

DAILY LOG

CRUISE
NUMBER

2002-05

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

FEB. 25 - MAR. 18

VESSEL

W. E. RICKER

PROJECT

HIGH SEAS SALMON

Captain: DAVE WESLEY **First Officer:** AL

Second Officer: GARRY Third Officer: KEVIN

Mission Participants / Agencies:

Scientific Personnel: _____
Party Chief: TOHX MORRIS

[illegible]

Second leg of Mission: Party Chief:

[illegible]

Data logging computer: _____

Data acquisition program: _____

CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: SEABARD model: 911 serial number: _____

Primary temperature sensor serial number: 2710 Calibration date: Dec 17/01

Primary conductivity sensor serial number: 2273 Calibration date: Dec 13/01

Secondary temperature sensor serial number: 2095 Calibration date: Dec 17/01

Secondary conductivity sensor serial number: 2280 Calibration date: Dec 13/01

Other sensors: SEAPoint FLOWMETER s/n: 2228

Other sensors: TRANSMISSOMETER s/n: 197

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature sensor serial number: _____ Calibration date: _____

Primary conductivity sensor serial number: _____ Calibration date: _____

Secondary temperature sensor serial number: _____ Calibration date: _____

Secondary conductivity sensor serial number: _____ Calibration date: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Comments: _____

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Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
27	IF1	TRAWL	1516		0001	48 24.123	124 8.3		106	SURFACE			H.M.	
		CTD			0002			BE	102	95	002			CTD NOT WORKING
		BONGO	1623		0003	48 25.784	124 13.241	BE	95	80	003			(NEXT STATION)
27	IF2	TRAWL	1750		0004	48 30.456	124 28.069		113	SURFACE				TRAWL
		CTD	1836		0005	48 31.41	124 32.84	BE	120	100		1		CTD / BOT @ 10m
			1838		5	48 31.42	124 32.88	BO						(NO PUMPS - 00PS)
			1840		5	48 31.43	124 32.93	EN						FOR CHL / NUTS / SAL
		NET	1850		0006	48 31.22	124 33.02	BE	120	110			H.M.	BONGO
	VI 01	TRAWL	2008		0007	48 34.741	124 48.372		66	SURFACE				TRAWL
27	VI 01	CTD	2103		0008	48 35.82	124 52.36	BE	60			1		CTD / BOT 10m
			2104		0009	48 35.82	124 52.38	BO		50				
			2105		0008	48 35.82	124 52.38	EN						T: 7.7012 S: 30.0064
		BONGO	2117		0009	48 35.78	124 52.38	BE		50				BONGO
	VI 02	TRAWL	2225		0010	48 38.374	125 03.488		72	SURFACE				
		CTD	2314		0011	48 38.48	125 07.78	BE	73			1		T: 7.8808 S: 29.572
			2315		0011	48 38.47	125 07.80	BO						10m BOT
			2318		0011	48 38.43	125 07.87	EN						
		NET	2329		0012	48 38.35	125 07.99	BE		70				BONGO

Cast type:

BOT = otter cast

CTD = CTD

MOR = mooring

ROS = Rosette

NET = net haul

DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast

BO = bottom time of cast

EN = end of cast time

DE = deployment time

MR = messenger release time

RE = recover mooring time

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28	EP 12	TRAWL	1603	BC	0013	48 24 315	128 12 334		>2500	10				TRAWL
		CTD	1643	BC	0014	48 29 36	128 12 58			500	0014	1		BOT @ 10m
			1652	BO	0014	48 29 32	128 12 84							T: 7.723 S: 32.341
			1702	EN	0014	48 29 31	128 13 09							MIXED LATER TO 90m
		NET	1710	BC	0015	48 29 34	128 13 26			250				DNA BONGO FOR MORA
		NET	1728	BC	0016	48 29 40	128 13 67		>2500	150				Hi SEAS BONGO
28	EP 11	TRAWL	1916	BC	0017	48 35 988	127 57 112		>2500	15				TRAWL
		CTD	1953	BC	0018	48 37 28	127 56 92			500	0018 Deep	1		CTD + BOT @ 500m + 10m
			2002	BO	0018	48 37 28	127 56 96				0018 Shallow			S: 32.349 T: 7.799
			2011	EN	0018	48 37 27	127 56 89							MIXED TO 100m
		NET	2039	BC	0019	48 37 49	127 57 07		>2500	150				BONGO
28	EP 10	TRAWL	2217	BE	0020	48 43 284	127 41 915		>2000	15				TRAWL
		CTD	2250	BC	0021	48 45 24	127 41 24			250		1		CTD TO 250m
			2255	BO	0021	48 45 24	127 41 29							T: 7.8516 S: 32.331
			2300	EN	0021	48 45 27	127 41 33							MIXED TO 83m
		NET	2307	BC	0022	48 45 30	127 41 39		>2000	150				BONGO

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01	EP0915	TRAWL	0015	BE	0023	48 52.239	127 25.972		~2100	25				TRAWL
	3rd	CTD	0230	BO	0025	48 53 81	127 27 34					2		CTD TO 1800
			0303	BO	0025	48 53.84	127 27 95			1953				T: 8084 S: 31.984
		* →	0337	EN	0025	48 53.89	127 28 42 ← *							MIXED TO 70m
	2nd	NET	0205	BE	0024	48 53 87	127 26 85		~2100	150				BONGO
01	EP08	TRAWL	1511	BE	0026	49 00.156	127 10.183		7200	15				TRAWL
		CTD	1548	BO	0027	49 01 40	127 10 02		~1730	250		1		CTD TO 250
			1554	BO	0027	49 01 81	127 10 17							T: 7.79 S: 30.74
			1559	EN	0027	49 01 75	127 10 26							MIXED LATER @ 25m
		NET	1605	BE	0028	49 01 71	127 10 46			150				BONGO
01	EP07	TRAWL	1713	BE	0029	49 05.682	126 59.649		490	15				TRAWL
		CTD	1810	BE	0030	49 07 91	126 58 95			250		1		CTD TO 250
			1815	BO	0030	49 07 91	126 59 06							T: 7.754 S: 30.528
			1821	EN	0030	49 07 90	126 59 16							
		NET	1828	BE	0031	49 07 93	126 59 26			150				BONGO

