T.S.G
06	IV1 25	2054	BE	CTD		124	50° 35.13	127° 26.87	63			1			T: 8.03 S: 28.53
		2056	BO				50° 35.14	127° 26.84		55					
		2057	EN				50° 35.15	127° 26.83							BOTE 10m - SAL/CHL/NUTS
		2101	BE	NET		125	50° 35.17	127° 26.83							
		2145	BE	TRAWL		126	50 35 010	127 27.777		53					BONGO
															TRAWL
															SURFACE TOW

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
MARCH			2007			W.E. RICHER			2007-09						
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							
06	101 26	2306	BC	CTD		127	50° 30.84	127° 36.66	110			1	H.M.		T: 8.13 S: 28.01
		2308	BO				50° 30.84	127° 36.64		100					BOTE 10 - SAL/CAL/NUTS
		23 11	EN				50° 30.84	127° 36.63							
		23 14	BE	NET		128	50° 30.84	127° 36.63	118	108					
		23 32	BE	TRAWL		129	50 30 489	127 36.058							BONGO
															TRAWL
08	1BC 01	1505	BE	CTD		130	51° 38.99	127° 56.72	330			1			T: 6.85 S: 30.35
		15 10	BO				51° 38.96	127° 56.64		250					BOTE 10 - SAL/CAL/NUTS
		15 15	EN				51° 38.91	127° 56.55							
		15 19	BE	NET		131	51° 38.90	127° 56.46		150					
		15 40	BE	TRAWL		132	51 39.855	127 57.000							BONGO
															TRAWL
08	1BC 02	1729	BE	CTD		133	51° 53.51	127° 56.17	332			1			T: 6.49 S: 29.84
		1734	BO				51° 53.51	127° 56.10		250					BOTE 10 - SAL/CAL/NUTS
		1739	EN				51° 53.46	127° 56.05							
		1743	BE	NET		134	51° 53.48	127° 56.02		150					
		18 03	BE	TRAWL		135	51 54 050	127 55.999							BONGO
															TRAWL

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship			Cruise ID								
MARCH		2007		W.E. RICKER			2007-09								
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							
08	IBC 03	1907	BE	CTD		136	52° 00.69	127° 56.61	406			1	H.M.		T: 6.53 S: 29.84
		1912	BO				52° 00.71	127° 56.58		250					BOT@10m. SAL/CHL/NUTS
		1917	EN				52° 00.72	127° 56.57							
		1921	BE	NET		137	52° 00.71	127° 56.57		150					BONGO
		1939	BE	TRAWL		138	52 01.478	127 55.061			SURFACE TOW				TRAWL
08	IBC 04	2041	BE	CTD		139	52° 07.74	127° 52.75	503			1			T: 6.23 S: 29.15
		2046	BO				52° 07.81	127° 52.81		250					BOT@10m. SAL/CHL/NUTS
		2052	EN				52° 07.85	127° 52.85							
		2057	BE	NET		140	52° 07.83	127° 52.79		150					BONGO
		2116	BE	TRAWL		141	52 08.816	127 52.104			SURFACE TOW				TRAWL
08	IBC 05	2226	BE	CTD		142	52° 15.38	127° 44.66	435			1			T: 5.54 S: 26.61
		2231	BO				52° 15.40	127° 44.60		250					BOT@10m. SAL/CHL/NUTS
		2236	EN				52° 15.41	127° 44.55							
		2239	BE	NET		143	52° 15.43	127° 44.52		150					BONGO
		2259	BE	TRAWL		144	52 15.770	127 43.277			TOW AT 20M				TRAWL

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IBC 05 - SOB-SURFACE TRAWL TOW AT 20m. DUE TO PRESENCE OF DOLPHINS

# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month MARCH				Year 2007				Ship W. E. RICHGR				Cruise ID 2007-09				
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								
09	1BC06	0011	BE	CTD		145	52° 18.65	127° 32.77	225			1	H.M.		T: 5.67 S: 26.83	
		0016	BO				52° 18.64	127° 32.81		215						
		0020	EN				52° 18.65	127° 32.79							BOT 10m - SAL/CHL/NUTS	
		0023	BE	NET			146	52° 18.65	127° 32.80		150					
		0045	BE	TRAWL			147	52 18.880	127 31 738							BONGO TRAWL
<del>09 1BC06 0045 BE TRAWL 147 52 18.880 127 31 738 SURFACE TOW TRAWL</del>																
09	1BC07	1507	BE	CTD		148	52° 47.22	126° 58.65	270			1			T: 4.81 S: 18.34	
		1513	BO				52° 47.16	126° 58.70		250						
		1518	EN				52° 47.10	126° 58.69							BOT 10m - SAL/CHL/NUTS	
		1522	BE	NET			149	52° 47.03	126° 58.68		150					
		1541	BE	TRAWL			150	52 46 203	126 58.436							BONGO TRAWL
<del>09 1BC07 1541 BE TRAWL 150 52 46 203 126 58.436 SURFACE TOW TRAWL</del>																
09	1BC08	1704	BE	CTD		151	52° 38.77	127° 00.08	460			1			T: 4.91 S: 22.42	
		1709	BO				52° 38.76	127° 00.04		250						
		1714	EN				52° 38.76	127° 00.00							BOT 10m - SAL/CHL/NUTS	
		1718	BE	NET			152	52° 38.77	126° 59.95		150					
		1737	BE	TRAWL			153	52 38 477	127 01.026							BONGO TRAWL
<del>09 1BC08 1737 BE TRAWL 153 52 38 477 127 01.026 SURFACE TOW TRAWL</del>																

