

DAILY LOG BOOK

MISSION
NUMBER

2008-15

DATE:

From: OCT 7 / 08 to: NOV 11 / 08

VESSEL:

W.E. RICHER

PROJECT:

HIGH SEAS SALMON - TRUDEL

1 OF 2

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

Captain: SCOTT DOAN First Officer: SEAN POTTER
Second Officer: _____ Third Officer: Jodi HESKE

Mission Participants / Agencies: PBS / 105 / 050

Scientific Personnel:

Party Chief: MARC TRUDÉL

Name	Watch	Cabin	Name	Watch	Cabin
JOHN MORRIS					

TYLER Zubkowski

LIANE STENHOUSE

JOHN LUNG

WYLLIE GUANS

11UG4 MACLEAN

Second leg of Mission:

Party Chief:

Name	Watch	Cabin
	Name	

Data logging computer:

Data acquisition program: SCASAVE V 7

CTD deck unit make: SBC model: 111 serial number: 1108377-0471

Primary CTD

Make: Subaru model: Impreza serial number: 9506

Primary temperature serial number:

Primary conductivity serial number: ~~7~~

Secondary temperature serial number: 2968

Secondary conductivity serial number: 3038

Transmissometer: SCAPoint Model: SCAPoint

Fluorometer: Model SeaPoint Cable gain: 10×0.15

Oxygen sensor: SBF Cable gmm. 0.0.15 s/n. 222 S or NO pump: 2

Oxygen sensor: SBF Model: 43 s/n: 0047 P S or NO pump: 2

PAR sensor: _____ s/π: _____ s/π: _____
Model: _____

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

Other sensors: _____
 s/n: _____

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

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

Other sensors: _____

I, S or NO pump? _____

P S or NO pump? _____

Other sensors:

S/I.L.

s/n:

r, s or NO pump?

P, S or NO pump?

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer: _____
Model: _____

Fluorometer: Model _____ Cable gain: _____

Oxygen sensor: _____
 Model: _____ s/n: _____
 Serial number: _____
 P S or NO pump? _____
 I, S or NO pump? _____

PAR sensor: _____
 Model: _____ s/n: _____
 I, S or NO pump: _____

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

Other sensors: _____

Pump: _____
_____, P, S or NO pump?

s/n: _____

Other sensors: _____ s/n: _____

Other sensors:		
	s/n:	P, S or NO pump?

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

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[illegible]

Cast type:

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

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

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

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

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* NMEA LONGITUDE WRONG - STATION DATA IN .CON FILE (NOT .HEX)

* NMEA LONG FLASHES IN AND OUT ON SCREEN - LOOKS OK IN FILE

DAILY LOG

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Month OCT			Year 2008				Ship W.E. RICKER				Cruise ID 2008-15				
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							
9	H 02	1618	Be	CTD		010	52° 16. 16	129° 26. 12	168			1	H.M.		T: 11.52 S: 31.52
		1623	Bo				52° 16. 20	129° 26. 13		155					BOT@10m - SAL/CHL/NUTS
		1628	EN				52° 16. 20	129° 26. 12							
		1635	Be	NET		011	52° 16. 20	129° 26. 13		150					BONGO
		1656	Be	TRAWL		012	52 16 31	129 27 30.							TRAWL
9	H 03	1824	Be	CTD		013	52° 18. 90	129° 41. 70	204			1			T: 11.79 S: 31.52
		1828	Bo				52° 18. 88	129° 41. 73		195					BOT@10m - SAL/CHL/NUTS
		1834	EN				52° 18. 86	129° 41. 76							
		1838	Be	NET		014	52° 18. 84	129° 41. 79		150					BONGO
		19:00	Be	TRAWL		015	52 19 07	129 42 91							TRAWL
9	H 04	2034	Be	CTD		016	52° 22. 41	129° 57. 73	208			1			T: 11.76 S: 31.58
		2039	Bo				52° 22. 35	129° 57. 79		195					BOT@10m - SAL/CHL/NUTS
		2043	EN				52° 22. 30	129° 57. 85							
		2045	Be	NET		017	52° 22. 21	129° 57. 80		150					BONGO
		21:07	Be	TRAWL		018	52 22 19	129 58 84							TRAWL

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Cruise ID 2008-15

Month OCTOBER				Year 2008			Ship W.E. RICKER				Cruise ID 2008-15				
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	DE 02	1633	BE	CTD		028	54° 08 60	131° 57. 45	49			1	H.M.		T: 10.17 S: 31.40
		1634	BO				54° 08. 62	131° 57. 44		40					BOT@10m - SAL/CHL/NUTS
		1637	EN				54° 08. 64	131° 57. 41							
		1640	BE	NET		029	54° 08. 68	131° 57. 40		40					BONGO
		1650	BE	TRAWL		030	54 8 93	131 58. 3							TRAWL
10	DE 03	1815	BE	CTD		031	54° 08 46	132° 11. 50	45			1			T: 10.69 S: 31.70
		1816	BO				54° 08 46	132° 11. 50		35					BOT@10m - SAL/CHL/NUTS
		1818	EN				54° 08 46	132° 11. 49							
		1821	BE	NET		032	54° 08 44	132° 11 43		35					BONGO
		1836	BE	TRAWL		033	54 9. 0	132 12. 3							TRAWL
10	DE 04	2000	BE	CTD		034	54° 07. 90	132° 28. 33	51			1			T: 10.16 S: 31.10
		2001	BO				54° 07 90	132° 28. 33		40					BOT@10m - SAL/CHL/NUTS
		2003	EN				54° 07 91	132° 28. 34							
		2007	BE	NET		035	54° 07 93	132° 28. 36							BONGO
		2021	BE	TRAWL		036	54 08 32	132 29. 7							TRAWL

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							Latitude	Longitude							
10	DE 05	2142	BE	CTD		037	54° 10.71	132° 45.64	58			1	H.M.		T: 10.075: 31.10
		2144	BO				54° 10.70	132° 45.66		48					BOT@10m - SAL/CHL/NUTS
		2145	EN				54° 10.70	132° 45.68							
		2149	BE	NET		038	54° 10.69	132° 45.73		47					BONGO
		2104	BE	TRAWL		039	54 10 27	132 45.00							TRAWL
10	DE 06	2310	BE	CTD		040	54° 14.68	132° 55.45	207			1			T: 10.15 S: 31.03
		2314	BO				54° 14.76	132° 55.53		195					BOT@10m - SAL/CHL/NUTS
		2318	EN				54° 14.81	132° 55.64							
		2323	BE	NET		041	54° 14.87	132° 55.60		150					BONGO
		2339	BE	TRAWL		042	54 15.34	132 56.80							TRAWL
11	ISEA 01	1406	BE	CTD		043	55° 28.26	132° 03.99	425			1			T: 9.92 S: 29.56
		1411	BO				55° 28.30	132° 03.93		250					BOT@10m - SAL/NUTS/CHL
		1417	EN				55° 28.39	132° 03.93							
		1423	BE	NET		044	55° 28.40	132° 03.98		150					BONGO
		1445	BE	TRAWL		045	55 29 16	132 5.61							TRAWL