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1300
52:44
1900
3:01:46

* DEEP CAST ($1\frac{1}{4}$ WRAPS LEFT ON DRUM) TO STRAIGHTEN OUT NEW CONDUCTING CABLE

UPCAST WAS SLOW SO WE COULD WRAP ON DRUM PROPERLY

* HAD TO ABORT UP CAST @ 1069 m - ALARM WENT OFF

(WILL CHECK CONNECTIONS WHEN CTD IS UP - VERY SLOW WINDING OPERATIONS

RC TERMINATE SLIP RINGS - TWISTED OFF

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01	EP06	TRAWL	19:24	BC	0032	49 08	32	126 51	934		197	15m				TRAWL
		CTD	2013	BC	0033	49 09	74	126 55	14			180		1		CTD to
			2018	BO	0033	49 09	74	126 55	20							T: 7.896 S: 30.701
		*	2020	EN	0033	49 09	74	126 55	20				*			MIXED to 20m
		NET	2029	BC	0034	49 09	80	126 55	41							DNA ON SHELF for MOYNA
		NET	2045	BE	0035	49 09	87	126 55	59							HI SEAS BONGO
01	EP05	TRAWL	2136		0036	49 10	601	126 48	483		140	15m				
		CTD	2220	BC	0037	49 12	47	126 51	10		147	135				CTD to
			22	BO	0037	49 12		126 51								T: 7.899 S: 30.594
			2221	EN	0037	49 12	46	126 51	12							
		NET		BC	0038	49 12	47	126 51	24							BONGO
01	EP04	TRAWL	2314		0039	49 15	633	126 48	64		129	SURFACE				
02		CTD	0001	BE	0040	49 14	10	126 44	73		122	110		1		CTD to 110
			0004	BO	0040	49 14	09	126 44	73							T: 7.850 S: 30.256
			0007	EN	0040	49 14	09	126 44	74							
		NET	0021	BE	0041	49 14	28	126 44	87							BONGO
02	EP3	TRAWL	0101	BE	0042	49 18	324	126 43	233		110	SURFACE				
02	EP2	TRAWL	0220	BE	0043	49 20	265	126 39	628		75	SURFACE				
02	EP1	TRAWL	0313	BE	0044	49 20	196	126 33	979		53	SURFACE				

Cast type:

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USW = sea water loop

Time Code:

BE = bottom

Cast type:

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Time Code

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*EP6 CTD DIES AGAIN - SLIP RINGS NEED REPAIR

EP 05 DIED AGAIN - CANCELLED BY SLIP RINGS AGAIN

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02	EP 1	CTD	0358	BE	0045	49 19 26	126 30 27		47			1		T: 7.860 S: 29.906
			0359	BO	0045	49 19 27	126 30 26			40				"
			0400	EN	0045	49 19 27	126 30 25							"
		NET	0407	BE	0046	49 19 25	126 30 26			40				BONGO
02	EP 2	CTD	0439	BE	0047	49 19 02	126 36 18		91			1		T: 7.700 S: 29.878
			0441	BO	0047	49 19 03	126 36 19			75				
			0444	EN	0047	49 19 04	126 36 21							
		NET	0447	BE	0048	49 19 07	126 36 24			70				BONGO
02	EP 3	CTD	0525	BE	0049	49 16 77	126 40 69	110				1		T: 7.720 S: 29.993
			0527	BO	0049	49 16 76	126 40 69		100					
			0530	EN	0049	49 16 76	126 40 68							
		NET	0534	BE	0050	49 16 74	126 40 62			100				BONGO
02	IV101	TRAWL	1510	BE	0051	49 38 064	126 28 406		264	50RPAH				TRAWL
		CTD	1556	BE	0052	49 36 16	126 31 32					1		T: 8.038 S: 29.095
			1600	BO	0052	49 36 16	126 31 35			140				
			1602	EN	0052	49 36 17	126 31 34							
		NET	1608	BE	0053	49 36 10	126 31 42			140				BONGO - MUD TOW
		NET	1622	BE	0054	49 36 15	126 31 26			140				2ND BONGO

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02	1V1 02	TRAWL	1740	BC	0055	49 36	086	126 35	485		110	SOREACH				TRAWL			
		CTD	1747	BC	0056	49 39	04	126 36	67			100		1		CTD			
			1749	BO	0056	49 39	05	126 36	66							T: 6.148 S: 25.082			
			1751	EN	0056	49 39	07	126 36	66										
		NET	1756	BC	0057	49 39	12	126 36	62		149	140				BONGO			
02	1V1 03	TRAWL	1833		0058	49 41	424	126 36	654		194	SOREACH				TRAWL			
		CTD	1918	BC	0059	49 43	08	126 28	85			180		1		CTD			
	*		1922	BO	0059	49 43	10	126 28	79							T: 6.842 S: 20.564			
			1922	EN	0059	49 43	10	126 28	79										
		NET	1931	BC	0060	49 43	09	126 28	79							BONGO			
02	1V1 04	TRAWL	2243	BC	0061	49 53	1209	126 48	530		248	SOREACH				TRAWL			
		CTD		BC	0062	} CANCELLED - REDO TERMINAL CONNECTION								1		CTD			
				BO	0062														T: S:
				EN	0062														
		NET		BC	0063	*						150				BONGO			

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* 1V1 03 - TRANSMITTER FAILED - HAD TO ABORT VPCAST - WILL RE-DO SPLICE

