

DAILY LOG

CRUISE
NUMBER

2001-36

INSTITUTE OF OCEAN SCIENCES

1 of 2

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

OCT 8/01 → NOV 6/01

VESSEL

W. E. RICKER

PROJECT

HIGH SEAS SALMON - WELCH

Captain: DON HARDY First Officer: BRUCE CAMPBELL

Second Officer: DOUG MURDOCH Third Officer: — CHAMP
FISH-NC

Mission Participants / Agencies: FBS-105

Scientific Personnel: _____
Party Chief: John Morris

[illegible][illegible]

Data logging computer: ASI 9000

Data acquisition program: SEASAVE WIM 32 V5.2

CTD deck unit make: SEAPIPO model: 911 + serial number: 0471

Primary CTD

Make: SEA-BIRD model: 911 serial number: 0506

Primary temperature sensor serial number: 2095 Calibration date: _____

Primary conductivity sensor serial number: 2278 Calibration date: _____

Secondary temperature sensor serial number: 2710 Calibration date: _____

Secondary conductivity sensor serial number: 2280 Calibration date: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

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: _____

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	VI 01	CTD	1330	BE	1	48 49 38	125 11 10		35	30	1	1		FORGOT TO TURN PUMPS ON S: 30.83 T: 11.13	
09	VI 01	NET	1340	BE	2	48 49 38	125 11 10		35	30	2			BONGO	
09	VI 01	TRAWL NET	1355	BE	3	48 50 54	125 9 25		60	SURFACE	3			TRAWL	
09	VI 02	CTD	1510	BE	4	48 53 65	125 2 05		151		4	2		DEEP SALIN. S: 29.69 T: 11.79	
	(236 002)		1515	BO	4	48 53 70	125 2 04			150	4			DEEP BOT TRIP	
			1518	EN	4	48 53 73	125 2 03				4			SURFACE BOTTLE	
09	VI 02	NET	1528	BE	5	48 53 86	125 2 78		150	150	5			BONGO	
09	VI 02	TRAWL NET	1540	BE	6	48 55 78	125 2 69		163	SURFACE	6			TRAWL	
09	VI 03	CTD	1711	BE	7	48 57 93	125 6 39		92		7			CTD	
	(236 003)		1714	BO	7	48 57 91	125 6 43			83	7	1		S: 29.25 T: 12.32	
			1715	EN	7	48 57 90	125 6 45				7				
09	VI 03	NET	1721	BE	8	48 57 81	125 6 64		90	85	8			BONGO	
09	VI 03	TRAWL	1746	BE	9	48 56.7	125 8 15		80	SURFACE	9			TRAWL	
09	VI 04	CTD	1830	BE	10	48 55 11	125 11 90		97		10	1		S: 30.335 T: 12.046	
	(236 004)		1832	BO	10	48 55 11	125 11 92			90	10				
			1834	EN	10	48 55 12	125 11 94				10				
	VI 04	NET	1838	BE	11	48 55 12	125 12 05		97	90	11			BONGO	
	VI 04	NET	1920	BE	12	48 54.4	125 13 11		95	SURFACE	12			TRAWL	

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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RE = recover mooring time

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09	LP1	CTD	2050	BE	13	48 48.69	125 22.15		86		13	1		CTD
	(2136-0005)		2052	BO	13	48 48.69	125 22.18			80				S: 31.371 T: 10.880
			2055	EN	13	48 48.68	125 22.23							
		NET	2119	BE	14	48 48.64	125 22.62		86	80	14			BONGO
		TRAWL	2148	BE	15	48 47.8	125 23.6		85	SURFACE	15			TRAWL
	LP2 ✓	CTD	2258	BE	16	48 43 20	125 32 50		97	-	16	1		S: 31.559 T: 10.676
09	(2136-0016) ✓		2300	BO	16	48 43 22	125 32 57			90				
			2303	EN	16	48 43 24	125 32 65							
		NET	2310	BE	17	48 43 23	125 32 66		95	90	17			
		TRAWL	2339	BE	18	48 42.5	125 34.4		79	SURFACE	18			
10	LP3	CTD	0137	BE	19	48 36 22	125 47.34		66		19	1		S: 32.092 T: 11.202
			0139	BO	19	48 36 23	125 47 36			60				Mixed to 17m
			0141	EN	19	48 36 24	125 47 38							
		TRAWL	0104	BE	20	48 37.7	125 44.2		56	SURFACE	20			TRAWL
10	VI 5	CTD	1332	BE	21	49 38.58	126 18 65		283			1		CTD
			1337	BO	21	49 38 65	126 18 66			270	21			S: 26.867 T: 12.253
			1343	EN	21	49 38 68	126 18 55							DEEP SAC @ 270m
		NET	1355	BE	22	49 38 61	126 18 167		283	150	22			BONGO
		TRAWL	1423	BE	23	49 38.84	126 16 03		326	SURFACE	23			TRAWL

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10	VI 6	CTD	1610	BE	24	49 39	27	126 28	51		204		24			S: 29.079 T: 12.213
			1614	BO	24	49 39	27	126 28	52			190		1		PUMPS STARTED @ 10u
			1618	EN	24	49 39	28	126 28	58							
		NET	1627	BE	25	49 39	110	126 28	857		180	150				BONGO
		TRAWL	1650	BE	26	49 37	74	126 29	79		134	SURFACE				TRAWL
10	VI 7	CTD	1741	BE	27	49 35	93	126 35	41		113		27	1		S: 30.338 T: 12.094
			1744	BO	27	49 35	92	126 35	39			100				CTD
			1746	EN	27	49 35	92	126 35	35							
		NET	1754	BE	28	49 36	152	126 35	199		134	130	28			BONGO
		TRAWL	1820	BE	29	49 37	47	126 36	04		148	SURFACE	29			TRAWL
10	VI 8	CTD	2047	BE	30	49 51.	73	126 44.	30		225		30	1		CTD
			2051	BO	30	49 51.	71	126 44.	31			210				S: 29.389 T: 11.992
			2056	EN	30	49 51.	71	126 44.	26							
		NET	2101	BE	31	49 51.	723	126 44.	293		216	150	31			BONGO
		TRAWL	2133	BE	32	49 52.	2	126 45.	0		242	SURFACE	32			TRAWL
	VI 9	CTD	2221	BE	33	49 56.	09	126 48.	31		215		33	1		CTD
			2225	BO	33	49 56	07	126 48	32			200				S: 27.234 T: 12.124
			2229	EN	33	49 56	05	126 48	32							
		NET	2232	BE	34	49 55	988	126 48	302		216	150				BONGO

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10	V1 9	TRAWL	2305	BE	35	49 54.751	126 47.760		207	SURFACE	35			TRAWL
	V1 10	CTD	2350	BE	36	49 52 55	126 49 27		224		36	2		CTD SURFACE BOTTLE
			2355	BO	36	49 52 53	126 49 32			210				S: T:
11			0001	EN	36	49 52 49	126 49 40							BOTTLE @ 210 m
11		NET	0007	BE	37	49 52 442	126 49 533		220	150	37			BONGO (NOTE: NO TPAWL)
11	V1 11	NET	0056	BE	38	49 51 658	126 53 294		212	150	38			BONGO (AT V10)
11	V1 11	TRAWL	0217	BE	39	49 51.52	126 54.83		216	SURFACE	39			TRAWL
11	V1 11	CTD	0206	BE	40	49 51 53	126 53 67		212		40	1		CTD
			0211	BO	40	49 51 54	126 53 68			200	40			S: 30.471 T: 12.194
			0215	EN	40	49 51 56	126 53 68				40			
11	EP 1	CTD	1306	BE	41	49 21 03	126 31 84		32		41			CTD
			1307	BO	41	49 21 02	126 31 83			25	41			S: 30.856 T: 11.339
			1309	EN	41	49 21 01	126 31 82		32		41			(BONGO CANCELLED BRUEN HYDROGRAPH)
		TRAWL	1336	BE	42	49 20 44	126 33 37		45	SURFACE	42			TRAWL
11	EP 2	CTD	1427	BE	43	49 16 75	126 40 85		113					CTD
			1430	BO	43	49 16 75	126 40 90			103				S: 31.866 T: 10.171
			1432	EN	43	49 16 74	126 40 94							
		TRAWL	1448	BE	44	49 16 35	126 42 26		114	SURFACE				TRAWL

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DAY 11 - EPI - HYDRAULICS ON CRANE (OR WINCH?) BROKEN - UNABLE TO DO BONGOS UNTIL
FURTHER NOTICE STATIONS MISSED EPI, EP2, EP3, - FIXED FOR EP4

