

DAILY LOG BOOK

MISSION
NUMBER

2006-09

DATE:

From: FEB 28 to: MAR 26

VESSEL:

W.E. RICKER

PROJECT:

TRUDEL HIGH 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		MARCH		Year		2006		Ship		W. E. RICKER		INSTITUTE OF OCEAN SCIENCES				Cruise ID		2006-09	
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											
01	101 01	2353	BC	CTD		001	48 57 38	125 07 21	92			1	4M		T: 9.01 S: 29.73				
		2355	BO				48 57 41	125 07 21		85					BOTE 10m - SAL/CHL/NUIS				
		2359	EN				48 57 43	125 07 21							NO PUMPS - OOPS				
02		0005	BC	NET		002	48 57 41	125 07 08		72					BONGO				
		0036	BE	TRAWL		003	48 57 45	125 08 32		SURFACE TOW					TRAWL				
02	101 02	1507	BC	CTD		004	48 54 48	125 12 07	96			1	H.M.		T: 8.43 S: 29.75				
		1511	BO				48 54 48	125 11 49		90					BOTE 10m - SAL/CHL/NUIS				
		1514	EN				48 54 48	125 11 46							* →				
		1521	BC	NET		005	48 55 01	125 11 48		75					BONGO				
		1548	BE	TRAWL		006	48 54.14	125 13 05		SURFACE TOW					TRAWL				
02	101 03	1653	BC	CTD		007	48 50 69	125 15 58	96			1	H.M.		T: 7.71 S: 30.81				
		1657	BO				48 50 76	125 15 55		90					BOTE 10m - SAL/CHL/NUIS				
		1700	EN				48 50 82	125 15 48							NO SAL				
		1706	BC	NET		008	48 50 92	125 15 50		72					BONGO				
		1725	BE	TRAWL		009	48 50 63	125 15 53		TOW AT 10m DEPTH					TRAWL				

Cast type:

BOT = bottle cast, no CTD

USW = sea water loop

MOR = mooring

bottle firing method:

US = up

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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CHECK DIFFERENCE BETWEEN PRIMARY & SECONDARY TEMP AT SURFACE - DIFF @ 10m = 0.004 - 0.007
DIFF @ 4m = 0.250 - 0.395

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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	IV1 04	2011	BE	CTD		010	48 51 55	125 08 28	85			1	H.M.		T: 8.31 S: 30.10
		2013	BO				48 51 55	125 08 29		80					BOT@10m - SAL/CHL/NUTS
		2016	EN				48 51 55	125 08 22							
			BE	NET		011	48 51 44	125 07 95	123	103					BONGO
		21 00	BE	TRAWL		012	48 52 10	125 07 02			SURFACE TOW				TRAWL
02	IV1 05	2238	BE	CTD		013	48 49 63	125 10 83	57			1	H.M.		T: 8.27 S: 30.31
		2239	BO				48 49 62	125 10 86		50					BOT@10m - CHL/NUTS
		2241	EN				48 49 61	125 10 90							+ SAL
			BE	NET		014	48 49 52	125 11 02		35					BONGO
		2315	BE	TRAWL		015	48 49 82	125 10 65			SURFACE TOW				TRAWL
03	EP 01	1510	BE			016	49 21 08	126 31 80	35			1	H.M.		T: 8.00 S: 30.19
		1511	BO				49 21 06	126 31 91		30					BOT@10m - SAL/CHL/NUTS
		1513	EN				49 21 08	126 31 99							
		1520	BE			017	49 21 02	126 32 30							BONGO
		1539	BE			018	49 19 90	126 34 30			TOW AT 10m				TRAWL

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MARC T. -756 7049

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Ocean Sciences and Productivity Division

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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							
03	EP02	1649	BC	CTD		019	49 18 89	126 36 23	83			1	H.M.		T: 8.61 S: 31.25
		1652	BO				49 18 90	126 36 25		75					
		1655	EN				49 18 93	126 36 27							BOTE 10m - SAL/CHL/NUTS
		1701	BC	NET		020	49 18 93	126 36 38		62					BONGO
		1733	BC	TRAWL		021	49 19 39	126 36 89			Tow AT 10m				TRAWL
03	EP 03	1829	BC	CTD		022	49 16 71	126 40 75	110			1	H.M.		T: 8.67 S: 31.93
		1832	BO				49 16 72	126 40 78		100					BOTE 10m - SAL/CHL/NUTS
		1836	EN				49 16 74	126 40 81							
		1841	BC	NET		023	49 16 82	126 40 86		87					BONGO
		1930	BC	TRAWL		024	49 16 93	126 42 04			Tow AT 10m				TRAWL
03	EP 04	2008	BC	CTD		025	49 14 41	126 45 30	111			1	H.M.		T: 8.69 S: 32.14
		2010	BO				49 14 42	126 45 36		105					BOTE 10m - SAL/CHL/NUTS
		2017	EN				49 14 48	126 45 69							
		2026	BC	NET		026	49 14 46	126 45 94		100					BONGO
		2052	BC	TRAWL		027	49 14 53	126 46 44			Tow AT 10m				TRAWL

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							Latitude	Longitude							
03	EP 05	2154	BE	CTD		028	49 12 65	126 50 15	149			1	H.M.		T: 8.23 S: 32.31
		2157	BO				49 12 70	126 50 16		140					BOT 10m - SAL/CHL/NUIS
		2201	EN				49 12 75	126 50 19							
		2208	BE	NET		029	49 12 76	126 50 21		122					BONGO
		2238	BE	TRAWL		030	49 12 54	126 51 16			Tow AT 10m				TRAWL
03	EP 06	2334	BE	CTD		031	49 10 33	126 54 63	190			1	H.M.		T: 8.17 S: 32.29
		2338	BO				49 10 38	126 54 64		180					BOT 10m - SAL/CHL/NUIS
		2342	EN				49 10 44	126 54 67							
		2349	BE	NET		032	49 10 51	126 54 70		150					BONGO
04		0014	BE	TRAWL		033	49 10.34	126 55 58			Tow AT 10m				TRAWL
04	VI 01	1506	BE	CTD		034	49 26 80	126 44 32	53			1	H.M.		T: 8.04 S: 30.44
		1508	BO				49 26 84	126 44 41		45					BOT 10m - SAL/CHL/NUIS
		1510	EN				49 26 84	126 44 38							
		1516	BE	NET		035	49 26 77	126 44 32		40					BONGO
		1532	BE	TRAWL		036	49 26 80	126 45 60			SURFACE Tow				TRAWL

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							Latitude	Longitude							
04	VI 02	16 32	BE	CTD		037	49 29 98	126 50 00	65			1	H.M.		T: 8.26 S: 30.88
		16 34	BO				49 30 00	126 50 00		60					BOTCIOM - CHL/NUTS
		16 36	EN				49 30 00	126 50 00							
		16 42	BE	NET		038	49 30 05	126 50 05	63	53					BONGO
		16 57	BE	TRAWL		039	49 30.49	126 50 512			SURFAC	Tow			TRAWL
04	VI 03	17 57	BE	CTD		040	49 33 90	126 54 79	65			1	H.M.		T: 8.24 S: 30.96
		17 59	BO				49 33 89	126 54 75		60					BOTCIOM - SAL/CHL/NUTS
		18 01	EN				49 33 88	126 54 74							
		18 06	BE	NET		041	49 33 86	126 54 81		54					BONGO
		18 21	BE	TRAWL		042	49 34 52	126 55 41			SURFAC	Tow			TRAWL
04	VI 04	20 20	BE	CTD		043	49 45 74	127 09 26	58			1	H.M.		T: 8.17 S: 30.80
		20 22	BO				49 45 78	127 09 29		50					BOTCIOM - CHL/NUTS
		20 24	EN				49 45 81	127 09 26							
		20 30	BE	NET		044	49 45 84	127 09 22		46					BONGO
		20 48	BE	TRAWL		045	49 45 27	127 09 20			Tow AT	10m			TRAWL