* 0063 - BONGO NET TOW BECAME 0062 BECAUSE CTD WAS CANCELLED

NO 0063 - 1V1 05 STARTS E 0064

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03	1V105	TRAWL	1338	BC	0064	49	51 512	126	52 402		261	200	GOREMAN			TRAWL
		CTD	0029	BC	0065	49	50 88	126	57 57		161	150		1		CTD
			0031	BO	0065	49	50 87	126	57 62							T: 8.136 S: 29.0093
			0033	EN	0065	49	50 87	126	57 63							
		NET	0039	BC	0066	49	50 87	126	57 60			150				BONGO
03	1V106	TRAWL	1140		0067	49	51 416	126	55 341		248	SURFACE				TRAWL
03	V103	TRAWL	0253	BC	0068	49	46 418	127	04 923		49	SURFACE				TRAWL
		CTD	0341	BC	0069	49	44 84	127	09 43		76			1		CTD
			0342	BO	0069	49	44 84	127	09 43			70				T: 8.006 S: 30.459
			0344	EN	0069	49	44 85	127	09 46							
		NET	0349	BC	0070	49	44 92	127	09 59			65				BONGO
03	1V107	TRAWL	1510	BC	0071	50	30 599	127	41 88X		113	SURFACE				TRAWL
		CTD	1556	BC	0072	50	29 82	127	45 04		114			1		CTD
			1559	BO	0072	50	29 83	127	45 01			108				T: 8.157 S: 29.437
			1601	EN	0072	50	29 84	127	44 99							
		BONGO	1606	BC	0073	50	29 84	127	44 92			105				BONGO

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03	1V1 08	TRAWL	16 33	BE	0074	50 29	564	127 46	494		187	SORFACE				TRAWL
		CTD	1707	BE	0075	50 28	54	127 49	33		128			1		CTD
			1710	BO	0075	50 28	54	127 49	33			120				T: 8.163 S: 29.512
			1712	EN	0075	50 28	55	127 49	34							
		BONGO	1716	BE	0076	50 28	60	127 49	39			120				BONGO
03	1V1 09	TRAWL	1746	BE	077	50 28	25	127 53.1			167	SORFACE				TRAWL
		CTD	1831	BE	078	50 27	76	127 57	29		222			1		CTD
			1836	BO	078	50 27	77	127 57	30			210				T: 8.235 S: 29.925
	*	*	1841	EN	078	50 27	78	127 57	31							
		NET	1844	BE	079	50 27	78	127 57	37			150				BONGO
03	V1 04	TRAWL	1953	BE	080	50 25	072	127 59	556		144	SORFACE				TRAWL
		CTD	2013	BE	081	50 23	28	128 02	75		132			1		CTD
			2016	BO	081	50 23	30	128 02	74			120				T: 7.707 S: 30.814
			2018	EN	081	50 23	31	128 02	72							
		NET	2026	BE	082	50 23	34	128 02	60			130				BONGO

Cast type:

BOT = otter cast

ROS = Rosette

LISW = sea water loop

Time Code

BE = beam trawl

BO = beam trawl

EN = net

NET = net

Cast type:

BOT = otter cast
CTD = CTD

MOR = mooring

ROS = Rosette
NET = net haul
DRF = drifter

USW = sea water loop

Time Code

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* - 1VI 09 - LEFT CTD ON WHILE BOTTLE WAS LOWERED & TRIPPED - BOTTLE 5 m ABOVE CTD ON ALL CASTS (ASKED
DEKHANDS)

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03	V1 05	TRAWL	21:16	BE	083	50 27.799		128 13.752			102	SURFACE				TRAWL
		CTD	2237	BE	084	50 29 21		128 17 43			87			1		CTD
			2239	BO	084	50 29 20		128 17 40				80				T: 7.895 S: 31.432
			2240	EN	084	50 29 20		128 17 39								
		BONGO	2245	BE	085	50 29 14		128 17 34				75				BONGO
04	V1 06	TRAWL	2335	BE	086	50 34 175		128 19.815		67	SURFACE					TRAWL
		CTD	0023	BE	087	50 36 47		128 22 64			74			1		CTD
			0025	BO	087	50 36 47		128 22 65				65				T: 7.855 S: 31.211
			0026	EN	087	50 36 47		128 22 67								
		BONGO	0031	BE	088	50 36 49		128 22 73				65				BONGO
04	V1 07	TRAWL	1 14	BE	089	50 41 137		128 25.985			64	SURFACE				TRAWL
		CTD	0227	BE	090	50 43 88		128 29 18			85			1		CTD
			0229	BO	090	50 43 85		128 29 23				77				T: 7.772 S: 31.769
			0230	EN	090	50 43 83		128 29 26								
		NET	0235	BE	091	50 43 67		128 29 37				75				BONGO

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04	V1 08	TRAWL	0258	BE	092	50 43.218	128 31.296		90	SURFACE				TRAWL
		CTD	0349	BE	093	50 42 75	128 37 34		120			1		CTD
			0352	BO	093	50 42 73	128 37 39			110				T:7.742 S:31.727
			0354	EN	093	50 42 72	128 37 40							
		NET	0400	BE	094	50 42 65	128 37 48			110				BONGO
05	T 07	TRAWL	1510	BE	095	50.49.018	129 11.397		90	SURFACE				TRAWL
		CTD	1619	BE	096	50 49 25	129 13 11		90			1		CTD
			1621	BO	096	50 49 22	129 13 19			80				T:7.435 S:31.642
			1623	EN	096	50 49 21	129 13 25							
		NET	1642	EN	097	50 49 10	129 14 07			80				BONGO
05	T 08	TRAWL	1839	BE	098	50 44.802	129 24 417		1140	SURFACE				TRAWL
		CTD	1840	BE	099	50 42 09	129 29 00		1955	500		1		CTD
			1850	BO	099	50 42 12	129 29 01							T:7.528 S:31.644
			1901	EN	099	50 42 16	129 29 01							
		NET	1914	BE	100	50 37 24	129 35 29			150				BONGO