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40:30 43:00

# DAILY LOG

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## INSTITUTE OF OCEAN SCIENCES

Month <u>MARCH</u>				Year <u>2007</u>				Ship <u>W. E. RICKER</u>				Cruise ID <u>2007-09</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							
09	IBC 09	1849	BE	CTD		154	52° 34.78	127° 09.20	449			1	H.M.		T: 4.79 S: 22.13
		1854	BO				52° 34.76	127° 09.17		250					
		1859	EN				52° 34.76	127° 09.16							BOTO10m - SAL/CHL/NUTS
		1902	BE	NET		155	52° 34.74	127° 09.07		150					
		1923	BE	TRAWL		156	52 34.426	127 10.012							BONGO
															TRAWL
															SURFACE TOW
09	IBC 10	2036	BE	CTD		157	52° 29.96	127° 15.25	485			1			T: 4.93 S: 22.36
		2041	BO				52° 29.85	127° 15.32		250					
		2046	EN				52° 29.83	127° 15.37							BOTO10m - SAL/CHL/NUTS
		2049	BE	NET		158	52° 29.82	127° 15.38		150					
		2109	BE	TRAWL		159	52 29.209	127 15.129							BONGO
															TRAWL
															SURFACE TOW
09	IBC 11	2233	BE	CTD		160	52° 19.71	127° 10.92	550			2			T: 5.48 S: 23.43
		2242	BO				52° 19.64	127° 10.96		500					
		2252	EN				52° 19.62	127° 10.94							BOTO10m - SAL/CHL/NUTS
			BE	NET		<del>161</del>	NO BONGO OR TRAWL								SAL @ 500m
			BE	TRAWL		<del>162</del>									BONGO
															<del>TRAWL</del>

Cast type:

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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  
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Time Code

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

33:20 3500  
 1:40 1:50

IBC-11 ADD BONDED OR TRAWL DOSE TO THE PRESENCE OF DOMESTICS.

# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month MARCH			Year 2007				Ship W. E. RICHER			Cruise ID 2007-09					
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							
09	IBC 12	2342	BE	CTD		161	52° 15.44	127° 17.38	563			1	H.M.		T: 5.66 S: 26.45
		2345	BO				52° 15.46	127° 17.37		250					BOT@ 10 - SAL/CAL/NUTS
		2351	CM				52° 15.49	127° 17.38							
		2354	BE	NET		162	52° 15.52	127° 17.34		150					BONGO
		0015	BE	TRAWL		163	52° 15.234	127° 18.307							TRAWL
<p><del>CHANGE CLOCKS</del></p> <p>* DAYLIGHT SAVINGS - SET CLOCK ON COMPUTER 1 HR AHEAD *</p>															
11	IBC 13	1354	BE	CTD		164	55° 08.86	129° 54.32	480			1		✓	T: 5.26 S: 28.67
		1359	BO				55° 08.84	129° 54.28		250					BOT@ 10 - SAL/CAL/NUTS
		1403	CM				55° 08.81	129° 54.24							
		1408	BE	NET		165	55° 08.81	129° 54.21		150					BONGO
		1428	BE	TRAWL		166	55° 08.815	129° 54.846							TRAWL
										TOW AT 20m	*				
11	IBC 14	1529	BE	CTD		167	55° 04.33	129° 59.68	205			1			T: 5.02 S: 27.11
		1533	BO				55° 04.33	129° 59.68		195					BOT@ 10 - SAL/CAL/NUTS
		1537	CM				55° 04.37	129° 59.64							
		1541	BE	NET		168	55° 04.37	129° 59.62		150					BONGO
		1602	BE	TRAWL		169	55° 03.420	170° 00.203							TRAWL
										SURFACE TOW					

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\* NOTE NMEA CLOCK DID NOT CHANGE BACK 1 HR ∴ STARTING AT ≈ 1400 INSTEAD OF 1500

