

DAILY LOG BOOK

MISSION
NUMBER

2003 - 36

DATE:

From: OCT 6 to: ~~NOV 4~~ OCT 29

VESSEL:

W.E. RICHER

PROJECT:

HI SEAS SALMON

DAVID WELCH

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

Captain: SID WEB First Officer: MALC MEESER
Second Officer: WILEY Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel: Party Chief: JOHN MORRIS

[illegible]

Second leg of Mission: Party Chief: Tom Mackis

[illegible]

Data logging computer:

Data acquisition program: _____
CTD deck unit make: S&E model: 911 + serial number: 11P10377-0471

Primary CTD

Make: SBF model: 911+ serial number: 0550

Primary temperature serial number: 2668

Primary conductivity serial number:	2424
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Secondary temperature serial number: 2374

Secondary conductivity serial number: 2399

Transmissometer: _____ s/n: 1977
Model: _____

Fluorometer: Model 5CAP-17 Cable gain: 10 x 0.15 s/n: 2228 P, S or NO pump?

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

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

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

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

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

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

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P, S or NO pump? _____

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

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

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

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

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

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Month OCT				Year 2003			Ship W.E. RICKER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
9	1V1 01	1655	BC	CTD		001	48 52 16	125 07 70	113			1	H.M	✓	T: 10.56 S: 31.86
	CTD 01	1657	BO				48 52 16	125 07 69		100					T: 8.13 S: 32.94
		1701	EN				48 52 13	125 07 68							SAL/CHL/NUTS @ 10m
		1709	BC	NET		002	48 52 12	125 07 59		100					BONGO
		1739	BC	TRAWL		003	48 51 92	125 07 28							
9	1V1 02	1848	BC	CTD		004	48 54 17	125 02 80	190			1			T: 11.54 S: 30.58
	CTD 02	1854	BO				48 54 19	125 02 81		180					T: 8.11 S: 33.05
		1900	EN				48 54 20	125 02 83							SAL/CHL/NUTS @ 10m
		1904	BC	NET		005	48 54 21	125 02 83		150					BONGO
		1934	BC	TRAWL		006	48 54 99	125 02 88							
9	1V1 03	2048	BC	CTD		007	48 57 90	125 05 95	100			1			T: 11.73 S: 30.83
		2050	BO				48 57 98	125 05 94		90					T: 8.12 S: 32.95
	CTD 03	2053	EN				48 57 85	125 05 91							SAL/CHL/NUTS @ 10m
		2055	BC	NET		008	48 57 83	125 05 93		90					BONGO
		2121	BC	TRAWL		009	48 57 25	125 06 84							

Cast type:

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

USW = sea water loop

MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

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

Time Code

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

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

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Month OCT				Year 2003			Ship W.E. RICHIE				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
9	141 04	2223	BE	CTD		010	48 56 19	125 11 30	95			1	H.M.		T: 11.94 S: 30.70
	CTD 04	2225	BO				48 56 17	125 11 28		90					T: 8.15 S: 32.99
		2228	GN				48 56 16	125 11 26							SAL/CHL/NUIS @ 10m
		2233	BE	NET		011	48 56 13	125 11 23		85					BONGO
		2256	BE	TRAWL		012	48 55 47	125 11 90							
9	141 05	2350	BE	CTD		013	48 52 29	125 14 58	91			1	H.M.		T: 11.45 S: 31.53
	CTD 05	2353	BO				48 52 29	125 14 53		85					T: 8.22 S: 32.87
		2355	GN				48 52 27	125 14 51							SAL/CHL/NUIS @ 10m
		2359	BE	NET		014	48 52 28	125 14 51		85					BONGO
		0021	BE	TRAWL		015	48 51 63	125 15 06							
10	141 06	1436	BE	CTD		016	49 51 66	126 44 45	229	209		1	H.M.	✓	T: 12.24 S: 28.29
		1440	BO				49 51 62	126 44 45		200					T: 9.14 S: 32.42
	CTD 06	1446	GN				49 51 60	126 44 53							SAL/CHL/NUIS @ 10m
		1454	BE	NET		017	49 51 68	126 44 50		150					BONGO
		1522	BE	TRAWL		018	49 51 75	126 44 65							

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Month		OCT		Year		2003		Ship		WE RICKER		INSTITUTE OF OCEAN SCIENCES				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments	
							Latitude	Longitude								
10	101 07	1713	BE	CTD		019	49 53 49	126 47 02	146							
	CTD 07	1716	BO				49 53 48	126 46 98		140		1	H.M.		T: 12.37 S: 31.01	
		1720	EN				49 53 47	126 46 93							T: 9.14 S: 32.41	
		1724	BE	NET		020	49 53 45	126 46 78							SAL/CHL/NUTS @ 10m	
		1750	BE	TRAWL		021	49 53 56	126 46 99							BONGO	
10	101 08	1908	BE	CTD		022	49 52 71	126 49 14	224			1	H.M.		T: 12.44 S: 30.37	
	CTD 08	1913	BO				49 52 61	126 49 18	215						T: 9.18 S: 32.46	
		1919	EN				49 52 58	126 49 14							SAL/CHL/NUTS @ 10m	
		1924	BE	NET		023	49 52 56	126 49 24		150					BONGO	
		1947	BE	TRAWL		024	49 52 12	126 50 67								
10	101 09	2041	BE	CTD		025	49 51 35	126 54 79	191			1	H.M.		T: 12.42 S: 29.96	
		2045	BO				49 51 32	126 54 81		180					T: 9.24 S: 32.43	
	CTD 09	2049	EN				49 51 30	126 54 82							SAL/CHL/NUTS @ 10m	
		2054	BE	NET		026	49 51 28	126 54 82		150					Bongo	
		2118	BE	TRAWL		027	49 51 37	126 55 72								