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05	T 09	TRAWL	2010	BE	101	50 36 91	129 33 59	7	2000	SURFACE				TRAWL
		CTD	2051	BE	102	50 37 29	129 39 25		2024	500		2		CTD
			2103	BO	102	50 37 31	129 39 45							T: 7.481 S: 31.661
			2114	EN	102	50 37 25	129 39 53				*		*	DEEP (A) BOT @ 500 + 10. (B)
		NET	2140	BE	103	50 37.3	129 39.7			150				BONGO
05	T 10	TRAWL	2235	BE	104	50 32 68	129 47 36		2165	SURFACE				TRAWL
		CTD	2314	BE	105	50 32 52	129 49 34		2189			1		CTD
			2225	BO	105	50 32 60	129 49 44			500				T: 7.590 S: 31.777
			2235	EN	105	50 32 68	129 49 50							
		NET	2255	BE	106	50 32.9	129 49.70			150				BONGO
06	T 11	TRAWL	0044	BE	107	50 27 98	129 55.55		2459	SURFACE				TRAWL
		CTD	0118	BE	108	50 27 72	129 59 66		2331			1		CTD
			0129	BO	108	50 27 71	129 59 78			500				T: 7.163 S: 31.499
			0140	EN	108	50 27 84	130 00 02							
		NET	0158	BE	109	50 27.72	129 59.58			150				BONGO

Cast type:

BOT = otter cast
CTD = CTD

MOR = mooring

ROS = Rosette
NET = net haul

DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast

BO = bottom time of cast

EN = end of cast time

DE = deployment time

MR = messenger release time

RE = recover mooring time

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.				
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
06	T 12	TRAWL	0240	BC	110	50 24	17	130 05	04		1700	SURFACE				TRAWL
	3 RD	CTD	0344	BE	111	50 22	94	130 09	71		2030			2		CTD
			0406	BO	111	50 23	03	130 09	95			1000				T: S:
			04	EN	111	50 23		130 10								DEEP-1000 m + 10 m
	2 ND	NET	0324	BC	112	50 22	85	130 09	45			150				BONGO
6	T 06	TRAWL	1538	BC	113	50 54	547	129 02	096		63	SURFACE				TRAWL
		CTD	1626	BC	114	50 56	00	129 00	04		59			1		CTD
			1629	BO	114	50 55	97	129 00	03			50				T: 7.154 S: 31.475
			1630	EN	114	50 55	98	129 00	03							
		NET	1638	BC	115	55 55	93	129 00	06			50 49				BONGO
6	T 05	TRAWL	1724	BC	116	50 59	351	128 57	151		73	SURFACE				TRAWL
		CTD	1823	BC	117	50 59	99	128 52	14		60			1		CTD
			1824	BO	117	50 59	99	128 52	15			50				T: 7.194 S: 31.329
			1825	EN	117	50 59	99	128 52	16							
		NET	1934	BC	118	50 59	28	128 52	12			50				BONGO

Cast type:

BOT = otter cast

CTD = CTD

MOR = mooring

ROS = Rosette

NET = net haul

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Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
06	T 04	TRAWL	1927	BE	119	51 04 454	128 49 181		59	SURFACE				TRAWL
	*	CTD	2022	BE	120	51 04 54	128 44 07		60			1		CTD
			2024	BO	120	51 04 57	128 44 12			50				T: 7.344 S: 31.017
			2025	EN	120	51 04 59	128 44 13							
		NET	2033	BE	121	51 04 69	128 44 16			50				BONGO
06	T 03	TRAWL	2112	BE	122	51 07 92	128 40 28		110	SURFACE				TRAWL
		CTD	2159	BE	123	51 08 63	128 36 12		139			1		CTD
			2202	BO	123	51 08 66	128 36 20			130				T: 6.993 S: 31.206
			2205	EN	123	51 08 67	128 36 21							
		NET	2223	BE	124	51 08 70	128 36 18			130	127			BONGO
06	T 02	TRAWL	2258	BE	125	51 11 21	128 31 1		194	SURFACE				TRAWL
		CTD	2347	BE	126	51 12 57	128 27 99		190			1		CTD
			2352	BO	126	51 12 60	128 27 96			180				T: 7.222 S: 31.318
			2356	EN	126	51 12 61	128 27 99							
07		NET	0001	BE	127	51 12 66	128 27 99			150				BONGO

Cast type:

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* T 04 - PUMPS ON LATE @ 10m ON DOWNCAST

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
07	T 01	TRAWL	0032	BE	128	51	13 56	128	25 41		96	SURFACE				TRAWL
		CTD	0130	BE	129	51	16 57	128	19 98		75			1		CTD
			0133	BO	129	51	16 55	128	20 03			65				T: 7.317 S: 30.925
			0134	EM	129	51	16 55	128	20 05							
		NET		BE	130	51	16.5	128	19.92			65				BONGO
07	QCS 01	TRAWL	0252	BE	131	51	22-98	128	15 02		128	SURFACE / 30m				TRAWL
		CTD	0405	BE	132	51	26 89	128	14 29		120			1		CTD
			0408	BO	132	51	26 88	128	14 29			110				T: 6.614 S: 31.200
			0411	EM	132	51	26 88	128	14 28							
		NET	0419	BE	133	51	26 95	128	14 33							BONGO
07	HS01	TRAWL	1509	BE	134	52	18 235	128	51 145		92	SURFACE				TRAWL
07	H 01	TRAWL	1604	BE	135	52	15 960	128	57 361		129	SURFACE				TRAWL
		CTD	1723	BE	136	52	12 34	129	10 56		160			1		CTD
			1726	BO	136	52	12 35	129	10 55			150				T: 6.818 S: 31.809
			1730	EM	136	52	12 35	129	10 53							
		NET	1735	BE	137	52	12 30	129	10 50			150				BONGO