\* IBC-13 TRAWL TOWED AT A HEADROPE DEPTH OF 20m TO AVOID DOLPHINS



\* NOTE NMEA CLOCK DID NOT CHANGE BACK 1 HR ∴ STARTING AT ≈ 1400 INSTEAD OF 1500

\* IBC-13 TRAWL TOWED AT A HEADROPE DEPTH OF 20M TO AVOID DENTING

# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
MARCH			2007			W. E. RICHER			2007-9						
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	IBC15	1704	BE	CTD		170	54° 58.00	130° 04.46	268			1	H.M.		T: 5.10 S: 27.72
		1709	BO				54° 57.97	130° 04.50		250					
		1714	EN				54° 57.93	130° 04.56							BOT@10m - SAL/CAL/NUTS
		1716	BE	NET		171	54° 57.91	130° 04.59		150					BONGO
		1736	BE	TRAWL		172	54 57.443	130 05.243			SURFACE Tow				TRAWL
11	IBC 16	1851	BE	CTD		173	54° 50.77	130° 13.50	425			1			T: 5.13 S: 29.06
		1856	BO				54° 50.74	130° 13.56		250					BOT@10m - SAL/CAL/NUTS
		1901	EN				54° 50.71	130° 13.57							
		1904	BE	NET		174	54° 50.71	130° 13.55		150					BONGO
		1922	BE	TRAWL		175	54 50.079	130 14 324			SURFACE Tow				TRAWL
11	IBC 17	2052	BE	CTD		176	54° 41.99	130° 25.85	535			1			T: 5.13 S: 29.13
		2057	BO				54° 41.98	130° 25.81		250					BOT@10m - SAL/CAL/NUTS
		2102	EN				54° 41.98	130° 25.76							
		2105	BE	NET		177	54° 41.99	130° 25.75		150					BONGO
		2123	BE	TRAWL		178	54 41 480	130 26 153			SURFACE Tow				TRAWL

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month			Year				Ship				Cruise ID				
MARCH			2007				W. E. RICKER				2007-09				
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	IBC 18	2246	BE	CTD		179	54° 33.34	130° 30.90	164			1	4.M.		T: 5.95 S: 28.58
		2249	BO				54° 33.31	130° 30.91		150					
		2252	EN				54° 33.31	130° 30.92							BOTE 10m - SAL/CAL/NUTS
		2255	BE	NET		180	54° 33.33	130° 30.90		150					BONGO
		2313	BE	TRAWL		181	54 32 583	130 31.035			50 SAMPLES		Tow		TRAWL
<del>12</del>															
13	ISCA 01	1406	BE	CTD		182	54° 49.48	131° 47.93	400			1		✓	T: 5.98 S: 30.61
		1411	BO				54° 49.49	131° 47.94		250					
		1416	EN				54° 49.49	131° 47.76							BOTE 10m - SAL/CAL/NUTS
		1420	BE	NET		183	54° 49.47	131° 47.70		150					BONGO
		1443	BE	TRAWL		184	54 50.25	131 47.74			SURFACE TOW				TRAWL
13	ISCA 02	1628	BE	CTD		185	55° 02.49	131° 51.09	405			1			T: 6.13 S: 31.06
		1633	BO				55° 02.46	131° 51.11		250					
		1638	EN				55° 02.41	131° 51.11							BOTE 10m - SAL/CAL/NUTS
		1641	BE	NET		186	55° 02.35	131° 51.11		150					BONGO
		1702	BE	TRAWL		187	55 02.933	131 51.52			SURFACE Tow.				TRAWL

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship		Cruise ID										
MARCH		2007		W.E. RICKER		2007-09										
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	ISEA 03	1901	BE	CTD		188	55° 14.60	131° 54.56	393			1	H.M.		T: 5.37 S: 30.41	
		1906	BO					55° 14.56	131° 54.57		250					
		1911	EN					55° 14.54	131° 54.60							BOT@10m - SAL/CHL/NUTS
		1914	BE	NET			189	55° 14.52	131° 54.59		150					
		1933	BE	TRAWL			190	55 15.195	131 55.27							BONGO
													SURFACE	TOW		
13	ISEA 04	2125	BE	CTD		191	55° 27.13	132° 04.13	425			1			T: 5.35 S: 30.31	
		2130	BO					55° 27.06	132° 04.13		250					
		2136	EN					55° 27.01	132° 04.17							BOT@10m - SAL/CHL/NUTS
		2139	BE	NET			192	55° 26.98	132° 04.18		150					
		2203	BE	TRAWL			193	55 27.705	132 05.591							BONGO
													SURFACE	TOW		
14	ISEA 05	0034	BE	CTD		194	55° 39.65	132° 17.08	550			1			T: 4.83 S: 29.78	
		0039	BO					55° 39.65	132° 17.06		250					
		0044	EN					55° 39.65	132° 17.02							BOT@10m - SAL/CHL/NUTS
		0048	BE	NET			195	55° 39.60	132° 16.98		150					
		0108	BE	TRAWL			196	55 40 276	132 17.637							BONGO
													SURFACE	TOW		

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
MARCH			2007			W. E. RICHER			2007-09						
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	ISCA 06	1403	BE	CTD		197	56° 15.77	132° 38.90	325			1	H.K.	✓	T: 4.92 S: 30.45
		1408	BO				56° 15.74	132° 39.76		250					
		1413	EN				56° 15.75	132° 39.59							BOTE 10m - SAL/CAL/NUTS
		1417	BE	NET		198	56° 15.75	132° 38.47		150					
		1438	BE	TRAWL		199	56 16.611	132 37.604			SURFACE TOW				BONGO TRAWL
14	ISCA 07	1548	BE	CTD		200	56° 20.94	132° 29.20	166			1			T: 4.31 S: 30.25
		1551	BO				56° 20.95	132° 29.20		155					
		1555	EN				56° 20.93	132° 29.19							BOTE 10m - SAL/CAL/NUTS
		1558	BE	NET		201	56° 20.92	132° 29.20		150					
		1618	BE	TRAWL		202	56 20.796	132 30.522			SURFACE TOW				BONGO TRAWL
14	ISCA 07	1614	BE	USW		200b	56° 20.87	132° 29.95				1			SAL SAMPLE FROM T.S.G
14	ISCA 08	1712	BE	CTD		203	56° 21.63	132° 35.36	316			1			T: 5.01 S: 30.58
		1717	BO				56° 21.62	132° 35.30		250					
		1722	EN				56° 21.64	132° 35.29							BOTE 10m - SAL/CAL/NUTS
		1725	BE	NET		204	56° 21.66	132° 35.26		150					
		1745	BE	TRAWL		205	56 22.289	132 35.556			SURFACE TOW				BONGO TRAWL

