

DAILY LOG BOOK

MISSION
NUMBER

2004-25

DATE:

From: September 2 2004 to: September 11 2004

VESSEL:

Tow P Tug

PROJECT:

LA Perouse

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

DAILY LOG Ocean Sciences and Productivity Division INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
Sept			2004			Tully			2004-25						
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							
3	CPE1	0215	05	ROS		1	51 00.05	127 50.09	143						WABUC CRUISE # 12
		0220	30			1	51 00.04	127 50.09		135	t-3	3	UK SR		
		0226	EN			1	51 00.04	127 50.09							
3	CPE1	0240		NET		2	51 00.05	127 50.07		135					1 HOURPACK
3	LOOP1	0253	EN	USW			51 4.31	127 56.59	150		CNC, SAC	2	DT MA		
3	10002	0651 UTC?		USW			51 28.285	128 44.144	100		CHL, SAL	2	SK, DM		
3	20003	11:01		USW			51 55.26	129 36.57			" "	2	DA		
3	LOOP4	1451		USW			52 20.06	130 24.67	231		" "	2	MA		
3	M008	1627	30	NET		3	52 28.62	130 29.01	175						
		1632	EN				52 28.66	130 28.94		165 *					*Wine out
3	M008	1644	05	ROS	US	4	52 28.53	130 29.01	176		4-7	4		✓	WABUC CRUISE # 12
		1650	00				52 28.60	130 29.04		120					
		1656	EN				52 28.77	130 29.08							
3	LOOP5	1902		USW		5	52 27.85	129 56.03	237		CU, SAL	2	MA		
3	LOOP6	2302		USW		6	52 16.25	130 16.84	421		" "	2	DA		
4	LOOP7	0253		USW		7	51 57.44	130 17.97	295		" "	"	MA		
4	LOOP8	0703		USW		8	51 34.38	129 25.68	56		" "	3	DFW.		
4	LOOP9	1101		USW		9	51 36.60	129 58.68	301						

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

BONGO LUNCH AND SOME PROBLEMS REACHING 1 M/SEC UPON RETRIEVAL, COULD ONLY GET TO 0.5 M/SEC → CREW WILL LOOK INTO THE PROBLEM - LOTS OF TIME BEFORE NEXT BONGO STN.

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

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							Latitude	Longitude							
4	G102	1243	DE	ROS	86	10	51 30.26	129 37 38	147			3		X	GROD cont changed =>
		1247	BO		80		51 30.29	129 37 33		140	8-10				
		1253	EN		EN		51 30.35	129 37 33							
4	G102	1313	BO	NET	BO	11	51 30.35	129 37 33	141	135					Borgo unit
4	L00P10	1500		USW		12	51 14.889	129 28.634	292						L00P
	B101	1922	BC	B101	BE	13	51 25.9	129 12.88	~100	85					
		2018	EN		EN		51 23.9	129 10.15							benets taken
4	L00P11	2115				14	51 28.602	129 06.852	54						
4	B102	2204	BE	ROS		15	51 25.58	128 56.01							
5	CS10	0120	BE	CFD		16	51 16.52	128 19.99	78				DA/SR	X	
		0123	BO				51 16.52	128 20.00		75		Ø			
		0125	EN				51 16.52	128 20.01							
5	CS10	0140	BO	NET		17	51 16.52	128 20.01	78	72					
5	CS5	0230	BO	NET		18	51 12.50	128 27.96	192	135					

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OSBCRD.CON has been altered to reflect
changing To, T, C, & froms.
~~the configuration page~~ for SR.