Cast type:

BOT = bottle cast

BOS = Bongo

USW =

EM =

Cast type:

BOT = otter cast

CTD = CTD

MOR = mooring

ROS = Rosette

NET = net haul

DRF = drifter

USW = sea water loop

Time Code

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MR = messenger release time

RE = recover mooring time

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
07	H-02	TRAWL	1840	BE	138	52 14 88 S	129 23 030		161	SURFACE/25M				TRAWL
		CTD	1935	BE	139	52 15 40	129 26 51		184			1		CTD
			1939	BO	139	52 15 39	129 26 48			170				T: 6.491 S: 31.467
			1942	EN	139	52 15 36	129 26 46							
		NET	1954	BE	140	52 15 17	129 26 40			150				BONGO
07	H-03	TRAWL	2155	BE	141	52 17 410	129 38 007		207	SURFACE				TRAWL
		CTD	2219	BE	142	52 19 01	129 41 60		210			1		CTD
			2223	BO	142	52 19 03	129 41 58			200				T: 6.721 S: 31.728
			2227	EN	142	52 19 05	129 41 59							
		NET	2233	BE	143	52 19 06	129 41 61			150				BONGO
07	H-04	TRAWL	2334	BE	144	52 21 55	129 53 63		196	SURFACE				TRAWL
08		CTD	0022	BE	145	52 22 29	129 57 65		202			1		CTD
			0027	BO	145	52 22 41	129 57 64			190				T: 6.826 S: 31.745
			0031	EN	145	52 22 49	129 57 63							
		NET	0038	BE	146	52 22 65	129 57 71			150				BONGO
														NOT ON PBS LIST

Cast type:

BOT = otter cast
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Time Code

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DAILY LOG

Ocean Sciences and Productivity Division

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Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
8	H-05	TRAWL		BE	147	52 25 08	130 8 27		200	SURFACE				TRAWL
		CTD	0228	BE	148	52 25 69	130 13 15		324		1	2		CTD
			0235	BO	149	52 25 76	130 13 07			310				T: 6.982 S: 31.512
			0242	EN	149	52 25 83	130 12 99							(A) DEEP 310m (B) - 10m
		NET	0254	BE	149	52 25 98	130 13 18			150				BONGO
08	HS 02	TRAWL	2304	BE	150	52 43 22	131 02 66		40	SURFACE				TRAWL
		CTD	2349	BE	151	52 45 05	130 59 07		37		1			CTD
			2351	BO	151	52 45 05	130 59 05			30				T: 6.491 S: 32.067
			2352	EN	151	52 45 05	130 59 05							
		NET	2359	BE	152	52 44 98	130 58 46			30				BONGO
09	HS 03	TRAWL	0104	BE	153	52 50 87	130 52 61		43	SURFACE				TRAWL
		CTD	0151	BE	154	52 53 65	130 50 73		35		1			CTD
			0152	BO	154	52 53 65	130 50 72			30				T: 6.521 S: 31.980
			0153	EN	154	52 53 65	130 50 72							
		NET	0156	BE	155	52 53 71	130 50 75			25				BONGO

Cast type:

BOT = otter cast

ROS = Rosette

USW = sea water loop

Time Code

BE = beginning time of cast

DE = deployment time

CTD = CTD

NET = net haul

BO = bottom time of cast

MR = messenger release time

MOR = mooring

DRF = drifter

EN = end of cast time

RE = recover mooring time

DAILY LOG

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INSTITUTE OF OCEAN SCIENCES

Year					Month				Ship					Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
09	HS 04	TRAWL	02 50	BE	156	52	59 65	130	46 33		88	SURFACE				TRAWL
		CTD	03 39	BE	157	52	30 28	130	47 11		103			1		CTD
			03 41	BO	157	52	30 28	130	47 07			95				T: 6.755 S: 31.972
			03 43	EN	157	52	30 28	130	47 05							
		NET	03 47	BE	158	52	30 28	130	46 98			95				BONGO
09	DE 01	TRAWL	15 09	BE	159	54	12 85	131	41 40		57	SURFACE				TRAWL
		CTD	16 01	BE	160	54	11 00	131	44 36		43			1		CTD
			16 02	BO	160	54	11 00	131	44 36			35				T: 4.825 S: 31.824
			16 03	EN	160	54	11 00	131	44 36							
		NE	16 08	BE	161	54	10 99	131	44 44			32				BONGO
09	DE 02	TRAWL	16 52	BE	162	54	08 47	131	52 36		42	SURFACE				TRAWL
		CTD	17 52	BE	163	54	08 12	131	57 28		42			1		CTD
			17 54	BO	163	54	08 13	131	57 30			35				T: 5.135 S: 31.797
			17 55	EN	163	54	08 13	131	57 31							
		NET	18 00	BE	164	54	08 10	131	57 39			30				BONGO

Cast type:

BOT = otter cast

ROS = Rosette

USW = sea water loop

Time Code:

BE = beginning time of cast

DE = deployment time

Cast type:

BOT = otter cast

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MR = messenger release time

RE = recover mooring time

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
09	DE 03	TRAWL	1848	BE	165	54 09 245	132 05 623		41	5M Tow				TRAWL
		CTD	1932	BE	166	54 08 28	132 11 65		43			1		CTD
			1934	BO	166	54 08 27	132 11 65			35				T:5.052 S:31.447
			1935	EN	166	54 08 26	132 11 66							NO BONGO - TOO ROUGH
09	DE 04	TRAWL	2015	BE	167	54 08 24	132 20 65		60	12M Tow		1		TRAWL
		CTD	2107	BE	168	54 07 74	132 26 15		53					CTD
			21	BO	168	54 07 74	132 26 17			45				T:5.927 S:32.028
			2112	EN	168	54 07 72	132 26 24							STILL NO BONGO
	ISCA 01	TRAWL	1541	BE	169	55 16 05	131 54 86		388	SURFACE				TRAWL
10		CTD	1605	BE	170	55 19 28	131 56 50		401			1		CTD
			1610	BO	170	55 19 28	131 56 53			250				T:4.904 S:30.740
			1615	EN	170	55 19 27	131 56 58							
		NET	1620	BE	171	55 19 24	131 56 62			150				BONGO

