

DAILY LOG BOOK

MISSION
NUMBER

2006 - 31

DATE:

From: NOV 7/06 to: DEC 5/06

VESSEL:

W. E. RICHER

PROJECT:

Hi SEAS SALMON. TRUDER

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

Captain: STU ELARIDGE First Officer: DARRYL MINTAKO
Second Officer: ZIABY CHMARA Third Officer: LES HAHN

Mission Participants / Agencies: PBS / 105

Scientific Personnel: _____ Party Chief: JOHN MORRIS / MAC TRUDGEL (10 DAY)

[illegible][illegible]

Data logging computer:

Data acquisition program: SCASAVE WIN 32
CTD deck unit make: SCABIRD model: 11 + serial number: 11818377-0471

Primary CTD

Make: SCAB/D model: 911 serial number: 0506

Primary temperature serial number: 4434

Primary conductivity serial number: **2280**

Secondary temperature serial number: 2716

Secondary conductivity serial number: 1764

Transmissometer:	Model:	s/n:	
Fluorometer: Model	Cable gain:	s/n:	2229
Oxygen sensor:	Model:	s/n:	
PAR sensor:	Model:	s/n:	
Other sensors:		s/n:	
Other sensors:		s/n:	
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:	s/n:	
Fluorometer: Model	Cable gain:	s/n:	
Oxygen sensor:	Model:	s/n:	P, S or NO pump?
PAR sensor:	Model:	s/n:	P, S or NO pump?
Other sensors:		s/n:	P, S or NO pump?
Other sensors:		s/n:	P, S or NO pump?
Other sensors:		s/n:	P, S or NO pump?
Other sensors:		s/n:	P, S or NO pump?

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

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Month			Year			Ship			Cruise ID						
NOVEMBER			2006			W.E. RICKER			2006-31						
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							
8	IF-1	1653	BE	CTD		001	48 17 87	123 39 82	156			1	H.M.		BOT @ 10m - SAL/CAL/HUTS
		1656	BO				48 17 87	123 39 98		150					T: 8.72 S: 32.53
		1700	EN				48 17 82	123 40.06							
		1704	BE	NET		002	48 17 77	123 40 13		145					BONGO
		1727	BE	TRAWL		003	48 17.95	123 41.96			SURFACE	Tow.			TRAWL
8	IF-2	1826	BE	CTD		004	48 19 94	123 49 92	149			1	H.M.		BOT @ 10m - SAL/CAL/HUTS
		1829	BO				48 19 98	123 49 96		140					T: 9.07 S: 32.07
		1833	GM				48 20.00	123 50.02							
		1838	BE	NET		005	48 20.05	123 50.04		131					BONGO
		1858	BE	TRAWL		006	48 20.499	123 51.730			SURFACE	Tow.			TRAWL
8	IF-3	2017	BE	CTD		007	48 23 26	124 03.89	75			1	H.M.		BOT @ 10m - SAL/CAL/HUTS
		2019	BO				48 23 26	124 03.94		70					T: 8.96 S: 32.11
		2021	GM				48 23 26	124 03.96							
		2026	BE	NET		008	48 27.27	124 03.99	85	75					BONGO
		2116	BE	TRAWL		009	48 23.542	124 05.556							TRAWL

Cast type:

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

USW = sea water loop

MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

US = up/stop
UN = up/no stop
DN = down/no stop

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Month NOVEMBER				Year 2006				Ship W.E. Richter				Cruise ID 2006-31			
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	1V1 2	1826	BE	CTD		019	48° 54. 54	125° 08. 39	77			1	H.M.		T: 9.55 S: 28.52
		1827	BO				48° 54. 55	125° 08. 39		70					BOT@ 10m - SAL/CAL/NUTS
		1829	EN				48° 54. 56	125° 08. 38							
		1833	BE	NET		020	48° 54. 56	125° 08. 37		60					BONGO
		1852	BE	TRAWL		021	48 53. 977	125 09. 038		SURFACE Tow					TRAWL
9	1V1 3	2003	BE	CTD		022	48° 52. 01	125° 11. 36	70			1			T: 9.49 S: 30.59
		2005	BO				48° 52. 01	125° 11. 36		60					BOT@ 10m - SAL/CAL/NUTS
		2007	EN				48° 52. 01	125° 11. 38							
		2009	BE	NET		023	48° 52. 01	125° 11. 40		55					BONGO
		2027	BE	TRAWL		024	48 51. 531	125 12. 493		SURFACE Tow					TRAWL
9	VI 01	2129	BE	CTD		025	48° 48. 26	125° 14. 43	40			1			T: 9.70 S: 31.11
		2130	BO				48° 48. 26	125° 14. 45		30					BOT@ 10m - SAL/CAL/NUTS
		2131	EN				48° 48. 27	125° 14. 48							
		2136	BE	NET		026	48° 48. 30	125° 14. 52		30					BONGO
		2153	BE	TRAWL		027	48 48 061	125 16. 044		SURFACE Tow					TRAWL

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Month				Year			Ship			Cruise ID					
NOVEMBER				2006			W-E. RICKER			2006-31					
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	VI 02	2252	BE	CTD		028	48° 46.86	125° 23.83	97			1	H.M.		T: 9.94 S: 32.12
		2254	BO				48° 46.88	125° 23.82		85					BOTE 10m - SAL/CHL/HUTS
		2256	CH				48° 46.92	125° 23.81							
		2259	BE	NET		029	48° 46.93	125° 23.80							BONGO
		2318	BE	TRAWL		030	48 46 784	125 25.371			SURFACE TOW.				TRAWL
10	VI 03	0023	BE	CTD		031	48° 43.43	125° 31.08	127			1			T: 9.96 S: 32.38
		0025	BO				48° 43.46	125° 31.06		120					BOTE 10m - SAL/CHL/HUTS
		0028	CH				48° 43.47	125° 31.07							
		0032	BE	NET		032	48° 43.48	125° 31.11		115					BONGO
		0055	BE	TRAWL		033	48 42 816	125 33 683			SURFACE TOW.				TRAWL
10	VI 4	1502	BE	CTD		034	49° 35.37	126° 34.72	56			1			T: 9.68 S: 30.41
		1503	BO				49° 35.38	126° 34.75		50					BOTE 10m - SAL/CHL/HUTS
		1505	CH				49° 35.37	126° 34.78							
	VI 4	1510	BE	NET		035	49° 35.43	126° 34.88		50					BONGO
	VI 04	1528	BE	TRAWL		036	49 34 504	126 35 876			SURFACE TOW.				TRAWL

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* STA 1V1 4 - TRAWL SAMPLES (FISH) LABELED V104
- CTD/BONGO SAMPLES LABELED 1V1 04

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
10	VI 04	1632	BE	CTD		037	49° 30.29	126° 41.15	45			1	H.M.		T: 9.42 S: 31.26
		1633	BO				49° 30.29	126° 41.17		40					BOT @ 10m - SAL/CAL/HUTS
		1635	CH				49° 30.30	126° 41.19							
	VI 04	1638	BE	NET		038	49° 30.31	126° 41.24		30					BONGO
	VI 05	1657	BE	TRAWL		039	49 29.91	126 41.32		SURFACE TOW					TRAWL
10	EP 05		BE	CTD			CANCELLED					1			T: S:
			BO												BOT @ 10m - SAL/CAL/HUTS
			CH												
			BE	NET			CANCELLED								BONGO
		20:39	BE	TRAWL		040	15 A 30! 49° 13.372	126 49.398		Tow AT 15-20 DUE TO 3-4m SURGE					TRAWL
11	VI 06	15:33	BE	TRAWL		041	49 04.529	126 00.870		Tow AT 10-15m DUE TO 3-4m SURGE					
11	VI 07	1638	BE	CTD		042	49° 03.15	126° 07.66	60			1			T: 9.50 S: 32.60
		1640	BO				49° 03.15	126° 07.68		53					BOT @ 10m - SAL/CAL/HUTS
		1641	CH				49° 03.16	126° 07.68							NO BONGO
		1653	BE	TRAWL		043	49 02.914	126 08.579		Tow AT 15-20m DUE TO 3-4m SURGE					TRAWL