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							Latitude	Longitude							
04	VI 05	2151	BC	CTD		046	49 42 28	127 05 37	82			1	H.M.		T: 8.00 S: 30.65
		2153	BO				49 42 32	127 05 37		75					
		2155	EN				49 42 35	127 05 36							BOTE 10m - SOL/CHL/NUTS
		2201	BC	NET		047	49 42 41	127 05 31							BONGO
		2222	BC	TRAWL		048	49 42 68	127 04 12							
										Tow AT	10m				TRAWL
04	VI 06	2336	BC	CTD		049	49 38 07	126 59 90	74			1	H.M.		T: 8.44 S: 31.24
		2338	BO				49 38 11	126 59 88		70					BOTE 10m - CHL/NUTS
		2342	EN				49 38 13	126 59 82							
		2348	BC	NET		050	49 38 17	126 59 78		64					BONGO
05		0011	BC	TRAWL		051	49 37 74	126 59 10							
										Tow AT	10m				TRAWL
05	VI 07	0102	BC	TRAWL		052	49 35 19	126 57 05							
										Tow AT	10m				TRAWL ONLY
05	VI 06	1504	BC	CTD		053	49 47 67	126 39 15	120			1	H.M.		T: 8.17 S: 28.28
		1508	BO				49 47 68	126 39 15		110					BOTE 10m SOL/CHL/NUTS
		1511	GO				49 47 70	126 39 15							
		15	BC	NET		054	49 47 69	126 38 99		110					BONGO
		1534	BC	TRAWL		055	49 48 30	126 39 20							
										SORFACK Tow					TRAWL

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							Latitude	Longitude							
05	101 07	1634	BC	CTD		056	49 53 31	126 39 54	191			1	H.M.		T: 8.57 S: 29.47
		1640	BO				49 53 40	126 39 51		180					BOT@10m - CHL/NUIS
		1643	EN				49 53 42	126 39 52							
		1648	BC	NET		057	49 53 50	126 39 51		150					BONGO
		1710	BC	TRAWL		058	49 53 07	126 39 67			SURFACE	Tau			TRAWL
05	101 08	1830	BC	CTD		059	49 51 77	126 44 70	250			1	H.M.		T: 8.97 S: 30.11
		1835	BO				49 51 73	126 44 71		240					BOT@10m - SAL/CHL/NUIS
		1838	EN				49 51 72	126 44 71							
		1844	BC	NET		060	49 51 67	126 44 69		150					BONGO
		1902	BC	TRAWL		061	49 52 09	126 45 06			SURFACE	Tau			TRAWL
05	101 09	2144	BC	CTD		062	49 52 35	126 50 16	233			1	H.M.		T: 8.67 S: 30.30
		2150	BO				49 52 41	126 50 22		225					BOT@10m - CHL/NUIS
		2154	EN				49 52 43	126 50 27							
		2200	BC	NET		063	49 52 39	126 50 46		150					BONGO
		2241	BC	TRAWL		064	49 52 33	126 50 26			SURFACE	Tau			TRAWL

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							Latitude	Longitude							
05	1V1 10	2330	BE	CTD		065	49 55 43	126 55 89	266			1	H.M.		T: 8.98 S: 30.01
		2335	BO				49 55 44	126 55 87		250					BOTOM - SAL/CAL/HUTS
		2340	EN				49 55 45	126 55 86							
		2346	BE	NET		066	49 55 38	126 55 90		150					BONGO
06		0008	BE	TRAWL		067	49 54 26	126 55 78			SURFACE	TOW			TRAWL
06	1V1 11	0134	BE	CTD		068	49 50 80	126 57 13	170			1	H.M.		T: 8.43 S: 30.14
		0137	BO				49 50 79	126 57 12		160					BOTOM - CAL/HUTS
		0140	EN				49 50 75	126 57 14							
		0145	BE	NET		069	49 50 68	126 57 16		140					BONGO
		0202	BE	TRAWL		070	49 50 70	126 57 79			SURFACE	TOW			TRAWL
06	1V1 12	1459	BE	CTD		071	50 05 80	127 08 27	149			1	H.M.		T: 8.66 S: 30.00
		1502	BO				50 05 80	127 08 24		140					BOTOM - SAL/CAL/HUTS
		1505	EN				50 05 81	127 08 21							
		1510	BE	NET		072	50 05 83	127 08 16		142					BONGO
		1531	BE	TRAWL		073	50 05 54	127 09 103			SURFACE	TOW			TRAWL

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							Latitude	Longitude							
06	VI 13	16 39	BC	CTD		074	50.06 04	127 15 14	121			1	H.M.		T: 8.41 S: 29.36
		16 40	BO				50 06 05	127 15 13		110					BOT@10 - CHL/NUTS
		16 42	EN				50 06 06	127 15 13							
		16 49	BC	NET		075	50 06 12	127 15 11		109					BONGO
		17 04	BE	TRAWL		076	50 05 47	127 15 06			SURFACE	TOW			TRAWL
06	VI 14	18 10	BC	CTD		077	50 00 01	127 12 15	165			1			T: 8.05 S: 29.66
		18 14	BO				49 59 99	127 12 12		150					BOT@10 - SAL/CHL/NUTS
		18 16	EN				49 59 97	127 12 11							
		18 21	BC	NET		078	49 59 91	127 12 16		120					BONGO
		18 39	BE	TRAWL		079	49 59 52	127 13 52			SURFACE	TOW			TRAWL
06	VI 08	20 11	BC	CTD		080	49 55 60	127 19 55	59			1			T: 8.07 S: 30.60
		20 12	BO				49 55 60	127 19 57		50					BOT@10 - CHL/NUTS
		20 14	EN				49 55 59	127 19 59							
		20 19	BC	NET		081	49 55 57	127 19 65		49					BONGO
		20 47	BE	TRAWL		082	49 54 61	127 21 313			TOW NET	10m.			TRAWL

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							Latitude	Longitude							
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		21 41	BO				49 52 42	127 25 86		55					BOT 10m - CAL/NUTS
		21 43	EN				49 52 41	127 25 88							+ SAL
		21 48	BE	NET		084	49 52 42	127 25 95		57					BONGO
		22 08	BE	TRAWL		085	49 51 98	127 27 42			Tow AT	10m.			TRAWL
06	VI 10	2353	BE	CTD		086	49 59 97	127 38 87	83			1	H.M.		T: 8.33 S: 31.05
		2355	BO				49 59 94	127 38 94		75					BOT 10m - CAL/NUTS
		2356	EN				49 59 93	127 39 00							
07		0002	BE	NET		087	49 59 84	127 39 18		74					BONGO
07		00 22	BE	TRAWL		088	50 00 60	127 39 73			Tow AT	10m.			TRAWL
									62						
07	VI 15	1504	BE	CTD		089	50 35 09	127 27 23		50		1	H.M.		T: 8.55 S: 28.06
		1505	BO				50 35 09	127 27 22							BOT 10m - SAL/CAL/NUTS
		1506	EN				50 35 10	127 27 22							
		15 12	BE	NET		090	50 35 08	127 27 22		51					BONGO
		15 29	BE	TRAWL		091	50 34 95	127 27 75			SURFACE Trawl				TRAWL

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Month MARCH				Year 2006			Ship W. E. RICKER				Cruise ID 2006-09				
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							
07	101 16	1626	BE	CTD		092	50 35 13	127 30 82	62			1	H.M.		T: 8.73 S: 29.11
		1627	BO				50 35 12	127 30 85		50					BOTOM - CHL/NUTS
		1629	EN				50 35 10	127 30 89							
		1634	BE	NET		093	50 35 06	127 30 97		46					BONGO
		1649	BE	TRAWL		094	50 34 76	127 31 032			SURFACE TOW				TRAWL
07	101 17	1746	BE	CTD		095	50 33 96	127 33 81	127			1	H.M.		T: 8.21 S: 27.24
		1749	BO				50 33 97	127 33 80		122					BOTOM - SAL/KAL/NUTS
		1751	EN				50 33 98	127 33 78							
		1756	BE	NET		096	50 34 01	127 33 78		117					BONGO
		1807	BE	TRAWL		097	50 33.99	127 33.88			SURFACE TOW				TRAWL
07	101 18	1912	BE	CTD		098	50 34 43	127 35 31	127			1	H.M.		T: 8.61 S: 28.38
		1914	BO				50 34 46	127 35 28		115					BOTOM - CHL/NUTS
		1917	EN				50 34 43	127 35 21							
		1925	BE	NET		099	50 34 55	127 35 13		120					BONGO
		20:02	BE	TRAWL		100	50 34 9.4	127 35 787			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
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Time Code