Cast type:

BOT = otter cast

CTD = CTD

MOR = mooring

ROS = Rosette

NET = net haul

DRF = drifter

USW = sea water loop

Time Code

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BO = bottom time of cast

EN = end of cast time

DE = deployment time

MR = messenger release time

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.				
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
10	ISEA 2	TRAWL	17 16	BE	172	55	24 86	131	58 53		476	SURFACE				TRAWL
		CTD	18 25	BE	173	55	29 58	132	01 91		474			2		CTD
			18 34	BO	173	55	28 67	132	01 94			460				T: 4.322 S: 30.451
			18 45	GN	173	55	28 74	132	02 00							(A) DEEP- (B) 10 m
		NET	18 53	BE	174	55	28 86	132	02 17			150				BONGO
10	ISEA 3	TRAWL	19 35	BE	175	55	31 58	132	02 94		118	SURFACE / 20m				TRAWL
		CTD	20 26	BE	176	55	32 72	132	07 24		317			1		CTD
			20 31	BO	176	55	32 75	132	07 13			250				T: 4.484 S: 30.468
			20 35	EN	176	55	32 76	132	07 14							
		NET	20 47	BE	177	55	32 64	132	07 12			150				BONGO
10	ISEA 4	TRAWL	21 40	BE	178	55	37 49	132	12 884		618	162 SURFACE				TRAWL
		CTD	22 42	BE	179	55	39 13	132	17 29					1		CTD
			22 47	BO	179	55	39 10	132	17 14			250				T: 4.589 S: 30.593
			22 52	GN	179	55	39 08	132	17 11							
		NET	22 57	BE	180	55	38 99	132	17 01			150				BONGO

Cast type:

ROS =ottle cast

ROS = Rosette

UOV

Fl. Cast

SP. Cast

Cast type:

BOT = otter cast

CTD = CTD

MOR = mooring

ROS = Rosette

NET = net haul

DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast

BO = bottom time of cast

EN = end of cast time

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MR = messenger release time

RE = recover mooring time

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship					Cruise I.D.			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
11	ISEA 5	TRAWL	23 50	BE	181	55	44 02	132	21 12		572	30M TOW				TRAWL
		CTD	0045	BE	182	55	46 74	132	24 27		579			1		CTD
			0051	BO	182	55	46 78	132	24 29			250				T: 4.734 S: 30.651
			0056	EN	182	55	46 80	132	24 34							
		NET	01 00	BE	183	55	46 84	132	24 45			150				BONGO
11	ISEA 6	TRAWL	01 43	BE	184	55	50 33	132	30 17S		471	SURFACE				TRAWL
																NO CTD OR BONGO
11	ISEA 7	TRAWL	02 52	BE	185	55	55 69	132	37 02		383	SURFACE				TRAWL
		CTD	0342	BE	186	55	58 07	132	39 45		407			1		CTD
			0348	BO	186	55	58 06	132	39 41			250				T: 4.658 S: 30.589
			0352	EN	186	55	58 01	132	39 45							
		BONGO	0400	BE	187	55	58 01	132	39 42			150				BONGO
11	ISEA 8	TRAWL	15 07	BE	188	56	22 26	133	08 40		42	SURFACE				TRAWL
		CTD	1605	BE	189	56	21 84	133	09 79		54					CTD
			1608	BO	189	56	21 86	133	09 71			45				T: 5.375 S: 30.940
			1609	EN	189	56	21 87	133	09 68							
		NET	1613	BE	190	56	21 89	133	09 56		70	60				BONGO

Cast type:

BOT = otter cast

ROS = Rosette

LWSW = sea water loop

Time Code

BE = bottom event

BO = bottom

EN = event

NET = net

CTD = CTD

TRAWL = trawl

BONGO = Bongo

Cast type:

BOT = otter cast
CTD = CTD

MOR = mooring

ROS = Rosette
NET = net haul

DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast

BO = bottom time of cast

EN = end of cast time

DE = deployment time

MR = messenger release time

RE = recover mooring time

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month				Ship				Cruise I.D.			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
11	ISEA 9	TRAWL	1710	BE	191	56	20 89	133	21 05		136	SURFACE				TRAWL
		CTD	1803	BE	192	56	21 54	133	26 14		326			1		CTD
			1810	BO	192	56	21 57	133	26 02			315				T: 5.588 S: 31.505
			1816	EN	192	56	21 57	133	25 93							
		NET	1820	BE	193	56	21 56	133	25 90			150				BONGO
11	ISEA 10	TRAWL	2002	BE	194	56	22 27	133	37 27		142	SURFACE				TRAWL
		CTD	2019	BE	195	56	24 77	133	41 45		275			1		CTD
			2025	BO	195	56	24 76	133	41 50			265				T: 5.089 S: 31.297
			2029	EN	195	56	24 77	133	41 50							
		NET	2036	BE	196	56	24 80	133	41 65			150				BONGO
11	ISEA 11	TRAWL	2139	BE	197	56	18 89	133	41 02		314	SURFACE				TRAWL
		CTD	2232	BE	198	56	16 22	133	41 22		110	100		1		CTD
			2234	BO	198	56	16 24	133	41 21							T: 5.532 S: 31.719
			2236	EN	199	56	16 25	133	41 23							
		NET	2242	BE	199	56	16 26	133	41 26		143	130				BONGO