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11	EP 3	CTD	1557	BC	45	49 12 35	126 49 90		149		45	1		CTD
			1600	BO	45	49 12 32	126 49 91			135	45			S: 31.928 T: 12.545
			1604	EN	45	49 12 29	126 49 96				45			
		TRAWL	1620	BE	46	49 11.984	126 51.392		147	SURFACE	46			TRAWL
11	EP 4	CTD	1729	BC	47	49 08 03	126 59 28		488		47	2		CTD SURFACE SAL
			1739	BO	47	49 08 03	126 59 48			475	47			S: 32.030 T: 12.731
			1751	EN	47	49 08 04	126 59 68				47			+ SAL @ 475
		NET	1757	BC	48	49 08 07	126 59 83		488	150	48			BONGO (HYDRAULICS FIXED)
		TRAWL	1826	BC	49	49 07.98	127 02 08		712	SURFACE	49			TRAWL
11	EP 5	CTD	2004	BC	50	49 02 28	127 10 11		1650		50			CTD
			2025	BO	50	49 02 37	127 09 84			1000	50	2		S: 31.881 T: 12.648
			2044	EN	50	49 02 46	127 09 54				50			
		NET	2056	BE	51	49 02 303	127 09 989		1642	150	51			BONGO TO 150 m
		TRAWL	2125	BE	52	49 02.225	127 10.869		1705	SURFACE	52			TRAWL
12	VI 12	CTD	1258	BC	53	50 08 67	127 17 35		70		53	1		CTD
			1259	BO	53	50 08 66	127 17 33			65	53			S: 25.751 T: 12.396
			1301	EN	53	50 08 65	127 17 31				53			
		NET	1306	BC	54	50 08 56	127 17 16		70	60	54			BONGO
		TRAWL	1330	BC	55	50 07 77	127 16 03		90	SURFACE	55			TRAWL

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12	VI 13	CTD	1428	BE	56	50	05	59	127	15	03		118		56	1		CTD
			1430	BO	56	50	05	57	127	15	03			104				S: 27.914 T: 12.614
			1432	EN	56	50	05	55	127	15	02							
		NET	1436	BE	57	50	05	50.4	127	15	01.1		136	130	57			BONGO
		TRAWL	1505	BE	58	50	04	56	127	15	15		115	SURFACE	58			TRAWL
12	VI 14	CTD	1623	BE	59	50	07	82	127	05	63		109		59	1		CTD
			1625	BE	59	50	07	80	127	05	62			95	59			S: 27.853 T: 12.500
			1628	BE	59	50	07	78	127	05	60				59			
		NET	1631	BE	60	50	07	67.2	127	05	60.8		109	100	60			BONGO
		TRAWL	1704	BE	61	50	06	33	127	07	09		168	SURFACE	61			TRAWL
12	VI 15	CTD	1737	BE	62	50	05	13	127	10	17		207		62	1		CTD
			1741	BO	62	50	05	10	127	10	10			195	62			S: 24.922 T: 12.121
			1745	EN	62	50	05	06	127	09	99				62			
		NET	1748	BE	63	50	05	00.5	127	10	02.3		200	150	63			BONGO
		TRAWL	1820	BE	64	50	04	30	127	11	62		199	SURFACE	64			TRAWL
12	VI 16	CTD	2201	BE	65	49	59	94	127	12	78		251		65	1		CTD
			2206	BO	65	49	59	88	127	12	75			240	65			S: 28.813 T: 12.265
			2211	EN	65	49	59	83	127	12	76				65			
		NET	2222	BE	66	49	59	97.9	127	12	65.2		240	150	66			BONGO

Cast type: BOT = otter cast ROS = Rosette LISW = sea water loop Time Code: BE = beam trawl BO = bottom otter trawl EN = Ekman net

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12	VI 16	TRAWL	2249	BE	67	49 59.3		127 14.1			181	SURFACE	67			TRAWL
13	VI 17	CTD	0036	BE	68	49 58 67		127 15 10		3 RD	149		68			CTD 3 RD
			0039	BO	68	49 58 65		127 15 14		*			68			S: T:
			0042	EN	68	49 58 63		127 15 16		*			68			* NOTE ORDER
13		NET	0023	BE	69	49 58 856		127 14.926		2 ND	144	140	69			BONGO 2 ND
12		TRAWL	2343	BE	70	49 56.9		127 17.26		1 ST	145	SURFACE	70			TRAWL 1 ST
13	VI 18	CTD	1226	BE	71	49 56 03		127 19 49			61		71	1		CTD
			1227	BO	71	49 56 02		127 19 53				55	71			S: 24.995 T: 11.696
			1229	EN	71	49 56 02		127 19 54					71			
		NET	1300	BE	72	49 56 00		127 20 00			60	50	72			BONGO
		TRAWL	1322	BE	73	49 56.23		127 23.48			58	SURFACE	73			TRAWL
13	VI 19	CTD	1437	BE	74	49 58 25		127 34 84			71		74	1		CTD
			1438	BO	74	49 58 26		127 34 85				60	74			S: 31.300 T: 11.284
			1440	EN	74	49 58 27		127 34 85					74			
		NET	1445	BE	75	49 58 284		127 34 890			71	60	75			BONGO
		TRAWL	1509	BE	76	49 58 47		127 36.38			74	SURFACE	76			TRAWL

Cast type:

ROS = otter cast

ROS = Buoys

USW

File

Cast

ROS

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13	VI 20	CTD	1622	BE	77	50 00	79	127 47	73		124		77	1		CTD
			1624	BO	77	50 00	79	127 47	78			110	77			S: 31.424 T: 11.326
			1627	EN	77	50 00	79	127 47	82				77			
		NET	1633	BE	78	50 00	840	127 48	044		131	120	78			BONGO * NOTE OVER
		TRAWL	1701	BE	79	50 01.09		127 50.25			332	SURFACE	79			TRAWL
13	VI 21	CTD	2200	BE	80	50 31	02	128 22	48		150		80	1		CTD 2ND
	2ND ↑		2203	BO	80	50 31	07	128 22	48			140	80			S: 31.869 T: 11.868
			2206	EN	80	50 31	10	128 22	48				80			
													NO			BONGO
	1ST	TRAWL	2110	BE	81	50 28.84		128 17.87			107	SURFACE	81			TRAWL 1ST
13	VI 22	TRAWL	2250	BE	82	50 35.815		128 25.006			102	SURFACE	82			TRAWL
		CTD	2333		83	50 39 00		128 27 21			92		83			CTD
			2335		83	50 39 00		128 27 17				83	83			S: 31.540 T: 11.410
			2338		83	50 39 01		128 27 23					83			
1																
16	RI 05	CTD	1330	BE	84	51 40	61	127 19	79		195		84	1		CTD
			1333	BO	84	51 40	60	127 19	81			105	84			S: 18.755 T: 9.901
			1337	EN	84	51 40	58	127 19	81				84			* RI 05 NAMED SM1
																IN HEADER FILE

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NEEDS TO BE RENAMED *

* - PUT SMALL TEAR IN FLOWMETER SIDE OF BONGO ON RECOVERY (IF AT END OF CAST) REPLACED NET - WILL REPAIR

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16	R105	NET	1400	BE	85	51 40 718	127 19 151		183	150	85			BONGO
		TRAWL	1433	BE	86	51 40 347	127 21 09		229	SURFACE	86			TRAWL
16	R104	CTD	1522	BE	87	51 38 98	127 26 81		297		87		1	CTD
			1528	BO	87	51 38 87	127 26 86			295	87			S: 24.110 T: 9.644
			1532	EN	87	51 38 86	127 26 84				87			
		NET	1539	BE	88	51 38 988	127 26 753		295	150	88			BONGO
		TRAWL	1611	BE	89	51 38 750	127 22 55		302	SURFACE	89			TRAWL
16	R103	CTD	1705	BE	90	51 35 77	127 32 09		326		90	2		CTD DEEP @ 315m
			1711	BE	90	51 35 73	127 32 09			315				S: 23.005 T: 9.802
			1718	BE	90	51 35 68	127 32 09							
		NET	1725	BE	91	51 35 765	127 32 173		326	150	91			BONGO
		TRAWL	1754	BE	92	51 35 28	127 32 19		328	SURFACE	92			TRAWL
16	R102	CTD	1857	BE	93	51 31 22	127 33 78		330		93	1		CTD
			1903	BE	93	51 31 16	127 33 82			320	93			S: 25.651 T: 9.809
			1908	BE	93	51 31 11	127 33 90				93			
		NET	1919	BE	94	51 30 041	127 33 826		325	150	94			BONGO
		TRAWL	2026	BE	95	51 30 543	127 33 793		325	SURFACE	95			TRAWL

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16	Ri 1	CTD	2126	BE	96	51 26 .38	127 38 .12		334		96	1		CTA	
		CTD	2131	BO	96	51 26 .38	127 38 .15			320	96			S:23.224 T:10.119	
			2137	EN	96	51 26 .38	127 38 .16				96				
		NET	2151	BE	97	51 26 .647	127 37.712		330	150	97			BONGO	
		TRAWL	2210	BE	98	51 26.690	127 38.449		293	SURFACE	98			TRAWL	
16	IBC-1	CTD	2303	BE	99	51 25 82	127 45 54		171		99	1		CTD + J OVER	
			2310	BO	99	51 25 76	127 45 59			160	99			S:27.239 T:10.224	
			2312	EN	99	51 25 74	127 45 61				99				
		NET	2318	BE	100	51 25 793	127 45 482		180	150	100			BONGO	
		TRAWL	2347	BE	101	51 25.959	127 45.903		142	SURFACE	101			TRAWL	
17	IBC-2	CTD	0105	BE	102	51 29 94	127 52 28		155		102	1		CTD	
			0108	BO	102	51 29 89	127 52 28			145	102			S:28.603 T:10.387	
			0111	EN	102	51 29 87	127 52 27				102				
		NET	0115	BE	103	51 29.851	127 52 .269		155	145	103			BONGO	
		TRAWL	0145	BE	104	51 30.607	127 52.412		163	SURFACE	104			TRAWL	
17	IBC-3	CTD	1344	BE	105	51 35 79	127 53 36		348		105	1		CTD	
			1351	BO	105	51 35 77	127 53 32			335	105			S:27.355 T:10.101	
			1357	EN	105	51 35 76	127 53 26				105				