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							Latitude	Longitude							
11	ISCA 02	1545	BC	CTD		046	55° 33.05	132° 10.98	395			1	H.M.		T: 9.98 S: 29.05
		1549	BO				55° 33.09	132° 10.99		250					BOT@10m - SAL/CHL/NUIS
		1556	CH				55° 33.15	132° 11.06							
		1600	BC	NET		047	55° 33.16	132° 11.08		150					BONGO
		1620	BC	TRAWL		048	55 34 02	132 12 29							TRAWL
11	ISCA 03	1716	BC	CTD		049	55° 38.61	132° 19.06	643			1			T: 9.41 S: 29.55
		1721	BO				55° 38.70	132° 19.06		250					BOT@10m - SAL/CHL/NUIS
		1728	CH				55° 38.81	132° 19.00							
		1734	BC	NET		050	55° 38.87	132° 18.99		150					BONGO
		1752	BC	TRAWL		051	55 40 09	132 19 57							TRAWL
11	ISCA 04	1906	BC	CTD		052	55° 45.14	132° 21.07	567			1			T: 9.42 S: 29.42
		1912	BO				55° 45.27	132° 21.06		250					BOT@10m - SAL/CHL/NUIS
		1917	CH				55° 45.38	132° 21.04							
		1925	BC	NET		053	55° 45.57	132° 21.00		150					BONGO
		1949	BC	TRAWL		054	55 47 21	132 21 70							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							
11	ISCA 05	2110	BE	CTD		055	55° 49.07	132° 17.44	237			1	H.M.		T: 9.91 S: 27.60
		2115	BO				55° 49.10	132° 17.38	270-200	190					BOT@ 10m - SAL/CAL/NUTS
		2119	EN				55° 49.13	132° 17.32							
		2123	BE	NET		056	55° 49.14	132° 17.27		150					BONGO
		2140	BE	TRAWL		057	55° 49.62	132° 16.16							TRAWL
11	ISCA 06	2226	BE	CTD		058	55° 51.11	132° 11.82	313						T: 9.91 S: 27.96
		2231	BO				55° 51.15	132° 11.75		250					BOT@ 10m - SAL/CAL/NUTS
		2236	EN				55° 51.18	132° 11.72							
		2246	BE	NET		059	55° 51.22	132° 11.65							BONGO
		2306	BE	TRAWL		060	55° 51.83	132° 10.7							TRAWL
12	ISCA 07	0032	BE	CTD		061	55° 54.37	132° 04.79	213			1			T: 9.28 S: 25.47
		0036	BO				55° 54.42	132° 04.70		200					BOT@ 10m - SAL/CAL/NUTS
		0041	EN				55° 54.43	132° 04.67							
		0044	BE	NET		062	55° 54.44	132° 04.66		150					BONGO
		0100	BE	TRAWL		063	55° 54.97	132° 4.9							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							
12	15EA08	1359	BE	CTD		064	56° 24. 63	132° 35. 87	244			1	H.M.		T: 9.67 S: 28.45
		1404	BO				56° 24. 66	132° 35. 92		230					BOT @ 10m. SAL/CAL/NTS
		1409	EN				56° 24. 66	132° 35. 96							
		1413	BE	NET		065	56° 24. 60	132° 35. 91		150					BONGO
		1439	BE	TRAWL		066	56 24 65	132 35. 29							TRAWL
12	15EA 09	1605	BE	CTD		067	56° 29. 81	132° 40. 57	113			1			T: 8.86 S: 25.34
		1608	BO				56° 29. 81	132° 40. 58		100					BOT @ 10m. SAL/CAL/NTS
		1611	EN				56° 29. 82	132° 40. 57							
		1615	BE	NET		068	56° 29. 83	132° 40. 56		100					BONGO
		1636	BE	TRAWL		069	56 29 51	132 42 39							TRAWL
12	15EA 10	1747	BE	CTD		070	56° 29. 24	132° 54. 25	116			1			T: 8.76 S: 25.37
		1749	BO				56° 29. 27	132° 54. 25		105					BOT @ 10m. SAL/CAL/NTS
		1753	EN				56° 29. 31	132° 54. 21							
		1758	BE	NET		071	56° 29. 35	132° 54. 11							BONGO
		18:13	BE	TRAWL		072	56 29 17	132 55 35							TRAWL

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							Latitude	Longitude							
12	ISCA 11	2003	BE	CTD		073	56° 22.25	133° 15.89	242			1	H.M.		T: 8.28 S: 30.37
		2008	BO				56° 22.29	133° 15.86		230					BOT@10m - SAL/CAL/NOTS
		2013	EN				56° 22.33	133° 15.83							
		2016	BE	NET		074	56° 22.31	133° 15.82		150					BONGO
		2033	BE	TRAWL		075	56 22 13	133 17 17							TRAWL
12	ISCA 12	2202	BE	CTD		076	56° 22.48	133° 33.60	337			1			T: 8.35 S: 30.00
		2207	BO				56° 22.50	133° 33.68		250					BOT@10m - SAL/CAL/NOTS
		2212	EN				56° 22.50	133° 33.80							
		2216	BE	NET		077	56° 22.53	133° 33.78		150					BONGO
		2233	BE	TRAWL		078	56 22 67	133 35 02							TRAWL
13	ISCA 13	0035	BE	CTD		079	56° 13.98	133° 46.32	310			1			T: 8.80 S: 29.63
		0040	BO				56° 13.94	133° 46.31		250					BOT@10m - SAL/CAL/NOTS
		0045	EN				56° 13.92	133° 46.25							
		0048	BE	NET		080	56° 13.93	133° 46.23							BONGO
		0106	BE	TRAWL		081	56 13 01	133 46 15							TRAWL

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							Latitude	Longitude							
13	FI 08	1403	BE	CTD		082	54° 42.24	133° 58.57	199			1	14.M.		T:10.64 S: 31.96
		1407	BO				54° 42.21	133° 58.63		190					BOT@10m - SAL/CAL/NUTS
		1412	EN				54° 42.20	133° 58.68							NO BONGO
		1424	BE	TRAWL		083	54 42 26	133 58 63							TRAWL
13	FI 07	1524	BE	CTD		084	54° 42.96	133° 50.48	219			1			T:10.77 S: 31.99
		1529	BO				54° 42.93	133° 50.47		210					BOT@10m - SAL/CAL/NUTS
		1534	EN				54° 42.91	133° 50.50							NO BONGO
		1545	BE	TRAWL		085	54 43 04	133 49 46							TRAWL
13	FI 06	1640	BE	CTD		086	54° 43.48	133° 42.61	210			1			T: 10.79 S: 32.04
		1644	BO				54° 43.46	133° 42.59		200					BOT@10m - SAL/CAL/NUTS
		1649	EN				54° 43.42	133° 42.56							
		1653	BE	NET		087	54° 43.41	133° 42.59							* BONGO
		1714	BE	TRAWL		088	54 43 41	133 41 42							TRAWL

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							Latitude	Longitude							
13	F1 05	1923	BE	CTD	2 nd	089	54° 43.81	133° 35.59	198			1	Hrs.		T: 10.87 S: 32.03
		1927	BO				54° 43.76	133° 35.51		185					Bottle 10m - SAL/CAL/NUTS
		1931	GN				54° 43.72	133° 35.45							
		1935	BE	NET	3 rd	090	54° 43.69	133° 35.35		150					BONGO
		1810	BE	TRAWL	1 st	091	54° 43.67	133° 35.77							TRAWL
13	F1 04	2033	BE	CTD		092	54° 45.25	133° 26.49	139			1			T: 10.88 S: 32.07
		2035	BO				54° 45.25	133° 26.50		125					Bottle 10m - SAL/CAL/NUTS
		2038	GN				54° 45.25	133° 26.51							
		2041	BE	NET		093	54° 45.23	133° 26.51		130					BONGO
		2059	BE	TRAWL		094	54° 45.32	133° 25.60							TRAWL
13	F1 03	2150	BE	CTD		095	54° 45.87	133° 18.93	111			1			T: 10.91 S: 31.93
		2153	BO				54° 45.84	133° 18.92		100					Bottle 10m - SAL/CAL/NUTS
		2155	GN				54° 45.80	133° 18.97							
			BE	NET		—	54° 45.	133° 18.							BONGO NO BONGO
		2206	BE	TRAWL		096	54° 45.906	133° 17.82							TRAWL

