

DAILY LOG BOOK

MISSION
NUMBER

2007-42

DATE:

From: June 19/07 to: July 7/07

VESSEL:

W. E. RICHER

PROJECT:

TRUDEL - Hi Seas SALMON

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

Captain: STU ALDRIDGE First Officer: DARYL HARTENKO
Second Officer: DEVEN CICCOMA Third Officer: _____

Mission Participants / Agencies: PPS / OS

Scientific Personnel: Party Chief: MARC TRUDÉL

[illegible]

Second leg of Mission: Party Chief:

[illegible]

Data logging computer: PACOSAP F 303

Data acquisition program:

CTD deck unit make: SEA-BIRD model: 11 serial number: 1106377-0471

Primary CTD

Make: SEALED model: 9 serial number: 0506

Primary temperature serial number: 4484

Primary conductivity serial number:	2280
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Secondary temperature serial number: 2710

Secondary conductivity serial number: 764

Transmissometer: ☒ Model: 498DR
s/n: 498DR

Fluorometer: Model SEAPOINT Cable gain: 10 x 0.15 s/n: 7229 **P** S or NO numm?

Oxygen sensor: _____

Cable gain: _____ s/l: ZZZ P/S or NO pump? _____

Model: _____ s/n: ZZZ P/S or NO pump? _____

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

F, S or NO pump? _____ s/n: _____
Model: _____

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

Other sensors: _____

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

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

Other sensors:

s/n: _____

P, S or NO pump? _____

s/n: _____

P, S or NO pump? _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer: _____ Model: _____

Fluorometer: Model _____ Cable gain: _____
 Model: _____

Oxygen sensor: _____
Cable gain: _____
Model: _____

Only use these tags: PAR sensor: Model:

Other sensors: _____
Model: _____

Other sensors:

Other sensors:

Other sensors: _____

Other sensors: _____

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

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Month <i>JUNE</i>				Year <i>2007</i>				Ship <i>W.E. RICKER</i>				Cruise ID <i>2007-42</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
20	JF 01		BC	CTD		001			142			0	H.T.	✓	CTD ABORTED - NO
			BO							130					NMGA FEED
			CM												
		1416	BC	NET		002	48° 17.31	123° 39.61							
		1545	BC	TRAWL		003	48 17.968	123 40.354			SURFACE TOW				
20	JF 02	1651	BC	CTD		004	48° 19.98	123° 49.92	144			1			T: 9.06 SL 31.79
		1654	BO				48° 19.96	123° 49.94		135					BOTE 10m - SAC/CAL/NUTS
		1658	CM				48° 19.95	123° 49.97							* NO NMGA
		1702	BC	NET		005	48° 19.93	123° 49.91		134					BONGO
		1724	BC	TRAWL		006	48 20.222	123 51.419		SURFACE TOW					TRAWL
20	JF 03	1840	BC	CTD		007	48° 23.27	124° 04.01	103			1			T: 8.99 S: 32.02
		1843	BO				48° 23.28	124° 04.03		95					BOTE 10m - SAC/CAL/NUTS
		1846	CM				48° 23.31	124° 04.08							
		1850	BC	NET		008	48° 23.35	124° 04.19		90					BONGO
		1910	BC	TRAWL		009	48 23.699	124 05.785		SURFACE TOW					TRAWL

Cast type:

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

USW = sea water loop
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 DRF = drifter

bottle firing method:

US = up/stop
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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	IF04	2026	BE	CTD		010	48° 26. 80	124° 18. 41	105			1	H.M.		T: 9.45 S: 31.98
		2030	BO				48° 26. 83	124° 18. 50		100					BOT @ 10m - SAL/CAL/NUTS
		2032	EN				48° 26. 85	124° 18. 66							
		2037	BE	NET		011	48° 26. 92	124° 18. 83		100					BONGO
		2056	BE	TRAWL		012	48 27 528	124 20. 62			SURFACE	Tow.			TRAWL
20	IF05	2203	BE	CTD		013	48° 29. 89	124° 30. 13	163			1			T: 10. 40 S: 31.88
		2207	BO				48° 29. 86	124° 30. 22		150					BOT @ 10m - SAL/CAL/NUTS
		2210	EN				48° 29. 87	124° 30. 33							
		2214	BE	NET		014	48° 29. 86	124° 30. 52		150					BONGO
		2236	BE	TRAWL		015	48 30 223	124 31. 813			SURFACE	Tow.			TRAWL
	IF06	2348	BE	CTD		016	48° 32. 82	124° 41. 85	117			1			T: 10.51 S: 31.72
		2351	BO				48° 32. 83	124° 41. 88		105					BOT @ 10m - SAL/CAL/NUTS
		2354	EN				48° 32. 83	124° 41. 90							
		2355	BE	NET		017	48° 32. 83	124° 41. 90							BONGO
21		0017	BE	TRAWL		018	48 33 117	124 42 927			SURFACE	Tow.			TRAWL

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							Latitude	Longitude							
21	IF 07	01 42	BE	CTD		019	48° 36.00	124° 53.91	60			1	H.M.		T: 12.07 S: 31.34
		01 44	BO				48° 36.00	124° 53.78		50					BOTE 10 m. SAL/CAL/NUTS
		01 45	EN				48° 36.01	124° 53.73							
		01 49	BE	NET		020	48° 35.99	124° 53.71							BONGO
		02 05	BE	TRAWL		021	48 36.407	124 54.815			SURFACE TOW.				TRAWL
DATA COPIED TO MEMORY STICK															
21	IVI 01	15 02	BE	CTD		022	48° 57.96	125° 06.34	91			1		✓	T: 15.42 SAL: 22.73
		15 04	BO				48° 57.95	125° 06.33		80					BOTE 10 m. SAL/CAL/NUTS
		15 07	EN				48° 57.92	125° 06.29							
		15 20	BE	NET		023	48° 57.94	125° 06.32		84					BONGO
		15 42	BE	TRAWL		024	48 57.212	125 06.213			SURFACE TOW				TRAWL
21	IVI 02	16 37	BE	CTD		025	48° 55.22	125° 11.83	95			1			T: 13.48 S: 27.11
		16 40	BO				48° 55.23	125° 11.83		85					BOTE 10 m. SAL/CAL/NUTS
		16 42	EN				48° 55.24	125° 11.83							
		16 46	BE	NET		026	48° 55.25	125° 11.82							BONGO
		17 05	BE	TRAWL		027	48 54.672	125 12.582			SURFACE TOW				TRAWL

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21	VI 03	1801	BE	CTD		028	48° 50. 85	125° 15. 83	90			1	H.M.		T: 13.35 S: 30.46
		1804	BO				48° 50. 85	125° 15. 85		80					BOT@10m - SAL/CAL/NTS
		1807	EN				48° 50. 83	125° 15. 87							
		1811	BE	NET		029	48° 50. 84	125° 15. 90		80					BONGO
		1833	BE	TRAWL		030	48 49. 68	125 16. 024		SURFACE TOW					TRAWL
21	VI 01	1901	BE	CTD	*	031	48° 45. 69	125° 24. 06	95			1			T: 11.74 S: 31.45
		?	BO				?	?		85					BOT@10m - SAL/CAL/NTS
		1906	EN				48° 45. 68	125° 24. 01							G.P.S NOW WORKING
		1910	BE	NET		032	48° 45. 66	125° 23. 97		84					BONGO
		1924	BE	TRAWL		033	48 45 171	125 24. 596		SURFACE TOW					TRAWL
21	VI 02	2038	BE	CTD		034	48° 41. 31	125° 33. 76	157			1			T: 11.33 S: 31.37
		2041	BO				48° 41. 32	125° 33. 72		145					BOT@10m - SAL/CAL/NTS
		2046	EN				48° 41. 35	125° 33. 63							
		2049	BE	NET		035	48° 41. 36	125° 33. 60		133					BONGO
		2108	BE	TRAWL		036	48 40. 663	125 34 419		SURFACE TOW					TRAWL