+ change transmission from 723 to 333

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
SEPTEMBER			2004			TDW P TULLY			2004-25						
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							
5	CS9	0254	BE	ROS	US	19	51°12.50	128°28.02	197		185	11-21	11	X	
		0259	Bo				51°12.51	128°28.02							
		0312	CH				51°12.51	128°27.96							
5	CS8	0406	BE	ETD		20	51°08.45	128°35.99	144					✓	Got kicked out of Seaview @ beginning. →
		0409	Bo				51°08.44	128°36.03			135		Ø		
		0411	EN				51°08.43	128°36.04							
5	CS8	0429	Bo	NET		21	51°08.43	128°35.96	143						
		0432	EN				51°08.40	128°35.92			135				
5	CS7	0523	Bo	NET		22	51°04.51	128°43.92	65						
		0525	EN				51°04.51	128°43.92			55				
5	CS7	0535	Be	ROS		23	51°04.50	128°44.00	64						
		0538	Bo				51°04.50	128°43.99			57		Ø		
		0540	EN				51°04.49	128°44.01							
5	CS6	0632	BE	ROS	US	24	51°00.01	128°50.02	65					✓	
		0636	Bo				51°00.01	128°50.01			61	22-27	6		
		0642	EN				51°00.01	128°49.99							

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28 May 2003

Daily_Log_book.doc

Computer crashed @ beginning of 0010 (0387). There is a note previous page saying 0550 CTD.CON
was modified, but CTD 0550 is in the log? So is need 2004-25-0019.CON
→ Re-set it to 0585 CTD.CON after the reset.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month			September			Year			2004			Ship			JOHN P. TULLY			Cruise ID			2004-25			Comments
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										
5	CS6	0659	B0	NET		25	51°00.06	128°49.93	65															
		0700	EN				51°00.10	128°49.89		55														
5	CS5	0803	BE	NET		26	50°56.054	129°00.002	64															
1	1	0812	B0	1		1	50°56.644	129°00.054		55														
		0814	EN				50°56.243	129°00.051																
5	CS05	0829	BE	ROS		27	50°58.10	128°59.95	63					X										
1	1	0834	B0	1		1	50°56.184	128°59.842		60		Ø		Pump off START										
		0836	EN				50°56.21	128°59.86																
5	CS3B	1043	BE	ROS		28	51°0.04	129°27.00	221						X									
1	1	1050	B6	1		1	51°0.04	129°27.03		216		Ø		Pump off START										
		1055	EN				51°0.09	129°27.48	221															
5	CS3B	1056	BE	ROS		29	51°0.09	129°27.00		216					X									
1	1	1100	B0	1		1	51°0.12	129°26.96				Ø		BOMBO TO 210m										
		1104	EN				51°06.14	129°26.93																
5	CS3B	1120	B0	NET		30	51°0.20	129°26.85	221	210														
5	LOOP12	1145		USW			50°59.19	129°30.14	235															
5	ODAS	1342	B0	NET		31	50°51.39	129°55.24		250														

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28 May 2003
Daily_Log_book.doc

LOTS OF SETTLIES IN BOND AT CSOS - SALPS / MEDUSAE

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		SEPTEMBER		Year		2004		Ship		JOHN P. TULLY		Cruise ID		2004-25	
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							
5	ODAS	1423	BE	ROS CTD		32	50 51.39	129 55 12	2129					?	
		1452	BO				50 51.47	129 55.26		2005		Ø	DA/52		
		1518	EN				50 51.76	129 55 61							
5	CS4	1822	BE	ROS	US	33	50 49.19	129 13.18	100					✓	
		1827	BO				50 49 26	129 13.37			28-34	7			
		1835	EN				50 49.38	129 13.57							
5	CS4	1851	EN	NET		34	50 49.49	129 13.71	100						
	CS3		BE	NET		35	50 45.80	129 19.89	243						
5	CS3	2010	DE	ROS		36	50 45.68	129 20.07	240						Niskin 11 spigot swapped off - replaced to 23
1	1	2016	BO	1		1	50 45.68	129 20.09		235		Ø	DA/DA/52	X	
		2019	EN				50 45.68	129 20.11							
5	CS02	2112	BE	ROS		37	50 41.26	129 27.93	1915		35-55	Ø1			Blue out-rack
	1	2134	BO	1		1	50 41.30	129 28.02		1908					
		2227	EN				50 41.27	129 27.89							
5	CS02	2249		NET		38	50 41.278	129 28.014							Boat 50
6	CS01	0013		NET		39	50 34.503	129 41.506	2115	250					OXY chemicals → Bongo UNIT