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DAILY LOG

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Month OCTOBER				Year 2008			Ship W.E. RICKER				Cruise ID 2008-15				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
14	ISCA 15	1553	BE	CTD		106	56°30.02	134°33.48	510			1	H.M.		T: 7.86 S: 30.85
		1559	BO				56°30.06	134°33.37		250					BOT@10m - SAL/CHL/NUIS
		1605	EN				56°30.06	134°33.33							
		1608	BE	NET		107	56°30.02	134°33.32		150					BONGO
		1630	BE	TRAWL		108	56°30.8	134°33.13							TRAWL
14	ISCA 16	1741	BE	CTD		109	56°36.04	134°26.29	500			1			T: 8.54 S: 30.67
		1746	BO				56°36.03	134°26.24		250					BOT@10m - SAL/CHL/NUIS
		1752	EN				56°36.04	134°26.21							
		1756	BE	NET		110	56°36.02	134°26.21		150					BONGO
		1813	BE	TRAWL		111	56°36.74	134°26.14							TRAWL
14	ISCA 17	1925	BE			112	56°43.43	134°33.58	682			1			T: 8.17 S: 30.56
		1930	BO				56°43.45	134°33.60		250					BOT@10m - SAL/CHL/NUIS
		1935	EN				56°43.46	134°33.59							
		1938	BE			113	56°43.47	134°33.58		150					BONGO
		1957	BE			114	56°44.65	134°33.93							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							
14	15CA 18	2109	BC	CTD		115	56° 50. 68	134° 27. 94	295			1	H.M.		T: 8.39 S: 30.57
		21 14	BO				56° 50. 73	134° 27. 84		250					BOT@10m - SAL/CAL/NOTS
		21 19	EN				56° 50. 78	134° 27. 77							
		21 23	BC	NET		116	56° 50. 84	134° 27. 68		150					BONGO
		21 40	BE	TRAWL		117	56 51 92	134 27 23							TRAWL
14	15CA 19	2303	BC	CTD		118	56° 55. 63	134° 37. 69	606			1			T: 7.55 S: 30.77
		23 08	BO				56° 55. 59	134° 37. 73		250					BOT@10m - SAL/CAL/NOTS
		23 13	EN				56° 55. 55	134° 37. 69							
		23 17	BC	NET		119	56° 55. 56	134° 37. 66		150					BONGO
		23 34	BE	TRAWL		120	56 56 21	134 38 09.							TRAWL
15	15CA 20	0049	BC	CTD		121	57° 02. 14	134° 37. 95	230						T: 7.51 S: 30.36
		00 54	BO				57° 02. 11	134° 37. 85		220					BOT@10m - SAL/CAL/NOTS
		00 58	EN				57° 02. 09	134° 37. 80							
		01 09	BC			122	57° 02. 24	134° 38. 43		150					BONGO
		01 25	BE			123	57 02 83	134 38 43.							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							
15	ISGA 21	1407	BC	CTD		124	56° 56.15	132° 56.39	115			1	H.M.		T: 6.86 S: 28.90
		1410	BO				56° 56.15	132° 56.37		105					BOT@10m - SAL/CHL/NUTS
		1413	EN				56° 56.14	132° 56.41							
		1417	BC	NET		125	56° 56.09	132° 56.45		105					BONGO
		1437	BE	TRAWL		126	56 56 80	132 57 49							TRAWL
15	ISGA 22	1538	BC	CTD		127	57° 02.18	133° 04.95	143						T: 6.79 S: 28.83
		1541	BO				57° 02.20	133° 04.97		130					BOT@10m - SAL/CHL/NUTS
		1544	EN				57° 02.24	133° 04.96							
		1550	BC	NET		128	57° 02.23	133° 04.95							BONGO
		1608	BE	TRAWL		129	57 02 62	133 06 41							TRAWL
15	ISGA 23	1716	BC	CTD		130	57° 05.04	133° 18.94	152			1			T: 7.13 S: 30.00
		1719	BO				57° 05.03	133° 18.94		147					BOT@10m - SAL/CHL/NUTS
		1723	EN				57° 05.03	133° 18.94							
		1726	BC	NET		131	57° 05.04	133° 18.94		140					BONGO
		1748	BE	TRAWL		132	57 05.35	133 20.67							TRAWL

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15	ISEA 24	1903	BG	CTD		133	57° 08.10	133° 30.83	135			1	H.M.		T: 7.12 S: 29.68
		1906	BO				57° 08.09	133° 30.85		125					BOT 10m - SAL/CAL/NUTS
		1909	EN				57° 08.10	133° 30.84							
		1913	BG	NET		134	57° 08.11	133° 30.83		135					BONGO
		1931	BG	TRAWL		135	57° 08.382	133° 32.64							TRAWL
15	ISEA 25	2045	BG	CTD		136	57° 08.81	133° 45.88	229			1			T: 7.50 S: 29.99
		2049	BO				57° 08.81	133° 45.84		220					BOT 10m - SAL/CAL/NUTS
		2054	EN				57° 08.80	133° 45.75							
		2057	BG	NET		137	57° 08.81	133° 45.72		150					BONGO
		2113	BG	TRAWL		138	57° 09.078	133° 46.74							TRAWL
15	ISEA 26	2235	BG	CTD		139	57° 07.90	134° 01.54	307			1			T: 7.66 S: 30.07
		2240	BO				57° 07.93	134° 01.46		250					BOT 10m - SAL/CAL/NUTS
		2246	EN				57° 07.94	134° 01.44							
		2250	BG	NET		140	57° 07.96	134° 01.52		150					BONGO
		2306	BG	TRAWL		141	57° 07.62	134° 02.74							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							
16	15CA 27	00 29	BC	CTD		142	57° 00.30	134° 12.54	325			1	H.M.		T: 8.00 S: 30.46
		00 35	BO				57° 00.32	134° 12.57		250					BOT@10m - SAL/CAL/NUTS
		00 40	EN				57° 00.31	134° 12.59							
		00 43	BE	NET		143	57° 00.29	134° 12.61		150					BONGO
		01 00	BE	TRAWL		144	56 59 86	134 13.88							TRAWL
16 15CA 27 01 00 BE TRAWL 144 56 59 86 134 13.88															
16	15CA 28	14 03	BC	CTD		145	58° 15.55	135° 32.79	155			1			T: 7.41 S: 29.35
		14 06	BO				58° 15.54	135° 32.78		145					BOT@10m - SAL/CAL/NUTS
		14 10	EN				58° 15.55	135° 32.80							
		14 14	BC	NET		146	58.15 57	135° 32.82		148					BONGO
		14 35	BC	TRAWL		147	58 15 36	135 32 81							TRAWL
16	15CA 29	15 48	BE	CTD		148	58° 13.39	135° 19.58	264			1			T: 7.81 S: 28.82
		15 53	BO				58° 13.43	135° 19.57		250					BOT@10m - SAL/CAL/NUTS
		15 59	EN				58° 13.43	135° 19.51							
		16 02	BE	NET		149	58° 13.42	135° 19.51							BONGO
		16 22	BE	TRAWL		150	58 13 28	135 18 20		150					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							
16	ISCA 30	1744	BE	CTD		151	58° 09.74	135° 03.23	197			1	W.M.		T: 7.68 S: 26.89
		1748	BO				58° 09.75	135° 03.22		190					BOT@10m - SAL/CHL/NUTS
		1752	EN				58° 09.74	135° 03.20							
		1756	BE	NET		152	58° 09.74	135° 03.19		150					BONGO
		1815	BE	TRAWL		153	58° 09.50	135° 02.01							TRAWL
16	ISCA 31	1938	BE	CTD		154	58° 03.84	134° 50.69	380			1			T: 7.75 S: 29.17
		1943	BO				58° 03.90	134° 50.74		250					BOT@10m - SAL/CHL/NUTS
		1949	EN				58° 03.99	134° 50.80							
		1952	BE	NET		155	58° 04.02	134° 50.92		150					BONGO
		2008	BE	TRAWL		156	58° 03.47	134° 50.63							TRAWL
16	ISCA 32	2141	BE	CTD		157	57° 53.23	134° 47.22	488			1			T: 7.72 S: 29.54
		2146	BO				57° 53.22	134° 47.17		250					BOT@10m - SAL/CHL/NUTS
		2151	EN				57° 53.31	134° 47.10							
		2154	BE	NET		158	57° 53.31	134° 47.05		150					BONGO
		2209	BE	TRAWL		159	57° 52.83	134° 46.68							TRAWL

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BOT = bottle cast, no CTD	MOR = mooring	US = up/stop	BE = beginning time of cast	DE = deployment time
CTD = CTD without Rosette	NET = net haul	UN = up/no stop	BO = bottom time of cast	MR = messenger release time
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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

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							Latitude	Longitude							
17	B 06	1704	BE	CTD		169	56° 03. 58	135° 28. 49	306			1	H.M.		T: 10.51 S: 31.85
		1709	BO				56° 03. 59	135° 28. 54		250					BOT@10m - SAL/CAL/NUTS
		1714	EN				56° 03. 58	135° 28. 55							
		1718	BE	NET		170	56° 03. 59	135° 28. 59		150					BONGO
		1730	BE	TRAWL		171	56 04. 21	135 28. 33							TRAWL
17	B05	1852	BE	CTD		172	56° 07. 17	135° 21. 70	301			1			T: 10.54 S: 31.81
		1857	BO				56° 07. 18	135° 21. 71		250					BOT@10m - SAL/CAL/NUTS
		1902	EN				56° 07. 18	135° 21. 71							
		1906	BE	NET		173	56° 07. 19	135° 21. 68		150					BONGO
		1915	BE	TRAWL		174	56 07. 91	135 20. 755							TRAWL
17	B04	2002	BE	CTD		175	56° 09. 59	135° 15. 47	287			1			T: 10.58 S: 31.89
		2007	BO				56° 09. 58	135° 15. 43		250					BOT@10m - SAL/CAL/NUTS
		2013	EN				56° 09. 57	135° 15. 40							
		2016	BE	NET		176	56° 09. 56	135° 15. 39		150					BONGO
		2034	BE	TRAWL		177	56 10. 08	135 13. 64							TRAWL