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month MARCH				Year 2006			Ship W.E. RICKER				Cruise ID 2006-09				
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 19	20 52	BE	CTD		101	50 35 58	127 40 19	105			1	H.M.		T: 9.00 S: 27.89
		20 54	BO				50 35 58	127 40 15		95					BOTE 10 m - SAL/CHL/NUIS
		20 56	GH				50 35 58	127 40 13							
		21 01	BE	NET		102	50 35 54	127 40 08		95					BONGO
		21 17	BE	TRAWL		103	50 35 34.8	127 40 72.7			SURFACE	Tau.			TRAWL
07	101 20	22 14	BE	CTD		104	50 36 03	127 46 19	56			1	H.M.		T: 9.07 S: 28.73
		22 16	BO				50 36 02	127 46 17		50					BOTE 10 m - CHL/NUIS
		22 17	GH				50 36 02	127 46 15							
		22 22	BE	NET		105	50 35 95	127 45 96		45					BONGO
		22 38	BE	TRAWL		106	50 35 8.7	127 45 70.3			SURFACE	Tau.			TRAWL
07	101 21	23 43	BE	CTD		107	50 37 13	127 51 97	55			1	H.M.		T: 9.13 S: 29.32
		23 44	BO				50 37 13	127 51 96		45					BOTE 10 m - SAL/CHL/NUIS
		23 45	GH				50 37 13	127 51 95							
		23 51	BE	NET		108	50 37 12	127 51 83							BONGO
08		00 07	BE	TRAWL		109	50 36 8.8	127 50 75.4			SURFACE	Tau.			TRAWL

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							Latitude	Longitude							
08	1V1 22	0138	BE	TRAWL		110	50 34 121	127 34 317		SURFACE TOW		/	J.M.		TRAWL ONLY
08	1V1 23	1507	BE	CTD		111	50 23 67	127 28 92	93			1	H.M.		T: 8.92 S: 29.70
		1508	BO				50 23 68	127 28 91		85					BOT 10m - SAL/CAL/NUTS
		1510	EN				50 23 67	127 28 87							
		1515	BE	NET		112	50 23 65	127 28 83	71	69					BONGO
		1530	BE	TRAWL		113	50 23 99	127 28 957		SURFACE TOW					TRAWL
08	1V1 24	1625	BE	CTD		114	50 26 66	127 31 36	192			1	H.M.		T: 8.88 S: 30.16
		1629	BO				50 26 65	127 31 35		180					BOT 10m - CAL/NUTS
		1632	EN				50 26 64	127 31 36							
		1637	BE	NET		115	50 26 67	127 31 45		150					BONGO
		1655	BE	TRAWL		116	50 27 036	127 31 712		Tow AT 15m					TRAWL
08	1V1 25	1801	BE	CTD		117	50 28 54	127 33 13	186			1	H.M.		T: 8.79 S: 29.67
		1804	BO				50 28 52	127 33 14		175					BOT 10m - SAL/CAL/NUTS
		1807	EN				50 28 50	127 33 16							
		1812	BE	NET		118	50 28 50	127 33 20		150					BONGO
		1832	BE	TRAWL		119	50 29 036	127 33 745		SURFACE TOW					TRAWL

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Daily_log_book.doc

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Ocean Sciences and Productivity Division

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							
08	101 26	1959	BE	CTD		120	50 31 68	127 39 67	122			1	H.M.		T: 8.60 S: 29.56
		2002	BO				50 31 61	127 39 81		115					Bottle - CAL/NUTS
		2005	EN				50 31 60	127 39 82							
		20 11	BE	NET		121	50 31 59	127 39 68		100					BONGO
		20 31	BE	TRAWL		122	50 31 278	127 40.556			SURFACE	Tow			TRAWL
08	101 27	21 35	BE	CTD		123	50 29 24	127 46 96	147			1	H.M.		T: 8.64 S: 29.92
		21 38	BO				50 29 24	127 46 95		135					Bottle - SAL/CAL/NUTS
		21 41	EN				50 29 23	127 46 95							
		21 46	BE	NET		124	50 29 17	127 46 88	155	145					BONGO
		22 08	BE	TRAWL		125	50 28 938	127 47 679			SURFACE	Tow			TRAWL
08	101 28	2258	BE	CTD		126	50 28 41	127 52 70	125			1	H.M.		T: 8.37 S: 29.47
		2301	BO				50 28 38	127 52 76		115					Bottle - CAL/NUTS
		2303	EN				50 28 36	127 52 77							
		2308	BE	NET		127	50 28 31	127 52 84		150					BONGO
		2332	BE	TRAWL		128	50 28 638	127 52 682			SURFACE	Tow			TRAWL

Cast type: USW = sea water loop
 BOT = bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD

bottle firing method:
 US = up / stop
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Daily_log_book.doc

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Month				Year				Ship				Cruise ID			
MARCH				2006				W. E. RICKER				2006-09			
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	VI 29		BC	TRAWL		129	50 28 205	127 56 335			SURFACE TOW		J.M.		TRAWL ONLY
09	IBC 1	1511	BC	CTD		130	51 32 15	127 52 07	162			1	H.M.		T: 7.11 S: 30.63
		1515	BO				51 32 22	127 52 07		156					BOTEDN - SAL/CAL/NUTS
		1517	EN				51 32 25	127 52 08							
		1522	BC	NET		131	51 32 36	127 52 08		150					BONGO
		1543	BC	TRAWL		132	51 32 39	127 52 325			SURFACE TOW				TRAWL
09	IBC 2	1637	BC	CTD		133	51 36 88	127 53 99	372			1	H.M.		T: 6.76 S: 30.21
		1642	BO				51 36 89	127 54 00		250					BOTEDN - CAL/NUTS
		1646	EN				51 36 87	127 53 96							
		1649	BC	NET		134	51 36 83	127 53 91		150					BONGO
		1734	BC	TRAWL		135	51 37 875	127 56 030			SURFACE TOW				TRAWL
09	IBC 3	1836	BC	CTD		136	51 43 33	127 55 59	361			1	H.M.		T: 6.89 S: 30.33
		1841	BO				51 43 34	127 55 52		250					BOTEDN - SAL/CAL/NUTS
		1844	EN				51 43 29	127 55 52							
		1848	BC	NET		137	51 43 19	127 55 48		150					BONGO
		1903	BC	TRAWL		138	51 43 601	127 54 279			SURFACE TOW				TRAWL

Cast type:

USW = sea water loop

bottle firing method:

Time Code

Cast type: USW = sea water loop
 BOT = bottle cast, no CTD MOR = mooring
 CTD = CTD without Rosette NET = net haul
 ROS = Rosette plus CTD DRF = drifter

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Daily_log_book.doc

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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							
09	IBC 4	2030	BE	CTD		139	51 43 07	128 04 41	304			1	H.M.		T: 7.09 S: 30.72
		2035	BO				51 43 05	128 04 59		250					BOT@10m - CAL/MUTS
		2039	EN				51 43 05	128 04 66							
		2044	BE	NET		140	51 43 05	128 04 80		150					BONGO
		2136	BE	TRAWL		141	51 43 112	128 04 882			Tow AT	15m.			TRAWL
09	IBC 5	2234	BE	CTD		142	51 50 11	127 55 97	311			1	H.M.		T: 6.93 S: 30.20
		2238	BO				51 50 08	127 56 05		250					BOT@10m - SAL/CAL/MUTS
		2243	EN				51 50 07	127 56 11							
		2248	BE	NET		143	51 50 01	127 56 21		150					BONGO
		2307	BE	TRAWL		144	51 50 382	127 56 060			SURFACE	Tow			TRAWL
10	IBC 6	0004	BE	CTD		145	51 54 94	127 55 44	160			1	H.M.		T: 6.94 S: 30.35
		0006	BO				51 54 99	127 55 41		150					BOT@10m - CAL/MUTS
		0009	EN				51 55 02	127 55 38							
		0013	BE	NET		146	51 55 09	127 55 27							BONGO
		0035	BE	TRAWL		147	51 55 699	127 55 529			SURFACE	Tow			TRAWL

Cast type:

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Daily_log_book.doc

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Month		MARCH		Year		2006		Ship		WE RICHER		Cruise ID		2006-09	
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							
10	IBC 7	0148	BC	CTD		148	52 01 49	127 54 77	280			1	H.M.		T: 7.04 S: 30.52
		0152	BO				52 01 55	127 54 72		250					BOT@10m - SAL/CAL/MUTS
		0156	CN				52 01 56	127 54 67							
		0202	BC	NET		149	52 01 57	127 54 58		160					BONGO
		0224	BE	TRAWL		150	52 02 616	127 54 126			SURFACE	TOW			TRAWL
10	HSS 1	1446	BC	CTD		151	52 14 87	128 15 97	395			2	H.M.		T: 6.81 S: 30.63
		1448	BO				52 14 85	128 15 98		100	THIS IS A SAMPLE				BOT@1+5m - SAL/MUTS/
		1452	CN				52 14 87	128 15 99			OF A HOT SPOT FOR				CHL/PLANKTON(250ml JAR)
		1457	BC	NET		152	52 14 92	128 15 99		150	Jim Gower				BONGO
		1527	BE	TRAWL		153	52 15 211	128 22 553			SURFACE	TOW			TRAWL
10	HSS 2	1639	BC	CTD		154	52 17 02	128 34 67	255			2	H.M.		T: 6.98 S: 31.00
		1642	BO				52 16 96	128 34 68		150	V				BOT@1+5m - SAL/MUTS/
		1647	CN				52 16 91	128 34 67			11				CHL/PLANKTON(250ml JAR)
		1653	BC	NET		155	52 16 89	128 34 53			SAME AS				BONGO
		1713	BE	TRAWL		156	52 16 692	128 35 309			ABOVE	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 BO = bottom time of cast EN = end time of cast	DE = deployment time MR = messenger release time RE = recover mooring time
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Daily_log_book.doc

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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							
10	H 01	1950	BE	CTD		157	52 12 18	129 10 31	160			1	H.M.		T: 7.41 S: 31.32
		1953	BO				52 12 19	129 10 29		150					BOTOM - SAL/CAL/NUIS
		1957	EN				52 12 22	129 10 34							
		2009	BE	NET		158	52 12 27	129 10 42		150					BONGO
		2025	BE	TRAWL		159	52 12 57.9	129 11 57.4			SURFACE	TOW			TRAWL
10	H 02	2145	BE	CTD		160	52 15 71	129 26 40	182			1	H.M.		T: 7.41 S: 31.35
		2148	BO				52 15 69	129 26 42		170					BOTOM - SAL/CAL/NUIS
		2151	EN				52 15 71	129 26 41							
		2157	BE	NET		161	52 15 77	129 26 38		150					BONGO
		2217	BE	TRAWL		162	52 16 01.2	129 27 15.2			SURFACE	TOW			TRAWL
10	H 03	2338	BE	CTD		163	52 18 88	129 42 10	203			1	H.M.		T: 7.40 S: 31.36
		2341	BO				52 18 90	129 42 14		190					BOTOM - SAL/CAL/NUIS
		2345	EN				52 18 94	129 42 21							
		2349	BE	NET		164	52 18 96	129 42 37							BONGO
		0009	BE	TRAWL		165	52 17 31.5	129 44.210.6			SURFACE	TOW			TRAWL

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Daily_log_book.doc

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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							
11	H 04	01 31	BE	CTD		166	52 22 23	129 57 57	200			1	4 m.		T: 7.59 S: 31.84
		01 34	BO				52 22 28	129 57 60		190					Bottom - SAL/CAL/NUTS
		01 38	EN				52 22 29	129 57 62							
		01 43	BE	NET		167	52 22 29	129 57 66		150					BONGO
		02 03	BE	TRAWL		168	52 22 532	129 58 750.			SURFACE	TOW			TRAWL
11	H 05	1509	BE	CTD		169	52 25 18	130 13 38	323			1	H.M.		T: 7.42 S: 31.88
		15 14	BO				52 26 12	130 13 33		250					Bottom - SAL/CAL/NUTS
		15 18	EN				52 26 19	130 13 31							
		15 23	BE	NET		170	52 26 23	130 13 24		150					BONGO
		15 45	BE	TRAWL		171	52 26 441	130 13 388			SURFACE	TOW			TRAWL
11	H 06	1711	BE	CTD		172	52 28 92	130 28 88	175			1	H.M.		T: 7.38 S: 31.96
		17 14	BO				52 28 94	130 28 91		165					Bottom - SAL/CAL/NUTS
		17 20	EN				52 28 96	130 28 92							
		17	BE	NET		173	52 28 97	130 28 95		150					BONGO
		17 40	BE	TRAWL		174	52 29 041	130 29 892.			SURFACE	TOW			TRAWL

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Daily_log_book.doc

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							Latitude	Longitude							
11	H 07	1859	BE	CTD		175	52 32 21	130 44 74	119			1	H.M.		T: 7.44 S: 31.49
		1902	BO				52 32 22	130 44 75		110					BOTOM - SAL/CAL/NUTS
		1903	EN				52 32 23	130 44 75							
		1908	BE	NET		176	52 32 26	130 44 72							BONGO
		1953	BE	TRAWL		177	52 38 350	130 46 337			SURFACE	TOW			TRAWL
11	H 08	2112	BE	CTD		178	52 35 66	131 00 55	116			1	H.M.		T: 7.48 S: 31.67
		2114	BO				52 35 69	131 00 56		105					BOTOM - SAL/CAL/NUTS
		2116	EN				52 35 72	131 00 57							
		2120	BE	NET		179	52 35 77	131 00 54		100					BONGO
		2137	BE	TRAWL		180	52 35 904	131 01 904			SURFACE	TOW			TRAWL
11	HS 01	2304	BE	CTD		181	52 39 17	130 54 29	89			1	H.M.		T: 7.42 S: 31.68
		2305	BO				52 39 14	130 54 32		80					BOTOM - CAL/NUTS
		2307	EN				52 39 10	130 54 32							
		2312	BE	NET		182	52 39 03	130 54 26		75					BONGO
		2330	BE	TRAWL		183	52 39 662	130 53 948			SURFACE	TOW			TRAWL

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Daily_log_book.doc

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Ocean Sciences and Productivity Division

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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	HS 02	0045	BC	CTD		184	52 47 30	130 54 21	50			1	H.M.		T: 7.50 S: 31.94
		0046	BO				52 47 29	130 54 20		40					BOTOM - SAL/CAL/HUTS
		0048	EN				52 47 29	130 54 20							
		0052	BC	NET		185	52 47 28	130 54 12		40					BONGO
		0107	BE	TRAWL		186	52 47 566	130 54 382			SURFACE	TBW			TRAWL
12	HS 03	1452	BC			187	52 54 09	130 45 82	44			1	H.M.		T: 7.29 S: 31.94
		1453	BO				52 54 09	130 45 79		40					BOTOM - SAL/CAL/HUTS
		1454	EN				52 54 09	130 45 78							
		1502	BC			188	52 53 95	130 45 67		34					BONGO
		1518	BE			189	52 54 553	130 45 659			SURFACE	TBW			TRAWL
12	HS 04	1631	BC	CTD		190	53 01 81	130 51 52	61			1	H.M.		T: 7.48 S: 31.88
		1632	BO				53 01 81	130 51 54		55					BOTOM - CAL/HUTS
		1634	EN				53 01 82	130 51 56							
		1638	BC	NET		191	53 01 85	130 51 66		49					BONGO
		1652	BE	TRAWL		192	53 02 652	130 52 495			SURFACE	TBW			TRAWL

Cast type:

BOT = bottle cast, no CTD
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USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