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month MARCH			Year 2007				Ship W-E. RICKER				Cruise ID 2007-09				
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	ISEA 09	1901	BE	CTD		206	56° 27.06	132° 38.22	99			1	H.M.		T: 4.89 S: 30.43
		1903	BO				56° 27.06	132° 38.25		90					BOT@10m - SAL/CAL/NUTS
		1906	EM				56° 27.07	132° 38.33							
		1909	BE	NET		207	56° 27.13	132° 38.46		65					
		1924	BE	TRAWL		208	56 27.88	132 39.649			SURFACE TOW				BONGO TRAWL
14	ISEA 10	2027	BE	CTD		209	56° 30.06	132° 40.72	109			1			T: 4.36 S: 29.53
		2029	BO				56° 30.04	132° 40.74		100					BOT@10m - SAL/CAL/NUTS
		2032	EM				56° 30.03	132° 40.77							
		2034	BE	NET		210	56° 30.02	132° 40.82		95					BONGO
		2050	BE	TRAWL		211	56 29.833	132 42.156			SURFACE TOW				BONGO TRAWL
14	ISEA 11	2145	BE	CTD		212	56° 29.11	132° 50.32	111			1			T: 4.13 S: 28.41
		2147	BO				56° 29.09	132° 50.47		100					BOT@10m - SAL/CAL/NUTS
		2150	EM				56° 29.09	132° 50.57							
		2152	BE	NET		213	56° 29.08	132° 50.62		95					BONGO
		2208	BE	TRAWL		214	56 29.030	132 51.979			SURFACE TOW				BONGO TRAWL

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month <u>MARCH</u>				Year <u>2007</u>				Ship <u>W-E. RICKER</u>				Cruise ID <u>2007-09</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								
14	ISEA 12	2316	BE	CTD		215	56° 27.11	133° 00.97	168			1	H.M.		T: 4.26 S: 29.28	
		2319	BO					56° 27.05	133° 01.04							
		2327	EM					56° 26.99	133° 01.40		155					
		2333	BE	NET			216	56° 27.06	133° 01.39							BOTOM SAL/CHL/NUTS
		2351	BE	TRAWL			217	56 26 49	133 02.302		130					BONGO
										SURFACE TOW					TRAWL	
15	ISEA 13	0101	BE	CTD		218	56° 23.94	133° 07.17	81			1			T: 4.64 S: 30.17	
		0103	BO					56° 23.90	133° 07.19							
		0105	EM					56° 23.89	133° 07.19							BOTOM SAL/CHL/NUTS
		0108	BE	NET			219	56° 23.89	133° 07.18							
		0124	BE	TRAWL			220	56 24 526	133 06.379		65					BONGO
										SURFACE TOW					TRAWL	
15	ISEA 14	1402	BE	CTD		221	56° 22.52	133° 20.79	291			1			T: 4.85 S: 30.73	
		1407	BO					56° 22.56	133° 20.75							
		1413	EM					56° 22.59	133° 20.64							BOTOM SAL/CHL/NUTS
		1417	BE	NET			222	56° 22.59	133° 20.61							
		1436	BE	TRAWL			223	56 22.681	133 22.1031		150					BONGO
										SURFACE TOW					TRAWL	

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Additional comments

\* - MISKIM BROKEN - NEW MISKIM PUT TO USE



# DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

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MARCH			2007			W.E. RICKER			2007-09						
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	ISEA 15	1538	BE	CTD		224	56° 23.46	133° 32.29	367			1	H.M.		T: 4.57 S: 30.55
		1543	BO				56° 23.47	133° 32.24		250					BOT@10m - SAL/CHL/NUTS
		1548	CH				56° 23.50	133° 32.19							
		1551	BE	NET		225	56° 23.51	133° 32.16		150					BONGO
		1610	BE	TRAWL		226	56 23 886	133 33.711			SURFACE	Tow			TRAWL
15	ISEA 16	1740	BE	CTD		227	56° 19.63	133° 47.82	340			1			T: 4.89 S: 30.96
		1745	BO				56° 19.55	133° 47.80		250					BOT@10m - SAL/CHL/NUTS
		1751	CH				56° 19.54	133° 47.80							
		1754	BE	NET		228	56° 19.53	133° 47.76		150					BONGO
		1812	BE	TRAWL		229	56 18 819	133 47 862			SURFACE	Tow			TRAWL
15	ISEA 17	1957	BE	CTD		230	56° 05.54	133° 48.64	393			1			T: 4.80 S: 31.01
		2002	BO				56° 05.46	133° 48.61		250					BOT@10m - SAL/CHL/NUTS
		2007	CH				56° 05.36	133° 48.63							
		2011	BE	NET		231	56° 05.30	133° 48.62		150					BONGO
		2030	BE	TRAWL		232	56 04.787	133 49.573			SURFACE	Tow			TRAWL