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							Latitude	Longitude							
17	B03	2120	BC	CTD		178	56° 12. 20	135° 09. 48	193			1	H.M.		T: 10.50 S: 31.88
		2123	BO				56° 12. 20	135° 09. 46		180					BOT@10m - SAL/CHL/NUTS
		2130	EN				56° 12. 19	135° 09. 40							
		21	BC	NET		179	56° 12.	135° 09.		150					BONGO
		2147	BC	TRAWL		180	56 12. 69	135 8. 18							TRAWL
17	B02	2237	BC	CTD		181	56° 14. 59	135° 03. 10	131			1			T: 9.52 S: 31.60
		2240	BO				56° 14. 57	135° 03. 08		120					BOT@10m - SAL/CHL/NUTS
		2245	EN				56° 14. 55	135° 03. 08							
		22	BC	NET		182	56° 14. 54	135° 03. 08		125					BONGO
		2300	BC	TRAWL		183	56 14 83	135 02. 13							TRAWL
18	B01	0036	BC	CTD		184	56° 17. 38	134° 56. 16	142			1			T: 9.44 S: 31.40
		0039	BO				56° 17. 36	134° 56. 16		130					BOT@10m - SAL/CHL/NUTS
		0042	EN				56° 17. 34	134° 56. 17							
		0045	BC	NET		185	56° 17. 31	134° 56. 15		130					BONGO
		0102	BC	TRAWL		186	56 16 61	134 56. 00							TRAWL

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							Latitude	Longitude							
18	15GA 34	1851	BE	CTD		187	55° 27.60	131° 58.44	432			1	H.M.		T: 9.41 S: 27.22
		1855	BO				55° 27.59	131° 58.48		250					BOT@10m - SAL/CHL/NOTS
		1901	EN				55° 27.57	131° 58.50							
		1905	BE	NET		188	55° 27.55	131° 58.55		150					BONGO
		1925	BE	TRAWL		189	55 26.637	171 58.603							TRAWL
18	15GA 35	2040	BE	CTD		190	55° 20.16	131° 55.07	469			1			T: 9.40 S: 29.93
		2046	BO				55° 20.20	131° 54.96		250					BOT@10m - SAL/CHL/NOTS
		2051	EN				55° 20.22	131° 54.91							
		2054	BE	NET		191	55° 20.23	131° 54.86		150					BONGO
		2110	BE	TRAWL		192	55 19.82	131 54.60							TRAWL
18	15GA 36	2230	BE	CTD		193	55° 12.47	131° 52.30	425			1			T: 9.33 S: 29.91
		2235	BO				55° 12.53	131° 52.25		250					BOT@10m - SAL/CHL/NOTS
		2240	EN				55° 12.57	131° 52.18							
		2243	BE	NET		194	55° 12.60	131° 52.14		150					BONGO
19		00.00	BE	TRAWL		195	55 12.184	131 51.854							TRAWL

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month OCTOBER			Year 2008				Ship W. G. RICKER				Cruise ID 2008-15				
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	1560 37	0032	BC	CTD		196	55°05.93	131°47.79	495			1	U.M.		T: 9.65 S: 30.13
		0038	BO				55°05.93	131°47.78		250					BOT-10m. SAL/CHL/NUIS
		0043	EN				55°05.91	131°47.78							
		0047	BC	NET		197	55°05.87	131°47.85		150					BONGO
		0107	BC	TRAWL		198	55°05.30	131°48.16							TRAWL
19 1560 37 0032 BC CTD 196 55°05.93 131°47.79 495															
19	1560 03	1408	BC	CTD		199	55°07.17	129°56.97	414			1			T: 7.83 S: 25.79
		1413	BO				55°07.18	129°56.97		250					BOT-10m. SAL/CHL/NUIS
		1418	EN				55°07.17	129°56.97							
		1422	BC	NET		200	55°07.15	129°56.98							BONGO
		1441	BC	TRAWL		201	55°06.39	129°57.64							TRAWL
19 1560 03 1408 BC CTD 199 55°07.17 129°56.97 414															
19	1560 04	1548	BC	CTD		202	54°59.70	130°02.98	192			1			T: 8.12 S: 27.00
		1551	BO				54°59.69	130°02.99		180					BOT-10m. SAL/CHL/NUIS
		1556	EN				54°59.65	130°03.08							
		1559	BC	NET		203	54°59.68	130°03.10		150					BONGO
		1618	BC	TRAWL		204	54°58.92	130°04.04							TRAWL
19 1560 04 1548 BC CTD 202 54°59.70 130°02.98 192															

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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	IBC 05	1729	BC	CTD		205	54° 51.92	130° 12.21	363			1	H.M.		T: 8.54 S: 27.28
		1734	BO				54° 51.95	130° 12.21		250					BOT@10m - SAL/CHL/NUTS
		1740	CH				54° 51.99	130° 12.20							
		1743	BC	NET		206	54° 52.00	130° 12.18		150					BONGO
		1800	BC	TRAWL		207	54 51 44	130 12 68							TRAWL
19	IBC 06	1903	BC	CTD		208	54° 47.76	130° 17.85	418			1			T: 8.61 S: 26.81
		1908	BO				54° 47.73	130° 17.81		250					BOT@10m - SAL/CHL/NUTS
		1913	CH				54° 47.74	130° 17.79							
		1916	BC	NET		209	54° 47.75	130° 17.79		150					BONGO
		1932	BC	TRAWL		210	54 47 14	130 18.73							TRAWL
19	IBC 07	2026	BC	CTD		211	54° 44.06	130° 24.57	529			1			T: 8.30 S: 26.37
		2031	BO				54° 44.08	130° 24.55		250					BOT@10m - SAL/CHL/NUTS
		2036	CH				54° 44.08	130° 24.53							
		2039	BC	NET		212	54° 44.09	130° 24.46							BONGO
		2054	BC	TRAWL		213	54 43 44	130 25.14							TRAWL

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							Latitude	Longitude							
19	IBC 08	2218	BE	CTD		214	54° 36.88	130° 33.89	377			1	H.M.		T: 9.42 S: 29.15
		2223	BO				54° 36.89	130° 33.91		250					BOT@ 10m - SAL/CAL/HUTS
		2229	EN				54° 36.91	130° 33.88							
		2232	BE	NET		215	54° 36.97	130° 33.89		150					BONGO
		2247	BE	TRAWL		216	54° 36.63	130° 34.15							TRAWL
20	IBC 09	0037	BE	CTD		217	54° 26.66	130° 33.93	110			1			T: 9.56 S: 29.95
		0039	BO				54° 26.70	130° 33.95		100					BOT@ 10m - SAL/CAL/HUTS
		0042	EN				54° 26.72	130° 33.95							
		0045	BE	NET		218	54° 26.75	130° 33.93		100					BONGO
		0059	BE	TRAWL		219	54° 26.45	130° 34.10							TRAWL
20 IBC 10 1406 BE CTD 220 53° 21.09 129° 12.54 454 1 T: 7.96 S: 24.61															
20	IBC 10	1406	BE	CTD		220	53° 21.09	129° 12.54	454			1			T: 7.96 S: 24.61
		1411	BO				53° 21.12	129° 12.54		250					BOT@ 10m - SAL/CAL/HUTS
		1416	EN				53° 21.12	129° 12.55							
		1421	BE	NET		221	53° 21.12	129° 12.56							BONGO
		1440	BE	TRAWL		222	53° 21.5	129° 12.3							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	IBC 11	1608	BE	CTD		223	53° 30.53	129° 12.34	352			1	H.M.		T: 7.85 S: 24.17
		1613	BO				53° 30.50	129° 12.33		250					BOT@10m - SAL/NUTS
		1618	EN				53° 30.47	129° 12.37							NO CHL
		1623	BE	NET		224	53° 30.46	129° 12.39		150					BONGO
		1640	BE	TRAWL		225	53 30 99	129 12.08							TRAWL
20	IBC 12	1756	BE	CTD		226	53° 38.27	129° 11.02	364			1			T: 8.05 S: 23.81
		1801	BO				53° 38.29	129° 11.05		250					BOT@10m - SAL/CHL/NUTS
		1806	EN				53° 38.33	129° 11.07							
		1810	BE	NET		227	53° 38.34	129° 11.08		150					BONGO
		1828	BE	TRAWL		228	53 38.90	129 10.25							TRAWL
20	IBC 13	1952	BE	CTD		229	53° 44.67	128° 59.01	287			1			T: 8.06 S: 23.99
		1957	BO				53° 44.68	128° 59.02		250					BOT@10m - SAL/NUTS
		2003	EN				53° 44.70	128° 59.04							NO CHL
		2006	BE	NET		230	53° 44.71	128° 59.05		150					BONGO
		2020	BE	TRAWL		231	53 45 13	128 58 29							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	IBC 14	2134	BC	CTD		232	53° 49.97	128° 47.92	314			1	H.M.		T: 8.07 S: 22.44
		2139	BO				53° 49.95	128° 47.91		250					BOT@10m SAL/CHL/NUTS
		2144	EN				53° 49.94	128° 47.88							
		2147	BC	NET		233	53° 49.93	128° 47.87		150					BONGO
		2202	BC	TRAWL		234	53 50 52	128 47.51							TRAWL
21	IBC 15	1438	BC	CTD		235	53° 57.80	128° 40.75	170			1			T: 7.42 S: 21.31
		1441	BO				53° 57.80	128° 40.72		160					BOT@10m SAL/CHL/NUTS
		1445	EN				53° 57.79	128° 40.68							
		1447	BC	NET		236	53° 57.77	128° 40.67		150					BONGO
		1505	BC	TRAWL		237	53 57 17	128 41.14							TRAWL
21	IBC 16	1624	BC	CTD		238	53° 49.31	128° 43.68	235			1			T: 8.12 S: 20.19
		1628	BO				53° 49.28	128° 43.73		225					BOT@10m SAL/NUTS
		1634	EN				53° 49.26	128° 43.80							NO CHL
		1637	BC	NET		239	53° 49.26	128° 43.82		150					BONGO
		1654	BC	TRAWL		240	53 48 82	128 44.77							TRAWL