US = up / stop
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Time Code

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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 MARCH				Year 2006			Ship W.E. RICKER				Cruise ID 2006-09				
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							
12	HS 05	1813	BE	CTD		193	53 10 92	130 55 76	59			1	H.M.		T: 7.26 S: 31.65
		1815	BO				53 10 92	130 55 73		50					BOT 10m. SAL/CHL/NUTS
		1816	EN				53 10 92	130 55 72							
		1820	BE	NET		194	53 10 97	130 55 67	92	80					BONGO
		1839	BE	TRAWL		195	53 12 030	130 55 950			SURFACE	Tow			TRAWL
12	HS 06*	1959	BE	CTD		196	53 18 85	130 04 29	52			1	H.M.		T: 7.21 S: 31.73
		2000	BO				53 18 91	130 04 29		45					BOT 10m. CHL/NUTS
		2002	EN				53 18 96	130 04 31							
		2006	BE	NET		197	53 19 09	130 04 29		40					BONGO
		2025	BE	TRAWL		198	53 20 173	131 04 222			SURFACE	Tow			TRAWL
12	HS 07	2125	BE	CTD		199	53 27 21	131 00 86	62			1	H.M.		T: 7.33 S: 31.84
		2126	BO				53 27 26	131 00 84		55					BOT 10m. SAL/CHL/NUTS
		2128	EN				53 27 29	131 00 84							
		2132	BE	NET		200	53 27 37	131 00 77		50					BONGO
		2150	BE	TRAWL		201	53 28 145	131 00 640			SURFACE	Tow			TRAWL

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* H306 CHECK LONGITUDE ENTRIES - SHOULD BE 131° INSTEAD OF 130°

DAILY LOG

Ocean Sciences and Productivity Division

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							
12	HS 08	2305	BE	CTD		202	53 36 14	130 56 70	54			1	H.M.		T: 7.52 S: 31.99
		2306	BO				53 36 11	130 56 65		45					BOTOM - C/L/NUTS
		2308	EN				53 36 11	130 56 64							
		2312	BE	NET		203	53 36 11	130 56 56							BONGO
		2326	BE	TRAWL		204	53 37 042	130 56 064			SURFACE	TOW			TRAWL
13	HS 09	0043	BE			205	53 45 02	130 55 55	61			1	H.M.		T: 7.21 S: 31.69
		0044	BO				53 45 03	130 55 56		50					BOTOM - SAL/C/L/NUTS
		0046	EN				53 45 04	130 55 57							
		0051	BE			206	53 45 11	130 55 50		50					BONGO
		0106	BE			207	53 45 820	130 55 225			SURFACE	TOW			TRAWL
14	DE 01	1457	BE			208	54 15 20	131 39 49	112			1	H.M.		T: 6.21 S: 31.73
		1459	BO				54 15 18	131 39 45		100					BOTOM - SAL/C/L/NUTS
		1500	EN				54 15 17	131 39 41							
		1508	BE			209	54 15 14	131 39 36		100					BONGO
		1530	BE			210	54 14 585	131 40 947			SURFACE	TOW			TRAWL

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>MARCH</i>				Year <i>2006</i>				Ship <i>W.E. RICKER</i>				Cruise ID <i>2006-09</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							
14	DE 02	1721	BE	CTD		211	54 08 63	131 57 76	48			1	H.M.		T: 6.20 S: 31.58
		1722	BO				54 08 64	131 57 75		40					BOT@10m - SAL/CHL/NUTS
		1723	EN				54 08 63	131 57 75							
		1728	BE	NET		212	54 08 59	131 57 70		37					BONGO
		1830	BE	TRAWL		213	54 08 713	131 58 579			SURFACE TOW				TRAWL
14	DE 03	2000	BE	CTD		214	54 08 30	132 11 68	45			1	H.M.		T: 6.14 S: 31.57
		2001	BO				54 08 28	132 11 66							BOT@10m - SAL/CHL/NUTS
		2003	EN				54 08 26	132 11 65							
		2008	BE	NET		215	54 08 19	132 11 63	35						BONGO
		2020	BE	TRAWL		216	54 07 899	132 12 695			SURFACE TOW				TRAWL
14	DE 04	2146	BE	CTD		217	54 07 81	132 28 10	53			1	H.M.		T: 6.24 S: 31.64
		2147	BO				54 07 82	132 28 15		45					BOT@10m - SAL/CHL/NUTS
		2148	EN				54 07 82	132 28 16							
		2154	BE	NET		218	54 07 87	132 28 09		40					BONGO
		2210	BE	TRAWL		219	54 08 149	132 29 208			SURFACE TOW				TRAWL

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DAILY LOG

Ocean Sciences and Productivity Division

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Month MARCH				Year 2006			Ship W.E. RICKER				Cruise ID 2006-09				
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	DE 05	2332	BE	CTD		220	54 10 71	132 45 52	63			1	H.M.		T: 6.08 S: 31.54
		2333	BO				54 10 69	132 45 56		55					BOT 10m - SAL/CAL/NUTS
		2335	CH				54 10 66	132 45 63							
		2342	BE	NET		221	54 10 59	132 46 03		49					BONGO
15		0019	BE	TRAWL		222	54 10 796	132 52 318			SURFACE	Trawl			TRAWL
15	DE 06	0138	BE	CTD		223	54 14 49	132 55 42	121			1	H.M.		T: 6.02 S: 31.34
		0140	BO				54 14 49	132 55 47		110					BOT 10m - SAL/CAL/NUTS
		0143	CH				54 14 51	132 55 50							
		0148	BE	NET		224	54 14 55	132 55 57		110					BONGO
		0212	BE	TRAWL		225	54 14 515	132 57 380			SURFACE	Trawl			TRAWL
15	FI 01	1505	BE	CTD		226	54 47 43	133 03 13	121			1	H.M.	*	T: 6.07 S: 31.29
		1507	BO				54 47 44	133 03 14		110					BOT 10m - SAL/CAL/NUTS
		1508	CH				54 47 45	133 03 14							<u>2</u>
		1513	BE	NET		227	54 47 43	133 03 14		108					BONGO
		1605	BE	TRAWL		228	54 47 407	133 02 651			SURFACE	Trawl			TRAWL

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Additional comments

F101- PRIMARY TEMP FROZEN - WAITED 5 min @ 10m - WENT DOWN ANYWAY USING SECONDARY

- SALINITY GOOD ON UPCAIST ONLY

RE-DID CAST - OLD CAST OVERWRITTEN

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship		Cruise ID									
MARCH		2006		W.E. RICKER		2006-09									
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	F1 02	1649	BE	CTD		229	54 46 56	133 11 09	198			1	H.M.		T: 6.04 S: 31.22
		1652	BO				54 46 56	133 11 00		190					BOT 10m - SAL/CHL/NUTS
		1655	EN				54 46 56	133 10 96							
		1601	BE	NET		230	54 46 63	133 10 82		150					BONGO
		1718	BE	TRAWL		231	54 46 577	133 10 467							TRAWL
15	F1 03	1819	BE	CTD		232	54 45 81	133 18 87	113			1	H.M.		T: 5.94 S: 31.28
		1821	BO				54 45 81	133 18 93		100					BOT 10m - SAL/CHL/NUTS
		1823	EN				54 45 81	133 18 95							
		1827	BE	NET		233	54 45 87	133 18 94							BONGO
		1846	BE	TRAWL		234	54 45 752	133 18 970							TRAWL
15	F1 04	1957	BE	CTD		235	54 45 17	133 26 47	145			1	H.M.		T: 6.14 S: 31.61
		1959	BO				54 45 18	133 26 47		135					BOT 10m - SAL/CHL/NUTS
		2002	EN				54 45 19	133 26 48							
		2007	BE	NET		236	54 45 12	133 26 44							BONGO
		2058	BE	TRAWL		237	54 44 947	133 25 847							TRAWL

Cast type:

USW = sea water loop

bottle firing method:

Time Code:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>MARCH</i>				Year <i>2006</i>				Ship <i>W.E. RICKER</i>				Cruise ID <i>2006-09</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							
15	F1 05	2130	BG	CTD		238	54 44 26	133 34 66	198			1	H.M.		T: 6.57 S: 31.93
		2133	BO				54 44 24	133 34 64		190					Bottle - SAL/CAL/NUTS
		2136	EN				54 44 21	133 34 73							
		2141	BG	NET		239	54 44 23	133 34 74		150					BONGO
		2202	BG	TRAWL		240	54 44 11	133 34 984			SURFACE TOW				TRAWL
15	F1 06	2300	BG	CTD		241	54 43 55	133 42 63	219			1	H.M.		T: 6.07 S: 31.54
		2303	BO				54 43 54	133 42 81	212	200					Bottle - SAL/CAL/NUTS
		2307	EN				54 43 55	133 42 95							
		2311	BG	NET		242	54 43 56	133 43 10		150					BONGO
		2350	BG	TRAWL		243	54 43 655	133 45 733			Tow at 15m				TRAWL
16	1SEA01	1501	BG	CTD		244	55 27 88	132 04 01	430			1	H.M.		T: 5.51 S: 30.44
		1506	BO				55 27 79	132 04 05		250					Bottle - SAL/CAL/NUTS
		1509	EN				55 27 77	132 04 06							
		1515	BG	NET		245	55 27 71	132 04 02		150					BONGO
		1541	BG	TRAWL		246	55 28 070	132 03 923			SURFACE TOW				TRAWL