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- GPS BACK WORKING - NOW IN CTD FILES (ADDED)

* - TIME - COMPUTER SATS 2001 - GPS SATS 1901 - ALL CAST PREVIOUS TO VI 01 SHOULD HAVE 1 HR
SUBTRACTED FROM LISTED TIMES

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							Latitude	Longitude							
21	VI 03	2230	BE	CTD		037	48° 34.47	125° 42.48	65			1	H.m.		T: 10.88 S: 31.67
		2232	BO				48° 34.47	125° 42.47		55					BOT@10m - SAL/CAL/NTS
		2234	EN				48° 34.46	125° 42.45							
		2239	BE	NET		038	48° 34.40	125° 42.42		55					BONGO
		2255	BE	TRAWL		039	48° 34.276	125° 43.395			SURFACE	Tow			TRAWL
22	VI 04	0044	BE	CTD		040	48° 30.18	125° 52.67	100			1			T: 13.09 S: 31.61
		0046	BO				48° 30.16	125° 52.61		90					BOT@10m - SAL/CAL/NTS
		0049	EN				48° 30.14	125° 52.56							
		0053	BE	NET		041	48° 30.07	125° 52.45		90					BONGO
		0111	BE	TRAWL		042	48° 30.337	125° 53.481			SURFACE	Tow.			TRAWL
22 VI 05 1400 BE CTD 043 49° 06.08 126° 00.02 41															
22	VI 05	1400	BE	CTD		043	49° 06.08	126° 00.02	41			1		✓	T: 11.95 S: 31.65
		1402	BO				49° 06.09	126° 00.03		30					BOT@10m - SAL/CAL/NTS
		1404	EN				49° 06.10	126° 00.04							
		1408	BE	NET		044	49° 06.12	126° 00.03		31					BONGO
		1424	BE	TRAWL		045	49° 05.529	126° 01.035			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							
22	VI 06	1520	BE	CTD		046	49° 02.52	126° 06.04	57			1	H.M.		T: 11.94 S: 31.62
		1521	BO				49° 02.52	126° 06.04		45					BOT@10m - SAL/CAL/NOTS
		1523	EN				49° 02.54	126° 06.05							
		1527	BE	NET		047	49° 02.57	126° 06.06		46					BONGO
		1542	BE	TRAWL		048	49° 02.133	126° 06.920		SURFACE TOW					TRAWL
22	VI 07	1637	BE	CTD		049	48° 58.93	126° 12.10	90			1			T: 12.32 S: 31.51
		1640	BO				48° 58.93	126° 12.13		80					BOT@10m - SAL/CAL/NOTS
		1642	EN				48° 58.94	126° 12.14							
		1646	BE	NET		050	48° 58.91	126° 12.11							BONGO
		1709	BE	TRAWL		051	48° 58.347	126° 13.161		SURFACE TOW					TRAWL
22	VI 08	1759	BE	CTD		052	48° 55.49	126° 17.39	125						T: 12.67 S: 31.54
		1802	BO				48° 55.50	126° 17.35		115					BOT@10m - SAL/CAL/NOTS
		1805	EN				48° 55.51	126° 17.32							
		1809	BE	NET		053	48° 55.53	126° 17.29		110					BONGO
		1826	BE	TRAWL		054	48° 55.155	126° 17.909		SURFACE TOW					TRAWL

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22	VI 09	1926	BE	CTD		055	48° 52.02	126° 23.63	162			1	H.M.		T: 12.63 S: 31.53
		1930	BO				48° 52.01	126° 23.53		150					BOT@10m - SAL/CAL/NUTS
		1933	EN				48° 52.01	126° 23.43							
		1937	BE	NET		056	48° 51.98	126° 23.26		145					BONGO
		1957	BE	TRAWL		057	48 51 46	126 23.933		SURFACE Trawl					TRAWL
22	VI 10	2100	BE	CTD		058	48° 48.28	126° 29.82	230			1			T: 12.37 S: 31.83
		2105	BO				48° 48.24	126° 29.69		220					BOT@10m - SAL/CAL/NUTS
		2109	EN				48° 48.25	126° 29.59							
		2114	BE	NET		059	48° 48.19	126° 29.41		150					BONGO
		2135	BE	TRAWL		060	48 47.589	126 29.708		SURFACE Trawl					TRAWL
22	VI 11	2243	BE	CTD		061	48° 44.56	126° 35.93	777			1			T: 12.32 S: 31.84
		2248	BO				48° 44.57	126° 35.05		250					BOT@10m - SAL/CAL/NUTS
		2253	EN				48° 44.53	126° 35.78							
		2257	BE	NET		062	48° 44.47	126° 35.71		150					BONGO
		2312	BE	TRAWL		063	48 43 904	126.36.375		SURFACE Trawl					TRAWL

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							Latitude	Longitude							
23	V1 12	0037	BE	CTD		064	48° 50.47	126° 34.21	296			1	H.M.		T: 12.25 S: 31.83
		0043	BO				48° 50. 40	126° 34. 11		250					BOTOM - SAL/CAL/NOTS
		0050	EN				48° 50. 33	126° 33. 98							
		0053	BE	NET		065	48° 50. 27	126° 33. 93		150					BONGO
		0114	BE	TRAWL		066	48 50. 76	126 32 654		SURFACE Trawl					TRAWL
23															
23	EP 01	1559	BE	CTD		067	49° 21. 03	126° 31. 69	34			1		✓	T: 11.54 S: 31.26
		16 00	BO				49° 21. 09	126° 31. 70		29					BOTOM - SAL/CAL/NOTS
		16 02	EN				49° 21. 09	126° 31. 71							
		16 06	BE	NET		068	49° 21. 10	126° 31. 71							BONGO
		1622	BE	TRAWL		069	49 20 595	126 31. 629		SURFACE Trawl					TRAWL
23	EP 02	1719	BE	CTD		070	49° 18. 95	126° 36. 17	81			1			T: 12.46 S: 31.68
		1721	BO				49° 18. 98	126° 36. 18		73					BOTOM - SAL/CAL/NOTS
		1723	EN				49° 19. 00	126° 36. 19							
		1727	BE	NET		071	49° 19. 02	126° 36. 11		70					BONGO
		1745	BE	TRAWL		072	49. 18. 449	126. 37. 188		SURFACE Trawl					TRAWL

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							Latitude	Longitude							
23	EP03	1905	BE	CTD		073	49° 16.83	126° 40.80	108			1	H.M.		T: 12.40 S: 31.64
	*	1907	BO		*		49° 16.88	126° 40.80		100	*				BOT@10m - SAL/CAL/NOTS
	*	1910	EN		*		49° 16.91	126° 40.78			*				
		1914	BE	NET		074	49° 16.96	126° 40.71		98					BONGO
		1932	BE	TRAWL		075	49 16.728	126 41.306			SURFACE Trawl				TRAWL
23	GP 04	2023	BE	CTD		076	49° 14.76	126° 45.22	115			1			T: 11.57 S: 31.60
		2025	BO				49° 14.78	126° 45.19		105					BOT@10m - SAL/CAL/NOTS
		2027	EN				49° 14.81	126° 45.21							
		2031	BE	NET		077	49° 14.88	126° 45.21							BONGO
		2032	BE	TRAWL		078	49.14.404	126 45.893			SURFACE Trawl				TRAWL
23	EP 05	2144	BE	CTD		079	49° 12.37	126° 49.69	139			1			T: 11.61 S: 31.49
		2147	BO				49° 12.38	126° 49.62		130					BOT@10m - SAL/CAL/NOTS
		2150	EN				49° 12.38	126° 49.60							
		2154	BE	NET		080	49° 12.38	126° 49.56		122					BONGO
		2214	BE	TRAWL		081	49 11.944	126 50.244			SURFACE Trawl				TRAWL