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
21	IBC 17	1816	BG	CTD		241	53°41.53	128°48.75	289			1	4.m.		T: 7.45 S: 21.52
		1821	BO				53°41.51	128°48.74		250					BOT@10m - SAL/CHL/NUTS
		1826	EN				53°41.52	128°48.74							
		1830	BG	NET		242	53°41.53	128°48.74		150					BONGO
		1849	BG	TRAWL		243	53°41.22	128°49.373							TRAWL
21	IBC 18	2013	BG	CTD		244	53°34.40	128°48.08	170			1			T: 7.67 S: 20.61
		2016	BO				53°34.40	128°48.08		160					BOT@10m - SAL/CHL/NUTS
		2020	EN				53°34.40	128°48.07							NO CHL
		2023	BG	NET		245	53°34.40	128°48.05		150					BONGO
		2038	BG	TRAWL		246	53°33.99	128°47.65							TRAWL
21	IBC 19	2200	BG	CTD		247	53°33.20	128°51.45	167			1			T: 7.76 S: 26.90
		2203	BO				53°33.19	128°51.45		155					BOT@10m - SAL/CHL/NUTS
		2207	EN				53°33.18	128°51.42							
		2210	BG	NET		248	53°33.19	128°51.40		150					BONGO
		2225	BG	TRAWL		249	53°32.90	128°52.374							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	IBC 20	00 26	BC	CTD		250	53° 28. 20	128° 58. 27	108			1	H.M.		T: 8.14 S: 27.85
		00 29	BO				53° 28. 20	128° 58. 28		100					BOT 10m - SAL/NUTS
		00 31	CM				53° 28. 21	128° 58. 31							<u>NO CAL</u>
		00 35	BE	NET		251	53° 29. 24	128° 58. 36							BONGO
		00 49	BE	TRAWL		252	53 27 71	128 57 74							TRAWL
22 IBC 21 14 05 BC CTD 253 52° 04. 82 127° 54 30 201 190 14 09 BO 52° 04. 77 127° 54. 28 14 14 CM 52° 04. 76 127° 54. 35 14 17 BE NET 254 52° 04. 74 127° 54. 37 150 14 32 BE TRAWL 255 52 05. 24 127 54. 3															
22	IBC 21	14 05	BC	CTD		253	52° 04. 82	127° 54 30	201			1			T: 8.98 S: 26.59
		14 09	BO				52° 04. 77	127° 54. 28		190					BOT 10m - SAL/CAL/NUTS
		14 14	CM				52° 04. 76	127° 54. 35							
		14 17	BE	NET		254	52° 04. 74	127° 54. 37		150					BONGO
		14 32	BE	TRAWL		255	52 05. 24	127 54. 3							TRAWL
22	IBC 22	16 01	BC	CTD		256	52° 14. 33	127° 47. 59	506			1			T: 8.95 S: 21.38
		16 06	BO				52° 14. 32	127° 47. 61		250					BOT 10m - SAL/NUTS
		16 12	CM				52° 14. 32	127° 47. 62							<u>NO CAL</u>
		16 16	BE	NET		257	52° 14. 30	127° 47. 60		150					BONGO
		16 33	BE	TRAWL		258	52 14 82	127 46 83							TRAWL

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Month <u>OCTOBER</u>				Year <u>2008</u>			Ship <u>W. E. RICKER</u>				Cruise ID <u>2008-5</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
22	IBC 23	1801	BC	CTD		259	52° 19.07	127° 31.58	267			1	H.M.		T: 8.44 S: 15.91
		1807	BO				52° 19.08	127° 31.64		250					BOT@10m - SAL/CHL/NUTS
		1812	EN				52° 19.07	127° 31.77							
		1816	BE	NET		260	52° 19.07	127° 31.80		150					BONGO
		1833	BE	TRAWL		261	52° 19.29	127° 30.98							TRAWL
22	IBC 24	2023	BC	CTD		262	52° 26.86	127° 15.59	528			1			T: 8.61 S: 19.69
		2029	BO				52° 26.84	127° 15.61		250					BOT@10m - SAL/CHL/NUTS
		2035	EN				52° 26.83	127° 15.65							NO CHL
		2038	BC	NET		263	52° 26.84	127° 15.68		150					BONGO
		2052	BC	TRAWL		264	52° 26.71	127° 15.12							TRAWL
22	IBC 25	2208	BC	CTD		265	52° 20.16	127° 10.75	550			1			T: 8.59 S: 19.65
		2214	BO				52° 20.10	127° 10.73		250					BOT@10m - SAL/CHL/NUTS
		2219	EN				52° 20.07	127° 10.72							
		2221	BC	NET		266	52° 20.05	127° 10.71		150					BONGO
		2340	BC	TRAWL		267	52° 19.44	127° 11.47							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							
23	IBC 26	0040	BE	CTD		268	52° 11.08	127° 29.63	565			1	H.M.		T: 7.98 S: 20.71
		0045	BO				52° 11.09	127° 29.61		250					BOT@10m - SAL/NUTS
		0050	EN				52° 11.12	127° 29.91							NO CHL
		0053	BE	NET		269	52° 11.23	127° 29.90		150					BONGO
		0109	BE	TRAWL		270	52 10.08	127 29 64							TRAWL
23	QCST 01	1402	BE	CTD		271	50° 48.14	127° 25.57	170			1			T: 8.45 S: 31.31
		1405	BO				50° 48.15	127° 25.56		160					BOT@10m - SAL/CHL/NUTS
		1409	EN				50° 48.14	127° 25.74							
		1412	BE	NET		272	50° 48.11	127° 25.70		150					BONGO
		1435	BE	TRAWL		273	50 47.8	127 23.8							TRAWL
23	QCST 02	1549	BE	CTD		274	50° 48.38	127° 11.60	147			1			T: 8.23 S: 30.52
		1552	BO				50° 48.38	127° 11.56		135					BOT@10m - SAL/NUTS
		1555	EN				50° 48.38	127° 11.80							NO CHL
		1558	BE	NET		275	50° 48.39	127° 11.79		140					BONGO
		1618	BE	TRAWL		276	50 48.03	127 10.61							TRAWL

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							Latitude	Longitude							
23	QCST 03	1737	BE	CTD		277	50° 46.26	126° 58.63	174			1	H.M.		T: 8.34 S: 31.17
		1741	BO				50° 46.25	126° 58.60		165					BOTOM - SAL/CAL/NOTS
		1745	CH				50° 46.24	126° 58.61							
		1748	BG	NET		278	50° 46.02	126° 58.57		150					BONGO
		1804	BE	TRAWL		279	50° 45.63	126° 57.82							TRAWL
23	QCST 04	1924	BE	CTD		280	50° 40.85	126° 49.92	176			1			T: 8.47 S: 31.05
		1928	BO				50° 40.77	126° 49.87		165					BOTOM - SAL/NOTS
		1932	CH				50° 40.69	126° 49.81							NO CHL
		1936	BE	NET		281	50° 40.60	126° 49.70		150					BONGO
		1951	BE	TRAWL		282	50° 40.71	126° 49.96							TRAWL
23	JS 01	2135	BG	CTD		283	50° 32.22	126° 40.34	321			1			T: 9.19 S: 31.01
		2140	BO				50° 32.25	126° 40.43		250					BOTOM - SAL/CAL/NOTS
		2145	CH				50° 32.31	126° 40.60							
		2148	BG	NET		284	50° 32.34	126° 40.69		150					BONGO
		2202	BE	TRAWL		285	50° 32.15	126° 40.30							TRAWL