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5 Sept 0753 local: Start Time in 0 2 gr Sep 4th

Pod of 20-30 Humpback w HES

Changed Manganese Chloride & albatross iodide chemicals in an attempt
to reduce a problem: large undissolved clumps in samples
after they were clean acidified for titration.
Data on "old" Manganese Chloride: Oct 22/02?
"new" " " " " April 21/03?
Do these chemicals expire?

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Month				September		Year		2004		Ship		SDAN 0 NLLY		Cruise ID				2004-25		Comments
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						
							Latitude	Longitude												
6	CS1	0031	BE	ROS		40	50 34.92	129 41.49	2100											
		0103	BO				50 34.89	129 41.51												
		0121	EN				50 34.90	129 41.52												
6	CS00	0245	BE	ROS		41	50 27.70	129 55.13	2188		56-75	20	DA/SR	X						
		0310	BO				50 27.68	129 55.08		2005										
		0403	EH				50 27.67	129 55.07												
6	CS00	0431	BO	NET		42	50 27.65	129 55.07	2186	250										
		0437	EN				50 27.64	129 55.05												
6	J122	0730	BO	NET		43			~1900										Large	
		0744	BO				50 39.88	129 17.25		250										
		0752	EN				50 39.90	129 17.14												
6	J122	0812	BE	ROS		44	50 39.73	129 17.10	~1200											
		0833	BO				50 39.78	129 16.87		1211										
		0848	EN				50 39.82	129 16.54											1.3 hrs on str	
6	LQ03	0957	BE	ROS		45	50 39.75	129 2.07	~1250											
		1016	BO				50 39.90	129 2.31		1334										
		1028	EN				50 39.98	129 2.42											miss sig. on upcast @ 1150-50m	
6	LQ03	1035	BO	NET		46	50 40.03	129 2.49		250									Large	
6	LQ03	1054	EN	NET		46	50 40.03	129 2.49												

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Month			Year			Ship			Cruise ID			Comments			
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	
							Latitude	Longitude							
4	CPE2	1236	B0	NET		47	50 47.973	128 35.716	128	120					Reconnected transmission isomoter
6	CPE2	1255	BE	ROS		48	50 42.95	128 39.60	129		—	—	DA/SR	?	
		1259	B0				50 42.90	128 39.56		120					
		1302	EN				50 42.88	128 39.54							
6	LBP1	1752	BE	ROS		49	50 04.75	127 52.79	57					✓	
		1756	B0	.			50 04.74	127 52.78		50		Ø			
		1758	EN				50 04.73	127 52.77							
6	LBP2	1816	BE	ROS		50	50 03.96	127 54.19	100			Ø		✓	
		1820	B0				50 03.95	127 54.18		95					
		1823	EN				50 03.94	127 54.17							
6	LBP2	1837	B0	NET		51	50 03.82	127 54.06	103						Little bit in rosette cables
		1841	EN				50 03.75	127 54.09	113	90					
6	LBP3	1900	BE	NET		52	50 03.20	127 55.27	168						
1	1	1908	B0	1		1	50 3.17	127 55.32		155					Booby
		1915	EN	1			50 3.20	127 55.30							
6	LBP3	1924	BE	ROS		53	50 3.19	127 55.30	168					✓	
1	1	1926	B0	1		1	50 3.20	127 55.31		163	76-85	10	DA DISK		
1	1	1941	EN	1		1	50 3.15	127 55.23							

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6 Sept 0900 local: Start Tera Tera Plu 2004-25 gps 6 sept.txt