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							Latitude	Longitude							
10	V1 01	2226	BE	CTD		028	49 47 25	127 03 21	39			1	H.M.		T: 12.41 S: 31.51
	CTD 10	22 28	BO				49 47 25	127 03 25							T: 11.20 S: 31.90
		22 29	CM				49 47 24	127 03 30							SAL/CHL/NUTS @ 10m
		22 33	BE	NET		029	49 47 26	127 03 34	28						BONGO
		22 56	BE	TRAWL		030	49 47 24	127 05 01							
10	V1 02	2337	BE	CTD		031	49 47 02	127 10 11	35			1	H.M.		T: 12.20 S: 31.68
	CTD 11	2338	BO				49 47 03	127 10 15		30					T: 11.78 S: 31.93
		23 41	CM				49 47 04	127 10 20							SAL/CHL/NUTS @ 10m
		23 44	BE	NET		032	49 47 06	127 10 26		25					BONGO
		00 04	BE	TRAWL		033	49 47 19	127 12 46							
11	V1 10	1415	BE	CTD		034	50 06 38	127 07 06		169		1	H.M.	✓	T: 13.02 S: 27.74
	CTD 034	1418	BO				50 06 40	127 06 47		166					T: 7.47 S: 33.21
		1423	CM				50 06 41	127 06 41							SAL/CHL/NUTS @ 10m
		1428	BE	NET		035	50 06 37	127 06 41							BONGO
		1455	BE	TRAWL		036	50 06 18	127 07 40							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments	
							Latitude	Longitude								
11	101 11	1609	BE	CTD		037	50 05 71	127 14 93	90			1	H.M.		T: 13.58 S: 29.20	
		1611	BO				50 05 69	127 14 81		80					T: 8.70 S: 32.75	
		1615	EN				50 05 68	127 14 78							SAL/CAL/NUTS @ 10m	
		1618	BE	NET		038	50 05 67	127 14 73	116	105					BONGO	
		1642	BE	TRAWL		039	50 05 15	127 15 09								
11	101 12	1734	BE	CTD		040	50 03 15	127 14 94	220			1	H.M.		T: 13.36 S: 28.92	
		1738	BO				50 03 18	127 14 92		210					T: 7.43 S: 33.23	
		1743	EN				50 03 21	127 14 91							SAL/CAL/NUTS @ 10m	
		1747	BE	NET		041	50 03 27	127 14 82		150					BONGO	
		1811	BE	TRAWL		042	50 02 63	127 15 16								
11	101 13	1920	BE	CTD		043	50 01 21	127 09 34	98			1	H.M.		T: 12.23 S: 28.01	
		1922	BO				50 01 24	127 09 37		90					T: 8.22 S: 32.93	
		1924	EN				50 01 26	127 09 39							SAL/CAL/NUTS @ 10m	
		1931	BE	NET		044	50 01 18	127 09 80		84					BONGO	
		1949	BE	TRAWL		045	50 00 68	127 10 46								

Cast type: USW = sea water loop bottle firing method: Time Code
 BOT = bottle cast, no CTD MOR = mooring US = up / stop BE = beginning time of cast
 CTD = CTD without Rosette NET = net haul UN = up / no stop BO = bottom time of cast DE = deployment time
 ROS = Rosette plus CTD DRF = drifter DN = down / no stop EN = end time of cast MR = messenger release time
 RE = recover mooring time

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							Latitude	Longitude							
11	V1 14	2139	BE	CTD		046	50 00 65	127 10 33	113			1	H.M	1	T: 12.56 S: 29.16
	(2nd)	2142	BO				50 00 68	127 10 27		100					T: 8.57 S: 32.81
		2145	CM				50 00 70	127 10 24							SAL/CHL/NUTS @ 10m
	(3rd)	2149	BE	NET		647	50 00 72	127 10 14		96					BONGO
	(1st)	2054	BE	TRAWL		648	49 58 76	127 14 97							
12	V1 03	1530	BE	CTD		049	49 55 90	127 20 00	61			1	H.M	✓	T: 11.79 S: 31.40
		1534	BO				49 55 90	127 20 10		55					T: 11.71 S: 31.67
		1536	CM				49 55 90	127 20 13							SAL/CHL/NUTS @ 10m
	* →		BE	TRAWL	CANCELLED		TRAWL & BONGO - WEATHER								NO BONGO
12	V1 15	2154	BE	CTD		050	50 28 22	127 56 36	230			1	H.M		T: 12.26 S: 29.99
		2159	BO				50 28 18	127 56 44		220					T: 8.15 S: 32.99
		2205	CM				50 28 14	127 56 44							SAL/CHL/NUTS @ 10m
		2208	BE	NET		051	50 28 11	127 56 46		150					BONGO
		2235	BE	TRAWL		052	50 28 17	127 56 20							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
12	VI 16	2324	BC	CTD		053	50 29 24	127 51 83	148	138		1	H.m.		T: 11.46 S: 28.64
		2327	BO				50 29 24	127 51 81		130					T: 8.48 S: 32.86
		2330	EN				50 29 24	127 51 80							SAL/CHL/NUIS @ 10m
		2333	BC	NET		054	50 29 22	127 51 81	144	134					BONGO
		2357	BC	TRAWL		055	50 28 99	127 50 94							
13	VI 17	0045	BC	CTD		056	50 29 63	127 46 27	207			1	H.m.		T: 11.54 S: 29.75
		0049	BO				50 29 63	127 46 25		200					T: 8.29 S: 32.92
		0053	EN				50 29 64	127 46 25							SAL/CHL/NUIS @ 10m
		0057	BC	NET		057	50 29 66	127 46 21		150					BONGO
		0122	BC	TRAWL		058	50 29 59	127 46 10							
13	VI 18	1402	BC	CTD		059	50 23 78	127 29 14	106			1	H.m.	✓	T: 11.05 S: 28.08
		1405	BO				50 23 79	127 29 19		100					T: 8.15 S: 32.91
		1408	EN				50 23 79	127 29 21							SAL/CHL/NUIS @ 10m
		1412	BC	NET		060	50 23 79	127 29 15		98					BONGO
		1434	BC	TRAWL		061	50 24 47	127 29 64							