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STATION V104

WAS CALLED V105 FOR TRAWL TOW - ALL FISH SAMPLES LABELED V105

- ALL CTD / BONGO SAMPLES LABELED V104

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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	VI 08	1759	BG	CTD		044	49° 01. 41	126° 14. 92	94			1	H.M.		T: 9.40 S: 32.62
		1801	BO				49° 01. 44	126° 14. 93		85					BOT @ 10m - SAL/CHL/MUTS
		1803	CH				49° 01. 48	126° 14. 93							NO BONGO
		1815	BE	TRAWL		045	49° 01. 412	126° 15. 780	Tow AT 20m	DOE TO 34m	SMALL				TRAWL
11	VI 09	1919	BG	CTD		046	48° 59. 27	126° 20. 93	133			1			T: 10.83 S: 32.34
		1922	BO				48° 59. 25	126° 20. 92		125					BOT @ 10m - SAL/CHL/MUTS
		1924	CH				48° 59. 25	126° 20. 90							NO BONGO
		1935	BG	TRAWL		047	48° 59. 00	126° 21. 623	Tow AT 20m	DOE TO 34m	SMALL				TRAWL
11	VI 10	2039	BG	CTD		048	48° 56. 52	126° 28. 10	154			1			T: 10.99 S: 32.27
		2042	BO				48° 56. 50	126° 28. 12		145					BOT @ 10m - SAL/CHL/MUTS
		2045	CH				48° 56. 48	126° 28. 14							NO BONGO
		2055	BG	TRAWL		049	48° 56. 338	126° 28. 811	Tow AT 20m	DOE TO 34m	SMALL				TRAWL
11	VI 11	2200	BG	CTD		050	48° 57. 52	126° 33. 78	485			1			T: 11.09 S: 32.28
		2205	BO				48° 57. 52	126° 33. 76		250 (265)					BOT @ 10m - SAL/CHL/MUTS
		2210	CH				48° 57. 53	126° 33. 73							
		2216	BG	NET		051	48° 57. 50	126° 33. 78		150					BONGO

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Month <i>NOVEMBER</i>				Year <i>2006</i>			Ship <i>W. E. RICKER</i>				Cruise ID <i>2006-31</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
<i>11</i>	<i>VI 11</i>	<i>2238</i>	<i>BE</i>	<i>TRAWL</i>		<i>052</i>	<i>48° 57.631</i>	<i>126° 32.871</i>	<i>TOW AT 15m</i>		<i>DOE TO 3-4m SWELL</i>		<i>H.M.</i>		<i>TRAWL</i>
<i>11</i>	<i>VI 12</i>	<i>2341</i>	<i>BE</i>	<i>CTD</i>		<i>053</i>	<i>49° 00.64</i>	<i>126° 30.43</i>	<i>150</i>			<i>1</i>			<i>T: 10.84 S: 32.30</i>
		<i>2344</i>	<i>BO</i>				<i>49° 00.67</i>	<i>126° 30.45</i>		<i>145</i>					<i>BOT@ 10m - SAL/CAL/NTS</i>
		<i>2347</i>	<i>EN</i>				<i>49° 00.68</i>	<i>126° 30.44</i>							
<i>12</i>	<i>VI 05</i>	<i>1559</i>	<i>BE</i>	<i>CTD</i>		<i>054</i>	<i>49° 40.20</i>	<i>126° 06.80</i>	<i>285</i>			<i>1</i>			<i>T: 10.03 S: 29.24</i>
		<i>1603</i>	<i>BO</i>				<i>49° 40.20</i>	<i>126° 06.81</i>		<i>250</i>					<i>BOT@ 10m - SAL/CAL/NTS</i>
		<i>1609</i>	<i>EN</i>				<i>49° 40.22</i>	<i>126° 06.83</i>							
		<i>1613</i>	<i>BE</i>	<i>NET</i>		<i>055</i>	<i>49° 40.22</i>	<i>126° 06.84</i>		<i>150</i>					<i>BONGO</i>
		<i>1634</i>	<i>BE</i>	<i>TRAWL</i>		<i>056</i>	<i>49 40.155</i>	<i>126 08.190</i>			<i>SURFACE</i>	<i>TOW</i>			<i>TRAWL</i>
<i>12</i>	<i>VI 06</i>	<i>1731</i>	<i>BE</i>	<i>CTD</i>		<i>057</i>	<i>49° 39.01</i>	<i>126° 14.48</i>	<i>356</i>			<i>1</i>			<i>T: 9.92 S: 30.45</i>
		<i>1736</i>	<i>BO</i>				<i>49° 39.01</i>	<i>126° 14.56</i>		<i>250</i>					<i>BOT@ 10m - SAL/CAL/NTS</i>
		<i>1741</i>	<i>EN</i>				<i>49° 39.02</i>	<i>126° 14.65</i>							
		<i>1748</i>	<i>BE</i>	<i>NET</i>		<i>058</i>	<i>49° 39.02</i>	<i>126° 14.48</i>		<i>150</i>					<i>BONGO</i>
		<i>1810</i>	<i>BE</i>	<i>TRAWL</i>		<i>059</i>	<i>49 38.809</i>	<i>126 15.675</i>			<i>SURFACE</i>	<i>TOW</i>			<i>TRAWL</i>

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							Latitude	Longitude								
12	101 07	1933	BE	CTD		060	49° 38.91	126° 29.02	249			1	H.M.		T: 9.70 S: 28.90	
		1938	BO				49° 38.91	126° 29.06		240					BOT@10m - SAL/CHL/NOTS	
		1943	EN				49° 38.92	126° 29.09								
		1948	BE	NET		061	49° 38.85	126° 29.03							BONGO	
		2018	BE	TRAWL		062	49 38 219	126 29.576			SURFACE TOW				TRAWL	
12	101 08	2120	BE	CTD		063	49° 36.41	126° 35.87	123			1			T: 9.40 S: 29.47	
		2123	BO				49° 36.39	126° 35.87		110					BOT@10m - SAL/CHL/NOTS	
		2125	EN				49° 36.39	126° 35.88								
		2128	BE	NET		064	49° 36.39	126° 35.89		105					BONGO	
		2146	BE	TRAWL		065	49 37.090	126 35 937			SURFACE TOW				TRAWL	
12	101 09	2246	BE	CTD		066	49° 40.58	126° 34.06	175			1			T: 9.72 S: 28.39	
		2250	BO				49° 40.57	126° 34.07		170					BOT@10m - SAL/CHL/NOTS	
		2254	EN				49° 40.55	126° 34.08								
		2256	BE	NET		067	49° 40.54	126° 34.07		150					BONGO	
		2315	BE	TRAWL		068	49 40 920	126 33 097			SURFACE TOW				TRAWL	

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							Latitude	Longitude							
13	1V1 10	0012	BC	CTD	1 st	069	49° 42.84	126° 29.18	185			1	H.M.		T: 10.18 S: 29.67
		0015	BO				49° 42.84	126° 29.20		180					BOT @ 10m - SAL/CHL/NUIS
		0019	GH				49° 42.83	126° 29.22							
		0205	BC	NET	3 rd	070	49° 42.95	126° 29.26		85					BONGO
		0050	BC	TRAWL	2 nd	071	49 43.154	126 28.666			SURFACE	Tow.			TRAWL
13	1V1 11	1504	BC	CTD		072	49° 47.76	126° 39.17	120			1			T: 9.83 S: 29.23
		1506	BO				49° 47.76	126° 39.18		110					BOT @ 10m - SAL/CHL/NUIS
		1509	GH				49° 47.76	126° 39.18							
		1512	BC	NET		073	49° 47.78	126° 39.16		100					BONGO
		1534	BC	TRAWL		074	49 47.180	126 39.088			SURFACE	Tow.			TRAWL
13	1V1 12	1643	BC	CTD		075	49° 54.26	126° 39.49	119			1			T: 10.02 S: 27.52
		1645	BO				49° 54.26	126° 39.50		110					BOT @ 10m - SAL/CHL/NUIS
		1648	GH				49° 54.25	126° 39.52							
		1652	BC	NET		076	49° 54.22	126° 39.54							BONGO
		1711	BC	TRAWL		077	49 53.772	126 39.547		100	SURFACE	Tow.			TRAWL