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Month			Year			Ship			Cruise ID						
SEPTEMBER			2004			TOW P TULLY			2004-25						
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							
6	LBP4	2020	BE	ROS		54	50 1.39	127 58.07	~990						right on sta
1	1	2033	BO	1		1	50 1.40	127 58.10	11	1084					7m off bottom
		2045	EN				50 1.41	127 58.12							1st depth 109m
6	LBP5	2116	BE	ROS		55	50.0.00	127 59.77	1270						
1	1	2133	BO	1		1	50 0.01	128 0.02		1280	86-104	19			
		2221	EN				49 59.99	128 0.02							
6	LBP5	2242	BO	NET		56	49 59.72	128 0.029	1258	250					Bongo
6	LBP6	2325	BE	ROS		57	49 56.21	128 05 51	773				DA/SR		
		2338	BO				49 56.20	128 04 49		824					
		2346	EN				49 56.20	128 05 51							
7	LBP7	0036	BE	ROS		58	49 52.41	128 11.18	2198						
		0059	BO				49 52.42	128 11.19			105-126	22	DA/SR		Trans. cleaned
		0204	EN				49 52.41	128 11.18							Trans. cleaned
7	LBP7	0222	BO	NET		59	49 52.354	128 11.210	2198	250					Bongo

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							Latitude	Longitude							
7	L308	0346	BE	ROS		60	49.48.60	128.16.82	2084					✓	Transmissometer gone!
		0411	BO				49.48.61	128.16.80		2005		Ø			Lens fine @ 2005
		0431	EN				49.48.61	128.16.81							
7	L609	1102	BE	ROS		81	48.51.19	127.19.38	2065	2000		Ø			Changed Xmas to 723 DR
		1146	BO				48.51.18	127.19.40							
		1204	EN				48.51.17	127.19.39							
7	L609	1220	BO	NET		62	48.51.178	127.19.357	2065	250					
7	L608	1314	BE	ROS		63	48.55.23	127.13.32	2075			Ø	DA/SE		
		1343	BO				48.55.14	127.13.49		2000					
		1406	EN				48.55.08	127.13.57							
7	L67	1509	BE	ROS		64	48.59.390	127.07.210	1769					✓	
		1533	BO				48.59.230	127.07.513		1767		Ø			
		1550	EV				48.58.997	127.07.433							
7	L67	1605	BO	NE		65	48.58.76	127.07.42							
		1611	EN				48.58.76	127.07.34		250					

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Sept 7 0836 local - started new GPS file 2004-25 GPS ...

Sept 8 0745 local - Start new GPS file 2004-25 GPS & Sp. tr.

DAILY LOG

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INSTITUTE OF OCEAN SCIENCES

Month			September			Year			2004			Ship			Jamaica Bay			Cruise ID			2004-25		
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Longitude		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments						
7	LG6	1721	BE	ROS		66	49 03 500	127 01 219	967		988	127-144	18			✓							
		1734	BO				49 03 46	127 01 38															
		1807	EN				49 03.23	127 01.72															
7	LG5	1906	BE	ROS		67	49 7.37	126 55.33	280					0	AM	X							
		1911	BO				49 7.32	126 55.35			275												
		1915	EN				49 07 38	126 55 35															
7	LG04	2005	BE	CTD/R		68	49 11.31	126 49.40	146							✓							
		2009	BO				49 11.32	126 49.39			140	145-153	9										
		2021	EN				49 11 35	126 49.43															
7	"	2035	BO	NET		69	49 11.35	126 49 43			135						Bongo to 135						
	LG03	2126	BO	NET		70	49 15.01	126 43.71	126		110						Bongo to 110						
7	LG03	2139	BE	ROS		71	49 15.00	126 43.67	124							X							
		2142	BO				49 14.99	126 43.67			126			0									
		2144	EN				49 14.99	126 43.68															
7	LG02	2224	BE	ROS		72	49 18.73	126 38.09	101							✓							
		2227	BO				49 18.72	126 38.06			96	154-160	7										
		2235	EN				49 18.72	126 38.02															