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							Latitude	Longitude								
13	VI 19	1601	BE	CTD		062	50 26 30	127 30 92	135			1			T: 11.04 S: 28.75	
		1604	BO				50 26 28	127 30 98		180					T: 7.15 S: 33.36	
		1608	EN				50 26 25	127 30 94							SAL/CHL/NUTS @ 10m	
		1612	BE	NET		063	50 26 22	127 30 76		150					BONGO	
		1635	BE	TRAWL		064	50 26 75	127 31 48								
13	VI 20	1750	BE	CTD		065	50 29 81	127 41 24	105			1			T: 11.10 S: 29.09	
		1752	BO				50 29 80	127 41 26		100					T: 8.69 S: 32.75	
		1755	EN				50 29 79	127 41 29							SAL/CHL/NUTS @ 10m	
		1759	BE	NET		066	50 29 78	127 41 28		91					BONGO	
		1821	BE	TRAWL		067	50 29 75	127 42 36								
13	VI 04	2003	BE	CTD		068	50 25 22	127 58 85	132			1			T: 12.57 S: 30.93	
		2006	BO				50 25 23	127 58 88		120					T: 8.21 S: 32.94	
		2010	EN				50 25 23	127 58 93							SAL/CHL/NUTS @ 10m	
		2013	BE	NET		069	50 25 24	127 58 93		121					BONGO	
		2057	BE	TRAWL		070	50 24 98	128 00 10								

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							Latitude	Longitude							
13	V1 05	2144	BE	CTD		071	50 23 87	128 04 84	78			1	H.M.		T: 12.47 S: 30.70
		2146	BO				50 23 86	128 04 84		70					T: 7.48 S: 32.50
		2149	EN				50 23 87	128 04 81							SAL/CHL/NUTS @ 10 m
		2152	BE	NET		072	50 23 88	128 04 74							BONGO
		2214	BE	TRAWL		073	50 24 30	128 06 11							
13	V1 06	2300	BE	CTD		074	50 25 94	128 10 36	91			1			T: 12.63 S: 31.26
		2302	BO				50 25 91	128 10 38		85					T: 8.04 S: 32.77
		2304	EN				50 25 89	128 10 39							SAL/CHL/NUTS @ 10 m
		2307	BE	NET		075	50 25 87	128 10 37		78					BONGO
		0028	BE	TRAWL		076	50 26 35	128 11 61							
14	V1 07	0036	BE	CTD		077	50 27 94	128 16 85	123			1			T: 13.06 S: 31.69
		0039	BO				50 27 90	128 16 82		115					T: 7.13 S: 33.35
		0042	EN				50 27 89	128 16 81							SAL/CHL/NUTS @ 10 m
		0045	BE	NET		078	50 27 86	128 16 77		112					BONGO
		0112	BE	TRAWL		079	50 28 40	128 17 81							

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							Latitude	Longitude							
15	IBC 01	1919	BC	CTD		080	51 40 92	127 54 94	340			1	H.M.	✓	T: 10.10 S: 28.70
		1923	BO				51 40 92	127 54 95		250					T: 6.78 S: 33.24
		1930	GN				51 40 91	127 54 97							SAL/CHL/NUTS @ 10 m
		2024	BC	NET		081	51 41 05	127 54 97		150					BONGO
		2056	BC	TRAWL		082	51 43 49	127 55 49							
15	IBC 02	2241	BC	CTD		083	51 48 85	127 56 38	314			2			T: 10.02 S: 28.77
		2246	BO				51 48 85	127 56 36		250					T: 6.76 S: 33.26
		2253	GN				51 48 86	127 56 32						*	SAL/CHL/NUTS @ 10 m
		2301	BC	NET		084	51 48 82	127 56 24		150				*	BONGO / SAL @ 250m
		2333	BC	TRAWL		085	51 49 91	127 56 77							
16	IBC 03	0056	BC	CTD		086	51 57 15	127 56 02	330			1			T: 10.07 S: 25.68
		0101	BO				51 57 07	127 56 09		250					T: 6.76 S: 33.24
		0106	GN				51 57 05	127 56 15							SAL/CHL/NUTS @ 10 m
		0111	BC	NET		087	51 56 96	127 56 26		150					BONGO
		0141	BC	TRAWL		088	51 55 41	127 56 77		15					

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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

Time Code

BE = beginning time of cast
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 RE = recover mooring time

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

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DAILY LOG

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INSTITUTE OF OCEAN SCIENCES

Month OCT				Year 2003				Ship WE RICKER				Cruise ID 2003-36			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
16	IBC 04	1715	BE	CTD		089	53 25 68	129 55 41	270			1	H.M.	✓	T: 10.54 S: 29.03
		1720	BO				53 25 72	129 55 43		250					T: 7.48 S: 32.82
		1725	EN				53 25 71	129 55 40							SAL/CHL/NUTS @ 10 m
		1731	BE	NET		090	53 25 70	129 55 37		150					BONGO
		1756	BE	TRAWL		091	53 26 43	129 57 07							
16	IBC 05	2124	BE	CTD		092	53 50 25	130 18 42	196			1			T: 10.17 S: 29.77
		2128	BO				53 50 25	130 18 41		185					T: 9.67 S: 31.72
		2134	EN				53 50 27	130 18 39							SAL/CHL/NUTS @ 10 m
		2142	BE	NET		093	53 50 28	130 18 36		150					BONGO
		2208	BE	TRAWL		094	53 51 47	130 18 38							
17	DE 01	1409	BE	CTD		095	54 10 50	131 50 70	71			1	H.M.	✓	T: 10.50 S: 31.53
		1411	BO				54 10 50	131 50 66		65					T: 8.85 S: 32.43
		1413	EN				54 10 48	131 50 57							SAL/CHL/NUTS @ 10 m
		1418	BE	NET		096	54 10 46	131 50 40		60					BONGO
		1438	BE	TRAWL		097	54 10 25	131 51 00							

Cast type: USW = sea water loop
 BOT = bottle cast, no CTD
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Month Oct				Year 2003				Ship WE RICHER				Cruise ID 2003-36			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
17	DE 02	1545	BE	CTD		098	54 09 49	131 59 37	66			1	H.m		T: 10.44 S: 31.52
		1546	BO				54 09 49	131 59 38		60					T: 8.33 S: 32.63
		1548	EN				54 09 49	131 59 38							SAL/CHL/NUTS @ 10m
		1554	BE	NET		099	54 09 55	131 59 44		56					BONGO
		1611	BE	TRAWL		100	54 09 92	132 00 35							
17	DE 03	1719	BE	CTD		101	54 09 19	132 11 47	55			1			T: 10.93 S: 30.73
		1720	BO				54 09 19	132 11 47		50					T: 10.17 S: 32.14
		1722	EN				54 09 19	132 11 46							SAL/CHL/NUTS @ 10m
		1725	BE	NET		102	54 09 18	132 11 37		44					BONGO
		1742	BE	TRAWL		103	54 09 14	132 12 73							
17	DE 04	1900	BE	CTD		104	54 09 59	132 24 93	93			1			T: 10.96 S: 30.94
		1902	BO				54 09 61	132 24 93		85					T: 9.27 S: 32.49
		1904	EN				54 09 62	132 24 94							SAL/CHL/NUTS @ 10m
		1909	BE	NET		105	54 09 62	132 24 95		80					BONGO
		1929	BE	TRAWL		106	54 09 32	132 26 15							