Cast type:

BOT = otter cast

CTD = CTD

MOR = mooring

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Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
12	1SEA 12	TRAWL	23 43	BE	200	56 08 37	133 42 42		152	SURFACE				TRAWL
		CTD	00 28	BE	201	56 05 45	133 42 97		110			1		CTD
			00 31	BO	201	56 05 46	133 42 95			100				T: 5.412 S: 31.704
			00 33	CH	201	56 05 47	133 42 93							
		NET	00 40	BE	202	56 05 51	133 42 87			105				BONGO
12	1SEA 13	TRAWL	01 29	BE	203	56 00 84	133 50 00		334	30 m				TRAWL (NO CTD/BONGO)
12	1SEA 14	TRAWL	02 26	BE	204	55 59 04	133 55 60		162	SURFACE - 30m				TRAWL
		CTD	03 17	BE	205	55 57 31	133 59 20		204			1		CTD
			03 22	BO	205	55 57 29	133 59 18			195				T: 5.512 S: 31.591
			03 26	CH	205	55 57 31	133 59 14							
*	CANCELLED	NET	05	BE	206	55 57	133 59			150	(DUE TO WEATHER)	*		BONGO / CANCELLED
12	1SEA 15	TRAWL	15 09	BE	206	56 56 27	134 32 41		170	SURFACE				TRAWL
		CTD	16 03	BE	207	56 59 23	134 29 09		138			1		CTD
			16 06	BO	207	56 59 27	134 29 08			130				T: 3.799 S: 31.390
			16 09	CH	207	56 59 31	134 29 05							
		NET	16 16	BE	208	56 59 44	134 29 02		136	125				BONGO

Cast type:

BOT = otter cast

CTD = CTD

MOR = mooring

ROS = Rosette

NET = net haul

DRF = drifter

USW = sea water loop

Time Code

BE = beginning time of cast

BO = bottom time of cast

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MR = messenger release time

RE = recover mooring time

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
12	ISEA 16	TRAWL		BE	209	57 04 58	134 20 80		124	15-30m				TRAWL
		CTD	1800	BE	210	57 07 25	134 17 86		141			1		CTD
			1803	BO	210	57 07 22	134 17 82			130				T: 3.682 S: 31.342
			1806	EN	210	57 07 21	134 17 77							
		NET	1810	BE	211	57 07 15	134 17 62		145	135				BONGO
12	ISEA 17	TRAWL	19:04	BE	212	57 11 41	134 09 51		150	75-30m				TRAWL
		CTD	1939	BE	213	57 12 47	134 06 47		76			1		CTD
			1941	BO	213	57 12 48	134 06 38			65				T: 3.722 S: 31.296
			1943	EN	213	57 12 49	134 06 32							
		NET	1948	BE	214	57 12 59	134 06 16			70				BONGO
13	ISEA 18	TRAWL	01:38	BE	215	56 26 698	134 29 869		702	15m Tow				TRAWL
		CTD	0226	BE	216	56 23 24	134 28 06		723			1		CTD
			0232	BO	216	56 23 21	134 28 07			250				T: 5.258 S: 31.792
			0237	EN	216	56 23 18	134 28 14							NO BONGO

Cast type:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.				
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
13	ISEA 19	TRAWL	03:15	BE	217	56	20 44	134	23 39		463	15-30m.				TRAWL
	3 RD	CTD	0429	BE	218	56	18 40	134	23 43		455			2		CTD
+			0441	BO	218	56	18 54	134	23 36			445				T: 5.321 S: 31.703
			0447	EN	218	56	18 63	134	23 33							(A) DEEP (500m) B-10m
	2 ND	NET	0403	BE	219	56	18 14	134	23 55			150				BONGO
13	B 1	TRAWL	1506	BE	220	56	15 30	134	53 03		147	SURFACE				TRAWL
		CTD	1558	BE	221	56	18 01	134	54 52		87					CTD
			1600	BO	221	56	18 02	134	54 55			75				T: 4.818 S: 31.419
			1601	EN	221	56	18 03	134	54 57							Loop. SAMPLE # 222
		NET	1607	BE	223	56	18 04	134	54 67		55	45	30?			BONGO
13	B2	TRAWL	1629	BE	224	56	17 40	134	56 27		139	15-30m Tow.				TRAWL
		CTD	1722	BE	225	56	15 18	135	01 51		148			1		CTD
			1725	BO	225	56	15 21	135	01 48			140				T: 4.927 S: 31.809
			1728	EN	225	56	15 23	135	01 47							
		NET	1733	BE	226	56	15 27	135	01 36			135				BONGO

Cast type:

BOT = otter cast

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Time Code

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4:38
4:40-50

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
13	B 3	TRAWL	18:03	BE	227	56 14 72	135 03. 30		142	15-30m Tow.				TRAWL
		CTD	1900	BE	228	56 12 54	135 07 98		177			1		CTD
			19 04	BO	228	56 12 60	135 07 94			165				T: 5.227 S: 31. 925
			19 08	EN	228	56 12 66	135 07 88							
		NET	19 13	BE	229	56 12 82	135 07 89			150				BONGO
13	B4	TRAWL	1941	BE	230	56 12 83	135 0. 72		189	15-30m Tow.				TRAWL
		CTD	20 39	BE	231	56 09 69	135 14 69		294			1		CTD
			2045	BO	231	56 09 75	135 14 59			285				T: 5.716 S: 32.180
			2050	EN	231	56 09 77	135 14 57							
		NET	20 54	BE	232	56 09 86	135 14 56			150				BONGO
13	B5	TRAWL	21 25	BE	233	56 09 31	135 16 97		306	15m Tow				TRAWL
		CTD	2216	BE	234	56 06 98	135 21 23		310			1		CTD
			2221	BO	234	56 07 00	135 21 15			250				T: 5.825 S: 32.239
			2226	EN	234	56 07 01	135 21 18							
		NET	22 31	BE	235	56 06 99	135 21 32			150				BONGO