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 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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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>NOVEMBER</u>				Year <u>2006</u>			Ship <u>W. E. RICKER</u>				Cruise ID <u>2006-31</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							
13	101 13	1832	BE	CTD		078	49° 51.12	126° 43.99	120			1	H. r.		T: 9.90 S: 29.98
		1834	BO				49° 51.12	126° 44.00		105					BOT@10m - SAL/CHL/NTS
		1837	CH				49° 51.13	126° 44.00							
		1839	BE	NET		079	49° 51.15	126° 43.98		110					BONGO
		1858	BE	TRAWL		080	49 51 715	126 44 .575			SURFACE	Tow.			TRAWL
13	101 14	2007	BE	CTD		081	49° 56.93	126° 48.70	130			1			T: 9.91 S: 28.93
		2010	BO				49° 56.93	126° 48.69		120					BOT@10m - SAL/CHL/NTS
		2014	CH				49° 56.93	126° 48.67							
		2017	BE	NET		082	49° 56.93	126° 48.66		115					BONGO
		2034	BE	TRAWL		083	49 56 284	126 48 .338			SURFACE	Tow.			TRAWL
13	101 15	2126	BE	CTD		084	49° 52.54	126° 49.03	228			1			T: 9.65 S: 29.71
		2130	BO				49° 52.52	126° 49.09		215					BOT@10m - SAL/CHL/NTS
		2134	CH				49° 52.52	126° 49.05							
		2137	BE	NET		085	49° 52.51	126° 49.06		150					BONGO
		2156	BE	TRAWL		086	49 52 .271	126 50 .164			SURFACE	Tow.			TRAWL

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Month NOVEMBER				Year 2006			Ship W.E. RICKER				Cruise ID 2006-31				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13	1V1 16	2325	BE	CTD		087	49° 58.63	126° 56.12	135			1	H.M.		T: 10.21 S: 29.01
		2328	BO				49° 58.63	126° 56.11		125					BOT @ 10m - SAL/CAL/NTS
		2331	CH				49° 58.62	126° 56.10							
		2334	BE	NET		088	49° 58.63	126° 56.09		120					BONGO
		2351	BE	TRAWL		089	49 57 886	126 52 181			SURFACE	Tow			TRAWL
14	1V1 17	1508	BE	CTD		090	50° 00.74	127° 09.72	90			1			T: 9.33 S: 29.75
		1510	BO				50° 00.71	127° 09.73		80					BOT @ 10m - SAL/CAL/NTS
		1512	CH				50° 00.70	127° 09.73							
		1515	BE	NET		091	50° 00.70	127° 09.72		80					BONGO
		1534	BE	TRAWL		092	50 00.444	127 10.710			SURFACE	Tow			TRAWL
14	1V1 18	1621	BE	CTD		093	49° 59.01	127° 14.77	144			1			T: 9.39 S: 29.47
		1624	BO				49° 58.98	127° 14.73		135					BOT @ 10m - SAL/CAL/NTS
		1628	CH				49° 58.96	127° 14.71							
		1631	BE	NET		094	49° 58.92	127° 14.78		125					BONGO
		1650	BE	TRAWL		095	49 59 310	127 13.980			Tow AT ROM.				TRAWL

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Ocean Sciences and Productivity Division															Cruise ID 2006-31	
Month November				Year 2006			Ship W.C. RICKER									
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	101 19	1805	BE	CTD		096	50° 02. 24	127° 14. 82	280			1	H.M.		T: 9.60 S: 27.45	
		1810	BO				50° 02. 21	127° 14. 83		250					BOT@ 10m - SAL/CHL/NUTS	
		1815	EN				50° 02. 19	127° 14. 88								
		1818	BE	NET		097	50° 02. 19	127° 14. 89		150					BONGO	
		1839	BE	TRAWL		098	50 02 953	127 15. 176			SURFACE TOW				TRAWL	
14	101 20	1929	BE	CTD		099	50° 05. 92	127° 15. 03	125			1			T: 9.60 S: 29.34	
		1931	BO				50° 05. 93	127° 15. 03		115					BOT@ 10m - SAL/CHL/NUTS	
		1934	EN				50° 05. 94	127° 15. 00								
		1959	BE	NET		100	50° 05. 99	127° 15. 05		110					BONGO	
		2014	BE	TRAWL		101	50 05. 348	127 15. 102		Tow AT 20m					TRAWL	
14	101 21	2116	BE	CTD		102	50° 03. 60	127° 12. 99	190			1			T: 9.73 S: 29.37	
		2120	BO				50° 03. 60	127° 12. 99		180					BOT@ 10m - SAL/CHL/NUTS	
		2123	EN				50° 03. 61	127° 13. 01								
		2126	BE	NET		103	50° 03. 61	127° 13. 02		150					BONGO	
		2144	BE	TRAWL		104	50 04. 119	127 11. 994		SURFACE TOW.					TRAWL	

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month NOVEMBER				Year 2006				Ship W. E. RICKER				Cruise ID 2006-31			
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	101 22	2232	BC	CTD		105	50° 05. 93	127° 08. 07	162			1	H.M		T: 9.81 S: 28.05
		2235	BO				50° 05. 91	127° 08. 06		150					BOT@10m - SAL/CHL/NUTS
		2238	EN				50° 05. 92	127° 08. 06							
		2241	BC	NET		106	50° 05. 93	127° 08. 02							BONGO
		2258	BC	TRAWL		107	50 05.530	127 08.860		Tow at 26m					TRAWL
14															
15	101 23	2348	BC	CTD		108	50° 28. 19	127° 56. 77	190			1			T: 8.90 S: 28.97
		2352	BO				50° 28. 18	127° 56. 77		180					BOT@10m - SAL/CHL/NUTS
		2355	EN				50° 28. 20	127° 56. 76							
16		0002	BC	NET		109	50° 28. 17	127° 56. 73		150					BONGO
		0021	BC	TRAWL		110	50 28 158	127 55 861		SURFACE TOW					TRAWL
16															
16	101 24	1521	BC	CTD		111	50° 23. 72	127° 28. 99	106			1			T: 9.04 S: 28.44
		1523	BO				50° 23. 72	127° 28. 96		95					BOT@10m - SAL/CHL/NUTS
		1525	EN				50° 23. 72	127° 28. 93							
		1528	BC	NET		112	50° 23 72	127° 28 90		90					BONGO
		1558	BC	TRAWL		113	50 24 348	127 29 535		SURFACE TOW					TRAWL

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

DALEY LOG															
Month NOVEMBER				Year 2006				Ship W. E. RICKER				Cruise ID 2006-31			
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	1V1 25	1646	BC	CTD		114	50° 27.01	127° 31.53	191			1	H.M.		T: 8.48 S: 25.62
		1650	BO				50° 27.03	127° 31.49		180					BOTE 10m - SAL/CHL/NUTS
		1654	EN				50° 27.05	127° 31.46							
		1658	BC	NET		115	50° 27.08	127° 31.40		150					BONGO
		1718	BC	TRAWL		116	50 27 675	127 32.241		SURFACE TOW					TRAWL
16	1V1 26	1954	BC	CTD		117	50° 36.13	127° 46.16	60			1			T: 7.40 S: 16.98
		1955	BO				50° 36.14	127° 46.17		50					BOTE 10m - SAL/CHL/NUTS
		1957	EN				50° 36.14	127° 46.18							
		2000	BC	NET		118	50° 36.16	127° 46.21		50					BONGO
		2016	BC	TRAWL		119	50 35 921	127 45.390		SURFACE TOW					TRAWL
16	1V1 27	2102	BC	CTD		120	50° 35.35	127° 41.07	108			1			T: 8.44 S: 22.25
		2104	BO				50° 35.34	127° 41.06		100					BOTE 10m - SAL/CHL/NUTS
		2106	EN				50° 35.34	127° 41.05							
		2109	BC	NET		121	50° 35.33	127° 41.05		90					BONGO
		2125	BC	TRAWL		122	50 35 321	127 39.897		SURFACE TOW					TRAWL