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Ocean Sciences and Productivity Division

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Month OCT				Year 2003			Ship W E RICKER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
17	DE 05	20 33	BG	CTD		107	54 10 81	132 34 29	93			1	H.M.		T: 10.95 S: 31.70
		20 35	BO				54 10 80	132 34 26		85					T: 10.04 S: 32.32
		20 37	EN				54 10 79	132 34 23							SAL/CHL/HUTS @ 10 m
		20 41	BE	NET		108	54 10 77	132 34 11		83					BONGO
		21 00	BE	TRAWL		109	54 10 87	132 34 95							
17	DE 06	22 08	BG	CTD		110	54 10 80	132 43 92	61			1			T: 12.26 S: 31.85
		22 09	BO				54 10 78	132 43 79		55					T: 11.05 S: 32.14
		22 11	EN				54 10 77	132 43 73							SAL/CHL/HUTS @ 10 m
		22 14	BE	NET		111	54 10 75	132 43 55		50					BONGO
		22 32	BE	TRAWL		112	54 10 70	132 44 15							
17	DE 07	23 32	BG	CTD		113	54 10 71	132 51 09	63			1			T: 12.52 S: 31.78
		23 33	BO				54 10 70	132 51 06		55					T: 11.15 S: 31.96
		23 35	EN				54 10 70	132 51 03							SAL/CHL/HUTS @ 10 m
		23 38	BE	NET		114	54 10 67	132 50 95		53					BONGO
		00 24	BE	TRAWL		115	54 11 04	132 51 01							

Cast type:

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DRF = drifter

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Month OCT				Year 2003				Ship WE RICHER				Cruise ID 2003-36			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
18	DE 08	0120	BE	TRAWL		116	54 14 28	132 55 05							
		0156	BE	CTD		117	54 15 35	132 57 08	272	220	(BAD CURRENTS)	1	4.m		T: 12.59 S: 31.77
			BO				?	?			ABORT @ 220 m				T: ? S: ?
		0205	EN				54 15 26	132 56 99							SAL/CHL/NUTS @ 10m
		0214	BE	NET		118	55 15 17	132 56 69		150					BONGO
18	F 01	1417	BE	CTD		119	54 47 22	133 02 99	121			1	4.m	✓	T: 10.88 S: 30.82
		1420	BO				54 47 27	133 02 98		115					T: 8.00 S: 32.73
		1422	EN				54 47 31	133 02 93							SAL/CHL/NUTS @ 10m
		1427	BE	NET		120	54 47 37	133 02 59		112					BONGO
		1453	BE	TRAWL		121	54 47 64	133 03 09							
18	F 02	1559	BE	CTD		122	54 46 68	133 11 00	209			1			T: 11.30 S: 31.78
		1603	BO				54 46 72	133 10 96		200					T: 6.39 S: 33.38
		1607	EN				54 46 75	133 10 91							SAL/CHL/NUTS @ 10m
		1610	BE	NET		123	54 46 78	133 10 82		150					BONGO
		1636	BE	TRAWL		124	54 46 87	133 11 81							

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Month OCT				Year 2003				Ship WE RICKER				Cruise ID 2003-36			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
18	F 03	1733	BC	CTD		125	54 45 88	133 19 19	114			1			T: 10.99 S: 31.96
		1736	BO				54 45 88	133 19 18		105	112				T: 7.54 S: 32.91
		1738	CH				54 45 87	133 19 20							SAL/CHL/NUIS @ 10 m
		1740	BE	NET		126	54 45 88	133 19 22							BONGO
		1804	BE	TRAWL		127	54 45 75	133 20 41							
	(SHIPPED 4)														
18	F 05	1940	BC	CTD		128	54 44 33	133 34 41	197			1			T: 11.22 S: 31.91
		1943	BO				54 44 36	133 34 40		190					T: 6.14 S: 33.40
		1947	CH				54 44 35	133 34 39							SAL/CHL/NUIS @ 10 m
		1952	BC	NET		129	54 44 35	133 34 38		150					BONGO
		2022	BC	TRAWL		130	54 44 40	133 35 30							
18	F 06	2129	BC	CTD		131	54 43 47	133 42 22	225	215		1			T: 12.09 S: 31.88
		2133	BO				54 43 49	133 42 19							T: 6.15 S: 33.47
		2137	CH				54 43 48	133 42 16							SAL/CHL/NUIS @ 10 m
		2142	BC	NET		132	54 43 47	133 42 11		150					BONGO
		2212	BC	TRAWL		133	54 43 42	133 43 30							

Cast type: USW = sea water loop
 BOT = bottle cast, no CTD MOR = mooring
 CTD = CTD without Rosette NET = net haul
 ROS = Rosette plus CTD DRF = drifter

bottle firing method:
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DAILY LOG

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[illegible]

Cast type:

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$$142/3 \quad 144/5 \quad 146/7$$

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Month OCT				Year 2003				Ship WE RICKER				Cruise ID 2003-36			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
19	F 10	0426	BC	CTD		142	54 39 98	134 21 75	>2000			1			T: 11.62 S: 32.04
		0430	BO				54 39 93	134 21 68		250					T: 5.84 S: 33.87
		0436	EN				54 39 90	134 21 62							SAL/CAL/NUTS @ 10m
NO	TRAWL	0442	BC	NET		143	54 39 82	134 21 59		150					BONGO
19	F 11	0621	BC	CTD		144	54 38 35	134 38 17	>2000			1			T: 11.39 S: 32.02
		0626	BO				54 38 33	134 38 09		250					T: 5.59 S: 33.85
NO	TRAWL	0631	EN				54 38 32	134 38 03							SAL/CAL/NUTS @ 10m
		0637	BC	NET		145	54 38 31	134 37 93		150					BONGO
19	ISEA 01	1505	BC	CTD		146	55 52 73	134 03 05	230			1	H.M	✓	T: 10.82 S: 31.39
		1510	BO				55 52 76	134 02 91		220					T: 6.32 S: 33.31
		1515	EN				55 52 79	134 02 84							SAL/CAL/NUTS @ 10m
		1519	BC	NET		147	55 52 86	134 02 77		150					BONGO
		1549	BC	TRAWL		148	55 53 87	134 01 54							