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IBC-1

CTD

79

FORGOT TO TAKE STRINGES OFF - HAD TO RETRIEVE CTD & RESURFACE

DIDN'T RESTART WHOLE CAST

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	IBC 3	NET	1401	BE	106	51 35	793	127 53	273		377	150	106			BONGO
1		TRAWL	1433	BE	107	51 36	84	127 54	02		332	SURFACE	107			TRAWL
17	IBC 4	CTD	1607	BE	108	51 47	09	127 58	11		372		108	1		CTD
			1613	BO	108	51 47	13	127 58	06			360	108			S: 27.900 T: 9.941
			1619	EN	108	51 47	18	127 58	01				108			
		NET	1624	BE	109	51 47	321	127 57	936		355	150	109			BONGO
		TRAWL	1652	BE	110	51 48	38	127 57	96		350	SURFACE	110			TRAWL
17	BUR 1	CTD	1802	BE	111	51 54	22	127 57	03		340		111	1		CTD
			1808	BO	111	51 54	26	127 57	03			330	111			S: 27.603 T: 9.666
			1813	EN	111	51 54	28	127 57	03				111			
		NET	1820	BE	112	51 54	180	127 57	026		342	150	112			BONGO
		TRAWL	1907	BE	113	51 54	624	127 56	063		193	SURFACE	113			TRAWL
17	BUR 2	CTD	2039	BE	114	51 58	60	127 40	83		243		114	1		CTD
			2042	BO	114	51 58	66	127 40	86			230	114			S: 27.183 T: 8.654
			2047	EN	114	51 58	65	127 40	90				114			
		NET	2054	BE	115	51 58	466	127 40	967		244	150	115			BONGO
		TRAWL	2155	BE	116	51 59	611	127 40	311		246	SURFACE	116			TRAWL

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18	IBC-5	TRAWL	24 14	BE	117	51 56.062	127 55.795		293	SURFACE	117			TRAWL
18	IBC-6	TRAWL	1 40	BE	118	52 01.512	127 54.885		220	SURFACE	118			TRAWL
18	IBC-6	CTD	0224	BE	119	52 04 21	127 54 36		244		119	1		CTD
			0229	BO	119	52 04 19	127 54 42			230	119			S:24.079 T:10.029
			0234	EN	119	52 04 19	127 54 46				119			
18		NET	0239	BE	120	52 04 104	127 54 532		220	150	120			BONGO
	IBC-5	CTD	0322	BE	121	51 59.86	127 55.40		307		121	2		CTD - SURFACE & 300 m NISHINE
			0329	BO	121	51 59.86	127 55.34			295	121			S:26.728 T:10.217
			0336	EN	121	51 59.84	127 55.30				121			NO BONGO @ IBC-5
18	H-01	CTD	1333	BE	122	52 12.38	129 10.49		158		122	1		CTD
			1335	BO	122	52 12 35	129 10 48			150	122			S:31.377 T:11.293
			1339	EN	122	52 12 32	129 10 45				122			
		NET	1351	BE	123	52 12 044	129 10 542		158	150	123			BONGO
		TRAWL	1421	BE	124	52 12 048	129 11 459		158	SURFACE	124			TRAWL
18	H-02	CTD	1559	BE	125	52 15.60	129 26.18		181		125	1		CTD RINCE to 49m
			1602	BO	125	52 15.59	129 26.20			170	125			S:31.398 T:11.220
			1607	EN	125	52 15.56	129 26.21				125			* OVER
		NET	1610	BE	126	52 15.503	129 26 266		181	150	126			BONGO
		TRAWL	1639	BE	127	52 15.658	129 27.63		189	SURFACE	127			TRAWL

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MISTAKE

* - NO SALM. TAKEN AT H-01 & H-02 - SALM ARE NOT TAKEN ON OFF TRANSECT STA. UNLESS FOR
CALIBRATION (ie VI, BU, IBC.) SALM WILL BE TAKEN ON NECATC (H-03) FORRESTER &
TRIANGLE, DIXON LINES.

4
5
6
7
8

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
18	H-03	CTD	1810	BE	128	52 19 04	129 41 89		212		128	1		CTD
			1814	BO	128	52 19 08	129 41 89			200	129			S: 31.713 T: 11.114
			1819	EN	128	52 19 12	129 41 88				129			
		NET	1822	BE	129	52 19 113	129 41 908		211	150	129			BONGO
		TRAWL	1859	BE	130	52 19.850	129 43.585		210	SURFACE	130			TRAWL
18	H-04	CTD	2025	BE	131	52 22 32	129 57 59		208		131	1		CTD
			2030	BO	131	52 22 35	129 57 63			200	131			S: 31.926 T: 11.141
			2034	EN	131	52 22 37	129 57 60				131			
	*	NET	2039	BE	132	52 22 37	129 57 546	*			132	*		BONGO * NO TOW
		TRAWL	2108	BE	133	52 19.850	129 43 585		222	SURFACE	133			TRAWL
18	H-05	CTD	2244	BE	134	52 25.62	130 13.19		328	2	134	2		CTD
			2251	BO	134	52 25 57	130 13 25			320	134			S: 31.799 T: 10.956
			2258	EN	134	52 25 50	130 13 30				134			1 SURFACE 2ND 320m
		NET	2303	BE	135	52 25 421	130 13 388				135			BONGO
		TRAWL	2331	BE	136	52 25 597	130 14.688		320	SURFACE	136			TRAWL
19	H-07	TRAWL	0205	BO	137	52 30.792	130 40.204		132	SURFACE	137			TRAWL
		CTD	0249	BE	138	52 31 63	130 42 77			125	138	1		CTD + NOTE SALIN TAKEN FROM THERMO SALIN
			0251	BO	138	52 31 57	130 42 76				138			S: 31.293 T: 10.989
			0254	EN	138	52 31 52	130 42 76				138			

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me

im

H-04 - NO BONGO TOW - LOST BOTH SOCKS - NO SAMPLE - PUT NEW NETS & COD END ON - READY FOR H-05

211 m WATER DEPTH - 196 m OUT 41° $\angle$ (TRYING FOR 150 m) SO WHY BOTH NETS WERE GONE
IS ANYBODY'S GUESS - BOTTOM (DOUBT IT) DEAD HEAD OR Kelp BALL?

DAILY LOG

Ocean Sciences and Productivity Division

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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
19	H-07	NET	0302	BE	139	52 31	225	130 42	461		120	110	139			BONGO
19	H-06	CTD	0408	BE	140	52 28	82	130 29	08		170		140	1		CTD
			0411	BO	140	52 28	79	130 29	10			160	140			S: 31.351 T: 10.942
			0414	EN	140	52 28	76	130 29	10				140			
		NET	0432	BE	141	52 28	533	130 29	778		170	150	141			BONGO
19	HS-01	CTD	1324	BE	142	52 58	93	130 02	35		228		142	1		CTD
			1329	BO	142	52 58	89	130 02	38			220	142			S: 31.726 T: 11.109
			1333	EN	142	52 58	86	130 02	42				142			
		NET	1341	BE	143	52 58	787	130 02	722		235	150	143			BONGO
		TRAWL	1415	BE	144	52 59	226	130 03	537		235	SURFACE	144			TRAWL
19	HS-02	CTD	1527	BE	145	53 03	52	130 10	69		212		145	1		CTD * OVER 5
			1531	BO	145	53 03	50	130 10	73			200	145			S: 31.005 T: 10.279
			1535	EN	145	53 03	46	130 10	75				145			
		NET	1540	BE	146	53 03	410	130 11	630		208	150	146			BONGO
		TRAWL	1612	BE	147	53 04	177	130 12	286		208	SURFACE	147			TRAWL
19	HS-03	CTD	1721	BE	148	53 09	65	130 19	21		209		148	1		CTD
			1725	BO	148	53 09	69	130 19	21			200	148			S: 31.349 T: 10.870
			1729	EN	148	53 09	74	130 19	21				143			

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H2 -O2 - PUMPS NOT TURNED ON UNTIL PART WAY THROUGH THE UPGAST - OBVIOUS FROM THE UPGAST PLOT

DAILY LOG

Ocean Sciences and Productivity Division

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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	
19	HS-03	NET	1732	BE	149	53 09 789	130 19 201		213	150	149			BONGO	
		TRAWL	1812	BE	150	53 10 352	130 20 866		213	SURFACE	150			TRAWL	
19	HS-04	CTD	1924	BE	151	53 14 70	130 32 61		155		151	1		CTD	
			1927	BO	151	53 14 69	130 32 64			150	151			S: 31.153 T: 10.730	
			1930	EN	151	53 14 71	130 32 63				151				
		NET	1935	BE	152	53 14 753	130 32 565		157	145	152			BONGO	
		TRAWL	20.00	BE	153	53 15 000	130 33 00		156	SURFACE	153			TRAWL	
19	HS-05	CTD	2113	BE	154	53 22 54	130 37 58		138		154	1		CTD	
			2116	BO	154	53 22 53	130 37 57			133	154			S: 31.151 T: 10.678	
			2118	EN	154	53 22 53	130 37 58				154				
		NET	2124	BE	155	53 22 366	130 37 682		136	125	155			BONGO	
		TRAWL	2151	BE	156	53 22.913	130 38 272		143	SURFACE	156			TRAWL	
19	HS-06	CTD	2304	BE	157	53 30 39	130 42 01		155	145	157	1		CTD	
			2307	BO	157	53 30 40	130 42 02				157			S: 31.375 T: 10.890	
			2310	EN	157	53 30 41	130 42 00				157				
		NET	2314	BE	158	53 30 403	130 41.997				158			BONGO	
		TRAWL	2340	BE	159	53 30.959	130 42 638		179	SURFACE	159			TRAWL	