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship				Cruise ID							
MARCH		2007		W. E. RICKER				2007-09							
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	15CA 18	2224	BE	CTD		233	55° 59.73	134° 13.38	92			1	H.M.		T: 5.15 S: 31.55
		2226	BO				55° 59.75	134° 13.37		80					
		2228	EN				55° 59.78	134° 13.39							BOT@10m - SAL/CAL/NUTS
		2231	BE	NET		234	55° 59.81	134° 13.42		75					
		2248	BE	TRAWL		235	56 00.530	134 13.735			SURFACE	TOW			BONGO TRAWL
16	15CA 19	0036	BE	CTD		236	56° 12.63	134° 19.41	127			1			T: 5.21 S: 31.64
		0038	BO				56° 12.65	134° 19.42		115					
		0041	EN				56° 12.65	134° 19.44							BOT@10m - SAL/CAL/NUTS
		0044	BE	NET		237	56° 12.64	134° 19.42							
		0105	BE	TRAWL		238	56 13.746	134 19.408			SURFACE	TOW			BONGO TRAWL
<hr/>															
16	15CA 20	1408	BE	CTD		239	57° 57.74	134° 51.03	550			1		✓	T: 3.25 S: 31.44
		1413	BO				57° 57.79	134° 51.16		250					
		1419	EN				57° 57.80	134° 51.22							BOT@10m - SAL/CAL/NUTS
		1422	BE	NET		240	57° 57.82	134° 51.26		150					
		1443	BE	TRAWL		241	57 58.664	134 51.909			SURFACE	TOW			BONGO TRAWL

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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 <u>MARCH</u>				Year <u>2007</u>			Ship <u>W. E. RICKER</u>				Cruise ID <u>2007-09</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							
16	ISCA 21	1631	BC	CTD		242	58° 07.31	135° 08.00	402			1	4.M.		T: 2.65 S: 31.49
		1636	BO				58° 07.35	135° 07.95		250					BOTOM. SAL/CHL/NUIS
		1641	EN				58° 07.40	135° 07.91							
		1644	BE	NET		243	58° 07.43	135° 07.87		150					
		1704	BE	TRAWL		244	58° 07.972	135° 08.988							BONGO TRAWL
										SURFACE TOW					
16	ISCA 22	1803	BC	CTD		245	58° 10.15	135° 10.30	371			1			T: 2.77 S: 31.53
		1808	BO				58° 10.20	135° 10.26		250					BOTOM. SAL/CHL/NUIS
		1814	EN				58° 10.24	135° 10.23							
		1817	BC	NET		246	58° 10.25	135° 10.23		150					
		1835	BE	TRAWL		247	58° 10.958	135° 10.971							BONGO TRAWL
										SURFACE TOW					
16	ISCA 23	1937	BC	CTD		248	58° 13.80	135° 20.87	268			1			T: 2.71 S: 31.37
		1942	BO				58° 13.80	135° 20.90		250					BOTOM. SAL/CHL/NUIS
		1947	EN				58° 13.81	135° 20.93							
		1950	BC	NET		249	58° 13.82	135° 20.98		150					
		2009	BE	TRAWL		250	58° 14.483	135° 21.961							BONGO TRAWL
										SURFACE TOW					

**Cast type:**

BOT = bottle cast, no CTD  
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 MOR = mooring  
 NET = net haul  
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 US = up/stop  
 UN = up/no stop  
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MARCH			2007			W. E. RICKER			2007-09							
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	ISEA 24	2215	BE	CTD		251	58° 19.74	135° 48.09	104			1	H.M.		T: 3.73 S: 31.73	
		2217	BO				58° 18.72	135° 48.17		95						
		2219	EH				58° 18.70	135° 48.28							BOT 10m SAL/CHL/NUTS	
		2224	BE	NET		252	58° 18.66	135° 48.47		85						
		2239	BE	TRAWL		253	58 18.094	135.50.212			SURFACE TOW					BONGO TRAWL
16	ISEA 25	2335	BE	CTD		254	58° 14.89	136° 01.31	81			1			T: 3.71 S: 31.73	
		2337	BO				58° 14.87	136° 01.46		75						
		2339	CH				58° 14.85	136° 01.60							BOT 10m SAL/CHL/NUTS	
		2342	BE	NET		255	58° 14.82	136° 01.78		65						
		2356	BE	TRAWL		256	58 14.728	136 04.089			SURFACE TOW					BONGO TRAWL
17	ISEA 26	1358	BE	CTD		257	58° 11.03	134° 23.35	44			1			T: 2.47 S: 30.82	
		1359	BO				58° 11.03	134° 23.37		35						
		1401	EH				58° 11.03	134° 23.40							BOT 10m SAL/CHL/NUTS	
		1405	BE	NET		258	58° 11.01	134° 23.47		32						
		1420	BE	TRAWL		259	58 10.966	134 21.952			SURFACE TOW					BONGO TRAWL