Cast type:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month OCT				Year 2003			Ship W E RICHER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
19	1SEA 02	1651	BC	CTD		149	55 59 20	133 58 48	180			1			T: 8.28 S: 30.54
		1654	BO				55 59 17	133 58 40		170					T: 6.42 S: 33.24
		1658	CM				55 59 15	133 58 35							SAL/CHL/NUTS @ 10m
		1703	BC	NET		150	55 59 14	133 58 35		150					BONGO
		1731	BE	TRAWL		151	55 59 64	133 57 50							
19	1SCA 03	1831	BC	CTD		152	56 03 20	133 54 52	87			1			T: 8.44 S: 30.28
		1833	BO				56 03 17	133 54 53		80					T: 7.99 S: 31.35
		1835	CM				56 03 13	133 54 51							SAL/CHL/NUTS @ 10m
		1903	BC	NET		153	56 03 24	133 54 67							BONGO
		1923	BE	TRAWL		154	56 03 55	133 54 12							
19	1SCA 04	2052	BC	CTD		155	56 08 96	133 43 60	245			1			T: 9.76 S: 31.18
		2056	BO				56 08 99	133 43 53		230					T: 7.08 S: 32.64
		2100	CM				56 08 99	133 43 51							SAL/CHL/NUTS @ 10m
		2103	BC	NET		156	56 08 98	133 43 47		150					BONGO
		2128	BE	TRAWL		157	56 09 54	133 43 54							

Cast type:

BOT = bottle cast, no CTD
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Month OCT				Year 2003			Ship W E RICHER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
19	ISEA 05	2249	BC	CTD		158	56 16 60	133 48 50	290			1	H.M.		T: 8.95 S: 29.25
		2253	BO				56 16 58	133 48 38		250					T: 7.05 S: 3.69
		2258	CH				56 16 57	133 48 32							SAL/CHL/NUIS @ 10m
		2301	BC	NET		159	56 16 53	133 48 24		150					BONGO
		2326	BC	TRAWL		166	56 16 97	133 47 80							
20	ISEA 06	0106	BC	CTD		161	56 22 77	133 35 96	358			1			T: 9.16 S: 29.66
		0111	BO				56 22 78	133 35 94		250					T: 7.41 S: 32.17
		0115	CH				56 22 80	133 35 93							SAL/CHL/NUIS @ 10m
		0118	BC	NET		162	56 22 82	133 35 93		150					BONGO
		0143	BC	TRAWL		163	56 22 67	133 34 94							
20	ISEA 07	1403	BC	CTD		164	56 21 85	133 25 71	376			1	H.M.	✓	T: 9.22 S: 29.55
		1409	BO				56 21 87	133 25 68		250					T: 7.35 S: 32.27
		1414	CH				56 21 89	133 25 66							SAL/CHL/NUIS @ 10m
		1418	BC	NET		165	56 21 91	133 25 56		150					BONGO
		1442	BC	TRAWL		166	56 21 84	133 24 34							

Cast type:
 BOT = bottle cast, no CTD
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Month OCT				Year 2003			Ship W E RICHER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
20	15EA 08	1651	BC	CTD		167	56 27 01	133 01 25	165			1			T: 9.68 S: 26.87
		1654	BO				56 27 05	133 01 22		155					T: 7.94 S: 31.37
		1657	CH				56 27 08	133 01 21							SAL/CHL/NUIS @ 10m
		1701	BC	NET		168	56 27 13	133 01 24	141	135					BONGO
		1723	BC	TRAWL		169	56 27 70	133 00 30							
20	15EA 09	1908	BC	CTD		170	56 28 94	132 49 36	116			1			T: 9.32 S: 24.71
	(2ND)	1910	BO				56 28 94	132 49 38		105					T: 7.61 S: 31.56
		1912	CH				56 28 95	132 49 40							SAL/CHL/NUIS @ 10m
	(3RD)	1920	BC	NET		171	56 28 93	132 49 52		105					BONGO
	(1ST)	1822	BC	TRAWL		172	56 29 15	132 53 44							
20	15EA 10	2035	BC	CTD		173	56 26 82	132 39 24	100			1			T: 9.62 S: 25.59
		2037	BO				56 26 84	132 39 27		90					T: 7.29 S: 31.96
		2039	CH				56 26 85	132 39 29							SAL/CHL/NUIS @ 10m
		2046	BC	NET		174	56 26 83	132 39 25		90					BONGO
		2107	BC	TRAWL		175	56 26 42	132 38 55							

Cast type:

BOT = bottle cast, no CTD
 CTD = CTD without Rosette
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US = up / stop
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Month OCT				Year 2003				Ship WE RICKER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments	
							Latitude	Longitude								
20	ISEA 11	2202	BC	CTD		176	56 24 65	132 34 26	241			1			T: 10.32 S: 27.51	
		2206	BO				56 24 69	132 34 30		230					T: 5.85 S: 33.51	
		2210	CH				56 24 72	132 34 33							SAL/CNL/NTS @ 10 m	
		2214	BC	NET		177	56 24 80	132 34 39		150					BONGO	
		2240	BC	TRAWL		178	56 24 39	132 34 84								
20	ISEA 12	2348	BC	CTD		179	56 19 60	132 35 86	290			1			T: 10.13 S: 28.01	
		2352	BO				56 19 66	132 35 94		250					T: 5.84 S: 33.52	
		2357	CH				56 19 69	132 36 00							SAL/CNL/NTS @ 10 m	
			BC	NET		180									BONGO	
		0159	BC	TRAWL		181	56 19 18	132 36 27								
21	ISEA 13	1415	BE	TRAWL		182	56 01 59	132 42 77			NO CTD/BONGO	- WEATHER 60+			TRAWL ONLY.	
21	ISEA 14	1533	BE	TRAWL		183	55 58 59	132 36 70			NO CTD/BONGO	- WEATHER			TRAWL ONLY	
21	ISEA 15	1705	BE	TRAWL		184	55 54 77	132 29 57			NO CTD/BONGO	- WEATHER			TRAWL ONLY	
21	ISEA 16	2105	BC	TRAWL		185	55 41 62	132 17 55			NO CTD/BONGO	- WEATHER			TRAWL ONLY	