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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
20	H5-07	TRAWL	0110	BE	160	53 37.274	130 43 069		94	SURFACE	160			TRAWL
		CTD	0154	BE	161	53 38 74	130 40 31		90		161	1		CTD
			0156	BO	161	53 38 70	130 40 31			85	161			S: 31.317 T: 10.061
			0158	EN	161	53 38 65	130 40 31				161			
		NET	0204	BE	162	53 38 424	130 40 426		80	70	162			BONGO
20	DE-01	CTD	1325	BE	163	54 15 75	131 38 82		128		163	1		CTD
			1328	BO	163	54 15 74	131 38 75			120	163			S: 30.879 T: 10.129
			1331	EN	163	54 15 74	131 38 71				163			
		NET	1338	BE	164	54 15 715	131 38 311				164			
		TRAWL	1412	BE	165	54 15 332	131 39 494		117	SURFACE	165			TRAWL
20	DE-02	CTD	1553	BE	166	54 08 21	131 57 39		41	35	166	1		CTD
			1555	BO	166	54 08 21	131 57 38				166			S: 30.961 T: 9.888
			1556	EN	166	54 08 20	131 57 38				166			
		NET	1600	BE	167	54 08 199	131 57 242		41	35	167			BONGO
		TRAWL	1622	BE	168	54 08 613	131 57 712		47	SURFACE	168			TRAWL
20	DE-03	CTD	1739	BE	169	54 08 17	132 11 55		41		169	1		CTD
			1740	BO	169	54 08 16	132 11 51			35	169			S: 29.645 T: 10.042
			1742	EN	169	54 08 16	132 11 49				169			

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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
20	DE-03	NET	1745		170	54 08	166	132 11	284		40	35	170			BONGO
		TRAWL	1807		171	54 08	326	132 11	716		43	SURFACE	171			TRAWL
20	DE-04	CTD	1924	BE	172	54 07	59	132 26	27		47		172	1		CTD
			1925	BO	172	54 07	56	132 26	26			40	172			S: 30.914 T: 10.106
			1926	EN	172	54 07	55	132 26	26				172			
		NET	1930	BE	173	54 07	517	132 26	564		47	40	173			BONGO
		TRAWL	1954	BE	174	54 07	850	132 28	050		48	SURFACE	174			TRAWL
20	DE-05	CTD	2111	BE	175	54 10	61	132 40	29		50		175	1		CTD
			2112	BO	175	54 10	62	132 40	33			40	175			S: 30.795 T: 10.257
			2113	EN	175	54 10	62	132 40	37				175			
		NET	2119	BE	176	54 10	691	132 40	642		50	40	176			BONGO
		TRAWL	2138	BE	177	54 10	879	132 45	591		62	SURFACE	177			TRAWL
20	DE-06	CTD	2240	BE	178	54 13	28	132 54	37		137		178	1		CTD
			2242	BO	178	54 13	31	132 54	41			130	178			S: 30.911 T: 10.002
			2245	EN	179	54 13	33	132 54	44				178			
		NET	2250	BE	179	54 13	384	132 54	535		130	120	179			BONGO
		TRAWL	2315	BE	180	54 14	438	132 55	503		145	SURFACE	180			TRAWL

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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
21	ISEA-01	CTD	1331	BC	181	55 09 41	131 52 01		462		181	1		CTD
			1340	BO	181	55 09 52	131 51 88			450	181			S: 28.602 T: 9.813
			1348	EN	181	55 09 58	131 51 77				181			
		NET	1356	BE	182	55 09 45	131 51 902		463	150	182			BONGO
		TRAWL	1427	BC	183	55 09 867	131 52 749		456	SURFACE	183			TRAWL
21	ISEA-02	CTD	1540	BC	184	55 17 15	131 53 36		415		184	1		CTD
			1547	BO	184	55 17 13	131 53 28			405	184			S: 27.625 T: 9.828
			1555	EN	184	55 17 13	131 53 20				184			
		NET	1559	BC	185	55 17 036	131 53 213		412	150	185			BONGO
		TRAWL	1627	BC	186	55 17 261	131 53 524		419	SURFACE	186			TRAWL
21	ISEA-03	CTD	1746	BC	187	55 25 67	131 55 55		204		187	1		CTD
			1750	BO	187	55 25 69	131 55 52			190	187			S: 27.008 T: 9.845
			1754	EN	187	55 25 70	131 55 51				187			
		NET	1758	BC	188	55 25 630	131 55 550		204	150	188			BONGO
		TRAWL	1837	BC	189	55 26 285	131 56 831		290	SURFACE	189			TRAWL
21	ISEA-04	CTD	1932	BC	190	55 31 79	132 06 55		489		190	2		CTD + SURFACE 430m SOLEN.
			1941	BO	190	55 31 85	132 06 59			480	190			S: 25.591 T: 9.693
			1951	EN	190	55 31 88	132 06 57				190			

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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
21	ISEA-04	NET	1957	BE	191	55 31 877	132 06 546		486	150	191			BONGO
		TRAWL	2022	BE	192	55 32 234	132 07 615		424	SURFACE	192			TRAWL
21	ISEA-05	CTD	2127	BE	193	55 38.83	132 14.71		424		193	1		CTD
			2134	BO	193	55 38 86	132 14 64			415	193			S:26.372 T: 9.746
			2140	EN	193	55 38 89	132 14 61				193			
		NET	2147	BE	194	55 38 818	132 14 522		386	150	194			BONGO
		TRAWL	2217	BE	195	55. 39 88	132 15 06		393	SURFACE	195			TRAWL
21	ISEA-06	CTD	2330	BE	196	55 48 41	132 22 36		694		196	1		CTD
			2339	BO	196	55 48 43	132 22 29			500	196			S: 28.101 T: 9.714
			2348	EN	196	55 48 40	132 22 24				196			
		NET	2354	BE	197	55 48 272	132 22 043		688	150	197			BONGO
		TRAWL	0022	BE	198	55 48 853	132 22 721		457	SURFACE	198			TRAWL
22	ISEA-07	TRAWL	0129	BE	199	55 55.002	132 28.322			SURFACE	199			TRAWL
		CTD	0211	BE	200	55 58 12	132 30 28		258		200			CTD
			0216	BO	200	55 58 12	132 30 28			250	200			S: 27.951 T: 9.647
			0220	EN	200	55 58 11	132 30 25				200			
		NET	0224	BE	201	55 58 163	132 30 359		260	150	201			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
22	ISEA-08	CTD	1348	BE	202	55	59 30	132	40 55		334		202	1		CTD
			1354	BO	202	55	59 34	132	40 54			325	202			S: 28.417 T: 9.669
			1400	EN	202	55	59 38	132	40 55				202			
		NET	1404	BE	203	55	59 408	132	40 446		347	150	203			BONGO
		TRAWL	1433	BE	204	56	00.001	132	40 391		242	SURFACE	204			TRAWL
22	ISEA-09	CTD	1605	BE	205	56	11 26	132	46 40		313		205	1		CTD
			1611	BO	205	56	11 35	132	46 36			300	205			S: 27.706 T: 9.499
			1617	EN	205	56	11 41	132	46 37				205			
		NET	1621	BE	206	56	11 563	132	46 303			150	206			BONGO
		TRAWL	1652	BE	207	56	12.476	132	45 478		285	SURFACE	207			TRAWL
22	ISEA-10	CTD	1810	BE	208	56	19 68	132	35 79		289		208	1		CTD
			1816	BO	208	56	19 72	132	35 80			200	208			S: 28.204 T: 9.271
			1821	EN	208	56	19 73	132	35 86				208			
		NET	1826	BE	209	56	19 692	132	36 008		289	150	209			BONGO
		TRAWL	1855	BE	210	56	19 988	132	35 965		283	SURFACE	210			TRAWL
22	ISEA-11	CTD	2017	BE	211	56	29 03	132	41 16		122	110	211	1		CTD
			2019	BO	211	56	29 03	132	41 16				211			S: 23.712 T: 8.154
			2021	EN	211	56	29 03	132	41 14				211			

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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	
22	ISEA-11	NET	2024	BC	212	56 29 070	132 41 143		130	120	212			BONGO	
		TRAWL	2051	BC	213	56 29 102	132 42 811		110	SURFACE	213			TRAWL	
22	ISEA-12	CTD	2213	BC	214	56 27 63	133 00 44				214	1		CTD	
			2215	BO	214	56 27 62	133 00 48		126		214			S: 27.324 T: 9.824	
			2218	EN	214	56 27 63	133 00 49			120	214				
		NET	2222	BC	215	56 27 697	133 00 410				215			BONGO	
		TRAWL	2256	BC	216	56 27 152	133 01 049		124	SURFACE	216			TRAWL	
23	ISEA-13	TRAWL	0034	BC	217	56 21 789	133 18 192		281	SURFACE	217			TRAWL	
		CTD	0145	BC	218	56 21 22	133 29 06		204		218			CTD	
			0149	BO	218	56 21 22	133 29 16			195	218			S: 30.393 T: 9.279	
			0152	EN	218	56 21 22	133 29 25				218				
		NET	0155	BC	219	56 21 240	133 29 435		237	150	219			BONGO	
23	ISEA-14	CTD	1323	BC	220	56 19 96	133 47 54		330		220	1		CTD	
			1330	BO	220	56 19 96	133 47 63			320	220			S: 30.239 T: 8.218	
			1336	EN	220	56 19 95	133 47 68				220				
		NET	1340	BC	221	56 19 870	133 47 625		340	150	221			BONGO	
		TRAWL	1414	BC	222	56 19 381	133 47 792		344	SURFACE	222			TRAWL	