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DN = down / no stop

Time Code

BE = Beginning time of cast

BO = bottom time of cast

EN = end time of cast

DE = deployment time

MR = messenger release time

RE = recover mooring time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
SEPTEMBER			2004			John P Tully			2004-25						
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							
7	LCG1	2313	BE	ROS		73	49 20.51	126 35.03	54						
		2315	BO				49 20.52	126 35.02			161-165	5	DA/SR		
		2321	EN				49 20.49	126 34.99							
8	LD01	0327	BE	CTD		74	49 00.103	125 43.829	39					✓	
		0329	BO				49 00.096	125 43.826		29	—	—			
		0330	EN				49 00.097	125 43.828							
	LD2	0400	BE	ROS		75	48 58.355	125 47.084	40					✓	
		0401	BO				48 58.348	125 47.098		37	166-170	5			
		0406	EN				48 58.349	125 47.110							
	LD2	0421		NET		76	48 58.34	125 47.11	40	38					Bombs
	LD3	0444	BE	CTD		77	48 56.014	125 50.363	44					✓	
		0445	BO				48 56.045	125 50.401		32					
		0446	EN				48 56.015	125 50.410							
8	LD4	0527	BE	ROS		78	48 53.15	125 57.03	65					✓	
		0530	BO				48 53.15	125 57.03		56	171-176	6			
		0536	EN				48 53.15	125 57.06							
8	LD4	0550	EN	NET		79	48 53.16	125 57.06		55					Bombs

Cast type: USW = sea water loop

BOT = bottle cast, no CTD

CTD = CTD without Rosette

ROS = Rosette plus CTD

bottle firing method:

US = up / stop

UN = up / no stop

DN = down / no stop

Time Code

BE = beginning time of cast

BO = bottom time of cast

EN = end time of cast

DE = deployment time

MR = messenger release time

RE = recover mooring time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month			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							
8	LD5	0637	BE	CTD		80	48 49 700	126 03 565	92					✓	
8	LD5	0639	B0	ROS			48 49 693	126 03 604		82		Ø			
8	LD5	0641	EN				48 49 694	126 03 616							
8	LD6	0738	CE	ROS		81	48 46.16	126 10.12	138				MDK	✓	
1	1	0741	B0	1		1	48 46.14	126 10.13		132	177-185	9			
1	1	0754	EN				48 46.08	126 10.18							
8	LD7	0846	BE	ROS		82	48 42.69	126 16.82	478						
1	1	0858	B0	1		1	48 42.70	126 16.84		532		Ø		✓	
1	1	0907	EN				48 42.71	126 16.84							
8	LD08	0956	CE	ROS		83	48 39.21	126 23.37	776					✓	
1	1	1011	B0	1		1	48 39.23	126 23.17		758	186-202	17			Toodred bottom
1	1	1041	EN				48 39.26	126 22.78							
8	LD09	1144	BE	ROS		84	48 35.71	126 29.87	1069						
		1207	B0				48 35 85	126 29. 55				Ø			
		1219	EN				48 35 77	126 29 77							
8	LD09	1234	B0	NET		85	48 35.846	126 29.150	1069	250					Bongo
8	LD09	1307		SW			48 34 06	126 32.76	1360						

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:

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

MFR = messenger release time

RE = recover mooring time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
Sept			2004			Tully			2004-25						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
8	LD10	1333	BE	ROS		86	48 32.22	126 36.50	1480		203-223	21	DA 52		
		1357	BO				48 32.23	126 36.26							
		1411	CT				48 32.21	126 36.16							
8	LD11	1458	BE	ROS		87	48 28.75	126 42.97	~1600?					✓	
		1524	BO				48 28.50	126 42.86		1620	203-223	21			
		1617	EN				48 27.84	126 42.28							
8	LC12/AA	1834	BE	ROS		88	48 15.06	126 39.98	2540?			21		✓	2540? 2440?
		1859	BO				48 15.04	126 39.99							
		1917	BN				48 15.02	126 40.02							
8	LC12	1937	BO	NET		89	48 14.98	126 39.99	2500	250		21			
8	LC11	2156	BE	ROS		90	48 18.97	126 26.70	1470?			21			
1	1	2214	BO			1	48 18.95	126 26.69		1470					
		2232	EN				48 18.96	126 26.69							
8	LC10	2322	BE	ROS		91	48 22.42	126 20.21	1254			21			
		2337	BO				48 22.39	126 20.21		1240					
		2348	EN				48 22.40	126 20.21							

Cast type: USW = sea water loop

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

bottle firing method:

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

Time Code

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

DE = deployment time

MR = messenger release time
RE = recover mooring time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
September			2004			John P. Tully			2004-25						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
09	LC69	0047	BE	ROS		92	48 25.93	126 13.82	624		224-239	16	DA/SR		occasionally when computer is down
		0055	BD			93	48 25.91	126 13.80		613					
		0128	EN				48 25.93	126 13.73							
09	LC69	0145	BO	NET		94	48 25.956	126 13.773	624	250					
9	LC68/	0254	BD	NET		95	48 29.433	126 07.113							
	A1														
9	LC63/	0311	BE	ROS		96	48 29.483	126 07.074	202						
	A1	0315	BO				48 29.483	126 07.060		187					
		0317	EN				48 29.473	126 07.054							
9	LC67	0414	BE	ROS		97	48 32.957	126 00.515	131						
		0416	BO				48 32.956	126 00.515		121					
		0419	EN				48 32.941	126 00.509							
9	LC6/B6	0511	BE	ROS		98	48 36.47	125 54.03	95						
		0514	BO				48 36.47	125 54.03		88	240-246	7			
		0522	EN				48 36.47	125 54.01							
9	LC6/B6	0532	EN	NET		99	48 36.47	125 53.98							

Cast type: USW = sea water loop

bottle firing method:

Time Code

ROS = Rosette plus CTD
CTD = CTD without Rosette
BOT = bottle cast, no CTD
NET = net haul
DRF = drifter

US = up / stop
UN = up / no stop
DN = down / no stop
BE = beginning time of cast
BO = bottom time of cast
EN = end time of cast
DE = deployment time
MR = messenger release time
RE = recover mooring time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
September			2004			Star			Polly			2004-25			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
09	LC05	0631	EN	Net		100	48 39.955	125 47.460	67	60					Net
9	LC05	0654	BE	Ros		101	48 39.96	125 47.48	66				STDM SL	✓	
1	1	0656	BO	1			48 39.98	125 47.47		61		0			CTD only
1	1	0658	EN				48 39.98	125 47.47							
9	LC04	0750	BE	Ros		102	48 43.48	125 40.80	170				"	X	
1	1	0754	BO	1			48 43.51	125 40.80			247-256	10			
1	1	0809	EN				48 44.00	125 40.78							
9	LC03	0912	BE	Ros		103	48 46.29	125 34.23	136				"	✓	CTD only
1	1	0916	BO	1		1	48 47.02	125 34.21		130		0			
1	1	0918	EN				48 47.04	125 34.19							
9	LC02	0953	BE	Ros		104	48 48.70	125 30.94	110				"	✓	
1	1	0955	BO	1			48 48.71	125 30.93		105	257-263	7			
1	1	1007	EN			1	48 48.75	125 30.88							
9	LC01	1043	BE	Ros		105	48 50.44	125 27.73	96					✓	
1	1	1045	BO	1			48 50.45	125 27.71			264-270	7			
1	1	1054	EN			1	48 50.45	125 27.71							
9	LC0P14	1135		USW			48 47.81	125 20.49	92			3	DA		