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>NOVEMBER</u>				Year <u>2006</u>			Ship <u>W. E. RICKER</u>			Cruise ID <u>2006-31</u>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
16	101 28	2219	BE	CTD		123	50° 33.90	127° 33.49	124			1	H.M.		T: 9.00 S: 26.84
		2222	BO				50° 33.80	127° 33.49		115					BOT@10m. SAL/CHL/NUTS
		2224	EN				50° 33.79	127° 33.51							
		2227	BE	NET		124	50° 33.78	127° 33.53		110					BONGO
		2245	BE	TRAWL		125	50 34 051	127 32.57			SURFACE TOW.				TRAWL
16	101 29	2334	BE	CTD		126	50° 35.15	127° 26.66	58			1			T: 9.10 S: 28.10
		2335	BO				50° 35.17	127° 26.64		50					BOT@10m. SAL/CHL/NUTS
		2337	EN				50° 35.18	127° 26.64							
		2342	BE	NET		127	50° 35.20	127° 26.57		45					BONGO
		2356	BE	TRAWL		128	50 34.957	127 27.701		TOW AT 30m					TRAWL
2006-11-29															
17	101 30	1903	BE	CTD		129	50° 31.66	127° 37.57	76			1			T: 8.32 S: 25.71
		1904	BO				50° 31.67	127° 37.54		70					BOT@10m. SAL/CHL/NUTS
		1906	EN				50° 31.68	127° 37.52							
		1911	BE	NET		130	50° 31.67	127° 37.53		65					BONGO
		2003	BE	TRAWL		131	50 30 630	127 41.664		SURFACE TOW					TRAWL

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Month NOVEMBER			Year 2006				Ship W. E. RICHER				Cruise ID 2006-31				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
17	1V1 31	2105	BC	CTD		132	50° 30.63	127° 41.64	125			1	H.M.		T: 9.20 S: 28.47
		2108	BO				50° 30.63	127° 41.65		115					BOT@10m - SAL/CHL/NOTS
		2110	GM				50° 30.62	127° 41.66							
		2113	BC	NET		133	50° 30.62	127° 41.67		110					BONGO
		2130	BC	TRAWL		134	50° 30.323	127° 42.696			SURFACE TOW				TRAWL
17	1V1 32	2216	BC	CTD		135	50° 29.18	127° 47.09	140			1			T: 8.40 S: 26.40
		2219	BO				50° 29.16	127° 47.10		130					BOT@10m - SAL/CHL/NOTS
		2222	GM				50° 29.14	127° 47.11							
		2225	BC	NET		136	50° 29.08	127° 47.11		125					BONGO
		2244	BC	TRAWL		137	50° 28.707	127° 47.469			SURFACE TOW				TRAWL
20	H 01	1600	BC	CTD		138	52° 12.23	129° 10.40	159			1			T: 8.76 S: 32.23
		1603	BO				52° 12.27	129° 10.42		150					BOT@10m - SAL/CHL/NOTS
		1607	GM				52° 12.29	129° 10.44							NO SAL →
		1611	BC	NET		139	52° 12.33	129° 10.43		130					BONGO
		1635	BC	TRAWL		140	52° 12.7	129° 12.347			SURFACE TOW				TRAWL

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ROUGH SCAS - SAMPLE SPILLED NO RINSE ON NUTS - VOLUME OF CAL ABOUT 300mls - NO SALINITY SAMPLE

DAILY LOG

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Month NOVEMBER				Year 2006			Ship W.G. RICKER				Cruise ID 2006-31				
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	H 02	1759	BE	CTD		141	52° 15.72	129° 26.50	182			1	H.M.		T: 8.63 S: 32.32
		1803	BO				52° 15.72	129° 26.58		170					BOT@10m - SAL/CUL/NOTS
		1807	GH				52° 15.72	129° 26.74							
		1813	BE	NET		142	52° 15.76	129° 26.94		150					BONGO
		1838	BE	TRAWL		143	52 15.456	129 28.59			SURFACE TOW				TRAWL
20	H 03	2007	BE	CTD		144	52° 18.88	129° 42.00	204			1			T: 8.72 S: 32.24
		2010	BO				52° 18.89	129° 42.04		190					BOT@10m - SAL/CUL/NOTS
		2016	GH				52° 18.95	129° 42.09							
		2020	BE	NET		145	52° 18.98	129° 42.12							BONGO
		2040	BE	TRAWL		146	52 18.98	129 43 381			SURFACE TOW				TRAWL
20	H 04	2218	BE	CTD		147	52° 22.30	129° 57.59	200			1			T: 8.63 S: 32.36
		2222	BO				52° 22.30	129° 57.59		190					BOT@10m - SAL/CUL/NOTS
		2226	GH				52° 22.29	129° 57.60							
		2229	BE	NET		148	52° 22.31	129° 57.58							BONGO
		2249	BE	TRAWL		149	52 22 442	129° 58 524			SURFACE TOW				TRAWL

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Month NOVEMBER				Year 2006			Ship W.E. RICKER				Cruise ID 2006-31				
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	H 05	0025	BE	CTD		150	52° 25.90	130° 13.42	314			1	H.M.		T: 8.66 S: 32.31
		0030	BO				52° 25.85	130° 13.46		250					BOT@10m - SAL/CHL/NUIS
		0035	EN				52° 25.80	130° 13.51							
		0039	BE	NET		151	52° 25.76	130° 13.53		150					BONGO
		0112	BE	TRAWL		152	52 25.699	130° 15 21.7		SURFACE TOW					TRAWL
21	IBC 01	1543	BE	CTD		153	54° 38.55	130° 30.73	187			1			T: 7.73 S: 31.15
		1547	BO				54° 38.56	130° 30.70		175					BOT@10m - SAL/CHL/NUIS
		1551	EN				54° 38.59	130° 30.67							
		1555	BE	NET		154	54° 38.61	130° 30.64		150					BONGO
		1615	BE	TRAWL		155	54 39.258	130 29.738		SURFACE TOW					TRAWL
21	IBC 02	1741	BE	CTD		156	54° 44.99	130° 21.77	415			1			T: 6.68 S: 30.09
		1745	BO				54° 45.03	130° 21.76		250					BOT@10m - SAL/CHL/NUIS
		1751	EN				54° 45.05	130° 21.82							
		1754	BE	NET		157	54° 45.06	130° 21.86							BONGO
		1813	BE	TRAWL		158	54 45.695	130 21.061		SURFACE TOW					TRAWL

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INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
21	1BC03	1917	BC	CTD		159	54° 49.29	130° 14.72	465			1	H.M.		T: 6.42 S: 29.79
		1922	BO				54° 49.31	130° 14.69		250					BOT@10m - SAL/CHL/NOTS
		1927	CM				54° 49.33	130° 14.65							
		1930	BC	NET		160	54° 49.34	130° 14.64							BONGO
		1950	BC	TRAWL		161	54 49.946	130 13.938		SURFACE TOW					TRAWL
21	1BC 04	2125	BC	CTD		162	54° 57.96	130° 04.44	275			1			T: 7.21 S: 30.55
		2130	BO				54° 57.99	130° 04.47		250					BOT@10m - SAL/CHL/NOTS
		2135	CM				54° 57.99	130° 04.53							
		2138	BC	NET		163	54° 57.93	130° 04.55		150					BONGO
		2156	BC	TRAWL		164	54 58 400	130 03.710		SURFACE TOW					TRAWL
21	1BC 05	2310	BC	CTD		165	55° 04.20	129° 59.61	208			1			T: 6.98 S: 30.01
		2313	BO				55° 04.18	129° 59.62		195					BOT@10m - SAL/CHL/NOTS
		2319	CM				55° 04.16	129° 59.67							
		2322	BC	NET		166	55° 04.15	129° 59.70							BONGO
		2341	BC	TRAWL		167	55 04.738	129 58 962		SURFACE TOW					TRAWL

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MOR = mooring
 NET = net haul
 DRF = drifter