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month OCTOBER				Year 2008			Ship W.E. RICKER				Cruise ID 2008-15				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
23	JS 02	2315	BE	CTD		286	50° 30. 61	126° 30. 86	355			1	H.M.		T: 9.03 S: 30.79
		23 20	BO				50° 30. 60	126° 30. 95		250					BOT 10m - SAL / NUTS
		23 28	EN				50° 30. 61	126° 31. 03							NO CHL
		23	BE	NET		287	50° 30. 62	126° 31. 10		150					BONGO
		23 42	BE	TRAWL		288	50 30 53	126 30 53							TRAWL
24	JS 03	0054	BE	CTD		289	50° 30. 43	126° 20. 97	290			1			T: 9.07 S: 30.73
		00 59	BO				50° 30. 45	126° 20. 97		250					BOT 10m - SAL / CHL / NUTS
		01 04	EN				50° 30. 45	126° 20. 98							
		01 07	BE	NET		290	50° 30. 46	126° 20. 98		150					BONGO
		01 23	BE	TRAWL		291	50 30. 47	126 20. 26							TRAWL
24	GS 01	1414	BE	CTD		292	49° 26. 16	124° 20. 51	322			1			T: 10.53 S: 28.27
		14 19	BO				49° 26. 19	124° 20. 48		250					BOT 10m - SAL / CHL / NUTS
		14 24	EN				49° 26. 21	124° 20. 47							
		14 27	BE	NET		293	49° 26. 19	124° 20. 47							BONGO
		14 32	BE	TRAWL		294	19 26. 20	124 21 6							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							
24	GS 02	1548	BE	CTD		295	49° 26. 75	124° 31. 24	255			1	14.m.		T: 10.35 S: 28.75
		1553	BO				49° 26. 79	124° 31. 28		245					BOT@10m. SAL/NUTS
		1558	EN				49° 26. 79	124° 31. 27							NO CHL
		1601	BE	NET		296	49° 26. 80	124° 31. 28		150					BONGO
		1619	BE	TRAWL		297	49° 27. 52	124° 31. 03							TRAWL
24	GS 03	1722	BE			298	49° 33. 23	124° 26. 75	138						T: 10.44 S: 28.57
		1724	BO				49° 33. 24	124° 26. 73		125					BOT@10m. SAL/CHL/NUTS
		1728	EN				49° 33. 25	124° 26. 71							
		1731	BE			299	49° 33. 27	124° 26. 65		130					BONGO
		1746	BE			300	49° 33. 24	124° 27. 21							TRAWL
24	GS 04	1908	BE			301	49° 38. 47	124° 32. 45	279			1			T: 10.45 S: 28.66
		1913	BO				49° 38. 57	124° 32. 45		250					BOT@10m. SAL/NUTS
		1918	EN				49° 38. 53	124° 32. 44							NO CHL
		1921	BE			302	49° 38. 53	124° 32. 45		150					BONGO
		1937	BE			303	49° 38. 37	124° 33. 98							TRAWL

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[illegible]

*	P	O	M	P	O	F	F	O	N	D	O	W	N	C	A	S	T
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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month OCTOBER				Year 2008			Ship W. E. RICKER					Cruise ID 2008-15				
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	GS 05	2041	BE	CTD		304	49° 36. 37	124° 42. 20	122			1	14.m.		T: 10.21 S: 28.98	
		20 44	BO				49° 36. 37	124° 42. 19		110					BOT@10m - SAL/CAL/NOTS	
		20 47	EN				49° 36. 38	124° 42. 15								
		20 49	BE	NET		305	49° 36. 42	124° 42. 12							BONGO	
		21 03	BE	TRAWL		306	49 37 139	124 41 85							TRAWL	
24	GS 06	2205	BE	CTD		307	49° 42. 96	124° 40. 43	328			1			T: 10.64 S: 28.62	
		2210	BO				49° 42. 96	124° 40. 45		250					BOT@10m - SAL/NOTS	
		2215	EN				49° 42. 95	124° 40. 42							(NO CAL)	
		2217	BE	NET		308	49° 42. 95	124° 40. 43							BONGO	
		2233	BE	TRAWL		309	49 43 06	124 41 71							TRAWL	
25	GS 07	0026	BE	CTD		310	49° 44. 32	124° 49. 17	145			1			T: 10.53 S: 28.72	
		0029	BO				49° 44. 31	124° 49. 18		135					BOT@10m - SAL/CAL/NOTS	
		0032	EN				49° 44. 31	124° 49. 20								
		0035	BE	NET		311	49° 44. 31	124° 49. 20		1					BONGO	
		0049	BE	TRAWL		312	49 44 02	124 49. 57							TRAWL	

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Month <u>OCTOBER</u>			Year <u>2008</u>			Ship <u>W.E. RICKER</u>			Cruise ID <u>2008-15</u>						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
25	GS 08	0151	BE	CTD		313	49° 50.38	124° 52.75	322			1	H.M.		T:10.40 S:28.84
		0157	BO				49° 50.45	124° 52.73		250					BOT@10m - SAL/NOTS
		0202	EN				49° 50.50	124° 52.66							NO CHL NO TRAWL
		0206	BE	NET		314	49° 50.55	124° 52.63		150					BONGO
25	GS 09	0304	BE	CTD		315	49° 47.33	124° 43.17	213			1			T:10.62 S:28.34
		0309	BO				49° 47.32	124° 43.14		200					BOT@10m - SAL/CHL/NOTS
		0313	EN				49° 47.33	124° 43.11							NO TRAWL
		0321	BE	NET		316	49° 47.33	124° 43.06		150					BONGO
25	GS 10	0409	BE	CTD		317	49° 49.48	124° 35.23	281			1			T:10.71 S:28.17
		0414	BO				49° 49.51	124° 35.22		250					BOT@10m - SAL/NET
		0419	EN				49° 49.53	124° 35.20							NO CHL NO TRAWL
		0421	BE	NET		318	49° 49.56	124° 35.17		150					BONGO

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Month <u>OCTOBER</u>				Year <u>2008</u>			Ship <u>W.E. RICKER</u>				Cruise ID <u>2008-15</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
25	GS 11	1403	BE	CTD		319	49° 43. 84	124° 24. 15	196			1	H.T.		T: 10.66 S: 27.40
		1407	BO				49° 43. 84	124° 24. 11		185					BOT@10m - SAL/CAL/NOTS
		1411	EN				49° 43. 84	124° 24. 10							
		1414	BE	NET		320	49° 43. 86	124° 24. 14		150					BONGO
		1431	BE	TRAWL		321	49 43 64	124 22 84							TRAWL
25	GS 12	1529	BE	CTD		322	49° 42. 30	124° 14. 91	269			1			T: 10.63 S: 25.50
		1535	BO				49° 42. 28	124° 15. 01		250					BOT@10m - SAL/NOTS
		1540	EN				49° 42. 26	124° 15. 08							NO CAL
		1543	BE	NET		323	49° 42. 26	124° 15. 10		150					BONGO
		1559	BE	TRAWL		324	49 41. 70	124 14. 89							TRAWL
25	GS 13	1700	BE	CTD		325	49° 35. 79	124° 12. 32	289			1			T: 10.60 S: 27.05
		1705	BO				49° 35. 76	124° 12. 35		250					BOT@10m - SAL/CAL/NOTS
		1710	EN				49° 35. 77	124° 12. 38							
		1713	BE	NET		326	49° 35. 76	124° 12. 40		150					BONGO
		1730	BE	TRAWL		327	49 35 44	124 11. 48							TRAWL

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INSTITUTE OF OCEAN SCIENCES

Month <u>OCTOBER</u>				Year <u>2008</u>			Ship <u>W.E. RICKER</u>				Cruise ID <u>2008-15</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
25	GS 14	1825	BE	CTD		328	49° 33. 53	124° 04. 63	149			1	H.M.		T: 10.51 S: 27.21
		1828	BO				49° 33. 53	124° 04. 68		140					BOT@ 10m - SAL/NOT
		1832	EN				49° 33. 55	124° 04. 75							NO CHL NO TRAWL
		1835	BE	NET		329	49° 33. 56	124° 04. 79							BONGO
End of Leg 1 of 2008-15															
November 2008															
Start of Leg 2 of 2008-15															
05	GS 15	1626	BE	CTD		330	49° 12.3914	123° 41.0694	343	260		1	W.E.		slow start - was in wrong seawater var at 1st, fluorometer trace no bloom
		1633	BO												
		1639	EN												
		1641	BE	NET		331	49° 12.382	123° 41.4320		150					
		17:09	BE	Trawl		332	49 12.38	123 40.13							
	GS 16	1819	BE	CTD		333	49° 12.3788	123° 28.9163	303	250		1			T = 9.59 S = 26.40 (got at end of cast)
		1824	BO				49° 12.4417	123° 28.8711							
		1830	EN				49° 12.5265	123° 28.9154							
		1832	BE	NET		334	49° 12.5804	123° 28.9241		150					* was recording time from computer will use NMEA string from now on.
		18:54	BE	Trawl		335	49 12.53	123 27.84							