Cast type: BOT = bottle cast, no CTD

USW = sea water loop

bottle firing method:

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

Daily_log_book.doc

MOR = mooring
NET = net haul
ROS = Rosette plus CTD
DRF = drifter

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

CTD = CTD without Rosette

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

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

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

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

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

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

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month			Year			Ship			Cruise ID						
Sept			2004			Tully			2004-25						
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	L301	1315	BE	ROS		106	46 40.46	124 59.53	35						
		1318	BO				46 40.41	124 59.56		30	271-274	41	DA/SR	/	
		1322	EN				46 40.41	124 59.45							
9	L302	1356	BE	ROS		107	46 39.01	125 02.42	57						
		1358	BO				46 39.01	125 02.42		52	275-279	5			
		1403	EN				46 39.04	125 02.41							
9	L303	1442	BE	ROS		108	48 37.36	125 05.68	94					/	
		1445	BO				48 37.38	125 05.71		88	-	Ø			
		1447	EN				48 37.37	125 05.73							
9	L34	1514	BE	ROS		109	48 35.66	125 08.81	115					/	
		1519	BO				48 35.65	125 08.89		108	280-286	7			
		1527	EN				48 35.64	125 09.06							
9	L35	1556	BE	ROS		110	48 33.95	125 12.09	104					/	Cleaned bottles
		1600	BO				48 33.92	125 12.15		95	-	Ø			
		1602	EN				48 33.90	125 12.17							
9	L36	1636	BE	ROS		111	48 32.09	125 15.67	117						
		1639	BO				48 32.09	125 15.720		108	287-293	7		/	
		1646	EN				48 32.07	125 15.847							

Cast type:

USW = sea water loop

bottle firing method:

Time Code

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

MOR = mooring
NET = net haul
DRF = drifter

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

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

Sept 9 LBS - cleaned bottles + sp spots with Iso prep

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						
9	LB7	1731	BE	ROS	—	112	48 32 470	158		—	0		✓	
		1735	BO				48 28 663		149					
		1738	EN				48 28 654							
9	LB8	1821	BE	ROS		113	48 25 31	158		294-303				
		1826	BO				48 25 31		151					
		1836	EN				48 25 35							
9	LB9	1918	BE	ROS		114	48 22 00	152					✓	
1	1	1920	BO				48 22 00		148	304-312	9			
		1934	EN				48 21 98							
9	LB10	2024	BE	CTD		115	48 18 56	156				DEY	✓	
		2029	BO				48 18 59		149	—	0			
		2032	EN				48 18 59							
9	LB11	2120	BE	ROS		116	48 15 19	200	207	313-323	11	DFM	✓	
		2123	BO				48 15 18							
		2146	EN				48 15 20							
9	LB12	2241	BE	ROS		117	48 12 94	510	500	324-339	16	DFM	✓	
		2248	BO				48 12 93							
		2327	EN				48 12 92							

Cast type: USW = sea water loop

bottle firing method:

Time Code

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

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

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

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

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month			Sept		Year			2004			Ship			Tully		Cruise ID					2004-25	
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	LB13	0013	BE	ROS		118	48 10.58	125 56.13	875													
		0026	BO				48 10.58	125 56.13		917			DR/SR	X	Porpoises							
		0040	EN				48 10 59	125 56.15														
10	LB14	0127	BE	ROS		119	48 08 48	125 59.98	1185													
		0142	BO				48 08.49	125 00.01		1180	340-358	19	DR/SR		Turn							
		0212	EN				48 08.49	125 00.00														
10	LB15	0344	BE	RQS		120	48 04.36	126 08 47	1555					X	No more trans. Alvid.							
		0409	BO				48 04.37	126 08.47	1565	1555												
		0427	EN				48 04.37	126 08.47														
10	LB16	0524	BE	ROS		121	48 00 533	126 17 017	1797													
		0550	BO				48 00 540	126 17 017		1812					Found some Trans. Furid							
		0605	EN				48 00 530	126 17 022							Started event # 122							
															then re start # 121							
10	LB16	0629	BO	NET		122	48 00.54	126 16 97	1807	250												
10	A-2	0854	BE	NET		123	48 22.69	126 3.76	357						Boat							
		0902	BO				48 22.69	126 03.69		250												
10	A-2	0920	BE	ROS		124	48 22.81	126 3.68	347													
		0927	BO				48 22.88	126 3.75		339												
		0931	EN				48 22.96	126 3.75														
10	LOOP 15	1100		USW			48 32.46	125 53.98	92			3										