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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
23	156A-15	CTD	1538	BC	223	56 09 69	133 47 92		303		223	1		CTD
			1544	BO	223	56 09 61	133 47 97			290	223			S:30.593 T: 8.073
			1549	EN	223	56 09 53	133 48 00				223			
		NET	1554	BC	224	56 09 403	133 48 076		260	150	224			BONGO
		TRAWL	1630	BC	225	56 08.285	133 48 374		279	SURFACE	225			TRAWL
23	B2 (2ND)	CTD	2313	BC	226	56 15 10	135 00 81		136		226	1		CTD (2ND)
			2316	BO	226	56 15 12	135 00 77			125	226			S:31.224 T: 9.221
			2319	EN	226	56 15 14	135 00 72				226			
	(1ST)	TRAWL	2229	BC	227	56 14 860	134 56 391		158	SURFACE	227			TRAWL (1ST)
	(3RD)	BONGO	2323	BC	228	56 15 132	135 00 464		145	135	228			BONGO (3RD)
24	B3	CTD		BC	229	CANCELLED ROUGH TO					229	1		CTD
				BO	229						229			S:31.379 T: 9.685
				EN	229						229			
		NET	0130	BC	230	56 12 624	135 14 077			150	230			BONGO
		TRAWL	0020	BC	231	56 13 036	135 07.283		174	SURFACE	231			TRAWL

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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
24	B 4	TRAWL		BC	232	56	11.372	135	17.089		239	SURFACE	232			TRAWL
		CTD	0243	BC	233	56	09 42	135	20 47		295		233	1		CTD
			0253	BO	233	56	09 37	135	20 41			205	233			S: 32.069 T: 9.620
			0258	EN	233	56	09 35	135	20 31				233			
		NET	0305	BC	234	56	09 160	135	20 431		300	150	234			BONGO
24	B 11	CTD	1201	BC	235	55	44 44	136	16 28				235	2		CTD 1 SURFACE 2 1000m
			1227	BO	235	55	43 99	136	16 24		>2200		235			S: 32.180 T: 8.816
			1247	EN	235	55	43 72	136	16 22			1000	235			
		NET	1334	BC	236	55	43 170	136	18 626		>2200	150	236			BONGO
		TRAWL	1420	BC	237	55	44.311	136	17.859			SURFACE	237			TRAWL
24	B 10	CTD	1544	BC	238	55	49 31	136	05 07		>2000		238	1		CTD 31.768 9.223
			1553	BO	238	55	49 30	136	05 09			500	238		* OVER	S: 32.190 T: 8.818
			1602	EN	238	55	49 32	136	05 08				238			
		NET	1612	BC	239	55	49 149	136	05 400		>2000	150	239			BONGO
		TRAWL	1641	BC	240	55	49 474	136	05 634			SURFACE	240			TRAWL
24	B 9	CTD	1758	BC	241	55	54 00	135	52 03		>2000		241	1		CTD
			1807	BO	241	55	53 97	135	52 65			500	241			S: 32.190 T: 8.818
			1816	EN	241	55	53 91	135	52 57				241			S: 32.170 T: 9.180

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0529:20
34:20

* - THERMOSALINOGRAPH SALINITY SAMPLE TAKEN @ B-10 55 49 30 - 136 05 09 1555 UTC

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	
24	B 9	TRAWL	18:31	BE	242	55 54.471	135 51.730		2177	SURFACE	242			TRAWL	
		NET	19:30	BE	243	55 54.471	135 51.730		2170	150	243			NET	
24	B 8	CTD	20:11	BE	244	55 58.78	135 41.36		1205	500	244	1		CTD	
			20:21	BO	244	55 58.70	135 41.46				244			S: 32.305 T: 8.774	
			20:31	EM	244	55 58.65	135 41.44				244				
24	B 7	NET	20:39	BE	245	55 58.476	135 41.794			150	245			BONGO	
24		TRAWL	21:07	BE	246	55 58.611	135 41.513		1237	SURFACE	246			TRAWL	
24	B 7	CTD	22:02	BE	247	56 01 46	135 34 49		870		247	1		CTD	
			22:11	BO	247	56 01 47	135 34 56			500	247			S: 31.899 T: 9.266	
			22:19	EN	247	56 01 44	135 34 68				247				
		NET	22:24	BE	248	56 01 39.3	135 34 90.8		890	150	248			BONGO	
		TRAWL	22:52	BE	249	56 01 60.2	135 34.866		822	SURFACE	249			TRAWL	
24	B 6	CTD	23:44	BE	250	56 04 21	135 28 15		494		250			CTD	
			23:49	BO	250	56 04 18	135 28 14			300 *	250			S: 32.27 T: 9.42	
			23:55	EM	250	56 04 13	135 28 15				250		*	Too Rough	
		NET		BE	CANCELLED					150		CANCELLED		BONGO	
		TRAWL		BE	251	CANCELLED					SURFACE	251	"	"	TRAWL

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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
25	SEA 1	CTD	13 27	BE	252	56 09	27	134 42	47		125		252	1		CTD
		CTD	13 30	BO	252	56 09	30	134 42	35			115	252			S: 31.070 T: 8.929
		CTD	13 34	EN	252	56 09	32	134 42	26				252			
		NET	13 39	BE	253	56 09	210	134 42	849		120	100	253			BONGO
25	SEA 2	TRAWL	1410	BE	254	56 09	417	134 42	317		120	SURFACE	254			TRAWL
		CTD	15 17	BE	255	56 12	89	134 48	75		131		255	1		CTD
			15 20	BO	255	56 12	88	134 48	66			120	255			S: 31.269 T: 9.091
			15 23	EN	255	56 12	88	134 48	62				255			NO BONGO
		TRAWL	15 35	BE	256	56 13	034	134 49	378		140	SURFACE	256			TRAWL
25	B-1	CTD	16 58	BE	257	56 17	82	134 54	40		88	75	257	1		CTD
			17 01	BO	257	56 17	78	134 54	40				257			S: 32.215 T: 8.909
			17 03	EN	257	56 17	75	134 54	39				257			
		NET	17 07	BE	258	56 17	75	134 54	39		80	50	258			BONGO
		TRAWL	17 29	BE	259	56 17	759	134 56	11-8		143	SURFACE	259			TRAWL
25	B3	CTD	19 12	BE	260	56 12	35	135 08	30		183		260	1		CTD
			19 16	BO	260	56 12	41	135 08	27			175	260			S: 31.179 T: 8.974
			19 19	EN	260	56 12	45	135 08	26				260			

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DAILY LOG

CRUISE
NUMBER

2001-36

2 of 2

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

OCT 8/01 - NOV 6/01

VESSEL

WE RICKER

PROJECT

HIGH SEAS SALMON

Captain: DAVE WESLEY First Officer: GARY

Second Officer: KEVIN

~~Third Officer:~~ AL

~~RESTING~~

Mission Participants / Agencies:

Scientific Personnel: **Party Chief:** JOHN MORRIS

[illegible]

Second leg of Mission: Party Chief:		
Name	Watch Cabin	Watch Cabin

[illegible]

Data logging computer: AS 9000

Data acquisition program: SEASAVE WIN 32 V5.2

CTD deck unit make: SEA-BIRD model: 911+ serial number: 0471

Primary CTD

Make: SEA-BIAG model: 911 serial number: 0506

Primary temperature sensor serial number: 2095 Calibration date: _____

Primary conductivity sensor serial number: 2278 Calibration date: _____

Secondary temperature sensor serial number: 2710 Calibration date: _____

Secondary conductivity sensor serial number: 2280 Calibration date: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

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: _____

DAILY LOG

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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
25	B5	CTD	2034	BE	261	56	06 80	135	21 73		310		261	1		CTD - mixed to 60m
			2039	BO	261	56	06 83	135	21 68			300	261			S: 32.135 T: 9.419
			2044	EN	261	56	06 86	135	21 63				261			
		NET	2050	BE	262	56	07 021	135	21 439		312	150	262			BONGO
		TRAWL	2117	BE	263	56	07 485	135	22 557		304	SURFACE	263			TRAWL
25	B6	TRAWL	2227	BO	264	56	04 432	135	29 489		379	SURFACE	264			TRAWL
		NET	2310	BE	265	51	04 46	135	24 825		323	150	265			BONGO
26	SEA 3	TRAWL	0158	BE	266	56	11 588	134	47 419		135	SURFACE	266			TRAWL
		CTD	0246	BE	267	56	09 31	134	43 42		108		267	1		CTD
			0248	BO	267	56	09 32	134	43 38			100	267			S: 31.080 T: 8.841
			0251	EN	267	56	09 30	134	43 36				267			
26	ISEA 16	CTD	1330	BE	268	57	09 63	134	44 62		621		268	1		CTD
			1340	BO	268	57	09 74	134	44 76			500	268			S: 29.824 T: 7.924
			1348	EN	268	57	09 73	134	44 83		611		268			
		NET	1356	BE	269	57	09 896	134	44 875		616	150	269			BONGO
		TRAWL	1426	BE	270	57	11.068	134	44 971		611	SURFACE	270			TRAWL
26	ISEA 17	CTD	1537	BE	271	57	17 31	134	45 89		400		271	1		CTD
			1544	BO	271	57	17 34	134	46 01			390	271			S: 29.277 T: 7.862
			1551	EN	271	57	17 40	134	4 07				271			