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Additional comments

Salinity difference = 67 ! Salinity sensor # 2 not working ? Changed display to salinity # 1

DAILY LOG

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Month November				Year 2008			Ship R. L. K. R.				Cruise ID 2008-15				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
05	GS17	1956	BE	CTD		336	49° 13.0052	123° 20.4585	188	170		1	WE		T = 9.56 S = 24.06 (got at end of cast)
		2000	BO			336	49°	123°		170		↓	↓		star not functioning?
		2005	EN				49° 13.0162	123° 20.4161				↓	↓		
		2006	BE	NET		337	49° 13.0100	123° 20.4428		150					* going back to computer time - easier since NMEA goes on and off
		2032	BE	trawl		338	49° 11.942	123° 20.455							
	GS18	2126	BE	CTD		339	49° 07.2337	123° 21.6150	155						T = 9.29, S = 20.9
		2130	BO				49° 07.2190	123° 21.6073		140					
		2134	EN				49° 07.1920	123° 21.6281							
		2138	BE	NET		340	49° 07.1823	123° 21.6479		150					
		2159	BE	trawl		341	49° 07.17	123° 22.85							
	GS19	2244	BE	CTD		342	49° 06.8863	123° 27.5326	304						T = , S = (from end of cast)
		2250	BO				49° 06.8893	123° 27.5141		250					
		2255	EN				49° 06.8993	123° 27.5066							
		2258	BE	NET		343	49° 06.8917	123° 27.5054		150					
		2312	BE	trawl		344	49° 06.91	123° 29.13							

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Month Nov				Year 2008			Ship R/V				Cruise ID 2008-15				
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	GS20	0020	BE	CTD		345	49° 07.0882	123° 37.5516	113			1	WE		T=9.84 S=28.06
		0022	BO				49° 07.0855	123° 37.5486		100		↓	↓		(gob on way back)
		0026	EN				49° 07.1164	123° 37.5815							
		0028	BE	NET		346	49° 07.1427	123° 37.6026		138					
		0052	BE	Trawl		347	49° 06.58	123° 37.00							
	JF01	1401	BE	CTD		348	48° 17.3655	123° 34.4346	159	158					T=8.95, S=31.53
		1405	BO				48° 17.4183	123° 34.4327		140	440				noisy chl signal
		1408	EN				48° 17.3948	123° 34.3818							
		1419	BE	NET		349	48° 17.4520	123° 34.3879		145					
		1443	BE	trawl		350	48° 17.43	123° 35.71							
	JF02	1526	BE	CTD		351	48° 17.3096	123° 39.0240	157						T=8.89, S=31.78
		1530	BO				48° 17.2733	123° 38.8225		140					
		1533	EN				48° 17.2922	123° 38.6924							
		1537	BE	NET		352	48° 17.3178	123° 38.6154		150					
		1558	BE	Trawl		353	48° 17.34	123° 39.42							

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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							
<i>06</i>	<i>JF03</i>	<i>1732</i>	<i>BE</i>	<i>CTD</i>		<i>354</i>	<i>48° 20.2740</i>	<i>123° 51.1475</i>	<i>129</i>	<i>129</i>		<i>1</i>	<i>WE</i>		<i>T = 9.36, S = 31.96</i>
		<i>1734</i>	<i>BO</i>				<i>48° 20.3003</i>	<i>123° 51.0600</i>		<i>120</i>		<i>↓</i>	<i>↓</i>		
		<i>1738</i>	<i>EN</i>				<i>48° 20.3257</i>	<i>123° 50.9840</i>							<i>trans voltage = (volt 2)</i>
		<i>1743</i>	<i>BE</i>	<i>NET</i>		<i>355</i>	<i>48° 20.3107</i>	<i>123° 50.9275</i>		<i>119</i>					<i>~ 0.01 for entire cast</i>
		<i>1803</i>		<i>trawl</i>		<i>356</i>	<i>48 20.52</i>	<i>123 51.83</i>							
							<i>** mis-numbered the events (went from 357 to 359)</i>								
	<i>JF04</i>	<i>1912</i>	<i>BE</i>	<i>CTD</i>		<i>359</i>	<i>48° 23.2442</i>	<i>124° 01.5840</i>	<i>46</i>						<i>T = 9.16, S = 31.61</i>
		<i>1913</i>	<i>BO</i>				<i>48° 23.2489</i>	<i>124° 01.5563</i>		<i>40</i>					
		<i>1915</i>	<i>EN</i>				<i>48° 23.2547</i>	<i>124° 01.5499</i>							
		<i>1930</i>	<i>BE</i>	<i>NET</i>		<i>360</i>	<i>48° 23.2649</i>	<i>124° 01.5372</i>		<i>29</i>					
		<i>1930</i>	<i>BE</i>	<i>trawl</i>		<i>361</i>	<i>48 23.44</i>	<i>124 03.04</i>							
	<i>JF05</i>	<i>2031</i>	<i>BE</i>	<i>CTD</i>		<i>362</i>	<i>48° 25.3928</i>	<i>124° 10.4188</i>	<i>83</i>						<i>T = 9.05, S = 31.84</i>
		<i>2033</i>	<i>BO</i>				<i>48° 25.4239</i>	<i>124° 10.4834</i>		<i>70</i>					
		<i>2036</i>	<i>EN</i>				<i>48° 25.4598</i>	<i>124° 10.5188</i>							
		<i>2038</i>	<i>BE</i>	<i>Net</i>		<i>363</i>	<i>48° 25.4787</i>	<i>124° 10.5529</i>		<i>70</i>					
		<i>2114</i>	<i>BE</i>	<i>trawl</i>		<i>364</i>	<i>48 25 94</i>	<i>124 11.28</i>							

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bottle firing method:

US = up/stop
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 DN = down/no stop

Time Code

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>NOV</u>				Year <u>2008</u>			Ship <u>Rizker</u>			Cruise ID <u>2008-15</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							
06	JF06	2210	BE	CTD		365	48° 27.7753	124° 19.4053	85			1	WE		T = 8.88, S = 31.68
		2212	BO				48° 27.7891	124° 19.3932		75		↓	↓		
		2216	EN				48° 27.8013	124° 19.3913							
		2218	BE	NET		366	48° 27.8039	124° 19.3818		74					
		2236	BE	trawl		367	48 28 21	124 20.43							
															T = 10.03, S = 31.63
	JF07	2340	BE	CTD		368	48° 30.5436	124° 28.5905	113						T = 10.03, S = 31.63
		2342	BO				48° 30.5253	124° 28.5593		100					
		2347	EN				48° 30.5471	124° 28.6088							
		2349	BE	NET		369 1257	48° 30.5674	124° 28.6352							
07		00.08	BE	trawl		370	48 30.855	124 29.84							
07	IV101	1409	BE	CTD		371	48° 57.0297	125° 08.2134	28						T = 10.04, S = 28.72
		1411	BO				48° 57.0474	125° 08.1853		70					
		1414	EN				48° 57.0084	125° 08.2147							
		1418	BE	NET		372	48° 56.9924	125° 08.2796		64					
		1441	BE	trawl		373	48 56.83	125 8.25.							

Cast type:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month Nov				Year 2008			Ship R. L. K. L.			Cruise ID 2008-15					
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	IVIO2	1529	BE	CTD		374	48° 55.0722	125° 11.8804	95			1	WE		T = 9.77 S = 30.83
		1531	BO				48° 55.0823	125° 11.8905		85		↓	↓		
		1534	EN				48° 55.1274	125° 11.8924							
		1537	BE	NET		375	48° 55.0816	125° 11.8500		86					
		1550	BE	trawl		376	48° 54.430	125° 12.529							
07	IVIO3	1648	BE	CTD		377	48° 50.4321	125° 15.8460	97						T = 10.44, S = 31.90
		1651	BO				48° 50.4575	125° 15.8219		90					
		1654	EN				48° 50.4914	125° 15.7764							
		1658	BE	NET		378	48° 50.4607	125° 15.7417		88					
		1719	BE	trawl		379	48° 49.945	125° 16.166							
07	VI01	1823	BE	CTD		380	48° 47.8960	125° 21.7924	85						T = 10.29, 32.08
		1825	BO				48° 47.9123	125° 21.7339		75					
		1828	EN				48° 47.9819	125° 21.7564							
		1831	BE	NET		381	48° 47.0624	125° 21.7865		74					
		1853	BE	trawl		382	48° 47.776	125° 23.118							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Nov</i>				Year <i>2008</i>			Ship <i>Rickov</i>				Cruise ID <i>2008-15</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								
07	VI02	2030	BE	CTD		383	48°40.8872	125°35.6379	140			1	WE		T=10.31, S=32.43	
		2036	BO				48°40.9642	125°35.6686		130		↓	↓			
		2041	EN				48°40.9853	125°35.6839								
		2044	BE	Net		384	48°40.9830	125°35.8393		128						
		2110	BE	trawl		385	48°40.544	125°37.001								
07	VI03	2221	BE	CTD		386	48°35.6433	125°42.9304	60						T=9.84, S=32.36	
		2222	BO				48°35.6617	125°42.9293		50						
		2226	EN				48°35.6698	125°42.9334								
		2230	BE	NET		387	48°35.8063	125°42.9146		48						
		2250	BE	trawl		388	48°35.593	125°44.26								
08	VI04	0011	BE	CTD		389	48°29.9195	125°50.7968	100						T=9.83, S=32.38	
		0015	BO				48°29.9634	125°50.7343		90						
		0019	EN				48°29.9707	125°50.7419								
		0020	BE	Net		390	48°29.9833	125°50.6464		87						
		0042	BE	trawl		391	48°29.83	125°51.282								