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LABELLING WRONG FROM EP03 - EP07 - (EP03)
CTD = 073 BONGO = 074

EP07 CTD = 085 BONGO = 086

} OFF BT ON LABELS

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

[illegible]

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Month JUNE				Year 2007			Ship W.E. RICKER				Cruise ID 2007-42				
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 14	1514	BE	CTD		091	49° 35.99	127° 01.60	98			1	H.M.		T: 11.63 S: 31.64
		1517	BO				49° 36.01	127° 01.61		90					BOT@ 10m. SAL/CAL/HUTS
		1519	EN				49° 36.03	127° 01.64							
		1523	BG	NET		092	49° 36.06	127° 01.68		89					BONGO
		1540	BG	TRAWL		093	49 35.656	127 2.598			SURFACE	Tow.			TRAWL
24	VI 15	1636	BG	CTD		094	49° 32.66	127° 07.56	129			1			T: 11.62 S: 31.90
		1638	BO				49° 32.66	127° 07.56		120					BOT@ 10m. SAL/CAL/HUTS
		1642	EN				49° 32.65	127° 07.54							
		1646	BG	NET		095	49° 32.63	127° 07.48		114					BONGO
		1705	BG	TRAWL		096	49 32.171	127 08.250			SURFACE	Tow.			TRAWL
24	VI 16	1813	BG	CTD		097	49° 29.42	127° 13.61	177			1			T: 11.56 S: 31.82
		1817	BO				49° 29.43	127° 13.56	168	160					BOT@ 10m. SAL/CAL/HUTS
		1820	EN				49° 29.42	127° 13.49							
		1824	BG	NET		098	49° 29.44	127° 13.47		150					BONGO
		1917	BG	TRAWL		099	49 29.050	127 14.332			SURFACE	Tow.			TRAWL

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Month JUNE				Year 2007			Ship W.E. RICKER				Cruise ID 2007-42				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
24	VI 17	2140	BE	CTD		100	49° 42.67	127° 20.25	106			1	H.M.		T: 12.13 S: 31.68
		2143	BO				49° 42.64	127° 20.28		95					BOT@10m - SAL/CAL/NTS
		2145	EN				49° 42.62	127° 20.29							
		2149	BE	NET		101	49° 42.58	127° 20.36		100					BONGO
		2208	BE	TRAWL		102	49 43.651	127 20.235			SURFACE Trawl				TRAWL
24	VI 18	2307	BG	CTD		103	49° 46.59	127° 19.69	80			1			T: 12.33 S: 31.82
		2309	BO				49° 46.58	127° 19.72		70					BOT@10m - SAL/CAL/NTS
		2311	EN				49° 46.58	127° 19.75							
		2315	BG	NET		104	49° 46.56	127° 19.85		69					BONGO
		2331	BE	TRAWL		105	49 47 392	127 20.4913			SURFACE Trawl				TRAWL
25	VI 19	0044	BG	CTD		106	49° 52.47	127° 20.98	66			1			T: 13.10 S: 31.52
		0046	BO				49° 52.48	127° 21.01		55					BOT@10m - SAL/CAL/NTS
		0047	EN				49° 52.49	127° 21.02							
		0052	BG	NET		107	49° 52.51	127° 21.16		5					BONGO
		0105	BE	TRAWL		108	49 53 338	127 20.902			SURFACE Trawl				TRAWL

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Month JUNE				Year 2007			Ship W.E. RICHER				Cruise ID 2007-42				
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 20	1402	BE	CTD		109	49° 55.97	127° 19.99	61			1	H.M.	✓	T: 12.25 S: 30.72
		1403	BO				49° 55.97	127° 19.94		50					BOT@10m - SAL/CAL/NUTS
		1405	EN				49° 55.97	127° 19.93							
		1409	BE	NET		110	49° 55.99	127° 19.85		51					BONGO
		1425	BE	TRAWL		111	49 55 889	127 21 410			SURFACE TOW				TRAWL
25	VI 21	1521	BE	CTD		112	49° 55.27	127° 28.45	61			1			T: 12.11 S: 31.57
		1523	BO				49° 55.27	127° 28.45		50					BOT@10m - SAL/CAL/NUTS
		1525	EN				49° 55.26	127° 28.44							
		1530	BE	NET		113	49° 55.25	127° 28.34							BONGO
			BE	TRAWL		NO	FISHING -								TRAWL
				MEDI VAC											
25	VI 22	1805	BE	CTD	*	114	49° 59.10	127° 34.01	57		*	1			T: 12.02 S: 31.61
		1807	BO				49° 59.10	127° 34.00		50					BOT@10m - SAL/CAL/NUT
		1809	EN				49° 59.11	127° 33.99							
		1809	BE	NET		115	49° 59.09	127° 33.95							BONGO
		1830	BE	TRAWL		116	49 59 282	127 35 355			SURFACE TOW				TRAWL

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Month JUNE				Year 2007			Ship W.E. RICKER				Cruise ID 2007-42				
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 23	1920	BG	CTD		117	50° 00.12	127° 41.09	89			1	H.M.		T: 12.03 S: 31.58
		1922	BO				50° 00.13	127° 41.09		80					BOT@10m - SAL/CHL/NUTS
		1924	EH				50° 00.13	127° 41.09							
		1927	BE	NET		118	50° 00.13	127° 41.06		79					BOT@GO
		1944	BE	TRAWL		119	50 00 19.1	127 42 20.4			SURFACE TOW				TRAWL
25	VI 24	2107	BE	CTD		120	50° 02.54	127° 49.67	75			1			T: 12.47 S: 31.27
		2109	BO				50° 02.55	127° 49.68		65					BOT@10m - SAL/CHL/NUTS
		2111	EH				50° 02.56	127° 49.69							
		2114	BE	NET		121	50° 02.58	127° 49.72		59					BONGO
		2130	BE	TRAWL		122	50 03 05.0	127 51 11.2			SURFACE TOW				TRAWL
25	VI 25	2234	BE	CTD		123	50° 06.22	127° 58.13	79			1			T: 11.63 S: 31.60
		2236	BO				50° 06.22	127° 58.12		70					BOT@10m - SAL/CHL/NUTS
		2238	EH				50° 06.23	127° 58.08							
		2241	BE	NET		124	50° 06.23	127° 58.06		63					BONGO
		2254	BE	TRAWL		125	50 06 28.7	127 58.813			SURFACE TOW				TRAWL

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Ocean Sciences and Productivity Division