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MARCH			2007			W. E. RICKER			2007-09						
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							
17	ISCA 27	1556	BE	CTD		260	58° 07.27	134° 06.46	215			1	H.M.		T: 2.87 S: 31.45
		1600	BO				58° 07.25	134° 06.44		265					BOTOM - SAL/CAL/NUTS
		1604	EN				58° 07.27	134° 06.35							
		1607	BE	NET		261	58° 07.30	134° 06.29		150					BONGO
		1626	BE	TRAWL		262	58° 06.597	134° 05.746							TRAWL
										SURFACE TOW					
17	ISCA 28	1745	BE	CTD		263	57° 59.39	133° 58.60	298			1			T: 2.68 S: 31.26
		1750	BO				57° 59.39	133° 58.57		250					BOTOM - SAL/CAL/NUTS
		1755	EN				57° 59.43	133° 58.56							
		1758	BE	NET		264	57° 59.49	133° 58.52		150					BONGO
		1818	BE	TRAWL		265	57° 58.878	133° 57.681							TRAWL
										SURFACE TOW					
17	ISCA 29	1956	BE	CTD		266	57° 49.01	133° 49.62	325			1			T: 3.07 S: 31.50
		2001	BO				57° 48.98	133° 49.57		250					BOTOM - SAL/CAL/NUTS
		2006	EN				57° 48.97	133° 49.56							
		2009	BE	NET		267	57° 48.99	133° 49.57		150					BONGO
		2029	BE	TRAWL		268	57° 48.403	133° 49.065							TRAWL
										SURFACE TOW					

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## INSTITUTE OF OCEAN SCIENCES

Month			Year				Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
17	15GA 30	2303	BE	CTD		269	57° 30.20	133° 42.91	179			1	H.M.		T: 3.57 S: 31.58
		2312	BO				57° 30.18	133° 42.86		170					
		2316	EN				57° 30.17	133° 42.81							BOT@ION - SAL/CHL/NUTS
		2319	BE	NET		270	57° 30.16	133° 42.75		150					BONGO
		2337	BE	TRAWL		271	57 29.516	133 42.524			SURFACE TOW				TRAWL
18	15GA 31	0056	BE	CTD		272	57° 21.67	133° 45.08	405			1			T: 3.99 S: 31.66
		0100	BO				57° 21.65	133° 45.08		250					BOT@ION - SAL/CHL/NUTS
		0106	EN				57° 21.60	133° 45.03							
		0108	BE	NET		273	57° 21.56	133° 45.01		150					BONGO
		0128	BE	TRAWL		274	57 20.498	133.45 113			SURFACE TOW				TRAWL
18	15GA 32	1433	BE	CTD		275	57° 08.36	133° 55.30	106			1		✓	T: 4.02 S: 31.91
		1435	BO				57° 08.38	133° 55.32		95					BOT@ION - SAL/CHL/NUTS
		1438	EN				57° 08.40	133° 55.35							
		1441	BE	NET		276	57° 08.43	133° 55.37		80					BONGO
		1457	BE	TRAWL		277	57 08.232	133 54.182			SURFACE TOW			✓	TRAWL

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## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship		Cruise ID									
MAR 14		2007		W. E. RICKER		2007-09									
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	ISGA 33	1613	BE	CTD		278	57° 05.63	133° 41.05	89			1	H.M.		T: 4.26 S: 31.73
		1614	BO				57° 05.63	133° 41.04		80					BOTE 10m - SAL/CAL/NUTS
		1616	EN				57° 05.62	133° 41.03							
		1619	BE	NET		279	57° 05.61	133° 41.05		70					
		1636	BE	TRAWL		280	57° 05.422	133° 39.481							BONGO SURFACE TOW TRAWL
18	ISGA 34	1743	BE	CTD		281	57° 03.91	133° 27.98	88			1			T: 4.42 S: 31.73
		1745	BO				57° 03.90	133° 27.96		80					BOTE 10m - SAL/CAL/NUTS
		1747	EN				57° 03.79	133° 27.93							
		1750	BE	NET		282	57° 03.77	133° 27.91		70					
		1807	BE	TRAWL		283	57° 03.389	133° 26.000							BONGO SURFACE TOW TRAWL
18	ISGA 35	1917	BE	CTD		284	57° 02.05	133° 13.10	179			1			T: 4.36 S: 31.70
		1920	BO				57° 02.01	133° 13.02		170					BOTE 10m - SAL/CAL/NUTS
		1924	EN				57° 02.01	133° 12.99							
		1927	BE	NET		285	57° 02.02	133° 12.97							
		1945	BE	TRAWL		286	57° 01.911	133° 11.568							BONGO SURFACE TOW TRAWL

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## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month **MARCH** Year **2007** Ship **W. E. RICKER** Cruise ID **2007-09**