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month NOVEMBER				Year 2006				Ship W. E. RICKER				Cruise ID 2006-31			
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	1BC 06	0157	BC	CTD	2ND	168	55° 10.75	129° 52.84	512			1	H.M.		T: 6.26 S: 30.17
		0202	BO				55° 10.75	129° 52.83		250					BOT@10m - SAL/CAL/NUTS
		0206	EN				55° 10.72	129° 52.86							
		0210	BC	NET	3RD	169	55° 10.71	129° 52.90							BONGO
		0244	BC	TRAWL	1ST	170	55 08.602	129 54 602							TRAWL
22 1SEA 01 1503 BC CTD 171 55° 18.90 130° 55.14 452 1 T: 6.15 S: 28.48															
22	1SEA 01	1503	BC	CTD		171	55° 18.90	130° 55.14	452			1			T: 6.15 S: 28.48
		1508	BO				55° 18.78	130° 55.19		250					BOT@10m - SAL/CAL/NUTS
		1513	EN				55° 18.72	130° 55.26							
		1516	BC	NET		172	55° 18.71	130° 55.27		150					BONGO
		1545	BC	TRAWL		173	55 19.287	130 54.994			SURFACE TOW				TRAWL
22	1SEA 02	1701	BC	CTD		174	55° 25.32	130° 56.48	305			1			T: 6.98 S: 29.11
		1705	BO				55° 25.36	130° 56.48		250					BOT@10m - SAL/CAL/NUTS
		1710	EN				55° 25.38	130° 56.50							
		1713	BC	NET		175	55° 25.38	130° 56.50							NET
		1738	BC	TRAWL		176	55 26 129	130 56 812			SURFACE TOW				TRAWL

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>NOVEMBER</u>			Year <u>2006</u>				Ship <u>W.E. RICKER</u>				Cruise ID <u>2006-31</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	15CA 03	1852	BE	CTD		177	55° 32.53	130° 55.25	286			1	H.M.		T: 5.75 S: 28.09
		1856	BO				55° 32.57	130° 55.25		250					BOT@10m - SAL/CAL/NUTS
		1901	EN				55° 32.63	130° 55.26							
		1904	BE	NET		178	55° 32.66	130° 55.27		150					BONGO
		1924	BE	TRAWL		179	55 33 35S	130 54 916			SURFACE	TOW			TRAWL
22	15CA 04	2039	BE	CTD		180	55° 39.82	130° 55.59	529			1			T: 5.87 S: 28.28
		2044	BO				55° 39.78	130° 55.61		250					BOT@10m - SAL/CAL/NUTS
		2048	EN				55° 39.75	130° 55.62							
		2051	BE	NET		181	55° 39.71	130° 55.63		150					BONGO
		2109	BE	TRAWL		182	55 40 272	130 55 978			SURFACE	TOW			TRAWL
22	15EA 05	2227	BE	CTD		183	55° 46.68	131° 00.66	399			1			T: 5.88 S: 28.43
		2231	BO				55° 46.61	131° 00.64		250					BOT@10m - SAL/CAL/NUTS
		2236	EN				55° 46.61	131° 00.66							
		2236	BE	NET		184	55° 46.59	131° 00.66		150					BONGO
		2251	BE	TRAWL		185	55 46 983	131 00 891			SURFACE	TOW			TRAWL

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month NOVEMBER				Year 2006			Ship W.E.R. CHER				Cruise ID 2006-31				
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	1SEA 06	2356	BE	CTD		186	55° 50.84	131° 04.22	526			1	H.M.		T: 5.99 S: 28.60
23		0001	BO				55° 50.85	131° 04.22		250					BOT@10m- SAL/CHL/NUTS
		0006	EN				55° 50.84	131° 04.22							
		0008	BE	NET		187	55° 50.83	131° 04.20		150					BONGO
		0026	BE	TRAWL		188	55 51.245	131 04 704			SURFACE	TOW			TRAWL
23															
23	Fi 01	1502	BE	CTD		189	54° 47.58	133° 03.17	124			1			T: 7.39 S: 31.39
		1504	BO				54° 47.63	133° 03.19		115					BOT@10m- SAL/CHL/NUTS
		1507	EN				54° 47.66	133° 03.19							
		1510	BE	NET		190	54° 47.73	133° 03.14		100					BONGO
		1528	BE	TRAWL		191	54 47.657	133 04.363			SURFACE	TOW			TRAWL
23	Fi 02	1622	BE	CTD		192	54° 46.55	133° 11.07	200			1			T: 7.45 S: 31.72
		1626	BO				54° 46.61	133° 11.16		190					BOT@10m- SAL/CHL/NUTS
		1629	EN				54° 46.65	133° 11.26							
		1632	BE	NET		193	54° 46.69	133° 11.35		150					BONGO
		1653	BE	TRAWL		194	54 46.715	133 13.119			SURFACE	TOW			TRAWL

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Month NOVEMBER			Year 2006				Ship W.E. RICHER				Cruise ID 2006-31				
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	Fi 03	1742	BG	CTD		195	54° 45.83	133° 18.85	111			1	H.M.		T: 7.01 S: 31.94
		1744	BO				54° 45.86	133° 18.83		100					BOT@10m - SAL/CHL/NUTS
		1747	EN				54° 45.86	133° 18.87							
		1750	BG	NET		196	54° 45.85	133° 18.91		90					BONGO
		1808	BG	TRAWL		197	54 45.856	133 20.324			SURFACE TOW				TRAWL
23	Fi 04	1900	BG	CTD		198	54° 45.18	133° 26.38	143			1			T: 7.57 S: 31.75
		1903	BO				54° 45.19	133° 26.41		130					BOT@10m - SAL/CHL/NUTS
		1906	EN				54° 45.21	133 26.44							
		1909	BG	NET		199	54° 45.21	133 26.49		120					BONGO
		1928	BG	TRAWL		200	54 44.771	133 27.296			SURFACE TOW				TRAWL
23	Fi 05	2028	BG	CTD		201	54° 44.25	133° 34.62	198			1			T: 8.09 S: 32.04
		2031	BO				54° 44.24	133° 34.65		185					BOT@10m - SAL/CHL/NUTS
		2035	EN				54° 44.25	133° 34.68							
		2038	BG	NET		202	54° 44.27	133° 34.70		150					BONGO
		2058	BG	TRAWL		203	54 44.416	133 36.002			SURFACE TOW				TRAWL

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Ocean Sciences and Productivity Division

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Month NOVEMBER				Year 2006				Ship W.G. RICKER				Cruise ID 2006-31			
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
23	Fi 06	2152	BE	CTD		204	54° 43.54	133° 42.55	221			1	H.M.		T: 7.98 S: 31.95
		2156	BO				54° 43.57	133° 42.58		210					BOT@10m - SAL/CHL/NUFS
		2200	EN				54° 43.57	133° 42.62							
		2203	BE	NET		205	54° 43.59	133° 42.64							BONGO
		2223	BE	TRAWL		206	54° 43.498	133° 44.123			SURFACE	Tow			TRAWL
23	Fi 07	2314	BE	CTD		207	54° 42.34	133° 50.21	236			1			T: 7.95 S: 31.94
		2318	BO				54° 42.34	133° 50.26		220					BOT@10m - SAL/CHL/NUFS
		2322	EN				54° 42.32	133° 50.30							
		2325	BE	NET		208	54° 42.30	133° 50.35		150					BONGO
		2345	BE	TRAWL		209	54° 42.057	133° 52.1082			SURFACE TOW				TRAWL
24	SEA01	1506	BE	CTD		210	55° 14.37	133° 43.73	100			1			T: 7.28 S: 31.64
		1508	BO				55° 14.38	133° 43.74		90					BOT@10m - SAL/CHL/NUFS
		1510	EN				55° 14.39	133° 43.75							
		15	BE	NET		211	55° 14.38	133° 43.78							BONGO
		1532	BE	TRAWL		212	55° 15.228	133° 44.188			SURFACE TOW				TRAWL