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month					Ship			Cruise I.D.			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
13	B6	TRAWL	2313	BE	236	56 05 28		135 26 04			344	15m Taw.				TRAWL
		CTD	2348	BE	237	56 04 38		135 28 51			393			1		CTD
			2353	BO	237	56 04 37		135 28 54				250				T: 5.526 S: 32.449
			2358	EN	237	56 04 37		135 28 57								
14		NET	0003	BE	238	56 04 40		135 28 56				150				BONGO
14	B7	TRAWL	0034	BE	239	56 03 58		135 30 74			470	15m Taw				TRAWL
		CTD	0115	BE	240	56 01 60		135 34 64			840			1		CTD
			0120	BO	240	56 01 54		135 34 67				250				T: 5.325 S: 32.504
			0125	EN	240	56 01 50		135 34 74								
		NET	0129	BE	241	56 01 47		135 34 67				150				BONGO
14	B8	TRAWL	0203	BE	242	56 00 78		135 36 63			9.9	15m Taw.				TRAWL
		CTD	0244	BE	243	55 58 93		135 41 38			1233			1		CTD
			0250	BO	243	55 58 90		135 41 45				250				T: 5.385 S: 32.439
			0254	EN	243	55 58 90		135 41 46								
		NET	0259	BE	244	55 58 85		135 41 53				150				BONGO

Cast type:

ROS = Rosette

USW = sea water log

Time Code: BE = bottom event

BO = bottom

EN = event

NET = net

CTD = CTD

TRAWL = trawl

Cast type:

BOT = otter cast

CTD = CTD

MOR = mooring

ROS = Rosette

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Time Code

BE = beginning time of cast

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2002-05 - HI SEAS - SALMON

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
14	B 9	TRAWL	0330	BE	245	55 58 15	135 42 66		1919	15m Tow				TRAWL
		CTD	0435	BE	246	55 53 09	135 53 04		2300			1		CTD
			0441	BO	246	55 53 83	135 53 18			250				T: 5.418 S: 32.428
			0445	EN	246	55 53 83	135 53 29							
		NET	0451	BE	247	55 53 81	135 53 31			150				BONGO
14	B 10	NET	0559	BE	248	55 49 30	136 04 61		2647	150				BONGO
		CTD	0632	BE	249	55 49 22	136 05 28		2300			2		CTD
			0651	BO	249	55 49 21	136 05 49			1000				T: 5.389 S: 32.441
			0708	EN	249	55 49 20	136 05 78							(A) Deep. 1000 - (B) 10 -
				Loop	250									250 - Loop SALM.
15	IBC 01	TRAWL	1614		251	53 20 66	129 15 77		514	0-15m Tow				TRAWL
		CTD	1718		252	53 18 90	129 09 83		499					CTD
			1723		252	53 18 93	129 09 90			250		1		T: 6.209 S: 30.912
			1728		252	53 18 94	129 09 98							
		NET	1732		253	53 18 93	129 10 13			150				BONGO

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 46:34
 51:30

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.				
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
17	CPE - 1	CTD	0823	BE	254	50 59	90	127 49	99		153					CTD
	(COPRA)		0827	BO	254	50 59	83	127 49	95			140		1		Loop # 256 (SAL)
			0830	GN	254	50 59	79	127 49	97							T: 7.055 S: 31.171
		NET	0840	BE	255	50 59	73	127 50	02		141	130				BONGO
		Loop			256											
17	IS - 01	TRAWL	1503	BE	257	50 32	712	126 42	330		461	30m Tow.				TRAWL
		CTD	1553	BE	258	50 31	67	126 40	03		465			1		CTD
			1558	BO	258	50 31	73	126 40	09			250				T: 7.207 S: 30.611
			1604	GN	258	50 31	77	126 40	11							
		NET	1608	BE	259	50 31	80	126 40	15			150				BONGO
17	IS - 02	TRAWL	1712	BE	260	50 30	52	126 33	02		387	0-15-30m Tow.				TRAWL
		CTD	1757	BE	261	50 30	45	126 30	49		392			1		CTD
			1802	BO	261	50 30	48	126 30	54			250				T: 7.197 S: 30.544
			1808	GN	261	50 30	51	126 30	58							
		NET	1811	BE	262	50 30	56	126 30	66			150				BONGO

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Ocean Sciences and Productivity Division

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Year					Month			Ship					Cruise I.D.			
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
17	JS 03	TRAWL	1913	BE	263	50	30.7	126	19	75	284	0-15-30 m Tow				TRAWL
		CTD	2001	BE	264	50	29 98	126	16	47	213			1		CTD
			2005	BO	264	50	29 47	126	16	46		210				T: 7.287 S: 30.505
			2009	EN	264	50	29 98	126	16	45						
		NET	2013	BE	265	50	29 92	126	16	43		150				BONGO
17	JS 04	TRAWL	2135	BE	266	50	28 64	126	7	97	231	0-15-30 m Tow				TRAWL
		CTD	2150	BE	267	50	28 55	126	04	45		220		1		CTD
			2154	BO	267	50	28 49	126	04	56						T: 7.392 S: 30.517
			2159	EN	267	50	28 49	126	04	62						
		NET	2202	BE	268	50	28 42	126	04	69		150				BONGO
17	JS 05	TRAWL	2245	BE	269	50	25 074	125	58.916		184	0-15-30 m Tow				TRAWL
		CTD	2333	BE	270	50	23 43	125	52	83	207					CTD
			2337	BO	270	50	23 38	125	52	68		195				T: 7.440 S: 30.223
			2340	EN	270	50	23 38	125	52	56						
		NET	2345	BE	271	50	23 42	125	52	44	145	135				BONGO

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