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	15GA 36	2057	BE	CTD		287	56° 57.55	133° 00. 00	145			1	H.M.		T: 3.95 S: 31.33		
		21 00	BO					56° 57.56	133° 00. 62		135						
		21 03	EM					56° 57. 57	133° 00. 03							BOT 10m - SAL/CAL/NUTS	
		21 06	BE	NET			288	56° 57. 58	133° 00. 04		130						
		21 55	BE	TRAWL			289	56 57 124	132 58. 882								BONGO TRAWL
															SURFACE TOW		
18	15GA 37	2240	BE	CTD		290	56° 50.72	132° 52.52	200			1			T: 3.97 S: 31.22		
		2244	BO					56° 50.73	132° 52. 55		190					BOT 10m - SAL/CAL/NUTS	
		2248	EM					56° 50.75	132° 52. 55								
		22 51	BE	NET			291	56° 50. 77	132° 52. 54		150					BONGO	
		23 09	BE	TRAWL			292	56 50. 225	132 52. 054								BONGO TRAWL
															SURFACE TOW		
19	15GA 38	0034	BE	CTD		293	56° 44.92	132° 41. 82	153			1			T: 3.99 S: 31.38		
		00 37	BO					56° 44. 92	132° 41. 81		140					BOT 10m - SAL/CAL/NUTS	
		00 40	EM					56° 44. 93	132° 41. 79								
		00 44	BE	NET			294	56° 44. 94	132° 41. 77							BONGO	
		01 05	BE	TRAWL			295	56 45. 510	132 42. 523								BONGO TRAWL
															TOW AT 10m DEPTH		

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Month <u>MARCH</u>				Year <u>2007</u>				Ship <u>W. E. RICHER</u>				Cruise ID <u>2007-09</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							
19	15GA 39	1358	BE	CTD		296	57° 23.13	134° 43.52	550			1	H.M.	✓	T: 4.11 S: 31.72
		1404	BO				57° 23.14	134° 43.55		250					
		1409	EN				57° 23.12	134° 43.58							BOT@10m. SAL/CHL/NUTS
		1413	BE	NET		297	57° 23.09	134° 43.55		150					
		1430	BE	TRAWL		298	57 21.152	134 42.694			SURFACE TOW				BONGO TRAWL
19	15GA 40	1631	BE	CTD		299	57° 08.46	134° 40.73	550			1			T: 4.33 S: 31.78
		1636	BO				57° 08.44	134° 40.79		250					
		1640	EN				57° 08.44	134° 40.85							BOT@10m. SAL/CHL/NUTS
		1643	BE	NET		300	57° 08.43	134° 40.90		150					
		1702	BE	TRAWL		301	57 07.576	134 41.119			SURFACE TOW				BONGO TRAWL
19	15GA 41	1907	BE	CTD		302	56° 53.14	134° 38.89	650			1			T: 4.99 S: 31.79
		1912	BO				56° 53.23	134° 38.95		250					
		1917	EN				56° 53.31	134° 38.92							BOT@10m. SAL/CHL/NUTS
		1920	BE	NET		303	56° 53.39	134° 38.88		150					
		1940	BE	TRAWL		304	56.52.916	134 38.380			SURFACE TOW				BONGO TRAWL

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Year **2007**

Ship **W. E. RICKER**

Cruise ID **2007-09**

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	ISCA 42	1642	BE	CTD		305	55° 14.08	131° 26.35	131			1	4.m.	✓	T: 4.49 S: 27.57	
		1644	BO					55° 14.07	131° 26.34							
		1647	EH					55° 14.07	131° 26.33							BOTOM - SAL/CHL/NUTS
		1650	BE	NET			306	55° 14.06	131° 26.32		115					
		1709	BE	TRAWL			307	55 13.579	131 24.692							BONGO
												SURFACE TOW				TRAWL
20	ISCA 43	1900	BE	CTD		308	55° 09.68	131° 10.34	173			1			T: 4.87 S: 28.96	
		1903	BO					55° 09.71	131° 10.35	164	155					BOTOM - SAL/CHL/NUTS
		1907	EH					55° 09.73	131° 10.36							
		1910	BE	NET			309	55° 09.75	131° 10.34		145					
		1929	BE	TRAWL			310	55 09.094	131 10.016							BONGO
												SURFACE TOW				TRAWL
20	ISCA 44	2034	BE	CTD		311	55° 03.19	131° 07.82	311			1			T: 5.32 S: 29.63	
		2039	BO					55° 03.19	131° 07.79		250					BOTOM - SAL/CHL/NUTS
		2045	EH					55° 03.18	131° 07.77							
		2047	BE	NET			312	55° 03.18	131° 07.79		150					
		2108	BE	TRAWL			313	55 02.22	131 07.465							BONGO
												SURFACE TOW				TRAWL