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month NOVEMBER				Year 2006				Ship W.E. RICKER				Cruise ID 2006-31			
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	SEA 02	1634	BE	CTD		213	55°20.28	133°46.63	83			1	H.M.		T: 7.14 S: 31.41
		1635	BO				55°20.29	133°46.62		75					BOT@10m - SAL/CAL/NUTS
		1637	EN				55°20.30	133°46.62							
		1641	BE	NET		214	55°20.31	133°46.61		70					
		1659	BE	TRAWL		215	55 20.879	133 46.983			SURFACE	TOW			
24	SEA 03	1756	BE	CTD		216	55°24.28	133°52.03	91			1			T: 7.18 S: 31.38
		1758	BO				55°24.29	133°52.01		80					BOT@10m - SAL/CAL/NUTS
		1800	EN				55°24.30	133°52.00							
		1803	BE	NET		217	55°24.34	133°51.96		70					BONGO
		1820	BE	TRAWL		218	55 24.918	133 52.789			SURFACE	TOW			TRAWL
24	SEA 04	1917	BE	CTD		219	55°29.55	133°53.08	78			1			T: 7.12 S: 31.41
		1919	BO				55°29.57	133°53.05		70					BOT@10m - SAL/CAL/NUTS
		1921	EN				55°29.59	133°53.03							
		1924	BE	NET		220	55°29.61	133°53.00		55					BONGO
		2028	BE	TRAWL		221	55 33.255	133 52.102			SURFACE	TOW			TRAWL

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[illegible]

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year				Ship				Cruise ID			
NOVEMBER				2006				W.E. RICKER				2006-31			
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	ISEA 07	1501	BE	CTD		231	56° 24. 43	133° 38. 64	183			1	H.M.		T: 5.77 S: 28.71
		1504	BO				56° 24. 46	133° 38. 13		170					BOTELON - SAL/CHL/NUTS
		1508	EN				56° 24. 51	133° 38. 28						*	—————
		1514	BG	NET		232	56° 24. 57	133° 38. 42		150					BONGO
		1539	BE	TRAWL		233	56 24. 144	133 37. 696			SURFACE	TOW			TRAWL
25	ISGA 08	1651	BE	CTD		234	56° 22. 86	133° 27. 54	269			1			T: 5.95 S: 30.02
		1656	BO				56° 22. 91	133° 27. 59		250					BOTELON - SAL/CHL/NUTS
		1701	EN				56° 22. 95	133° 27. 63						*	————— →
		1704	BG	NET		235	56° 22. 96	133° 27. 64		150					BONGO
		1726	BE	TRAWL		236	56 22 584	133 26 470			SURFACE	TOW			TRAWL
25	ISEA 09	1845	BG	CTD		237	56° 22. 43	133° 13. 46	176			1			T: 6.02 S: 29.81
		1849	BO				56° 22. 42	133° 13. 44		165					BOTELON - SAL/CHL/NUTS
		1852	EN				56° 22. 41	133° 13. 31							
		1856	BE	NET		238	56 22. 43	133° 13. 27		150					BONGO
		1917	BE	TRAWL		239	56 22. 502	133 11. 870			SURFACE	TOW			TRAWL

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Additional comments

— SECONDARY SALINITY CELL FROZEN @ SURFACE - CLEARS AT ABOUT 10 m - AIR TEMP = -8°C

— SAME AS ABOVE

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		NOVEMBER		Year		2006		Ship		W. E. RICKER		INSTITUTE OF OCEAN SCIENCES				
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	
25	15EA 10	20 19	BE	CTD		240	56° 25.55	133° 03.78	103			1	N.M.		T: 5.76 S: 30.18	
		20 21	BO				56° 25.54	133° 03.76		90					BOT@ 10m SAL/CAL/NUTS	
		20 23	EN				56° 25.54	133° 03.74								
		20 27	BE	NET		241	56° 25.52	133° 03.73		80						
		20 43	BE	TRAWL		242	56 25 969	133 02.885		Tow AT 13m					BONGO	
															TRAWL	
25	15EA 11	21 43	BE	CTD		243	56° 28.89	132° 55.68	117			1			T: 5.67 S: 30.28	
		21 45	BO				56° 28.89	132° 55.70		105					BOT@ 10m SAL/CAL/NUTS	
		21 48	EN				56° 28.90	132° 55.69								
		21 52	BE	NET		244	56° 28.89	132° 55.64		95						
		22 11	BE	TRAWL		245	56 28 906	132 54.262		Tow AT 6m					BONGO	
															TRAWL	
25	15EA 12	23 10	BE	CTD		246	56° 28.71	132° 47.02	129			1			T: 5.14 S: 29.18	
		23 12	BO				56° 28.70	132° 47.06		120					BOT@ 10m SAL/CAL/NUTS	
		23 15	EN				56° 28.71	132° 47.13								
		23 19	BE	NET		247	56° 28.70	132° 47.09		100						
		23 37	BE	TRAWL		248	56 28 818	132 46.146		Tow AT 6m					BONGO	
															TRAWL	

type:

NET = bottle cast, no CTD

CTD = CTD without Rosette

USW = sea water loop

MOR = mooring

NET = net haul

bottle firing method:

US = up/stop

Time Code

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DE = end time of cast

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>NOVEMBER</i>				Year <i>2006</i>			Ship <i>W.E. RICHES</i>				Cruise ID <i>2006-31</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
26	156A 13	0034	BE	CTD		249	56° 28.94	132° 40.48	128			1	H.M.		T: 5.89 S: 30.08
		0037	BO				56° 29.02	132° 40.51		120					BOT@10m - SAL/CHL/NUTS
		0039	EN				56° 29.03	132° 40.52						*	→
		0042	BE	NET		250	56° 29.08	132° 40.56		110					BONGO
		0059	BE	TRAWL		251	56 28.69	132 40.365		SURFACE TOW					TRAWL
26 156A 13 1506 BE CTD 252 56° 25.73 132° 34.78 136 1 1509 BO 56° 25.78 132° 34.79 130 1513 EN 56° 25.82 132° 34.81 1518 BE NET 253 56° 25.91 132° 34.84 195 150 1542 BE TRAWL 254 56 25.164 132 35.040 SURFACE TOW															
26	156A 14	1506	BE	CTD		252	56° 25.73	132° 34.78	136			1			T: 5.88 S: 30.04
		1509	BO				56° 25.78	132° 34.79		130					BOT@10m - SAL/CHL/NUTS
		1513	EN				56° 25.82	132° 34.81						*	→
		1518	BE	NET		253	56° 25.91	132° 34.84	195	150					BONGO
		1542	BE	TRAWL		254	56 25.164	132 35.040		SURFACE TOW					TRAWL
26	156A 15	1658	BE	CTD		255	56° 21.00	132° 29.03	160			1			T: 5.70 S: 29.66
		1702	BO				56° 21.05	132° 29.02		150					BOT@10m - SAL/CHL/NUTS
		1705	EN				56° 21.06	132° 29.05						*	→
		1710	BE	NET		256	56° 21.13	132° 29.08		135					BONGO
		1730	BE	TRAWL		257	56 20.814	132 30.326		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

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Additional comments

- CTD FROZEN - T & S SLOW TO WORK CYCLED TO 10m AND BACK - SURFACE READINGS 15FY

- SAME AS ABOVE

- SAME AS ABOVE

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>November</u>				Year <u>2006</u>			Ship <u>W.E. RICKER</u>				Cruise ID <u>2006-31</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							
26	ISEA 16	1828	BE	CTD		258	56° 18.09	132° 36.43	321			1	H.M.		T: 5.87 S: 29.28
		1832	BO				56° 18.17	132° 36.36		250					BOT@10m. SAL/CHL/NUTS
		1837	EN				56° 18.24	132° 36.29							* →
		1841	BE	NET		259	56° 18.27	132° 36.28		150					BONGO
		1901	BE	TRAWL		260	56 17.718	132 37 279			SURFACE TOW				TRAWL
26	ISEA 17	2006	BE	CTD		261	56° 14.11	132° 45.03	214			1			T: 5.36 S: 28.84
		2010	BO				56° 14.12	132° 45.00		200					BOT@10m. SAL/CHL/NUTS
		2014	EN				56° 14.13	132° 44.94							
		2017	BE	NET		262	56° 14.14	132° 44.92		150					BONGO
		2037	BE	TRAWL		263	56 13.587	132 44 890			SURFACE TOW				TRAWL
26	ISEA 18	2139	BE	CTD		264	56° 08.48	132° 45.61	260			1			T: 5.47 S: 29.27
		2144	BO				56° 08.52	132° 45.61		250					BOT@10m. SAL/CHL/NUTS
		2148	EN				56° 08.55	132° 45.66							
		2121	BE	NET		265	56° 08.58	132° 45.72		150					BONGO
		2210	BE	TRAWL		266	56 08.077	132 46.109			SURFACE TOW				TRAWL