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53:06
55:36

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month MARCH				Year 2006				Ship W.C. RICKER			Cruise ID 2006-09				
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	15GA02	1700	BC	CTD		247	55 33 02	132 13 01	437			1	H.M.		T: 5.79 S: 30.52
		1704	BO				55 33 05	132 13 00		250					BOTEON - CAL/NUTS
		1708	EN				55 33 09	132 13 03							→ OVER
		1713	BC	NET		248	55 33 13	132 12 97		150					BONGO
		1738	BC	TRAWL		249	55 32 968	132 15 393		SURFACE TRAWL					TRAWL
16	15GA03	1851	BC	CTD		250	55 39 62	132 20 48	230			1	H.M.		T: 5.41 S: 28.35
		1855	BO				55 39 62	132 20 45	600+	230					BOTEON - SAL/CAL/NUTS
		1900	EN				55 39 63	132 20 42							
		1904	BC	NET		251	55 39 64	132 20 33		150					BONGO
		1926	BC	TRAWL		252	55 39 532	132 20 274		SURFACE TRAWL					TRAWL
16	15GA04	2045	BC	CTD		253	55 46 81	132 21 32	580			2	H.M.		T: 5.91 S: 30.58
		2056	BO				55 46 86	132 21 31		500					→ BOTEON - CAL/NUTS/SAL
		2106	EN				55 46 81	132 21 28							B@ 500 - SAL
		2110	BC	NET		254	55 46 85	132 21 23		150					BONGO
		2130	BC	TRAWL		255	55 47 364	132 20 903		SURFACE TRAWL					TRAWL

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Additional comments

CTD FROZEN WHEN DEPLOYED - DOWN TO 20m FOR 3 min - BACK TO SURFACE / START CAST

SURFACE READINGS OFTEN SUSPECT TO 10m

DAILY LOG

Ocean Sciences and Productivity Division

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Month <i>MARCH</i>				Year <i>2006</i>				Ship <i>W. E. RICKER</i>				Cruise ID <i>2006-09</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							
16	ISEA 05	2259	BC	CTD		256	55 54 30	132 27 50	266			1	14.01		T: 5.67 S: 29.26
		2303	BO				55 54 29	132 27 59		250					BOTOM - CAL/NUTS
		2307	EN				55 54 27	132 27 65							
		2312	BC	NET		257	55 54 20	132 27 69		150					BONGO
		2335	BE	TRAWL		258	55 55 36	132 27 75							TRAWL
17	ISEA 06	0046	BC	CTD		259	55 59 40	132 37 02	141			1	4.11		T: 5.33 S: 28.14
		0048	BO				55 59 43	132 37 05		130					BOTOM - SAL/CAL/NUTS
		0050	EN				55 59 42	132 37 03							
		0055	BC	NET		260	55 59 41	132 37 00		135					BONGO
		0143	BE	TRAWL		261	55 59 46	132 38 00							TRAWL
17	ISEA 07	1507	BC	CTD		262	56 13 96	132 45 93	187			1	4.11		T: 5.10 S: 30.52
		1511	BO				56 13 96	132 45 90		180					BOTOM - SAL/CAL/NUTS
		1514	EN				56 13 97	132 45 87							
		1519	BC	NET		263	56 14 02	132 45 73		150					BONGO
		1541	BE	TRAWL		264	56 14 20	132 44 22							TRAWL

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Additional comments

15GA 07 - STOPPED CAST AT 155 m FOR 1 min TO THAW SHIVE - CONTINUED TO 180 m

DAILY LOG

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Month MARCH				Year 2006			Ship W.E. RICKER				Cruise ID 2006-09				
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 08	1706	BC	CTD		265	56 20 53	132 35 48	283			1	H.M.		T: 5.29 S: 28.63
		1711	BO				56 20 59	132 35 48		256					BOT 10m - CAL/NOTS
		1715	GN				56 20 62	132 35 50							
		1719	BC	NET		266	56 20 67	132 35 51							BONGO
		1742	BC	TRAWL		267	56 21 823	132 35 572		SURFACE TUN.					TRAWL
17	ISCA 09	1856	BC	CTD		268	56 27 20	132 30 41	177			1	H.M.		T: 4.82 S: 29.10
		1859	BO				56 27 20	132 30 43		165					BOT 10m - SAL /CHL/NOTS
		1902	GN				56 27 19	132 30 53							* OVER
		1906	BC	NET		269	56 27 19	132 30 60		150					BONGO
		1928	BC	TRAWL		270	56 26 900	132 29 890		SURFACE TUN.					TRAWL
17	ISCA 10	2023	BC	CTD		271	56 26 29	132 24 74	56			1	H.M.		T: 5.00 S: 30.62
		2024	BO				56 26 28	132 24 74		50					BOT 10m - SAL/CHL/NOTS
		2025	GN				56 26 27	132 24 74							
		2030	BC	NET		272	56 26 18	132 24 70		43					BONGO
		2046	BC	TRAWL		273	56 26 584	132 25 362		SURFACE TUN.					TRAWL

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Additional comments

ISEA 69- PRIMARY SAL WENT WONKY ON UP CAST - ICE OR SOMETHING IN CALL - SEEMED TO CLEAR UP NEAR SURFACE

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INSTITUTE OF OCEAN SCIENCES

Month MARCH				Year 2006			Ship W.E. RICKER		Cruise ID Z006-09						
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	ISEA 14	1500	BG	CTD		283	56 58 77	134 22 27	347			1	H.M.		T: 3.81 S: 31.13
		1504	BO				56 58 79	134 22 43		250					BOT@10m - SAL/CHL/NUTS
		1508	EN				56 58 75	134 22 43							
		1514	BG	NET		284	56 58 67	134 22 42		150					BONGO
		1536	BG	TRAWL		285	56 58 450	134 20 718			SORFACE	Tow			TRAWL
18	ISGA 15	1730	BG	CTD		286	57 05 22	134 07 85	359			1	H.M.		T: 4.24 S: 31.65
		1735	BO				57 05 26	134 07 89		250					BOTE10m - CHL/NUTS
		1739	EN				57 05 28	134 07 94							
		1743	BG	NET		287	57 05 27	134 07 94		150					BONGO
		1802	BG	TRAWL		288	57 05 738	134 07.122			SURFACE Tow				TRAWL
18	ISGA 16	1918	BG	CTD		289	57 09 12	133 53 53	130			1	H.M.		T: 4.13 S: 30.50
		1920	BO				57 09 19	133 53 47		120					BOTE10m - SAL/CHL/NUTS
		1922	EN				57 09 22	133 53 44							
		1926	BG	NET		290	57 09 29	133 53 38		115					BONGO
		2011	BG	TRAWL		291	57 08 953	133 52 145			SURFACE Tow				TRAWL
										Avoid BACK EARLY DUE TO					
										DAMN PURPOSES IN AHEAD SHIP.					