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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								
21	DE 03	1757	BE	CTD		323	54° 07.62	132° 15.78	45			1	H.M.		T: 6.04 S: 31.80	
		1758	BO					54° 07.61	132° 15.72							
		1800	EM					54° 07.61	132° 15.69		35					
		1802	BE	NET			324	54° 07.57	132° 15.59		35					BOTOM. SAL/CHL/NUTS
		1818	BE	TRAWL			325	54 07.874	132 13.586							BONGO
21	DE 02	2013	BE	CTD		326	54° 09.49	132° 01.48	47			1			T: 5.94 S: 31.51	
		2014	BO					54° 09.46	132° 01.42		35					
		2015	EM					54° 09.45	132° 01.38							BOTOM. SAL/CHL/NUTS
		2018	BE	NET			327	54° 09.42	132° 01.26		35					
		2033	BE	TRAWL			328	54 09.537	131 59.491							BONGO
21	DE 01	2204	BE	CTD		329	54° 14.42	131° 41.82	117			1			T: 6.05 S: 31.80	
		2206	BO					54° 14.44	131° 41.84		105					
		2209	EM					54° 14.48	131° 41.83							BOTOM. SAL/CHL/NUTS
		2212	BE	NET			330	54° 14.50	131° 41.84		100					
		2300	BE	TRAWL			331	54 15.326	131 40.908							BONGO
															TRAWL	

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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								
22	H 06	1406	BE	CTD		332	52° 28.95	130° 29.47	160			1	H.M.	✓	T: 7.00 S: 31.80	
		1409	BO				52° 28.90	130° 29.44								
		1413	EN				52° 28.85	130° 29.42								
		1416	BE				333	52° 28.81								130° 29.41
		1438	BE					TRAWL								52 28.310
22	H 05	1604	BE	CTD		335	52° 26.03	130° 13.59	321			1			T: 7.26 S: 31.78	
		1608	BO				52° 26.02	130° 13.62								
		1613	EN				52° 26.04	130° 13.66								
		1616	BE				336	52° 26.06								130° 13.70
		1635	BE					TRAWL								52 25.98
22	H 04	1811	BE	CTD		338	52° 22.32	129° 57.80	205			1			T: 7.29 S: 31.98	
		1815	BO				52° 22.36	129° 57.82								
		1819	EN				52° 22.40	129° 57.84								
		1822	BE				339	52° 22.43								129° 57.85
		1844	BE					TRAWL								52 22 325
22	H 4.5	1652	BE	USW		335b	52° 25.48	130° 10.86	4m?	VSW					S: 31.732	

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bottle firing method:  
 US = up/stop  
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SAL SAMPLE FROM T.S.G

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

# DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month MARCH

Year 2007

Ship W.E. RICKER

Cruise ID 2007-09

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	H 03	20 19	BE	CTD		341	52° 19.01	129° 42.15	205							
		20 24	BO									1	H.M		T: 7.58 S: 31.74	
		20 28	EN					52° 19.10	129° 42.16		195					
		20 31	BE	NET			342	52° 19.19	129° 42.16							BOTOM. SAL/CAL/NUTS
		20 56	BE	TRAWL			343	52 19. 604	129 41. 899		150					BONGO
22	H 02	22 47	BE	CTD		344	52° 15.80	129° 26.45	192							
		22 50	BO									1				
		22 54	EN					52° 15.87	129° 26.45		170					T: 7.26 S: 31.40
		22 57	BE	NET			345	52° 15.92	129° 26.43							BOTOM. SAL/CAL/NUTS
		23 19	BE	TRAWL			346	52 16 098	129 25. 363		150					BONGO
23	H 01	00 57	BE	CTD		347	52° 12.26	129° 10.48	161							
		01 00	BO									1				
		01 04	EN					52° 12.21	129° 10.42		150					T: 7.29 S: 31.35
		01 07	BE	NET			348	52° 12.19	129° 10.42							BOTOM. SAL/CAL/NUTS
		01 27	BE	TRAWL			349	52 11. 973	129 09 232		145					BONGO
															TOW AT 20 M.	

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# DAILY LOG

## Ocean Sciences and Productivity Division

## INSTITUTE OF OCEAN SCIENCES

Month MARCH			Year 2007				Ship W.E. RICKER				Cruise ID 2007-09						
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	IBC 19	1446	BE	CTD		350	51° 43.83	127° 58.20	363			1	H.M.	✓	T: 6.88 S: 29.96		
		1451	BO				51° 43.84	127° 58.20		250							
		1456	EN				51° 43.81	127° 58.19								BOTOM - SAL/CHL/NUTS	
		1500	BE	NET		351	51° 43.79	127° 58.17		150							BONGO
		1523	BE	TRAWL		352	51 43.017	127 57.951				SURFACE TOW					TRAWL
23	IBC 20	1619	BO	CTD		353	51° 39.23	127° 56.07	334			1			T: 6.97 S: 30.25		
		1623	BO				51° 39.18	127° 55.99		250						BOTOM - SAL/CHL/NUTS	
		1628	EN				51° 39.16	127° 55.96									
		1631	BO	NET		354	51° 39.15	127° 55.94		150							BONGO
		1652	BO	TRAWL		355	51 38.617	127 55.443				SURFACE TOW					TRAWL
23	IBC 21	1747	BE	CTD		356	51° 34.66	127° 52.92	257			1			T: 6.76 S: 26.84		
		1751	BO				51° 34.65	127° 52.89		245						BOTOM - SAL/CHL/NUTS	
		1756	EN				51° 34.62	127° 52.84									
		1759	BE	NET		357	51° 34.60	127° 52.80		150							BONGO
		1819	BO	TRAWL		358	51 33.964	127 52.541				SURFACE TOW					TRAWL
															END OF CRUISE		

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