Cast type:
BC = beam trawl

USW = sea water loop

bottle firing method:

Time Code

Cast type: BOT = bottle cast, no CTD MOR = mooring CTD = CTD without Rosette ROS = Rosette plus CTD USW = sea water loop NET = net haul DRF = drifter

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

Time Code: BE = beginning time of cast BO = bottom time of cast EN = end time of cast DE = deployment time MR = messenger release time RE = recover mooring time

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

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month OCT				Year 2003				Ship WE RICKER			Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
21	ISEA 17	2159	BE	TRAWL		186	55 46 64	132 22 30			NO CTD/BONGO	WEATHER			TRAWL ONLY
21	ISEA 18	2249	BE	TRAWL		187	55 51 39	132 27 03			NO CTD/BONGO	WEATHER			TRAWL ONLY
22	ISEA 19	0052	BE	CTD		188	55 49 12	132 26 42	560			1	H.M.	✓	T: 10.05 S: 29.19
		0057	BO				55 49 14	132 26 41		250					T: 5.72 S: 33.55
		01 01	EM				55 49 16	132 26 38							SAL/CHL/HUTS @ 10 m
		01 05	BE	NET		189	55 49 18	132 26 33		150					BONGO
		01 35	BE	TRAWL		190	55 48 64	132 25 67							
22	ISEA 20	1409	BE	CTD		191	55 11 06	131 52 88	445			1	H.M.	✓	T: 10.41 S: 29.62
		14 14	BO				55 11 09	131 52 84		250					T: 5.67 S: 33.57
		14 19	EM				55 11 13	131 52 81							(NO) SAL/CHL/HUTS @ 10 m
		14 27	BE	NET		192	55 11	131 52		150					BONGO
		14 47	BE	TRAWL		193	55 10 31	131 52 41							

Cast type:

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

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

bottle firing method:

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Time Code

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Month OCT			Year 2003				Ship WE RICKER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
22	156A 21	1607	BE	CTD		194	55 03 98	131 55 61	346	300		2	H.M.		T: 10.38 S: 29.14
		1614	BO				55 04 03	131 55 75							T: 5.66 S: 33.59
		1624	CH				55 04 09	131 56 01							SAL 3004 CHL/NUIS @ 10m
		1627	BE	NET		195	55 04 12	131 56 07	150						BONGO
		1649	BE	TRAWL		196	55 03 68	131 56 45							
22	156A 22	1853	BE	CTD		197	54 48 55	131 54 61	417			1			T: 10.63 S: 30.21
		1857	BO				54 48 59	131 54 67		250					T: 5.68 S: 33.57
		1901	EN				54 48 60	131 54 72							CHL/NUIS @ 10m
		1906	BE	NET		198	54 48 63	131 54 80							BONGO
		1930	BE	TRAWL		199	54 48 30	131 54 03							
22	156A 23	2101	BE	CTD		200	54 38 18	132 01 62	156			1			T: 10.81 S: 30.82
		2104	BO				54 38 05	132 01 76		145					T: 6.35 S: 33.23
		2107	CH				54 37 97	132 01 91							CHL/NUIS @ 10m
		2110	BE	NET		201	54 37 90	132 02 10		140					BONGO
		2136	BE	TRAWL		202	54 37 41	132 04 93							

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Month OCT				Year 2003			Ship W E RICKER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
22	ISCA 24	2240	BC	CTD		203	54 38 90	132 15 40	129			1	H.M.		T: 10.67 S: 30.55
		2243	BO				54 38 95	132 15 38		120					T: 8.17 S: 32.41
		2245	GM				54 38 98	132 15 38							CHL/NUTS @ 10 m
		2249	BC	NET		204	54 39 03	132 15 36		113					BONGO
		2311	BC	TRAWL		205	54 39 12	132 16 02							
23	ISCA 25	0023	BC	CTD		206	54 40 25	132 28 93	171			1			T: 10.83 S: 31.03
↑		0031	BO				54 40 28	132 28 86		160					T: 6.47 S: 33.21
*		0034	GM				54 40 29	132 28 82							SAL/CHL/NUTS @ 10m
		0043	BC	NET		207	54 40 23	132 28 79		150					BONGO
		0111	BC	TRAWL		208	54 39 85	132 29 88							
23	HS 1	1402	BC	CTD		209	53 52 16	130 58 91	66			1	H.M.	✓	T: 11.41 S: 31.38
		1404	BO				53 52 16	130 58 90		60					T: 11.15 S: 31.86
		1405	GM				53 52 16	130 58 89							SAL/CHL/NUTS @ 10m
		1409	BC	NET		210	53 52 12	130 58 87		55					BONGO
		1428	BC	TRAWL		211	53 51 58	130 57 92							

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BOT = bottle cast, no CTD
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* - 23 OCT - COMPUTER NMEA CAME UP WITH '28 JANUARY' ?

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year				Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments	
							Latitude	Longitude								
23	HS 02	1547	BE	CTD		212	53 47 72	130 48 13	136			1	H.M.		T: 11.46 S: 31.69	
		1550	BO				53 47 74	130 48 13		125					T: 8.15 S: 32.74	
		1553	EN				53 47 75	130 48 14							CHL/NUTS @ 10 m	
		1557	BE	NET		213	53 47 75	130 48 15	125						BONGO	
		1618	BE	TRAWL		214	53 47 42	130 47 36								
23	HS 03	1734	BE	CTD		215	53 44 79	130 37 47	98			1			T: 11.50 S: 31.61	
		1736	BO				53 44 78	130 37 45		90					T: 10.99 S: 31.87	
		1738	EN				53 44 77	130 37 43							CHL/NUTS @ 10 m	
		1742	BE	NET		216	53 44 78	130 37 37		85					BONGO	
		1800	BE	TRAWL		217	53 44 41	130 36 21								
23	IBC 06	1919	BE	CTD		218	53 39 80	136 27 63	127			1			T: 10.87 S: 29.89	
		1922	BO				53 39 82	130 27 62		120					T: 7.89 S: 32.59	
		1924	EN				53 39 84	130 27 60							CHL/NUTS @ 10 m	
		1928	BE	NET		219	53 39 86	130 27 55		115					BONGO	
		1950	BE	TRAWL		220	53 39 56	130 26 83								