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
26	ISEA-17	NET	1556	BE	272	57 17 477	134 46 064		396	150	272			BONGO
		TRAWL	1624	BE	273	57 18.387	134 45 922		600	SURFACE	273			TRAWL
26	ISEA-18	CTD	1739	BE	274	57 25 19	134 47 38		431		274	1		CTD
			1747	BO	274	57 25 14	134 47 49			420	274			S: 29.318 T: 7.621
			1754	EN	274	57 25 10	134 47 59				274			
		NET	1759	BE	275	57 25 262	134 47 604			150	275			BONGO
		TRAWL	1826	BE	276	57 26 201	134 47 196		342	SURFACE	276			TRAWL
26	ISEA 19	CTD	1947	BE	277	57 32 80	134 46 50		600		277	2		CTD 1 SURFACE 2 500m
			1958	BO	277	57 32 73	134 46 50			500	277			S: 29.098 T: 7.702
			2008	EN	277	57 32 71	134 46 55				277			
		NET	2012	BE	278	57 32 671	134 46 500		608	150	278			BONGO
		TRAWL	2038	BE	279	57 33 314	134 46 888		525	SURFACE	279			TRAWL
26	ISEA 20	CTD	2156	BE	280	57 39 86	134 51 14		605		280	1		CTD
			2204	BO	280	57 39 82	134 51 21			500	280			S: 28.455 T: 7.471
			2213	EN	280	57 39 79	134 51 28				280			
		NET	2216	BE	281	57 39 795	134 51 326		605	150	281			BONGO
		TRAWL	2240	BE	282	57 40.5	134 51 782		568	SURFACE	282			TRAWL

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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
26	15GA 21	CTD	2356	BO	283	57 47 30	134 54 39		420		283	1		CTD
27			0004	BO	283	57 47 28	134 54 50			410	283			S: 28.659 T: 7.503
			0011	EN	283	57 47 28	134 54 64				283			
		NET	0014	BE	284	57 47 322	134 54 683			150	284			BONGO
		TRAWL	0041	BE	285	57 47.982	134 54 413		501	SURFACE	285			TRAWL
27	15GA 22	TRAWL	0202	BE	286	57 55.022	134 53.388		466	SURFACE	286			TRAWL 1 ST
	3 RD	CTD	0306	BE	287	57 57 63	134 53 08		462		287	1		CTD 3 RD
			0314	BO	287	57 57 60	134 53 14			450	287			S: 28.407 T: 7.249
			0323	EN	287	57 57 56	134 53 20				287			
	2 ND	NET	0247	BE	288	57 57 397	134 53 082		473	150	288			BONGO 2 ND
27	15GA 23	CTD	1328	BE	289	58 02 31	134 53 14		596		289	1		CTD * 2
			1343	BO	289	58 02 18	134 53 77			500	289			S: 28.079 T: 7.355
			1351	EN	289	58 02 14	134 53 58				289			
		NET	1359	BE	290	58 02	134 53		674	150	290			BONGO
		TRAWL	1429.	BE	291	58 01.601	134 52.993		578	SURFACE	291			TRAWL
27	15GA 24	CTD	1544	BE	292	58 05 07	135 03 70		406		292	1		CTD
		CTD	1551	BO	292	58 05 93	135 03 89			400	292			S: 27.616 T: 7.217
		CTD	1558	EN	292	58 06 00	135 04 09				292			

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OCT 27 156A 23 - STOPPED CTD @ 62m TO REPOSITION SHIP THEN CONTINUED CAST FROM 62m ON DOWN

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
27	ISEA 24	NET	1603	BC	293	58 06 127	135 04 133		40	150	293			BONGO
		TRAWL	1630	BC	294	58 06 879	135 06 109		433	SURFACE	294			TRAWL
27	ISEA 25	CTD	1900	BC	295	58 14 18	135 36 32		105		295	1		CTD 2 nd
	2 nd		1902	BO	295	58 14 99	135 36 33			100	295			S: 28.371 T: 7.139 -
			1904	EN	295	58 15 01	135 36 40				295			
	3 rd	NET	1908	BC	296	58 15 067	135 36 610		105	95	296			BONGO 3 rd
	1 st	TRAWL	1817	BE	297	58 13 826	135 29 507		162	SURFACE	297			TRAWL 1 st
27	ISEA 26	CTD	2005	BE	298	58 17 68	135 51 73		70		298	1		CTD
			2007	BO	298	58 17 67	135 51 81			60	298			S: 28.185 T: 7.035
			2008	EN	298	58 17 67	135 51 87				298			
		NET	2013	BE	299	58 17 682	135 52 020				299			BONGO
		TRAWL	2034	BE	300	58 16.956	135 53 753			SURFACE	300			TRAWL
27	ISEA 27	CTD	2338	BC	301	58 17 96	135 27 58		149		301	1		CTD *
			2340	BO	301	58 17 97	135 27 55			140	301			S: 27.393 T: 7.109
			2343	EN	301	58 17 97	135 27 54				301			
		NET	2347	BE	302	58 17 938	135 27 382		150	140	302			BONGO
		TRAWL	00.10	BE	303	58 17 324	135 25 703			SURFACE	303			TRAWL

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* - ISEA 27 - PUMPS NOT TURNED ON - UPEAST NO GOOD

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
28	ISEA 28	CTD	0112	BE	304	58 08 85	134 59 46		320		304	1		CTD * 320
* 28	320		0117	BO	304	58 08 82	134 59 48			310	304			S: 27.202 T: 7.145
6:12	CLOCKS CHANGED BACK		0122	EN	304	58 08 76	134 59 47				304			
(12:50)	2nd	NET	0153	BE	305	58 08 785	134 58 003		531	150	305			BONGO 2nd
	1st	TRAWL	0612	BE	306	58 09 008	135 03 231		187	SURFACE	306			TRAWL 1st
28	ISEA 29	CTD	1128	BE	307	58 16 42	134 06 26		114		307	1		CTD
			1131	BO	307	58 16 45	134 06 28			100	307			S: 24.321 T: 5.876
			1134	EN	307	58 16 47	134 06 30				307			
		NET	1137	BE	308	58 16 514	134 06 298		108	95	308			BONGO
		TRAWL	1212	BE	309	58 15 363	134 05 556		130	SURFACE	309			TRAWL
28	ISEA 30	CTD	1342	BE	310	58 04 91	134 05 16		225	215	310	1		CTD *
		*	1346	BO	310	58 04 92	134 05 20				310			S: 26.929 T: 6.713
			1351	EN	310	58 04 93	134 05 24				310			
		NET	1355	BE	311	58 05 076	134 05 259			150	311			BONGO
		TRAWL	1420	BE	312	58 04 585	134 05 264			SURFACE	312			TRAWL
28	ISEA 31	CTD	1538	BE	313	57 58 35	133 56 83		299		313	1		CTD
			1544	BO	313	57 58 36	133 56 81			290	313			S: 24.530 T: 5.890
			1549	EN	313	57 58 38	133 56 83				313			

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MR = messenger release time
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OCT 27/28

* BEFORE 1500 Z0 CTD CAST - COMPUTER UPDATED CLOCK FOR DAYLIGHT SAVINGS TIME - SET INT. CLOCKS
BACK 1 HR

* HEADER TIME SEEMS TO BE OFF BY 3 HRS - AHEAD 2HRS INSTEAD OF BACK 1 HR ?

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	
28	ISEA 31	NET	1556	BE	314	57 58 314	133 56 771		300	150	314			BONGO	
		TRAWL	1617	BE	315	57 57 621	133 55 976		299	SURFACE	315			TRAWL	
28	ISEA 31	CTD	1724	BE	316	57 50 79	133 51 13		334		316	1		CTD	
	(32)		1730	BO	316	57 50 82	133 51 20			325	316			S: 26.731 T: 6.460	
			1736	EN	316	57 50 82	133 51 22				316				
		NET	1740	BE	317	57 50 854	133 51 342		334	150	317			BONGO	
		TRAWL	1803	BE	318	57 50 419	133 51 075		333	SURFACE	318			TRAWL	
28	ISEA 32	CTD	1914	BE	319	57 44 22	133 43 03		285		319	1		CTD	
	(33)		1920	BO	319	57 44 19	133 43 14			275	319			S: 26.771 T: 6.388	
			1925	EN	319	57 44 16	133 43 24				319				
		NET	1929	BE	320	57 44 025	133 43 291				320			BONGO	
		TRAWL	1956	BE	321	57 42 628	133 43 318		287	SURFACE	321			TRAWL	
28	ISEA 33	CTD	2119	BE	322	57 34 19	133 39 64		362		322	2		CTD 1- SURFACE 2- 350 m (*)	
	(34)		2126	BO	322	57 34 22	133 39 75			350	322			S: 28.122 T: 6.798	
			2133	EN	322	57 34 21	133 39 87				322				
		NET	2139	BE	323	57 34 312	133 40 037				323			BONGO	
		TRAWL	2203	BE	324	57 33 734	133 40 130		362	SURFACE	324			TRAWL	

Cast type:

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Time Code

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BO = bottom time of cast
EN = end of cast time

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

HEADER TIME WRONG - COMPUTER CLOCK CORRECT - UTC CLOCK LOOKS CORRECT - DON'T KNOW WHERE HEADER IS GETTING
IT'S TIME FROM ?