Cast type:

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

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

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

Time Code

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

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Additional comments

→ CTD FROZEN @ SURFACE - RUN DOWN & UP 10m - PRIMARY OK - SECONDARY 1 FET (T & S)

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>NOVEMBER</u>				Year <u>2006</u>				Ship <u>W. E. RICKER</u>				Cruise ID <u>2006-31</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							
26	1SEA 19	2312	BE	CTD		267	56° 02.92	132° 45.59	359			1	H.M.		T: 5.75 S: 30.00
		2317	BO				56° 02.97	132° 45.64		250					BOT@10m - SAL/CAL/NOTS
		2321	CH				56° 03.01	132° 45.67							* —————
		2325	BE	NET		268	56° 03.05	132° 45.69		150					BONGO
		2343	BE	TRAWL		269	56 02 52.7	132 45 15.9		SURFACE TOW					TRAWL
27	1SEA 20	0033	BE	CTD		270	56° 00.07	132° 41.23	274			1			T: 5.64 S: 26.17
		0038	BO				56° 00.08	132° 41.24		250					BOT@10m - SAL/CAL/NOTS
		0042	CH				56° 00.10	132° 41.27							
		00	BE	NET		271	56° 00.	132° 41.		BONGO CANCELLED					BONGO *
		0054	BE	TRAWL		272	55 59 76.0	132 40.421		SURFACE TOW					TRAWL
27	1SEA 21	1456	BE	CTD		273	56° 00.14	132° 07.44	379			1			T: 5.13 S: 28.39
		1501	BO				56° 00.15	132° 07.50		250					BOT@10m - SAL/CAL/NOTS
		1507	CH				56° 00.13	132° 07.61							
		1510	BE	NET		274	56° 00.13	132° 07.65							BONGO
		1534	BE	TRAWL		275	55 59.297	132 07.087		SURFACE TOW					TRAWL

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Additional comments

→ CTD FROZEN - UP & DOWN 10m - SURFACE T&S 1FAT (SECONDARY NOT RIGHT @ SURFACE)

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month NOVEMBER				Year 2006			Ship W. E. RICKER				Cruise ID 2006-31				
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	ISCA 22	1652	BE	CTD		276	55° 51. 57	132° 10. 29	361			1	4 m.		T: 5.02 S: 28.39
		1657	BO				55° 51. 57	132° 10. 25		250					ROTATION - SAL/CHL/NUTS
		1702	EN				55° 51. 58	132° 10. 24							* 
		1705	BE	NET		277	55° 51. 59	132° 10. 25		150					BONGO
		1755	BE	TRAWL		278	55 51. 047	132 11. 804		SURFACE TOW					TRAWL
27	ISCA 23	1837	BE	CTD		279	55° 47. 34	132° 21. 12	650			1			T: 5.43 S: 28.82
		1842	BO				55° 47. 36	132° 21. 15		250					ROTATION - SAL/CHL/NUTS
		1847	EN				55° 47. 37	132° 21. 14							* 
		1851	BE	NET		280	55° 47. 40	132° 21. 12		150					BONGO
		1912	BE	TRAWL		281	55 46. 493	132 20. 398		SURFACE TOW					TRAWL
27	ISCA 24	2026	BE	CTD		282	55° 39. 20	132° 20. 07	620			1			T: 5.32 S: 28.08
		2031	BO				55° 39. 15	132° 20. 01		250					ROTATION - SAL/CHL/NUTS
		2035	EN				55° 39. 17	132° 19. 99							
		2039	BE	NET		283	55° 39. 16	132° 19. 99		150					BONGO
		2058	BE	TRAWL		284	55 38. 298	132 19. 060		SURFACE TOW					TRAWL

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Additional comments

→ CTD FROZEN - SURFACE T_S QUESTIONABLE

→ SAME AS ABOVE

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month NOVEMBER			Year 2006			Ship W. E. RICKER			Cruise ID 2006-31						
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	ISCA 25	2205	BE	CTD		285	55° 33.95	132° 11.29	407			1	H.M.		T: 5.58 S: 30.23
		2210	BO				55° 33.95	132° 11.30		250					BOT 10m - SAL/CHL/NUIS
		2214	EN				55° 33.96	132° 11.33							
		2219	BE	NET		286	55° 33.96	132° 11.37		150					BONGO
		2238	BE	TRAWL		287	55 33.052	132 10.838		SURFACE TOW					TRAWL
27	ISCA 26	2339	BE	CTD		288	55° 28.50	132° 04.65	445			1			T: 5.40 S: 29.88
		2344	BO				55° 28.58	132° 04.69		250					BOT 10m - SAL/CHL/NUIS
		2349	EN				55° 28.60	132° 04.71							
		2352	BE	NET		289	55° 28.62	132° 04.73		150					BONGO
		2409	BE	TRAWL		290	55 28 191	132 03 745		SURFACE TOW					TRAWL
27															
28	ISCA 27	1459	BE	CTD		291	54° 51.22	131° 53.37	406			1			T: 6.14 S: 30.43
		1504	BO				54° 51.24	131° 53.36		250					BOT 10m - SAL/CHL/NUIS
		1509	EN				54° 51.28	131° 53.36							
		1513	BE	NET		292	54° 51.32	131° 53.33		150					BONGO
		1534	BE	TRAWL		293	54 50.612	131 53.341		SURFACE TOW					TRAWL

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>NOVEMBER</i>				Year <i>2006</i>				Ship <i>W. C. RICKER</i>				Cruise ID <i>2006-31</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
<i>28</i>	<i>156A 28</i>	<i>1635</i>	<i>BE</i>	<i>CTD</i>		<i>294</i>	<i>54° 45.11</i>	<i>131° 53.57</i>	<i>385</i>			<i>1</i>	<i>H.M.</i>		<i>T: 6.29 S: 30.72</i>
		<i>1639</i>	<i>BO</i>				<i>54° 45.16</i>	<i>131° 53.58</i>		<i>250</i>					<i>BOT@10m - SAL/CHL/NUIS</i>
		<i>1645</i>	<i>EN</i>				<i>54° 45.14</i>	<i>131° 53.70</i>							
		<i>1647</i>	<i>BE</i>	<i>NET</i>		<i>295</i>	<i>54° 45.14</i>	<i>131° 53.72</i>		<i>150</i>					<i>BONGO</i>
		<i>1708</i>	<i>BE</i>	<i>TRAWL</i>		<i>296</i>	<i>54 44 30.3</i>	<i>131 54 46.2</i>		<i>SURFACE TOW</i>					<i>TRAWL</i>
<i>28</i>	<i>156A 29</i>	<i>1811</i>	<i>BE</i>	<i>CTD</i>		<i>297</i>	<i>54° 38.97</i>	<i>132° 00.50</i>	<i>156</i>			<i>1</i>			<i>T: 6.11 S: 30.82</i>
		<i>1814</i>	<i>BO</i>				<i>54° 38.91</i>	<i>132° 00.55</i>		<i>145</i>					<i>BOT@10m - SAL/CHL/NUIS</i>
		<i>1817</i>	<i>EN</i>				<i>54° 38.89</i>	<i>132° 00.62</i>							
		<i>1820</i>	<i>BE</i>	<i>NET</i>		<i>298</i>	<i>54° 38.88</i>	<i>132° 00.67</i>		<i>135</i>					<i>BONGO</i>
		<i>1840</i>	<i>BE</i>	<i>TRAWL</i>		<i>299</i>	<i>54 38.101</i>	<i>132 02.242</i>		<i>SURFACE TOW</i>					<i>TRAWL</i>
<i>28</i>	<i>156A 30</i>	<i>1953</i>	<i>BE</i>	<i>CTD</i>		<i>300</i>	<i>54° 35.01</i>	<i>132° 11.28</i>	<i>165</i>			<i>1</i>			<i>T: 6.27 S: 30.90</i>
		<i>1956</i>	<i>BO</i>				<i>54° 34.97</i>	<i>132° 11.39</i>		<i>155</i>					<i>BOT@10m - SAL/CHL/NUIS</i>
		<i>1959</i>	<i>EN</i>				<i>54° 34.98</i>	<i>132° 11.42</i>							
		<i>2002</i>	<i>BE</i>	<i>NET</i>		<i>301</i>	<i>54° 34.96</i>	<i>132° 11.47</i>		<i>145</i>					<i>BONGO</i>
		<i>2021</i>	<i>BE</i>	<i>TRAWL</i>		<i>302</i>	<i>54 34.599</i>	<i>132 13.154</i>		<i>SURFACE TOW</i>					<i>TRAWL</i>