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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
26	VI 26	0034	BE	CTD		126	50° 14.25	128° 02.54	83			1	H.M.		T: 11.87 S: 31.69
		0036	BO				50° 14.36	128° 02.47		75			}		BOT@10m - SAL/CAL/NUTS
		0038	EN				50° 14.28	128° 02.39							
		0042	BE	NET		127	50° 14.27	128° 02.26		68					BONGO
		0048	BE	TRAWL		128	50 15 068	128 03.018		SURFACE Trawl.					TRAWL
26 VI 26 0050 BE CTD 129 50° 14.25 128° 02.54 83															
26	VI 27	1400	BE	CTD		129	50° 25.02	128° 00.03	160			1		✓	T: 11.77 S: 31.08
		1403	BO				50° 25.06	128° 00.00		150					BOT@10m - SAL/CAL/NUTS
		1407	EN				50° 25.08	128° 00.02							
		1412	BE	NET		130	50° 25.06	128° 00.07		143					BONGO
		1432	BE	TRAWL		131	50 24 463	128 01.056		SURFACE Trawl					TRAWL
26	VI 28	1527	BE	CTD		132	50° 21.46	128° 06.09	84			1			T: 11.53 S: 31.79
		1529	BO				50° 21.48	128° 06.07		75					BOT@10m - SAL/CAL/NUTS
		1531	EN				50° 21.50	128° 06.07							
		1536	BE	NET		133	50° 21.54	128° 06.03		74					BONGO
		1554	BE	TRAWL		134	50 21.112	128 06.986		SURFACE Trawl					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							
26	VI 29	1652	BE	CTD		135	50° 17.96	128° 11.82	169			1	H.M.		T: 11.39 S: 31.84
		1656	BO				50° 17.96	128° 11.74		160					BOTOM. SAL/CAL/NUIS
		1700	EN				50° 17.97	128° 11.66							
		1704	BE	NET		136	50° 17.98	128° 11.62		150					BONGO
		1724	BE	TRAWL		137	50 17 297	128 11.550			SURFACE	TOW			TRAWL
26	VI 30	1805	BE	CTD		138	50° 15.27	128° 16.45	737			1			T: 11.51 S: 31.92
		1810	BO				50° 15.30	128° 16.40		250					BOTOM. SAL/CAL/NUIS
		1815	EN				50° 15.33	128° 16.35							
		1819	BE	NET		139	50° 15.36	128° 16.31		150					BONGO
		1839	BE	TRAWL		140	50 14.893	128			SURFACE	TOW			TRAWL
26	VI 31	1939	BE	CTD		141	50° 11.76	128° 21.96	1202			1			T: 11.82 S: 31.85
		1944	BO				50° 11.73	128° 21.89		250					BOTOM. SAL/CAL/NUIS
		1949	EN				50° 11.69	128° 21.84							
		1953	BE	NET		142	50° 11.66	128° 21.83		150					BONGO
		2013	BE	TRAWL		143	50 11 092	128 21 642			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							
26	1V1 04	2332	BE	CTD		144	50° 27.50	127° 57.34	149			1	H.M.		T: 11.66 S: 30.40
		2335	BO				50° 27.50	127° 57.38		140					BOT 10m. SAL/CHL/NUTS
		2339	EH				50° 27.49	127° 57.41							
		2341	BE	NET		145	50° 27.54	127° 57.65	178	150					BONGO
27		0009	BE	TRAWL		146	50 28.259	127 56.224			SURFACE TOW.				TRAWL
27	1V1 05	1406	BE	CTD		147	50° 25.96	127° 30.66	176			1			T: 11.04 S: 29.06
		1410	BO				50° 25.95	127° 30.65		165					BOT 10m. SAL/CHL/NUTS
		1414	EH				50° 25.94	127° 30.57							
		1418	BE	NET		148	50° 25.95	127° 30.54		150					BONGO
		1440	BE	TRAWL		149	50 26.713	127 31.437			SURFACE TOW.				TRAWL
27	1V1 06	1555	BE	CTD		150	50° 31.36	127° 40.41	117			1			T: 9.94 S: 30.56
		1558	BO				50° 31.35	127° 40.40		105					BOT 10m. SAL/CHL/NUTS
		1601	EH				50° 31.34	127° 40.39							
		1605	BE	NET		151	50° 31.34	127° 40.39		105					BONGO
		1625	BE	TRAWL		152	50 30.774	127 41.440			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							
27	VI 07	1720	BE	CTD		153	50° 29.24	127° 46.86	140			1	A.M.		T: 12.40 S: 29.42
		1724	BO				50° 29.24	127° 46.86	151	140					BOT@10m - SAL/CAL/NUTS
		1727	EN				50° 29.25	127° 46.86							
		1731	BE	NET		154	50° 29.20	127° 46.86		145					BONGO
		1753	BE	TRAWL		155	50 28.700	127 47 841			SURFACE TOW.				TRAWL
27	VI 32	2032	BE	CTD		156	50° 26.40	128° 08.50	63			1			T: 11.85 S: 31.39
		2034	BO				50° 26.39	128° 08.51		55					BOT@10m - SAL/CAL/NUTS
		2035	EN				50° 26.39	128° 08.51							
		2039	BE	NET		157	50° 26.40	128° 08.49		54					BONGO
		2054	BE	TRAWL		158	50 26 718	128 09 670			SURFACE TOW.				TRAWL
27	VI 33	2157	BE	CTD		159	50° 29.78	128° 15.01	40			1			T: 12.33 S: 31.64
		2159	BO				50° 29.76	128° 15.02		30					BOT@10m - SAL/CAL/NUTS
		2200	EN				50° 29.75	128° 15.04							
		2204	BE	NET		160	50° 29.72	128° 15.08		29					BONGO
		2220	BE	TRAWL		161	50 30.181	128 16.252			SURFACE TOW.				TRAWL

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27	V1 34	2328	BE	CTD		162	50° 34.83	128° 20.45	63			1	H.M.		T: 12.07 S: 31.66
		2330	BO				50° 34.82	128° 20.47		55					BOT 10m. SAL/CAL/NUTS
		2332	EN				50° 34.81	128° 20.47							
		2335	BE	NET		163	50° 34.76	128° 20.49		54					BONGO
		2352	BE	TRAWL		164	50 35 188	128 21.109			SORFAME TOW.				TRAWL
28	T 08	1334	BE	CTD		165	50° 42.08	129° 29.10	+1200			1		✓	T: 11.94 S: 31.49
		1339	BO				50° 42.12	129° 29.07		250					BOT 10m. SAL/CAL/NUTS
		1344	EN				50° 42.14	129° 29.07							
		1357	BE	NET		166	50° 42.24	129° 29.02		150					BONGO
		1419	BE	TRAWL		167	50 42 972	129 27.801			SORFAME TOW.				TRAWL
28	T 07	1601	BE	CTD		168	50° 49.41	129° 13.10	90			1			T: 11.93 S: 31.73
		1603	BO				50° 49.44	129° 13.11		80					BOT 10m. SAL/CAL/NUTS
		1605	EN				50° 49.46	129° 13.13							
		1609	BE	NET		169	50° 49.51	129° 13.19		83					BONGO
		1631	BE	TRAWL		170	50 50.794	129 12.223			SORFAME TOW.				TRAWL