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		
29	ISEA 34	CTD	00 43	BE	325	57 20 90	133 34 39		171		325	1		CTD		
	(35)		00 47	BO	325	57 20 89	133 34 36			160	325					
			00 50	EN	325	57 20 91	133 34 35				325			S: 28.611 T: 6.907		
		NET		BE	326	BONGO	CANCELLED				326					
		TRAWL	23 53	BE	327	57 23.047	133 34.005		180	SURFACE	327			BONGO		
29	ISEA 35	CTD	11 24	BE	328	57 03 35	133 04 52		132		328	1		CTD		
	(*) (36)		11 27	BO	328	57 03 35	133 04 48			125	328					
			11 30	EN	328	57 03 35	133 04 42				328			S: 28.870 T: 6.978		
		NET	11 36	BE	329	57 03 239	133 04 242		130	120	329					
		TRAWL	12 11	BE	330	57 03 021	133 05 353		144	SURFACE	330			BONGO		
29	ISEA 37	CTD	13 18	BE	331	57 05 43	133 19 39		167		331	1		CTD		
			13 22	BO	331	57 05 46	133 19 41			160	331			S: 29.834 T: 7.432		
			13 25	EN	331	57 05 48	133 19 44				331					
		NET	13 29	BE	332	57 05 448	133 19 507		167	150	332					
		TRAWL	13 56	BE	333	57 05.478	133 20.273		179	SURFACE	333			BONGO		
29	ISEA 38	CTD	15 09	BE	334	57 09 58	133 33 33		154		334	1		CTD		
			15 12	BO	334	57 09 60	133 33 32			145	334					
			15 15	EN	334	57 09 63	133 33 29				334			S: 29.974 T: 7.398		

Cast type:

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Time Code

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DE = deployment time

Cast type:

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ISCA 35 IS ACTUALLY ISCA 36 - HAVE TWO ISCA 32's 1. 32B = 33 33 = 34 34 = 35 35 = 36
WILL HAVE TO BE RENAMED IN THE HEADER FILES - FIXED

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
29	156A 38	NET	15 19	BE	335	57 09	633	133 33	213		149	135	335			BONGO
		TRAWL	15 42	BE	336	57 09	332	133 34	616		246	SURFACE	336			TRAWL
29	156A 39	CTD	17 10	BE	337	57 09	85	133 51	90		273		337	1		CTD
			17 14	BO	337	57 09	87	133 51	84			265	337			S: 29.365 T: 7.114
			17 19	EN	337	57 09	86	133 51	78				337			
		NET	17 22	BE	338	57 09	850	133 51	715		282	150	338			BONGO
		TRAWL	17 48	BE	339	57 09	556	133 53	056		149	SURFACE	339			TRAWL
29	156A 40	CTD	19 06	BE	340	57 05	59	134 04	58		363		340	1		CTD
			19 12	BO	340	57 05	56	134 04	52			350	340			S: 29.989 T: 7.259
			19 19	EN	340	57 05	53	134 04	55				340			
		NET	19 22	BE	341	57 05	503	134 04	605		363	150	341			BONGO
		TRAWL	19 46	BE	342	57 04	761	134 05	724		361	SURFACE	342			TRAWL
29	156A 41	CTD	21 00	BE	343	56 59	31	134 15	21		346		343	1		CTD
			21 05	BO	343	56 59	36	134 15	17			335	343			S: 30.104 T: 7.462
			21 12	EN	343	56 59	44	134 15	18				343			
		NET	21 16	BE	344	56 59	492	134 15	439		335	150	344			BONGO
		TRAWL	21 39	BE	345	56 58	741	134 17	012		328	SURFACE	345			TRAWL

Cast type:

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Time Code

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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
29	ISEA 42	CTD	2315	BE	346	56 51	66	134 32	54		673		346	2		CTD 1 st
			2323	BO	346	56 51	66	134 32	44			500	346			S: 29.865 T: 7.588
			2334	EN	346	56 51	63	134 32	32				346			DecP @ 300
30		NET	0044	BE	347	56 49	371	134 28	499		650	150	347			BONGO 3 rd
		TRAWL	2349	BE	348	56 51	432	134 31	384		436	SURFACE	348			TRAWL 2 nd
30	ISEA 43	CTD	1125	BE	349	56 24	55	134 22	84		423		349	1		CTD
			1134	BO	349	56 24	64	134 22	74			415	349			S: 30.932 T: 7.718
			1142	EN	349	56 24	69	134 22	69				349			
		NET	1150	BE	350	56 24	813	134 22	310			150	350			BONGO
		TRAWL	1216	BE	351	56 24	228	134 22	108		382	SURFACE	351			TRAWL
30	ISEA 44	CTD	1347	BE	352	56 15	28	134 20	83		205		352	1		CTD
			1351	BO	352	56 15	34	134 20	78			200	352			S: 31.096 T: 8.827
			1355	EN	352	56 15	38	134 20	76				352			
		NET	1359	BE	353	56 15	586	134 20	852		220	150	353			BONGO
		TRAWL	1425	BE	354	56 15	321	134 21	302		330	SURFACE	344			TRAWL
30	SEA-4	CTD	1553	BE	355	56 06	77	134 18	95		109		355			CTD
			1556	BO	355	56 06	87	134 18	94			100	355			S: 30.656 T: 7.983
			1559	EN	355	56 06	92	134 18	93				355			

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
30	SEA 4	NET	1603	BE	356	56 06 889	134 18 911		105	90	356			BONGO
		TRAWL	1625	BE	357	56 06 283	134 19 522.		180.	SURFACE	357			TRAWL
1	IBC 7	CTD	1146	BE	358	53 36 83	129 12 62		310		358	1		CTD
			1152	BO	358	53 36 89	129 12 54			300	358			S: 18.05 T: 6.92
			1157	EN	358	53 36 93	129 12 51				358			
		NET	1201	BE	359	53 37 038	129 12 392		315	150	359			BONGO
		TRAWL	1242	BE	360	53 35 701	129 12 917.		242	SURFACE	360			TRAWL
1	IBC 8	CTD	1400	BE	361	53 28 32	129 12 46		378		361	1		CTD
			1407	BO	361	53 28 31	129 12 33			370	361			S: 19.25 T: 7.01
			1413	EN	361	53 28 31	129 12 31				361			
		NET	1417	BE	362	53 28 24	129 12 291			150	362			BONGO
		TRAWL	1446	BE	363	53 27.413	129 12.468		393	SURFACE	363			TRAWL
1	IBC 9	CTD	1554	BE	364	53 21 20	129 12 06		439		364	2		CTD 1 SURFACE 2 430 m
			1603	BO	364	53 21 18	129 11 94			430	364			S: 23.94 T: 7.65
			1612	EN	364	53 21 20	129 11 80				364			
		NET	1619	BE	365	53 21 176	129 11 616		433	150	365			BONGO
		TRAWL	1644	BE	366	53 20 434	129 10.783		430	SURFACE	366			TRAWL

Cast type:

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09 45
07

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
1	IBC 10	CTD	1752	BE	367	53 13	86	129 07	96		535		367	1		CTD
			1801	BO	367	53 13	86	129 07	98			500	367			S: 23.85 T: 7.64
			1810	EN	367	53 13	88	129 07	96				367			
		NET	1813	BE	368	53 13	88	129 07	95			150	368			BONGO
		TRAWL	1838	BE	369	53 13	057	129 07	684		538	SURFACE	369			TRAWL
1	IBC 11	CTD	2013	BE	370	53 05	59	129 11	66		306		370	1		CTD
	✱		2018	BO	370	53 05	56	129 11	60			300	370			S: 25.45 T: 8.23
			2024	EN	370	53 05	55	129 11	59				370			
		NET	2028	BE	371	53 05	49	129 11	71		243	150	371			BONGO
		TRAWL	2055	BE	372	53 04	917	129 13	288		324	SURFACE	372			TRAWL
1	IBC 12	CTD	2157	BE	373	52 59	82	129 17	12		316		373	1		CTD
			2202	BO	373	52 59	72	129 17	12			325	373			S: 29.31 T: 9.26
			2207	EN	373	52 59	67	129 17	11				373			
		NET	2211	BE	374	52 59	55	129 17	08				374			BONGO
		TRAWL	2239	BE	375	52 58	090	129 16	990		244	SURFACE	375			
2	IBC 13	CTD	0033	BE	376	52 53	89	129 24	05		251		376			CTD 3RD ✱
			0037	BO	376	52 53	81	129 24	06			240	376			S: 29.91 T: 9.26
			0042	EN	376	52 53	79	129 24	10				376			

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* PUMPS NOT ON - WOULD NOT TURN ON ?