Cast type:

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

bottle firing method:

US = up/stop
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DN = down/no stop

Time Code

BE = beginning time of cast
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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 NOVEMBER				Year 2006			Ship W. E. RICHER				Cruise ID 2006-31				
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	ISCA 31	2125	BE	CTD		303	54° 35.13	132° 24.43	270 ₂₅₀			1	H.M.		T: 6.40 S: 31.07
		2129	BO				54° 35.18	132° 24.35		250 ₂₄₀					BOT@10m - SAL/CHL/NUTS
		2134	EN				54° 35.21	132° 24.29							
		2137	BE	NET		304	54° 35.22	132° 24.21		150					BONGO
		2154	BE	TRAWL		305	54 35 18.5	132 24, 951			SURFACE TOW				TRAWL
30	IBC 07	1459	BE	CTD		306	52° 09.69	127° 52.10	585						T: 6.76 S: 30.55
		1504	BO				52° 09.75	127° 52.01		250					BOT@10m - SAL/CHL/NUTS
		1510	EN				52° 09.79	127° 51.94							
		1513	BE	NET		307	52° 09.81	127° 51.92		150					BONGO
		1533	BE	TRAWL		308	52 09. 511	127 51. 965.			SURFACE TOW				TRAWL
30	IBC 08	1643	BE	CTD		309	52° 03.75	127° 54.92	398						T: 6.73 S: 30.53
		1648	BO				52° 03.73	127° 54.90		250					BOT@10m - SAL/CHL/NUTS
		1653	EN				52° 03.74	127° 54.85							
		1656	BE	NET		310	52° 03.74	127° 54.81		150					BONGO
		1715	BE	TRAWL		311	52 03. 068	127 54 865			SURFACE TOW				TRAWL

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

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship		Cruise ID								
November		2006		W. E. RICKER		2006-31								
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	IBC 09	1824	BE	CTD		312	51° 56.71	127° 56.14	336			4 M		T: 6.74 S: 30.53
		1828	BO				51° 56.71	127° 56.10		250				
		1933	EN				51° 56.69	127° 56.10						BOT@10m - SAL/CHL/NUFS
		1837	BE	NET		313	51° 56.69	127° 56.09		150				
		1854	BE	TRAWL		314	51 56 024	127 56 194						BONGO
										SURFACE TOW				TRAWL
30	IBC 10	2005	BE	CTD		315	51° 51.18	127° 54.74	303					T: 6.76 S: 30.50
		2010	BO				51° 51.21	127° 54.70		250				
		2014	EN				51° 51.22	127° 54.71						BOT@10m - SAL/CHL/NUFS
		2017	BE	NET		316	51° 51.27	127° 54.71						
		2034	BE	TRAWL		317	51 50 887	127 54.738						BONGO
										SURFACE TOW				TRAWL
30	IBC 11	2144	BE	CTD		318	51° 44.33	127° 56.78	339					T: 6.58 S: 30.38
		2148	BO				51° 44.34	127° 56.82		250				
		2152	EN				51° 44.36	127° 56.84						BOT@10m - SAL/CHL/NUFS
		2157	BE	NET		319	51° 44.38	127° 56.80		150				
		2214	BE	TRAWL		320	51 43.910	127 56 631						BONGO
										TOW AT 20M				TRAWL

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Institute of Ocean Sciences																					
Month		NOVEMBER/DEC.		Year			2006			Ship			W. G. RICKER			Cruise ID			2006-31		
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	IBC 12	2336	BE	CTD		321	51° 36.05	127° 53.44	357			1	14.m.		T: 6.71 S: 30.39						
		2341	BO				51° 36.09	127° 53.44		250					BOTOM - SAL/CAL/NUTS						
		2345	EN				51° 36.12	127° 53.45													
		2348	BE	NET		322	51° 36.17	127° 53.49		150					BONGO						
1		0004	BE	TRAWL		323	51 35.381	127 53.370							TRAWL						
1	T 01	1514	BE	CTD		324	51° 16.50	128° 20.39	81			1			T: 7.94 S: 31.85						
		1515	BO				51° 16.52	128° 20.40		70					BOTOM - SAL/CAL/NUTS						
		1518	EN				51° 16.54	128° 20.39													
		1522	BE	NET		325	51° 16.58	128° 20.36		55					BONGO						
		1608	BE	TRAWL		326	51 16.254	128 21 278			SURFACE TOW				TRAWL						
1	T 02	1642	BE	CTD		327	51° 12.54	128° 28.01	193			1			T: 8.23 S: 32.08						
		1645	BO				51° 12.52	128° 28.04		180					BOTOM - SAL/CAL/NUTS						
		1649	EN				51° 12.51	128° 28.03													
		1652	BE	NET		328	51° 12.50	128° 28.03		150					BONGO						
		1710	BE	TRAWL		329	51 11.980	128 28.945			SURFACE TOW				TRAWL						

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

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month DECEMBER			Year 2006			Ship W.C. RICKER			Cruise ID 2006-31						
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	T 03	1812	BE	CTD		330	51° 08.71	128° 36.06	144			1	H.M.		T: 9.05 S: 32.33
		1814	BO				51° 08.69	128° 36.09		130					BOT@10m - SAL/CHL/NUTS
		1817	EN				51° 08.67	128° 36.09							
		1820	BE	NET		331	51° 08.65	128° 36.09		120					BONGO
		1839	BE	TRAWL		332	51 08.112	128 36.854			SURFACE	TOW			TRAWL
1	T 04	1950	BE	CTD		333	51° 04.29	128° 43.96	61			1			T: 8.91 S: 32.24
		1952	BO				51° 04.27	128° 43.95		50					BOT@10m - SAL/CHL/NUTS
		1953	EN				51° 04.24	128° 43.94							
		1959	BE	NET		334	51° 04.17	128° 43.94		45					BONGO
		2012	BE	TRAWL		335	51 03.495	128 45.185			SURFACE	TOW			TRAWL
1	T 05	2109	BE	CTD		336	51° 00.05	128° 51.85	60			1			T: 9.06 S: 32.20
		2111	BO				51° 00.05	128° 51.88		50					BOT@10m - SAL/CHL/NUTS
		2112	EN				51° 00.05	128° 51.90							
		2115	BE	NET		337	51° 00.05	128° 51.96							BONGO
		2129	BE	TRAWL		338	50 52.595	128 53 227			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 DECEMBER				Year 2006			Ship W. E. RICHER				Cruise ID 2006-31				
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	T06	2230	BE	CTD		339	50° 55.99	129° 59.92	63			1	H.M.		T: 8.94 S: 32.16
		2231	BO				50° 56.00	129° 59.95		55					BOT@10m - SAL/CAL/NUTS
		2233	EN				50° 56.00	129° 59.96							
		2236	BE	NET		340	50° 56.01	129° 59.98		40					BONGO
		2250	BE	TRAWL		341	50 56.135	129 01.168			SURFACE	TOW			TRAWL
2	T07	0034	BE	CTD		342	50° 49.21	129° 13.64	103			1			T: 8.85 S: 32.25
		0036	BO				50° 49.25	129° 13.66		90					BOT@10m - SAL/CAL/NUTS
		0038	EN				50° 49.28	129° 13.69							
		0041	BE	NET		343	50° 49.31	129° 13.73							BONGO
		0057	BE	TRAWL		344	50 49.132	129 14.626							TRAWL

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