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Month <u>JUNE</u>				Year <u>2007</u>				Ship <u>W.E. RICKER</u>				Cruise ID <u>2007-42</u>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
28	T 06	1751	BE	CTD		171	50° 55.99	129° 00.07	58			1	H.M.		T: 11.06 S: 31.47
		1753	BO				50° 56.01	129° 00.03		50					BOT@10m - SAL/CHL/NUTS
		1755	EN				50° 56.01	129° 00.02							
		1759	BE	NET		172	50° 56.04	128° 59.97		48					BONGO
		1816	BE	TRAWL		173	50 56.755	128 58.594							TRAWL
28	T 05	1914	BE	CTD		174	50° 59.83	128° 52.30	62			1			T: 12.11 S: 28.92
		1916	BO				50° 59.83	128° 52.28		52					BOT@10m - SAL/CHL/NUTS
		1918	EN				50° 59.82	128° 52.27							
		1922	BE	NET		175	50° 59.81	128° 52.18		52					BONGO
		1939	BE	TRAWL		176	51 00.283	128 51.263							TRAWL
28	T 04	2054	BE	CTD		177	51° 04.49	128° 44.27	60			1			T: 12.28 S: 29.73
		2056	BO				51° 04.48	128° 44.29		50					BOT@10m - SAL/CHL/NUTS
		2058	EN				51° 04.47	128° 44.30							
		2101	BE	NET		178	51° 04.43	128° 44.37		49					BONGO
		2141	BE	TRAWL		179	51 06.304	128 43.393							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 JUNE				Year 2007			Ship W.E. RICHER				Cruise ID 2007-42				
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	T 03	2256	BE	CTD		180	51° 08.59	128° 36.17	137			1	H.M.		T: 13.27 S: 27.09?
		2258	BO				51° 08.56	128° 36.13		125					BOT@10m - SAL/CAL/NTS
		2301	EN				51° 08.54	128° 36.10						*	SALINITY ODD
		2305	BE	NET		181	51° 08.50	128° 36.06		126					BONGO
		2324	BE	TRAWL		182	51 09.075	128 34 689			SURFACE TOW				TRAWL
29	T 02	0037	BE	CTD		183	51° 12.50	128° 27.95	186			1		*	T: 13.46 S: 25.87
		0041	BO				51° 12.49	128° 27.92		175					BOT@10m - SAL/CAL/NTS
		0046	EN				51° 12.47	128° 27.90							
		0049	BE	NET		184	51° 12.47	128° 27.87		150					BONGO
		0109	BE	TRAWL		185	51 13.224	128 26.393			SURFACE TOW				TRAWL
29	T 01	0206	BE	CTD		186	51° 16.38	128° 20.13	75			1			T: 12.81 S: 29.44
		0208	BO				51° 16.38	128° 20.12		65					BOT@10m - SAL/CAL/NTS
		0210	EN				51° 16.38	128° 20.12							
		0214	BE	NET		187	51° 16.37	128° 20.09		65					BONGO
		0232	BE	TRAWL		188	51 17.137	128 20.823			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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→ SALINITY AT SURFACE OFF BY 10-15 PPM - LOWERED TO 4m AND WAS OK

- SAME THING - SAL OFF - PRIMARY & SECONDARY OFF BY 10 PSU PRI = 10 PSU SEC = 25 PSU @ SURFACE - @ 6m BOTH THE SAME
- WILL CLEAN OUT 'Y' VENT

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>JUNE</u>				Year <u>2007</u>				Ship <u>W.E. RICHES</u>				Cruise ID <u>2007-42</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
29	H 01	1357	BE	CTD		189	52° 12.34	129° 10.47	153			1	H.M.	✓	T: 12.82 S: 30.80
		1401	BO				52° 12.32	129° 10.45		145					BOT 10m - SAL/CHL/NUTS
		1404	EH				52° 12.30	129° 10.44							
		1408	BG	NET		190	52° 12.26	129° 10.37		140					BONGO
		1428	BE	TRAWL		191	52 12.537	129 12.886			SURFACE TOW.				TRAWL
29	H 02	1548	BE	CTD		192	52° 15.56	129° 26.16	174			1			T: 12.62 S: 30.74
		1552	BO				52° 15.55	129° 26.16		165					BOT 10m - SAL/CHL/NUTS
		1555	EH				52° 15.56	129° 26.14							
		1558	BG	NET		193	52° 15.57	129° 26.11		150					BONGO
		1620	BE	TRAWL		194	52 16 .000	129 28.130			SURFACE TOW.				TRAWL
29	H 03	1751	BE	CTD		195	52° 18.93	129° 41.76	206			1			T: 12.52 S: 30.98
		1755	BO				52° 18.95	129° 41.66		195					BOT 10m - SAL/CHL/NUTS
		1800	EH				52° 18.97	129° 41.56							
		1804	BG	NET		196	52° 18.95	129° 41.42		150					BONGO
		1825	BE	TRAWL		197	52 19,377	129.42.927			SURFACE TOW.				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:

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Time Code

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EN = end time of cast

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>JUNE</u>				Year <u>2007</u>			Ship <u>W. E. RICKER</u>				Cruise ID <u>2007-42</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							
29	H 04	1950	BE	CTD		198	52° 22.25	129° 57.32	200			1	H.M.		T: 12.29 S: 30.93
		1954	BO				52° 22.25	129° 57.27		190					BOT@10m - SAL/CAL/NUTS
		1958	EN				52° 22.22	129° 57.22							
		2002	BE	NET		199	52° 22.16	129° 57.17		150					BONGO
		2023	BE	TRAWL		200	52 22.682	129.59 526			SURFACE	Tau			TRAWL
29	H 05	2140	BE	CTD		201	52° 25.53	130° 12.69	317			1			T: 12.65 S: 30.89
		2146	BO				52° 25.52	130° 12.47		250					BOT@10m - SAL/CAL/NUTS
		2153	EN				52° 25.56	130° 12.28							
		2159	BE	NET		202	52° 25.75	130° 12.27		150					BONGO
		2218	BE	TRAWL		203	52 26.530	130 14.112			SURFACE	Tau			TRAWL
29	H 06	2344	BE	CTD		204	52° 28.95	130° 28.67	170			1			T: 12.22 S: 31.74
		2348	BO				52° 28.87	130° 28.66		160					BOT@10m - SAL/CAL/NUTS
		2352	EN				52° 28.88	130° 28.66							
		2357	BE	NET		205	52° 28.91	130° 28.66		150					BONGO
30		0016	BE	TRAWL		206	52 29.518	130 30.742			SURFACE	Tau			TRAWL

Cast type:

BOT = bottle cast, no CTD
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 NET = net haul
 DRF = drifter

bottle firing method:

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Time Code

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 EN = end time of cast

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month JUNE				Year 2007			Ship W.E. RICHER				Cruise ID 2007-42				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
30	H 07	0133	BE	CTD		207	52° 31.94	130° 44.45	114			1	H.M.		T: 12.32 S: 31.25
		0136	BO				52° 31.93	130° 44.44		105					BOT@10m. SAL/CHL/NUTS
		0138	EN				52° 31.92	130° 44.45							
		0141	BE	NET		208	52° 31.92	130° 44.49		100					BONGO
		0200	BE	TRAWL		209	52 31.927	130 46.829			SURFACE	Tow			TRAWL
30	H 08	1401	BE	CTD		210	52° 34.94	131° 01.09	105			1		✓	T: 11.67 S: 31.44
		1404	BO				52° 34.89	131° 01.05		95					BOT@10m. SAL/CHL/NUTS
		1406	EN				52° 34.86	131° 01.02							
		1411	BE	NET		211	52° 34.71	131° 00.88		93					BONGO
		1431	BE	TRAWL		212	52 35.086	131 02.385			SURFACE	Tow			TRAWL
30	HS 01	1620	BE	CTD		213	52° 47.54	130° 54.40	45			1			T: 11.23 S: 31.21
		1621	BO				52° 47.53	130° 54.39		40					BOT@10m. SAL/CHL/NUTS
		1623	EN				52° 47.53	130° 54.39							
		1626	BE	NET		214	52° 47.52	130° 54.37		35					BONGO
		1644	BE	TRAWL		215	52 48.849	130 54.418			SURFACE	Tow			TRAWL