Cast type:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Nov</i>				Year <i>2008</i>			Ship <i>R/V Kew</i>				Cruise ID <i>2008-15</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							
08	EP07	1407	BE	CTD		392	49° 08.2707	126° 58.9596	424						T = 11.15, S = 32.25
		1413	BO				49° 08.5668	126° 58.9154		250					
		1420	EN				49° 08.5394	126° 58.9773							
			BE	trawl		393	49°	126°							No Bongo
		1442	BE	trawl		394	49 08 28	126 58.83							
						393									
08	EP06	1529	BE	CTD		394	49° 10.6452	126° 54.2976	178						T = 10.82, S = 32.22
		1533	BO				49° 10.7319	126° 54.3826		165					
		1537	EN				49° 10.8774	126° 54.3446							
			BE	trawl											no bongo
		1551	BE	trawl		395	49 11.52	126 53.75							
08	EP05	1653	BE	CTD		396	49° 12.3775	126° 49.6790	140						T = 10.61, S = 32.23
		1657	BO				49° 12.4728	126° 49.6504		130					
		1701	EN				49° 12.5843	126° 49.6527							
			BE	trawl											no bony
		1714	BE	trawl		397	49 13.03	126 49.06							

Cast type:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Nov</i>				Year <i>2008</i>			Ship <i>Rickier</i>				Cruise ID <i>2008-15</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							
08	EP04	1806	BE	CTD		398	49 14.7334	125 45.0948	140						T = 9.68, S = 32.17
		1810	BO				49 14.7334	125 45.0948		130					CTDs in question
		1814	EN				49 14.8481	125 45.1731							seas rough, wind high
			BE	net		399									bottomed out
		18 27	BE	trawl		399	49 15.51	126 44.77							drifted into 115 m of water
08	IVI04	2308	BE	CTD		400	49° 35.8841	126° 35.7951	110						T = 10.33, S = 20.63
		2310	BO				49° 35.8660	126° 35.8037		100					
		2315	EN				49° 35.8492	126° 35.7944							
		2317	BE	net		401	49° 35.8412	126 35.7850		11					
		23 41	BE	trawl		402	49 36 65	126 35 92							
09	IVI05	0032	BE	CTD		403	49° 40.5952	126° 34.9297	173 → 163						
		0036	BO				49° 40.6001	126° 35.0042		157					
		0046	EN				49° 40.6301	126° 35.0259							
		0042	BE	NET		404	49° 40.6342	126° 35.0336							
		01 05	BE	trawl		405	49 40.685	126 34 46							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Nov</i>				Year <i>2008</i>			Ship <i>R. Baker</i>				Cruise ID <i>2008-15</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							
09	IVI06	1403	BE	CTD		406	49° 54.2110	126° 39.4545	134						T=10.32, S=25.89
		1406	BO				49° 54.2012	126° 39.4525		120					
		1410	EN				49° 54.2111	126° 46.601							
		1417	BE	NET		407	49° 54.1972	126° 39.4366		133					
		1439	BE	trawl		408	49 53 231	126 39.609							
09	IVI07	1527	BE	CTD		409	49° 51.1089	126° 39.6713	183						T=9.83, S=18.0
		1531	BO				49 51.1263	126° 39.6733		170					
		1535	EN				49° 51.1282	126° 39.6962							
		1538	BE	NET		410	49° 51.1907	126° 39.7144		150					
		1600	BE	trawl		411	49 50.382	126 39.72							
09	IVI08	1734	BE	CTD		412	49° 51.6541	126° 43.7370	244						T=10.21, S=25.41
		1738	BO				49° 51.6594	126° 44.7471		230					
		1743	EN				49° 51.6722	126° 44.7565							
		1746	BE	NET		413	49° 51.6752	126° 44.7587		150					
		1814	BE	trawl		414	49 52 119	126 45 72							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year				Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments	
							Latitude	Longitude								
09	IVI 09	1908	BE	CTD		415	49°56.6663	126°48.5523	175						T = 10.32, S = 23.96	
		1912	BO				49°56.6647	126°48.5030		160						
		1917	EN				49°56.6647	126°48.5256								
		1920	BE	Net		416	49°56.6321	126°48.5728		150						
		1940	BE	trawl		417	49°55.778	126°48.800								
09	IVI 10	2032	BE	CTD		418	49°52.3679	126°49.7034	220						T = 10.27, S = 26.90	
		2036	BO				49°52.3608	126°49.6925		200						
		2041	EN				49°52.3917	126°49.6666								
		2043	BE	NET		419	49°52.3925	126°49.6657		150						
		2106		trawl		420	49°52.154	126°50.617								
09	IVI 11	2220	BE	CTD		421	49°55.4754	126°55.7273	251						T = 10.42, S = 29.59	
		2223	BO				49°55.4768	126°55.7333		230						
		2229	EN				49°55.4894	126°55.7172								
		2231	BE	NET		422	49°55.4828	126°55.7031		150						
		2254	BE	trawl		423	49°54.806	126°55.652								

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Nov</i>				Year <i>2002</i>			Ship <i>R/V Albatross</i>				Cruise ID <i>2008-15</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							
09	IVI12	2339	BE	CTD		424	49°51.5845	126°55.0187	193						T = 10.19, S = 28.26
		2342	BO				49°51.5918	126°55.0328		180					bottle didn't
		2349	EN				49°51.5855	126°55.0005							trip - sampling back
		2351	BE	NET		425	49°51.5822	126°54.9805		150					for second try
10		0012	BE	TRAWL		426	49°51.305	126°55.760							
10	IVI13	1402	BE	CTD		427	49°38.2593	126°29.6284	139						T = 9.65, S = 13.3
		1405	BO				49°38.2659	126°29.6388		120					
		1408	EN				49°38.2701	126°29.6550							
		1415	BE	NET		428	49°38.2811	126°26.6618		130					
		1433	BE	trawl		429	49°38.702	126°28.871							
10	IVI14	1552	BE	CTD		430	49°38.4422	126°20.8219	280						T = 9.13, S = 8.35
		1557	BO				49°38.4390	126°20.8544		250					
		1603	EN				49°38.4359	126°20.8198							
		1605	BE	NET		431	49°38.4340	126°20.8386		150					
		1628	BE	trawl		432	49°39.01	126°19.201							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship					Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments	
							Latitude	Longitude								
11	IVI15	1414	BE	CTD		433	50° 28.2266	127° 57.3677	132						T = 9.77, S = 28.56	
		1418	BO				50° 28.2518	127° 57.4363		120						
		1421	EN				50° 28.2946	127° 57.4401								
		1425	BE	NET		434	50° 28.2184	127° 57.3765		121						
		1448	BE	trawl		435	50 28.417	127 56.00								
11	IVI16	1537	BE	CTD		436	50° 29.1608	127° 50.9447	147						T = 9.55, S = 26.76	
		1540	BO				50° 29.1264	127° 50.9649		130						
		1544	EN				50° 29.1309	127° 50.9730								
		1547	BE	NET		437	50° 29.1399	127° 50.9742		138						
		1607	BE	trawl		438	50 28.888	127 50.033								
11	IVI17	1655	BE	CTD		439	50° 29.1877	127° 45.4132	98						T = 9.64, S = 27.28	
		1657	BO				50° 29.1789	127° 45.4010		90						
		1700	EN				50° 29.1757	127° 45.3961								
		1702	BE	Net		440	50° 29.1740	127° 45.4106		88						
		1722	BE	trawl		441	50 29 17	127 44.47								

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