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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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Ocean Sciences and Productivity Division										INSTITUTE OF OCEAN SCIENCES						
Month MARCH				Year 2006				Ship W.E. RICKER			Cruise ID 2006-09					
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	1SEA 17	21 19	BG	CTD		292	57 06 61	133 39 02	101			1	H.M.		T: 3.92 S: 31.41	
		21 21	BO				57 06 58	133 39 05		90					BOTOM - CAL / NUTS	
		21 23	GN				57 06 57	133 39 06								
		21 28	BG	NET		293	57 06 54	133 39 17							BONGO	
		21 47	BG	TRAWL		294	57 05 56.3	133 38 50.7			SURFACE TOW.				TRAWL	
18	1SEA 18	23 01	BE	CTD		295	57 03 21	133 29 59	73			1	H.M.		T: 3.83 S: 31.55	
		23 03	BO				57 03 23	133 29 51		65				*	BOTOM - SAL / CAL / NUTS	
		23 04	GN				57 03 23	133 29 49								
		23 10	BG	NET		296	57 03 30	133 29 29		60					BONGO	
		23 25	BG	TRAWL		297	57 03.094	133 27.706.			SURFACE TOW				TRAWL	
19	1SEA 19	00 28	BG	CTD		298	57 01 12	133 17 70	150			1	H.M.,		T: 3.96 S: 31.15	
		00 31	BO				57 01 12	133 17 71		140					BOTOM - CAL / NUTS	
		00 33	GN				57 01 13	133 17 69								
		00 41	BG	NET		299	57 01 15	133 17 68		140					BONGO	
		00 55	BG	TRAWL		300	57 01 15.8	133 16 80.3			SURFACE TOW				TRAWL	
XXXXXXXXXX																

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

Cast type:

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Daily_log_book.doc

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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							
19	ISCA 20	1500	BG	CTD		301	57 06 95	133 04 66	155			1	H.M.		T: 4.15 S: 31.05
		15 03	BO				57 00 97	133 04 70		145					BOT@10m - SAL/CHL/NUTS
		15 05	EN				57 00 98	133 04 70							
		15 11	BG	NET		302	57 01 04	133 04 78		143					BONGO
		15 31	BE	TRAWL		303	57 00 559	133 04 061			SURFACE TOW				TRAWL
19	ISCA 21	1757	BG	CTD		304	56 46 12	132 45 46	190			1	H.M.		T: 3.87 S: 30.94
		18 00	BO				56 46 14	132 45 35		180					BOT@10m - CHL/NUTS
		18 03	EN				56 46 16	132 45 33							
		18 07	BG	NET		305	56 46 21	132 45 27		150					BONGO
		18 26	BE	TRAWL		306	56 46 006	132 44 396			SURFACE TOW				TRAWL
19	ISCA 22	1950	BG	CTD		307	56 44 50	132 38 90	85			1	H.M.		T: 3.39 S: 30.70
		19 52	BO				56 44 49	132 38 88		75					BOT@10m - SAL/CHL/NUTS
		19 54	EN				56 44 49	132 38 83							
		19 58	BG	NET		308	56 44 44	132 38 88		60					BONGO
		20 15	BE	TRAWL		309	56 44 934	132 39 867			SURFACE TOW				TRAWL

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							Latitude	Longitude							
20	15GA 23	00 41	BG	CTD		310	56 30 04	132 58 74	67			1	H.M.		T: 5.48 si 31.19
		00 42	BO				56 30 05	132 58 75		55					BOTEION - CAL/NUTS
		00 44	GH				56 30 05	132 58 75							
		00 50	BE	NET		311	56 30 03	132 58 88		50					BONGO
		01 05	BE	TRAWL		312	56 29 715	132 57 538			SURFACE	TOWN			TRAWL
20	15GA 24	1506	BG	CTD		313	56 28 60	132 58 92	104			1	H.M.		T: 5.52 si 31.23
		1508	BO				56 28 60	132 58 91		95					BOTEION - SAL/CAL/NUTS
		15 10	GH				56 28 59	132 58 91							
		15 14	BG	NET		314	56 28 58	132 58 92		95					BONGO
		1532	BE	TRAWL		315	56 28 322	132 57 834			SURFACE	TOWN			TRAWL
20	15GA 25	1640	BE	CTD		316	56 28 07	132 47 72	97			1	H.M.		T: 5.34 si 31.15
		1641	BO				56 28 08	132 47 69		90					BOTEION - CAL/NUTS
		1643	GH				56 28 08	132 47 69							
		1647	BE	NET		317	56 28 11	132 47 71		84					BONGO
		17 34	BE	TRAWL		318	56 28 200	132 46 658			SURFACE	TOWN			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							
20	ISCA 26	1755	BC	CTD		319	56 27 57	132 41 12	106			1	H.M.		T: 5.16 S: 30.60
		1756	BO				56 27 58	132 41 13		100					BOTOM. SAL/CHL/NUIS
		1758	EN				56 27 59	132 41 12							
		1803	BC	NET		320	56 27 69	132 40 98		85					BONGO
		1822	BC	TRAWL		321	56 27 113	132 40 261			SURFACE TOW				TRAWL
20	ISCA 27	2010	BC	CTD		322	56 22 19	132 23 73	119			1	H.M.		T: 5.45 S: 30.79
		2012	BO				56 22 19	132 23 70		110					BOTOM. CAL/NUIS
		2014	EN				56 22 19	132 23 70							
		2019	BC	NET		323	56 22 24	132 23 80		100					BONGO
		2037	BC	TRAWL		324	56 23 063	132 23 240			SURFACE TOW				TRAWL
20	ISCA 28	2204	BC	CTD		325	56 29 83	132 30 37	56			1	H.M.		T: 5.40 S: 30.61
		2205	BO				56 29 83	132 30 38		50					BOTOM. SAL/CHL/NUIS
		2206	EN				56 29 82	132 30 40							
		2210	BC	NET		326	56 29 77	132 30 50		46					BONGO
		2225	BC	TRAWL		327	56 29 261	132 31 629			SURFACE TOW FOR 15 min				TRAWL
											Tow AT 19m for 15 min.				

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DAILY LOG

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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							
20	1SEA 29	23 20	BC	CTD		328	56 25 06	132 34 80	227			1	H.M.		T: 5.39 S: 30.79
		23 24	BO				56 25 02	132 34 80		215					BOTE 10m - CHL/NUTS
		23 28	CH				56 24 97	132 34 80							
		23 33	BC	NET		329	56 24 97	132 34 78		150					BONGO
		23 54	BE	TRAWL		330	56 24 191	132 35 137	SURFACE TOWED FOR 15min /						TRAWL
20															
21	1BC 8	14 53	BC	CTD		331	54 41 22	130 56 49	465			1	H.M.		T: 6.19 S: 31.19
		14 57	BO				54 41 21	130 56 48		250					BOTTOM - SAL/CHL/NUTS
		15 01	CH				54 41 20	130 56 47							
		15 07	BC	NET		332	54 41 15	130 56 51		150					BONGO
		15 31	BE	TRAWL		333	54 40 853	130 55 131	SURFACE TOWED FOR 15min /						TRAWL
21															
21	1BC 9	16 35	BC	CTD		334	54 40 86	130 47 54	348			1	H.M.		T: 6.31 S: 31.10
		16 40	BO				54 40 84	130 47 54		250					BOTTOM - CHL/NUTS
		16 43	CH				54 40 86	130 47 57							
		16 49	BC	NET		335	54 40 91	130 47 57		150					BONGO
		17 07	BE	TRAWL		336	54 40 767	130 46 513	SURFACE TOWED FOR 15min / Towed AT						TRAWL
21															
									10m FOR 15min						

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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	IBC 10	1814	BE	CTD		337	54 40 93	130 36 60	225			1	H.M.		T: 6.36 S: 31.11
		1818	BO				54 40 96	130 36 63		215					BOTOM - SAL/CHL/NUTS
		1821	EN				54 40 99	130 36 63							
		1825	BE	NET		338	54 41 03	130 36 62		150					BONGO
		1847	BE	TRAWL		339	54 40 99.3	130 35 55.4	SURFACE TOW FOR 15 minutes						TRAWL
									Tow AT 10m FOR 15 min.						
21	IBC 11	2007	BE	CTD		340	54 43 94	130 25 20	510			1	H.M.		T: 6.26 S: 31.22
		2011	BO				54 43 93	130 25 17		250					BOTOM - CAL/NUTS
		2015	EN				54 43 94	130 25 14							
		2020	BE	NET		341	54 43 97	130 25 10		150					BONGO
		2051	BE	TRAWL		342	54 45 05.9	130 24 89.7	SURFACE TOW FOR 15 min.						TRAWL
									Tow AT 10m FOR 15 min.						
21	IBC 12	2148	BE	CTD		343	54 47 73	130 18 31	460			1	H.M.		T: 6.04 S: 31.05
		2152	BO				54 47 71	130 18 31		250					BOTOM - SAL/CHL/NUTS
		2156	EN				54 47 69	130 18 31							
		2200	BE	NET		344	54 47 67	130 18 32		150					BONGO
		2221	BE	TRAWL		345	54 48 59.2	130 17 96.9	SURFACE TOW FOR 15 min.						TRAWL
									Tow AT 10m FOR 15 min.						