Cast type:
 BOT = bottle cast
 CTD = CTD
 NET = sea water loop
 TRAWL = trawl

bottle firing method:
 M20 = M20
 M21 = M21
 M22 = M22
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Time Code
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 M98 = M98
 M99 = M99
 M100 = M100

Cast type:

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

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

bottle firing method:
US = up/stop
UN = up/no stop
DN = down/no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
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DE = deployment time
MR = messenger release time
RE = recover mooring time

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

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month JUNE				Year 2007				Ship W.E. RICHER				Cruise ID 2007-42			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
30	HS 02	1824	BE	CTD		216	53° 02.63	130° 52.52	56			1	AM.		T: 10.88 S: 31.41
		1826	BO				53° 02.64	130° 52.52		50					BOT@10m - SAL/CAL/HUTS
		1827	EN				53° 02.68	130° 52.53							
		1858	BE	NET		217	53° 02.83	130° 52.48		47					BONGO
			BE	TRAWL		218	CANCELLLED (PORPOISES)								TRAWL
30	HS 03	2002	BE	CTD		218	53° 12.04	130° 56.00	89			1			T: 11.67 S: 31.33
		2005	BO				53° 12.04	130° 55.99		80					BOT@10m - SAL/CAL/HUTS
		2007	EN				53° 12.06	130° 56.00							
		2010	BE	NET		219	53° 12.10	130° 56.03		80					BONGO
		2030	BE	TRAWL		220	53 13.138	130 57 337			SURFACE Trawl				TRAWL
30	HS 04	2143	BE	CTD		221	53° 20.07	131° 04.73	44			1			T: 11.76 S: 31.08
		2145	BO				53° 20.06	131° 04.72		40					BOT@10m - SAL/CAL/HUTS
		2147	EN				53° 20.06	131° 04.71							
		2150	BE	NET		222	53° 20.04	131° 04.71		35					BONGO
		2207	BE	TRAWL		223	53 21 064	131 04. 680			SURFACE Trawl				TRAWL

Cast type:

BOT = bottle cast, no CTD
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 DRF = drifter

bottle firing method:

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

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

DE = deployment time

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		JUNE / JULY		Year			2007			Ship			W.E. RICKER			Cruise ID			2007-42		
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments						
							Latitude	Longitude													
30	HS 05	2317	BE	CTD		224	53° 28.09	131° 00.70	55			1	H.M.		T: 11.98 S: 31.32						
		2318	BO				53° 28.10	131° 00.67		50					BOT@ 10m. SAL/CAL/NUTS						
		2320	EN				53° 28.10	131° 00.64													
		2323	BE	HGT		225	53° 28.08	131° 00.50		47					BONGO						
1		0043	BE	TRAWL		226	53 28.280	130 59.77							TRAWL						
1	HS 06	0055	BE	CTD		227	53° 37.00	130° 55.83	53			1			T: 12.02 S: 31.38						
		0057	BO				53° 37.00	130° 55.81		45					BOT@ 10m. SAL/CAL/NUTS						
		0059	EN				53° 37.00	130° 55.76													
		0107	BE	HGT		228	53° 36.93	130° 55.49		42					BONGO						
		0126	BE	TRAWL		229	53 38.086	130 55 261							TRAWL						
 																					
1	DE 01	1350	BE	CTD		230	54° 15.37	131° 39.60	112			1		✓	T: 11.24 S: 31.64						
	*	1353	BO				54° 15.35	131° 39.58		100					BOT@ 10m. SAL/CAL/NUTS						
		1355	EN				54° 15.33	131° 39.56													
		1358	BE	HGT		231	54° 15 31	131° 39.52		101					BONGO						
		1418	BE	TRAWL		232	54 14.807	131 40.755							TRAWL						
Cast type: USW = sea water loop bottle firing method: Time Code																					

Cast type:

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Time Code

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Additional comments

* CALLED DS 01 IN FILE - SHOULD BE DE 01

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>JULY</u>				Year <u>2007</u>				Ship <u>W. E. RICKER</u>				Cruise ID <u>2007-42</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
1	DE 02	1551	BE	CTD		233	54° 08.67	131° 57.88	45			1	H.M.		T: 9.59 S: 31.68
		1552	BO				54° 08.67	131° 57.89		40					BOT@10m - SAL/CHL/NUTS
		1554	EN				54° 08.67	131° 57.89							
		1557	BE	NET		234	54° 08.64	131° 57.91		35					BOT@10m - SAL/CHL/NUTS
		1613	BE	TRAWL		235	54° 08.698	131° 59.932			SURFACE	TOW			TRAWL
1	DE 03	1724	BE	CTD		236	54° 08.38	132° 11.67	41			1			T: 10.76 S: 31.16
		1726	BO				54° 08.38	132° 11.66		35					BOT@10m - SAL/CHL/NUTS
		1727	EN				54° 08.38	132° 11.64							
		1730	BE	NET		237	54° 08.38	132° 11.58							BOT@10m - SAL/CHL/NUTS
		1747	BE	TRAWL		238	54° 08.354	132° 12.1831			SURFACE	TOW			TRAWL
1	DE 04	1914	BE	CTD		239	54° 07.90	132° 27.54	50			1			T: 9.66 S: 31.71
		1915	BO				54° 07.91	132° 27.48		45					BOT@10m - SAL/CHL/NUTS
		1917	EN				54° 07.92	132° 27.41							
		1920	BE	NET		240	54° 07.93	132° 27.21		40					BOT@10m - SAL/CHL/NUTS
		1931	BE	TRAWL		241	54° 08.856	132° 28.557			SURFACE	TOW			TRAWL

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bottle firing method:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month JULY			Year 2007			Ship W.C. RICHER			Cruise ID 2007-42						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
1	DE 05	2106	BE	CTD		242	54° 10.93	132° 45.70	69			1	H.M.		T: 10.38 S: 31.56
		2108	BO				54° 10.94	132° 45.67		60					BOT@10m - SAL/CAL/NTS
		2110	EN				54° 10.95	132° 45.65							
		2113	BE	NET		243	54° 10.96	132° 45.60		60					BONGO
		2130	BE	TRAWL		244	54 11.620	132 47 260			SURFACE TOW				TRAWL
1	DE 06	2233	BE	CTD		245	54° 14.45	132° 55.57	136			1			T: 10.44 S: 31.62
		2236	BO				54° 14.45	132° 55.51		130					BOT@10m - SAL/CAL/NTS
		2239	EN				54° 14.45	132° 55.49							
		2243	BE	NET		246	54° 14.45	132° 55.44							BONGO
		2303	BE	TRAWL		247	54 15 193	132 56 679			SURFACE TOW				TRAWL
2															
2	B 01	1355	BE	CTD		248	56° 18.01	134° 54.59	89			1		✓	T: 10.88 S: 30.30
		1357	BO				56° 18.02	134° 54.59		80					BOT@10m - SAL/CAL/NTS
		1359	EN				56° 18.03	134° 54.60							
		1404	BE	NET		249	56° 18.02	134° 54.53		75					BONGO
		1425	BE	TRAWL		250	56 17.352	134 56.165			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