Cast type: BOT = bottle cast, no CTD CTD = CTD without Rosette ROS = Rosette plus CTD

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

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

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month OCT				Year 2003			Ship W E RICKER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
23	IBC 07	2240	BC	CTD		221	53 28 09	129 59 49	301			1	H.m.		T: 10.51 S: 28.43
		2245	BO				53 28 05	129 59 48		250					T: 7.59 S: 32.76
		2250	CH				53 28 02	129 59 45							SAL/CHL/NUTS @ 10 m
		2257	BC	NET		222	53 27 81	129 59 27		150					BONGO
		2322	BE	TRAWL		223	53 26 96	129 58 08							
24	IBC 08	0039	BC	CTD		224	53 21 66	129 49 16	188			1			T: 10.42 S: 27.64
		0043	BO				53 21 65	129 49 12		180					T: 7.51 S: 32.80
		0046	CH				53 21 65	129 49 06							SAL/CHL/NUTS @ 10 m
		0051	BC	NET		225	53 21 61	129 48 93		150					BONGO
		0117	BE	TRAWL		226	53 21 02	129 47 94							
24	IBC 09	1403	BC	CTD		227	53 05 72	129 07 29	490			1	H.m.	✓	T: 9.81 S: 26.08
		1408	BO				53 05 74	129 07 21		250					T: 6.98 S: 33.07
		1413	CH				53 05 76	129 07 17							SAL/CHL/NUTS @ 10 m
		1418	BC	NET		228	53 05 76	129 07 06	150						BONGO
		1440	BE	TRAWL		229	53 06 48	129 06 81							

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INSTITUTE OF OCEAN SCIENCES

Month OCT				Year 2003			Ship W6 RICKER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
24	IBC 10	1559	BC	CTD		230	53 13 96	129 05 94	490		* (V)		H.M.		T: 9.74 S: 25.20
		16 07	BO				53 14 00	129 05 95		400					T: 6.82 S: 33.14
		16 21	CH				53 14 01	129 05 92							CHL/NUTS @ 10m
		16 28	BC	NET		231	53 14 01	129 05 89		150					BONGO SAL @ 400 T. SALIN
		16 51	BC	TRAWL		232	53 14 72	129 05 86							
24	IBC 11	1805	BC	CTD		233	53 20 52	129 11 34	430			1			T: 9.34 S: 24.43
		18 10	BO				53 20 56	129 11 45		250					T: 6.90 S: 33.04
		18 15	CH				53 20 60	129 11 50							CHL/NUTS @ 10m
		18 19	BC	NET		234	53 20 70	129 11 57		150					BONGO
		19 10	BC	TRAWL		235	53 20 55	129 12 42							
24	IBC 12	2101	BC	CTD		236	53 15 37	129 26 07	520			1			T: 9.92 S: 26.22
		21 05	BO				53 15 37	129 26 08		250					T: 7.08 S: 33.05
		21 10	CH				53 15 40	129 26 14							CHL/NUTS @ 10m
		21 14	BC	NET		237	53 15 42	129 26 22		150					BONGO
		21 42	BC	TRAWL		238	53 14 85	129 26 33							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
24	IBC 13	2251	BC	CTD		239	53 08 55	129 23 56	482			1			T: 10.77 S: 29.97
		2255	BO				53 08 55	129 23 54		250					T: 7.12 S: 33.05
		2259	EN				53 08 56	129 23 51							CAL/NUTS @ 10m
		2303	BC	NET		240	53 08 55	129 23 46		150					BONGO
		2323	BC	TRAWL		241	53 08 19	129 23 19							
25	IBC 14	0050	BC	CTD		242	53 01 50	129 15 40	382			1			T: 11.10 S: 30.09
		0054	BO				53 01 45	129 15 80		250					T: 7.12 S: 33.04
		0059	EN				53 01 40	129 15 74							SAL/CAL/NUTS @ 10m
		0102	BC	NET		243	53 01 32	129 15 65		150					BONGO
		0126	BC	TRAWL		244	53 00 25	129 15 61							
25	IBC 15	1404	BC	CTD		245	53 10 56	129 38 78	154			1	H.M	✓	T: 10.68 S: 30.54
		1407	BO				53 10 57	129 38 75		145					T: 7.98 S: 32.41
		1410	EN				53 10 58	129 38 71							SAL/CAL/NUTS @ 10m
		1414	BC	NET		246	53 10 59	129 38 67		142					BONGO
		1440	BC	TRAWL		247	53 10 07	129 37 96							

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							Latitude	Longitude							
25	IBC 16	1557	BC	CTD		248	53 04 82	129 32 92	145			1	H.M.		T: 10.59 S: 30.82
		1600	BO				53 04 85	129 32 93		140					T: 7.76 S: 32.64
		1603	CH				53 04 92	129 32 94							CHL/NUTS @ 10m
		1607	BC	NET		249	53 04 98	129 32 93		125					BONGO
		1627	BC	TRAWL		250	53 04 74	129 32 33							
25	IBC 17	1826	BC	CTD		251	52 56 70	129 24 09	170			1			T: 11.02 S: 31.16
		1829	BO				52 56 75	129 24 03		160					T: 7.87 S: 32.66
		1833	CH				52 56 81	129 24 02							CHL/NUTS @ 10m
		1856	BE	NET		252	52 56 78	129 23 63							BONGO
		1922	BE	TRAWL		253	52 56 11	129 22 93							
25	IBC 18	2024	BC	CTD		254	52 53 13	129 16 27	240			1			T: 10.95 S: 31.16
		2028	BO				52 53 14	129 16 16		230					T: 7.14 S: 33.08
		2032	CH				52 53 14	129 16 12							CHL/NUTS @ 10m
		2037	BC	NET		255	52 53 13	129 16 04		150					BONGO
		2059	BC	TRAWL		256	52 52 43	129 15 15							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
25	1BC 19	22 21	BC	CTD		257	52 46 64	129 08 37	205		* OVER	1	H.M.		T: 10.87 S: 30.67
		22 24	BO				52 46 67	129 08 33		200					T: 9.31 S: 32.19
		22 28	CH				52 46 68	129 08 25							CHL/NUTS @ 10m
		22 31	BC	NET		258	52 46 67	129 08 19		150					BONGO
		22 53	BC	TRAWL		259	52 46 09	129 07 60							
26	T 01	15 08	BC	CTD		260	51 16 56	128 19 88	75			1	H.M.	✓	T: 12.24 S: 31.86
		15 10	BO				51 16 59	128 19 84		70					T: 11.84 S: 31.96
		15 12	CH				51 16 60	128 19 81							SAL/CHL/NUTS @ 10m
		15 16	BC	NET		261	51 16 59	128 19 62		60					BONGO
		15 33	BC	TRAWL		262	51 16 29	128 20 42							
26	T 02	16 50	BC	CTD		263	51 12 51	128 27 85	191			1			T: 12.14 S: 31.86
		16 54	BO				51 12 50	128 27 75		180					T: 6.80 S: 33.53
		16 57	CH				51 12 50	128 27 69							SAL/CHL/NUTS @ 10m
		17 02	BC	NET		264	51 12 48	128 27 57		150					BONGO
		17 29	BC	TRAWL		265	51 12 22	128 28 05							TS SALINITY SAMPLE.
															LABELED CONT 263
															TS B