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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
2	IBC 13	NET	0013	BC	377	52 54 41	129 23 75		248	150	377			BONGO 2 nd
1		TRAWL	2330	BC	378	52 55 016	129 19 157		236	SURFACE	378			TRAWL 1 st
2	IBC 14	CTD	11 27	BC	379	52 48 09	128 26 08		518		379	1		CTD
			11 36	BO	379	52 48 04	128 25 98			500	379			S: 26.88 T: 7.90
			11 45	EN	379	52 47 97	128 25 91				379			
		NET	11 50	BC	380	52 47 36	128 25 97		545	150	380			BONGO
		TRAWL	1217	BC	381	52 47 155	128 26 012		648	SURFACE	381			TRAWL
2	IBC 15	CTD	1319	BC	382	52 41 90	128 28 06		514		382	2		CTD 1. SURFACE 2. 500 m
			13 28	BO	382	52 41 84	128 28 03			500	382			S: 28.13 T: 8.18
			13 39	EN	382	52 41 79	128 27 98				382			
		NET	1348	BC	383	52 41 55	128 28 04			150	383			BONGO
		TRAWL	1411	BC	384	52 40 715	128 28 48		574	SURFACE	384			TRAWL
2	IBC 16	CTD	1519	BC	385	52 34 38	128 29 14		517		385	1		CTD
			15 25	BO	385	52 34 44	128 29 05			500	385			S: 28.58 T: 8.15
			15 34	EN	385	52 34 52	128 29 00				385			
		NET	15 37	BC	386	52 34 49	128 28 88		558	150	386			BONGO
		TRAWL	1601	BC	387	52 33 699	128 28 744		535	SURFACE	387			TRAWL

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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
2	IBC 17	CTD	1701	BC	388	52	28 23	128	27 18		245		388	1		CTD
			1705	BO	388	52	28 21	128	27 10			235	388			S: 28.54 T: 8.78
			1709	EM	388	52	28 21	128	27 00				388			
		NET	1713	BE	389	52	28 22	128	26 95		406	150	389			BONGO
		TRAWL	1732	BC	390	52	27 49.4	128	27 36.7		288	SURFACE	390			TRAWL
2	IBC 18	CTD	1852	BC	391	52	21 33	128	33 29		241		391	1		CTD
			1857	BO	391	52	21 29	128	33 26			230	391			S: 28.52 T: 8.59
			1902	EM	391	52	21 27	128	33 22				391			
		NET	1906	BC	392	52	21 19	128	33 31		241	150	392			BONGO
		TRAWL	1930	BC	393	52	20 25.2	128	33 43.8		272	SURFACE	393			TRAWL
2	IBC 19	CTD	2103	BC	394	52	15 28	128	22 95		309		394	1		CTD
			2110	BO	394	52	15 27	128	22 96			300	394			S: 27.27 T: 9.02
			2115	EM	394	52	15 30	128	23 00				394			
		NET	2119	BE	395	52	15 34	128	22 99		417	150	395			BONGO
		TRAWL	2144	BE	396	52	15 140	128	21 40.7		394	SURFACE	396			TRAWL
2	IBC 20	CTD	2309	BC	397	52	17 86	128	13 44		330		397	1		CTD
			2315	BO	397	52	17 88	128	13 39			320	397			S: 25.84 T: 8.45
			2321	EM	397	52	17 90	128	13 36				397			

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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
2	IBC 20	NET	2324	BE	398	52 17 96	128 13 35		337	150	398			BONGO
		TRAWL	2349	BE	399	52 18 99	128 12, 875		384	SURFACE	399			TRAWL
3	IBC 21	CTD	1127	BE	400	52 29 17	127 14 19		490		400	1		CTD
			1136	BO	400	52 29 21	127 14 32			480	400			S:15.34 T:7.26
			1144	EN	400	52 29 22	127 14 42				400			
		NET	1151	BE	401	52 29 29	127 14 62		494	150	401			BONGO
		TRAWL	1218	BE	402	52 28 582	127 14 676		499	SURFACE	402			TRAWL
3	IBC 22	CTD	1324	BE	403	52 24 95	127 22 48		389		403	2		CTD 1- SURFACE 2- 300m
			1328	BO	403	52 24 98	127 22 63			380	403			S:17.70 T:7.79
			1336	EN	403	52 25 01	127 22 71				403			
		NET	1342	BE	404	52 24 99	127 22 88		390	150	404			BONGO
		TRAWL	1414	BE	405	52 24 621	127 23 646		428	SURFACE	405			TRAWL
3	IBC 23	CTD	1519	BE	406	52 19 96	127 29 19		360		406	1		CTD
			1525	BO	406	52 20 02	127 29 12			350	406			S:18.19 T:7.76
			1532	EN	406	52 20 07	127 29 03				406			
		NET	1537	BE	407	52 20 18	127 28 89		402	150	407			BONGO
		TRAWL	1601	BE	408	52 19 865	127 29 507		406	SURFACE	408			TRAWL

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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	
3	IBC 24	CTD	1703	BC	409	52 16 70	127 39 02		355		409	1		CTD	
			17 14	BO	409	52 16 71	127 39 03			345	409			S: 20.56 T: 8.21	
			17 20	EN	409	52 16 70	127 39 04				409				
		NET	1725	BC	410	52 16 63	127 38 95		355	150	410			BONGO	
		TRAWL	1748	BC	411	52 16 414	127 39 952		188	SURFACE	411			TRAWL	
4		CTD	11 27	BC	412	50 51 97	127 50 59		253		412	1		CTD	
	QCST-01		11 32	BO	412	50 51 97	127 50 50			245	412			S: 31.47 T: 9.40	
			11 38	EN	412	50 51 96	127 50 48				412				
		NET	11 44	BC	413	50 51 89	127 50 21		258	150	413			BONGO	
		TRAWL	1213	BC	414	50 51 481	127 48.4 24		258	SURFACE	414			TRAWL	
4	QCST-2	CTD	13 15	BC	415	50 49 37	127 39 19		370		415	1		CTD	
			13 20	BO	415	50 49 35	127 39 06			360	415			S: 30.82 T: 8.75	
			13 26	EN	415	50 49 37	127 38 99				415				
		NET	13 31	BC	416	50 49 34	127 39 04		370	150	416			BONGO	
		TRAWL	13 59	BC	417	50 49 255	127 38 60		372	SURFACE	417			TRAWL	
4	QCST-3	CTD	15 11	BC	418	50 47 01	127 26 68		348		418	1		CTD	
			15 17	BO	418	50 47 00	127 26 64			340	418			S: 30.22 T: 8.33	
			15 24	EN	418	50 47 00	127 26 59				418				

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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
4	QCST-3	NET	1527	BE	419	50 46	99	127 26	50		351	150	419			BONGO
		TRAWL	1600	BE	420	50 46	251	127 24	305		285	SURFACE	420			TRAWL
4	QCST-4	CTD	1711	BE	421	50 44	04	127 11	71		192		421	1		CTD
			1714	BO	421	50 44	04	127 11	71			180	421			S: 31.35 T: 8.49
			1718	EN	421	50 44	04	127 11	68				421			
		NET	1722	BE	422	50 44	02	127 11	51		190	150	422			BONGO
		TRAWL	1748	BE	423	50 43	776	127 9	766		201	SURFACE	423			TRAWL
4	QCST-5	CTD	1857	BE	424	50 41	75	126 58	25		197		424	1		CTD
			1901	BO	424	50 41	75	126 58	20			190	424			S: 31.54 T: 8.62
			1904	EN	424	50 41	75	126 58	13				424			
		NET	1909	BE	425	50 41	71	126 57	84		194	150	425			BONGO
		TRAWL	1935	BE	426	50 41	491	126 56	077		200	SURFACE	426			TRAWL
5	IBL 25	CTD	1144	BE	427	50 33	08	124 58	17		650		427	1		CTD
			1153	BO	427	50 33	07	124 58	21			500	427			S: 20.10 T: 8.36
			1202	EN	427	50 33	06	124 58	25				427			
		NET	1207	BE	428	50 33	07	124 58	20			150	428			BONGO
		TRAWL	1241	BE	429	50 33	916	124 56	990		640	SURFACE	429			TRAWL

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5	IBC 26	CTD	13 40	BE	430	50 39 09	124 52 96		620		430	2		CTD 1- SURFACE 2- 500m	
			13 50	BO	430	50 38 09	124 52 83			500	430			S: 18.73 T: 8.09	
			14 00	EN	430	50 38 13	124 52 77				430				
		NET	14 10	BE	431	50 39 28	124 52 59		620	150	431			BONGO	
		TRAWL	14 34	BE	432	50 39 282	124 52 587		602	SURFACE	432			TRAWL	
5	IBC 27	CTD	16 25	BE	433	50 30 93	125 00 52		652		433	1		CTD	
			16 35	BO	433	50 30 88	125 00 68			500	433			S: 22.37 T: 8.59	
			16 44	EN	433	50 30 86	125 00 74				433				
		NET	16 49	BE	434	50 30 80	125 00 94		652	150	434			BONGO	
		TRAWL	17 15	BE	435	50 30 337	125 2.3 11		643	SURFACE	435			TRAWL	
5	IBC 28	CTD	18 15	BE	436	50 24 77	125 04 50		411		436			CTD	
			18 22	BO	436	50 24 72	125 04 53			400	436			S: 26.16 T: 8.78	
			18 29	EN	436	50 24 66	125 04 57				436				
		NET	18 33	BE	437	50 24 52	125 04 69			150	437			BONGO	
		TRAWL	19 02	BE	438	50 23 027	125 04.268		648	SURFACE	438			TRAWL	

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