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month JULY				Year 2007				Ship W.E. RICKER				Cruise ID 2007-42			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
2	B 02	1512	BE	CTD		251	56° 15.25	135° 01.49	144			1	4.m.		T: 12.64 S: 31.38
		1515	BO				56° 15.26	135° 01.51		135					BOT 10m. SAL/CAL/NUTS
		1518	CM				56° 15.28	135° 01.53							
		1521	BE	NET		252	56° 15.31	135° 01.62		133					BONGO
		1543	BE	TRAWL		253	56 14.627	135 03.135			SURFACE Trawl				TRAWL
2	B 03	1631	BE	CTD		254	56° 12.57	135° 07.99	170			1			T: 12.37 S: 31.36
		1634	BO				56° 12.58	135° 08.01		160					BOT 10m. SAL/CAL/NUTS
		1637	CM				56° 12.62	135° 08.10							
		1641	BE	NET		255	56° 12.66	135° 08.21		150					BONGO
		1701	BE	TRAWL		256	56 12.191	135 09.549			SURFACE Trawl				TRAWL
2	B 04	1756	BE	CTD		257	56° 09.79	135° 14.64	277			1			T: 12.46 S: 31.24
		1800	BO				56° 09.86	135° 14.61		250					BOT 10m. SAL/CAL/NUTS
		1805	CM				56° 09.92	135° 14.66							
		1810	BE	NET		258	56° 09.92	135° 14.67		150					BONGO
		1831	BE	TRAWL		259	56 09.579	135 15.665			SURFACE Trawl				TRAWL

Cast type:

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bottle firing method:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month JULY				Year 2007				Ship W.E. RICHER				Cruise ID 2007-42			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
2	B 05	1924	BE	CTD		260	56° 07.08	135° 21.08	298			1	H.M.		T: 12.57 s: 31.31
		1930	BO				56° 07.17	135° 20.96		250					
		1936	EN				56° 07.28	135° 20.89							BOT@10m - SAL/CAL/NUTS
		1939	BE	NET		261	56° 07.31	135° 20.78		150					
		2002	BE	TRAWL		262	56 07.138	135. 21.761			SURFACE TRAWL				BONGO
															TRAWL
2	B 06	2151	BE	CTD		263	56° 04.32	135° 27.82	560			1			T: 12.50 s: 31.40
		2157	BO				56° 04.33	135° 27.69		250					BOT@10m - SAL/CAL/NUTS
		2204	EN				56° 04.36	135° 27.58							
		2211	BE	NET		264	56° 04.35	135° 27.40		150					
		2234	BE	TRAWL		265	56 07 138	135 21.761			SURFACE TRAWL				BONGO
															TRAWL
2	B 07	2325	BE	CTD		266	56° 01.50	135° 34.33	757			2			T: 13.04 s: 31.66
		2337	BO				56° 01.55	135° 34.33		500					BOT@10m - SAL/CAL/NUTS
		2350	EN				56° 01.60	135° 34.41							BOT@500m - SAL
		2353	BE	NET		267	56° 01.60	135° 34.39		150					BONGO
3		0013	BE	TRAWL		268	56 00.988	135.36.116			SURFACE TRAWL				TRAWL

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2334 43
2337 15

2 1/2 m = 500

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month JULY				Year 2007				Ship W.E. RICKER				Cruise ID 2007-42			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
3	B 08	0100	BE	CTD		269	55° 59.03	135° 41.37	1263			1	H.M.		T: 13.08 S: 32.04
		0106	BO				55° 59.03	135° 41.27		250					BOT@10m - SAL/CHL/NUTS
		0111	EN				55° 59.05	135° 41.17							
		0117	BE	NET		270	55° 58.95	135° 40.84		150					BONGO
		0138	BE	TRAWL		271	55 58.412	135.39.867			SURFACE Trawl				TRAWL
3	Fi 01	1402	BE	CTD		272	54° 47.29	133° 03.42	112			1		✓	T: 11.76 S: 28.90
		1408	BO				54° 47.25	133° 03.33		100	*				BOT@10m - SAL/CHL/NUTS
		1411	EN				54° 47.26	133° 03.32							
		1416	BE	NET		273	54° 47.26	133° 03.25		105					BONGO
		1435	BE	TRAWL		274	54 47.00	133 05.120			SURFACE Trawl		*		TRAWL
3	Fi 02	1513	BE	CTD		275	54° 46.52	133° 11.17	190			1			T: 10.91 S: 29.66
		1517	BO				54° 46.51	133° 11.18		180					BOT@10m - SAL/CHL/NUTS
		1521	EN				54° 46.53	133° 11.19							
		1526	BE	NET		276	54° 46.56	133° 11.22		150					BONGO
		1549	BE	TRAWL		277	54 46.484	133 12.891			SURFACE Trawl				TRAWL

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Additional comments

* - WIRE ANGLE PROBLEMS - STOPPED DOWNCAST - LOTS OF DATA
(THEN CONTINUED)

* - 12 MINUTE TOL - DOAPHS AROUND SHIP

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month JULY				Year 2007				Ship W.E. RICKER				Cruise ID 2007-42			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
3	Fi 03	1646	BE	CTD		278	54° 45.90	133° 18.98	110			1	H.M.		T: 11.13 S: 29.30
		1649	BO				54° 45.96	133° 18.95	94	92					BOT 10m SAL/CAL/NUTS
		1651	EN				54° 46.01	133° 18.97							
		1654	BE	NET		279	54° 46.12	133° 19.01		100					
		1715	BE	TRAWL		280	54 45.964	133 20.499			SURFACE TOW				BONGO TRAWL
3	Fi 04	1817	BE	CTD		281	54° 44.99	133° 26.26	141			1			T: 10.90 S: 30.87
		1820	BO				54° 45.04	133° 26.24		130					BOT 10m SAL/CAL/NUTS
		1823	EN				54° 45.09	133° 26.14							
		18	BE	NET			54° 45.	133° 26.	CANCELLED - WEATHER						
		19:00	BE	TRAWL		282	54 43.250	133 24.245			SURFACE TOW	*			BONGO - CANCELLED TRAWL
3	Fi 05	2014	BE	CTD		283	54° 44.34	133° 34.42	187			1			T: 10.75 S: 31.44
		2019	BO				54° 44.42	133° 34.23		175					BOT 10m SAL/CAL/NUTS
		2024	EN				54° 44.51	133° 33.99							NO BONGO
		2035	BE	TRAWL		284	54 44 639	133 34.931			SURFACE TOW				TRAWL
							NO BONGO								

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bottle firing method:
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Time Code

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EN = end time of cast

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Additional comments

* 2 MINOR TOW, PORT-SIDE TRAWL DOOR SKIMMED TO STANDARD AND CROSSED OVER ROPE READ LINES.