Cast type:

BOT = bottle cast, no CTD
 CTD = CTD without Rosette
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USW = sea water loop
 MOR = mooring
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Additional comments

⊗ - CANNOT COPY CTD257.DAT TO ZIP DISK - WILL NOT CREATE FILE? - NEW ZIP DISC OK

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Month OCT				Year 2003			Ship WE RICKER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
26	T 03	1842	BC	CTD		266	51 08 55	128 35 70	144			1	H.M.		T: 11.89 S: 31.88
		1845	BO				51 08 56	128 35 58		135					T: 8.09 S: 32.62
		1848	CM				51 08 58	128 35 47							SAL/CHL/NTS @ 10m
		1852	BC	NET		267	51 08 50	128 35 32		133					BONGO
		19 11	BC	TRAWL		268	51 08 22	128 33 72							
26	T 04	2022	BC	CTD		269	51 04 49	128 43 82	63			1			T: 11.95 S: 31.82
		2024	BO				51 04 47	128 43 79		55					T: 11.45 S: 31.92
		2025	CM				51 04 46	128 43 75							SAL/CHL/NTS @ 10m
		2029	BC	NET		270	51 04 43	128 43 73		50					BONGO
		2053	BC	TRAWL		271	51 03 21	128 44 44							
26	T 05	2158	BC	CTD		272	51 00 07	128 52 09	62			1			T: 11.82 S: 31.85
		2159	BO				51 00 05	128 52 09		55					T: 11.76 S: 31.86
		2201	CM				51 00 03	128 52 09							SAL/CHL/NTS @ 10m
		2204	BC	NET		273	50 59 97	128 52 09		50					BONGO
		2221	BC	TRAWL		274	50 59 28	128 52 07							

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Month OCT				Year 2003			Ship WE RICKER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
26	T 06	23 18	BE	CTD		275	50 55 86	128 59 73	60			1			T: 12.03 S: 31.90
		23 19	BO				50 55 81	128 59 74		50					T: 11.30 S: 31.88
		23 20	EN				50 55 79	128 59 74							SAL/CHL/NUTS @ 10 m
		23 26	BE	NET		276	50 55 61	128 59 78		45					BONGO
		23 53	BE	TRAWL		277	50 55 18	129 01 19							
27	T 07	01 35	BE	CTD		278	50 48 94	129 13 39	110			1			T: 12.23 S: 31.88
		01 37	BO				50 48 93	129 13 38		100					T: 10.52 S: 32.15
		01 39	EN				50 48 93	129 13 37							SAL/CHL/NUTS @ 10 m
		01 43	BE	NET		279	50 48 90	129 13 38		95					BONGO
		02 05	BE	TRAWL		280	50 48 56	129 14 31							
27	T 08	03 44	BE	CTD		281	50 42 06	129 29 01	~1900			1			T: 12.17 S: 31.90
		03 49	BO				50 42 06	129 28 98		250					T: 6.51 S: 33.96
		03 53	EN				50 42 06	129 28 98							SAL/CHL/NUTS @ 10 m
		03 58	BE	NET		282	50 42 09	129 28 99		150	NO TRAWL				BONGO

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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

Time Code

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

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

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

28 May 2003
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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month OCT				Year 2003			Ship W E RICKER				Cruise ID 2003-36				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
27	T 09	0511	BE	CTD		283	50 37 39	129 39 03	2000+			1	H.M.		T: 12.65 S: 31.93
		0516	BO				50 37 38	129 39 02		250					T: 5.96 S: 33.83
		0520	GN				50 37 37	129 39 04							SAL/CAL/HUTS @ 10m
		0524	BE	NET		284	50 37 37	129 39 07		150	NO TRAWL				BONGO
27	T 10	0637	BE	CTD		285	50 32 25	129 49 27	2000+			1			T: 12.70 S: 32.12
		0641	BO				50 32 24	129 49 30		250					T: ? S: ?
		0646	EN				50 32 23	129 49 34							SAL/CAL/HUTS @ 10m
		0652	BE	NET		286	50 32 22	129 49 36		150	NO TRAWL				BONGO
27	T 11	0803	BE	CTD		287	50 27 56	129 59 58	2000+			1			T: 12.70 S: 32.08
		0808	BO				50 27 56	129 59 68		250					T: 5.65 S: 33.86
		0813	GN				50 27 47	129 59 73							SAL/CAL/HUTS @ 10m
		0819	BE	NET		288	50 27 42	129 59 82		150	NO TRAWL				BONGO
27	T 12	0939	BE	CTD		289	50 22 50	130 09 77	2000+			1			T: 12.61 S: 31.99
	(2nd)	0949	BO				50 22 41	130 09 74		500					T: ? S: ?
		1000	GN				50 22 32	130 09 71			DEEP SAL		SURF SAL		SAL/CAL/HUTS @ 10m
	(1st)	0922	BE	NET		290	50 22 66	130 09 68			NO TRAWL				BONGO

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