Cast type:

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Month MARCH				Year 2006				Ship W.E. RICKER				Cruise ID 2006-09			
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							
21	IBC 13	2319	BE	CTD		346	54 51 83	130 12 14	433			1	H.M.		T: 6.48 S: 31.25
		2323	BO				54 51 89	130 12 15		250					BOT 10m - CAC / NUT
		2327	GH				54 51 92	130 12 20							
		2331	BE	NET		347	54 51 94	130 12 24		150					BONGO
		2351	BE	TRAWL		348	54 52 362	130 11 166							TRAWL
22	IBC 14	0200	BE	CTD		349	55 01 18	130 01 64	199			1	H.M.		T: 6.10 S: 30.59
		0203	BO				55 01 20	130 01 67		175					BOT 10m - SAL / CHL / NUTS
		0206	GH				55 01 22	130 01 67							
		0211	BE	NET		350	55 01 22	130 01 68		150					BONGO
		0230	BE	TRAWL		351	55 00 890	130 03 272							TRAWL
24	V1 11	1504	BE	CTD		352	50 23 86	128 00 99	179			1	H.M.		T: 7.91 S: 30.92
		1507	BO				50 23 91	128 00 95		165					BOT 10m - SAL / CHL / NUTS
		1511	GH				50 23 91	128 00 89							
		1519	BE	NET		353	50 23 79	128 00 87		125					BONGO
		1546	BE	TRAWL		354	50 22 69	128 02 09							TRAWL

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Daily_log_book.doc

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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							
24	VI 12	1708	BE	CTD		355	50 14 72	128 03 97	105			1	H.M.		T: 8.16 S: 31.41
		1710	BO				50 14 63	128 04 03		95					BOTEID - CHL/NUTS
		1712	EN				50 14 57	128 04 07							
		1718	BE	NET		356	50 14 42	128 04 23							BONGO
		1739	BE	TRAWL		357	50 12 90	128 03 64			SURFACE TOW				TRAWL
24	VI 13	1849	BE	CTD		358	50 07 14	127 58 46	71			1	H.M.		T: 8.10 S: 31.02
		1851	BO				50 07 16	127 58 47		60					BOTEID - SAL/CHL/NUTS
		1852	EN				50 07 16	127 58 47							
		1858	BE	NET		359	50 07 22	127 58 48		60					BONGO
		1946	BE	TRAWL		360	50 06 607	127 58 216			SURFACE TOW				TRAWL
24	VI 14	2033	BE	CTD		361	50 03 36	127 50 70	59			1	H.M.		T: 8.02 S: 30.84
		2034	BO				50 03 41	127 50 79		50					BOTEID - CHL/NUTS
		2036	EN				50 03 42	127 50 83							
		2042	BE	NET		362	50 03 33	127 50 90							BONGO
		2130	BE	TRAWL		363	50 03 038	127 50 660			SURFACE TOW				TRAWL

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Daily_log_book.doc

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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							
24	VI 15	2209	BE	CTD		364	50 01 29	127 42 98	87			1	H.M.		T: 8.27 S: 31.59
		2211	BO				50 01 28	127 42 98		75					BOTEION. SAL/CHL/NUTS
		2212	EN				50 01 27	127 42 97							
		2218	BE	NET		365	50 01 22	127 43.03		70					BONGO
		2236	BE	TRAWL		366	50 00 872	127 42 403			SURFACE	TOW			TRAWL
24 VI 15 2209 BE CTD 364 50 01 29 127 42 98 87 75 1 H.M. T: 8.27 S: 31.59 BOTEION. SAL/CHL/NUTS															
25	VI 30	1510	BE	CTD		367	49 40 21	126 08 51	356			1	H.M.		T: 8.30 S: 28.19
		1515	BO				49 40 20	126 08 45		250					BOTEION. SAL/CHL/NUTS
		1518	EN				49 40 19	126 08 44							
		1522	BE	NET		368	49 40 17	126 08 49		150					BONGO
		1547	BE	TRAWL		369	49 40 077	126 10 107			SURFACE	TOW			TRAWL
25 VI 30 1510 BE CTD 367 49 40 21 126 08 51 356 250 1 H.M. T: 8.30 S: 28.19 BOTEION. SAL/CHL/NUTS															
25	VI 31	1641	BE	CTD		370	49 38 78	126 15 61	343			1	H.M.		T: 8.34 S: 28.79
		1646	BO				49 38 79	126 15 55		250					BOTEION. CHL/NUTS
		1649	EN				49 38 78	126 15 52							
		1653	BE	NET		371	49 38 77	126 15 41		150					BONGO
		1712	BE	TRAWL		372	49 38 777	126 16.559			SURFACE	TOW.			TRAWL
25 VI 31 1641 BE CTD 370 49 38 78 126 15 61 343 250 1 H.M. T: 8.34 S: 28.79 BOTEION. CHL/NUTS															

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

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Daily_log_book.doc

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MARCH				2006				W.E. RICKER				2006-09			
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							
25	VI 32	18 32	BC	CTD		373	49 38 62	126 29 26	175			1	H.M.		T: 8.00 S: 28.62
		18 35	BO				49 38 59	126 29 28		165					BOTTOM - SAL/CHL/NUIS
		18 38	CH				49 38 57	126 29 36							
		18 44	BC	NET		374	49 38 46	126 29 31		150					BONGO
		19:03	BC	TRAWL		375	49 38 56	126 29 25			SURFACE	TOW			TRAWL
26	VI 16	14 49	BC	CTD		376	48 43 41	125 12 98	63			1	H.M.		T: 8.66 S: 30.25
		14 50	BO				48 43 41	125 13 00		55					BOTTOM - SAL/CHL/NUIS
		14 51	CH				48 43 42	125 13 00							
		15 03	BC	NET		377	48 43 46	125 13 19		50					BONGO
		15 10	BC	TRAWL		378	48 43 12	125 13 13			SURFACE	TOW			TRAWL
26	VI 17	16 44	BC	CTD		379	48 38 83	125 08 42	76			1	H.M.		T: 8.99 S: 30.98
		16 45	BO				48 38 83	125 08 47		70					BOTTOM - CHL/NUIS
		16 46	CH				48 38 88	125 08 49							
		16 52	BC	NET		380	48 38 89	125 08 54		66					BONGO
		17 08	BC	TRAWL		391	48 38 74	125 08 32		15 min @ 10m, 15 min @ SURFACE					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
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>MARCH</i>				Year <i>2006</i>				Ship <i>W.E. RICKER</i>				Cruise ID <i>2006-09</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							
26	VI 18	1828	BE	CTD		382	48 34 39	125 01 64	68			1	H.M.		T: 9.10 S: 31.93
		1829	BO				48 34 40	125 01 59		50					BOT 10m - SAL/CAL/NUTS
		1830	EN				48 34 40	125 01 57							
		1836	BE	NET		383	48 34 43	125 01 44		57					BONGO
		1854	BE	TRAWL		384	48 33 980	125 00 622		15min @ 10m, 15min @ surface					TRAWL
26	VI 19	2008	BE	CTD		385	48 36 06	124 57 10	61			1	H.M.		T: 9.07 S: 31.12
		2009	BO				48 36 07	124 57 12		50					BOT 10m - CAL/NUTS
		2010	EN				48 36 08	124 57 13							
		2015	BE	NET		386	48 36 11	124 57 20		45					BONGO
			BE	TRAWL		387	48 36 389	124 56 405		15min @ 10m, 15min @ surface					TRAWL
26	VI 20	2130	BE	CTD		388	48 37 50	124 52 08	47			1	H.M.		T: 8.92 S: 29.57
		2131	BO				48 37 50	124 52 08		40					BOT 10m - SAL/CAL/NUTS
		2132	EN				48 37 51	124 52 07							
		2136	BE	NET		389	48 37 52	124 52 02							BONGO
		2221	BE	TRAWL		390	48 37 357	124 51 027		15min @ 10m, 5min @ surface					TRAWL

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