DAILY LOG

Ocean Sciences and Productivity Division

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Month JULY				Year 2007				Ship W.E. RICHER				INSTITUTE OF OCEAN SCIENCES			
Cruise ID 2007- 42															
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
3	Fi 06	2135	BG	CTD		285	54° 43.76	133° 42.35	212			1	H.M.		T: 11.13 S: 31.90
		2141	BO				54° 43.81	133° 42.16		200					
		2145	EN				54° 43.87	133° 42.02							BOT@ION - SAL/CHL/NUTS
		2149	BG	NCT		286	54° 43.89	133° 41.92		150					
		2212	BG	TRAWL		287	54 43 754	133 42.990			SURFACE	Tow			BONGO TRAWL
3	Fi 07	2309	BG	CTD		288	54° 42.92	133° 49.93	217			1			T: 11.36 S: 31.94
		2314	BO				54° 42.92	133° 49.79		205					
		2319	EN				54° 42.92	133° 49.66							BOT@ION - SAL/CHL/NUTS
		2323	BG	NCT		289	54° 42.89	133° 49.55		150					
		2346	BG	TRAWL		290	54.42 640	133 50 628			SURFACE	Tow			BONGO TRAWL
4	Fi 08	0058	BG	CTD		291	54° 42.21	133° 58.17	197			(2)			T: 11.35 S: 31.82
		0103	BO				54° 42.19	133° 58.15		185					
		0107	EN				54° 42.15	133° 58.06							(1) BOT@ 500 - SAL
		01	BG	NCT		29	54° 42.	133° 58.			BONGO CANCELLED				(2) BOT@ 10 - SAL/CHL/NUTS
		01 01	BG	TRAWL		292	54 42 295	133 59. H21			SURFACE	Tow			BONGO TRAWL
XX															
XX															

st type:
BOT = bottle cast, no CTD

USW = sea water loop
MOR = mooring

bottle firing method:
US = up/stn

Time Code
BF = bottom fired

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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EN = end time of cast

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

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

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>JULY</u>				Year <u>2007</u>				Ship <u>W.E. RICHAR</u>				Cruise ID <u>2007-42</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							
4	QC1 01	1357	BC	CTD	29	293	53° 55.39	133° 22.80	65			1	H.M.	✓	T: 11.66 S: 31.72
		1359	BO				53° 55.42	133° 22.80		55					BOT@10m - SAL/CHL/HUTS
		1401	EN				53° 55.44	133° 22.79							
		1405	BC	NET	294	294	53° 55.38	133° 22.81		54					BONGO
		1425	BE	TRAWL		295	53 54 68.2	133 21 74.3			SURFACE	Tow			TRAWL
4	QC1 02	1539	BC	CTD		296	53° 49.24	133° 13.90	57 ₆₀			1			T: 12.18 S: 32.10
		1540	BO				53° 49.25	133° 13.88		50					BOT@10m - SAL/CHL/HUTS
		1542	EN				53° 49.25	133° 13.87							
		1545	BE	NET		297	53° 49.24	133° 13.81		47					BONGO
		1609	BE	TRAWL		298	53 48.500	133 12.874			SURFACE	Tow			TRAWL
4	QC1 03	1720	BC	CTD		299	53° 42.23	133° 06.07	146 ₁₅₃			1			T: 12.14 S: 32.11
		1723	BO				53° 42.24	133° 06.04		140					BOT@10m - SAL/CHL/HUTS
		1727	EN				53° 42.27	133° 06.02							
		1730	BE	NET		300	53° 42.29	133° 05.99							BONGO
		1752	BE	TRAWL		301	53 41.554	133 05 814			SURFACE	Tow			TRAWL

Cast type:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month JULY				Year 2007				Ship W.E. RICKER				INSTITUTE OF OCEAN SCIENCES			
								Cruise ID 2007-42							
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
4	QC1 04	1922	BE	CTD		302	53° 33.04	133° 03.68	165			1	H.M.		T: 11.93 S: 32.08
		1925	BO				53° 33.02	133° 03.64		155					
		1929	CH				53° 33.01	133° 03.61							BOT @ 10m - SAL/CAL/HUTS
		1933	BE	NET		303	53° 33.04	133° 03.60							
		1957	BE	TRAWL		304	53 32.232	133 03.418			SURFACE	Tow.			BONGO TRAWL
4	QC1 05	2133	BE	CTD		305	53° 26.10	132° 52.69	131			1			T: 11.98 S: 32.07
		2136	BO				53° 26.09	132° 52.60		120					BOT @ 10m - SAL/CAL/HUTS
		2139	CH				53° 26.08	132° 52.54							
		2143	BE	NET		306	53° 26.06	132° 52.48		121					
		2235	BE	TRAWL		307	53 25 173	132 51 636			SURFACE	Tow.			BONGO TRAWL
4	QC1 06	2329	BE	CTD		308	53° 11.02	132° 47.53	156			1			T: 11.89 S: 32.05
			BO							145					BOT @ 10m - SAL/CAL/HUTS
			CH				SAR - CANCELLED								
			BE	NET		309									
			BE	TRAWL		310									BONGO TRAWL

Cast type:
BOT = bottle cast, no CTD

USW = sea water loop
MOR = mooring

bottle firing method:
UIS = up/stn

Time Code
BE = bottle event

Cast type:

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bottle firing method.
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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month JULY				Year 2007			Ship W.E. RICKER				Cruise ID 2007-42				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
5	QC1 06	1356	BG	CTD		308	52° 43.27	132° 08.05	160			1	H.M.	✓	T: 11.85 S: 31.95
		1359	BO				52° 43.28	132° 08.06		150					
		1402	EN				52° 43.28	132° 08.05							BOT@10m - SAL/CAL/NTS
		1406	BG	NET		309	52° 43.27	132° 08.04		140					BONGO
		1429	BG	TRAWL		310	52 42.455	132 06.938			SURFACE TOW				TRAWL
5	QC1 07	1543	BG	CTD		311	52° 36.88	131° 59.20	176			1			T: 11.89 S: 31.92
		1546	BO				52° 36.86	131° 59.15		165					BOT@10m - SAL/CAL/NTS
		1549	EN				52° 36.85	131° 59.11							
		1553	BG	NET		312	52° 36.81	131° 59.01		150					BONGO
		1640	BG	TRAWL		313	52 34.856	131 54.952			SURFACE TOW				TRAWL
5	QC1 08	1756	BG	CTD		314	52° 28.01	131° 44.90	184			1			T: 11.78 S: 31.90
		1759	BO				52° 27.96	131° 44.82		175					BOT@10m - SAL/CAL/NTS
		1803	EN				52° 27.94	131° 44.75							
		1806	BG	NET		315	52° 27.90	131° 44.67		150					BONGO
		1828	BG	TRAWL		316	52 27.027	131 43.102			SURFACE TOW				TRAWL

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DAILY LOG

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Month <u>JULY</u>				Year <u>2007</u>				Ship <u>W. E. RICHES</u>				Cruise ID <u>2007-42</u>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
5	QC1 09	1940	BE	CTD		317	52° 19.45	131° 35.73	225			1	H.M.		T: 11.80 S: 31.88
		1944	BO				52° 19.39	131° 35.65	187	175					
		1948	EN				52° 19.34	131° 35.60							BOTOM. SAL/CAL/NOTS
		1952	BE	NET		318	52° 19.31	131° 35.54		150					
		2015	BE	TRAWL		319	52 18.510	131 34.299			SURFACE	TOW			BONGO TRAWL
5	QC1 10	2145	BE	CTD		320	52° 11.36	131° 25.95	222			1			T: 11.59 S: 31.89
		2149	BO				52° 11.33	131° 25.86	212	200					
		2154	EN				52° 11.32	131° 25.91							BOTOM. SAL/CAL/NOTS
		2159	BE	NET		321	52° 11.23	131° 25.58		150					
		2223	BE	TRAWL		322	52 10.552	131 24.099			SURFACE	TOW			BONGO TRAWL
5	QC1 11	2323	BE	CTD		323	52° 05.97	131° 18.25	157			1			T: 12.14 S: 31.90
		2326	BO				52° 05.98	131° 18.25		145					
		2329	EN				52° 05.99	131° 18.22							BOTOM. SAL/CAL/NOTS
		2333	BE	NET		324	52° 05.96	131° 18.15		145					
		2356	BE	TRAWL		325	52 04.980	131 17.544			SURFACE	TOW			BONGO TRAWL
							END OF CRUISE								

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