Cast type: USW = sea water loop

bottle firing method:

Time Code

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

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

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

→ all samples have station as 1812 on label

LB16 - Staked cast of surface w/ event #122. Realised #122 was not event number of LB16
So re-staked cast using #121

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship		Cruise ID									
Sept		2004		Tolly		2004-25									
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	B3	1252	BE	ROS		125	48 51.11	125 39.35	51						
		1255	EO				48 51.11	125 39.43		45					
		1256	EN				48 51.44	125 39.44							
10	B3	1341	EO	NET		126	48 51.06	125 35.35	44	40					Bongo
10	B7	1601	EO	Net		127	48 31.99	125 35.2	76	66					Bongo
10	B7	1614	BE	ROS		128	48 32.13	125 35.71	76						
		1616	EO				48 32.19	125 35.88		70					
		1618	EN				48 32.23	125 35.84							
10	B8	1705	BE	ROS		129	48 34.48	125 30.08	128						
		1707	EO				48 34.49	125 30.07		120					
		1710	EN				48 34.50	125 30.07							
10	B8	1722	EO	Net		130	48 34.50	125 30.05	128	110					Bongo
10	C3	1900	EO	Net		131	48 23.51	125 20.77	125	116					Bongo

Cast type: USW = sea water loop

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

bottle firing method:

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

Time Code

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

DE = deployment time

MR = messenger release time
RE = recover mooring time

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		September 2004		Year		2004		Ship		SDAN		P. Tully		Cruise ID		2004-25		Comments
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position	Latitude	Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned			
10	C3	1913	SE	ROS		132	48 23.48	125 20.76		124				W4 DM 512	✓			
✓	✓	1916	BO	✓		✓	48 23.49	125 20.76			120		Ø					
	✓	1917	EN	✓		✓	48 23.49	125 20.77										
10	C1	2007	BE	ROS		133	48 28.77	125 15.37		154			Ø		✓			
✓	✓	2011	BO	✓		✓	48 28.98	125 15.37			148							
	✓	2012	EN	✓		✓	48 28.98	125 15.37										
10	C1	2029	BO	NET		134	48 28.96	125 15.37		154	147						Bongo Bongo	
10	C2	2127	BO	NET		135	48 25.44	125 07.81		142	137						Bongo Bongo	
10	C2	2139	BE	ROS		136	48 25.44	125 7.79		142							no touch!	
✓	✓	2143	BO	✓		✓	48 25.44	125 7.82			141							
	✓	2145	EN	✓		✓	48 25.44	125 7.81										
10	E1	2248	BE	ROS		137	48 31.72	125 03.84		118								
✓	✓	2251	BO	✓		✓	48 31.70	125 03.83			110		Ø	W4/SR	x		Rain with chem. xmas gum sure.	
	✓	2252	EN	✓		✓	48 31.70	125 03.83										
10	E-1	2304	BO	NET		138	48 31.78	125 03.89		111	105							

Cast type: USW = sea water loop bottle firing method: US = up / stop BE = beginning time of cast DE = deployment time

BOT = bottle cast, no CTD MOR = mooring UN = up / no stop BO = bottom time of cast MR = messenger release time

CTD = CTD without Rosette NET = net haul DN = down / no stop EN = end time of cast RE = recover mooring time

ROS = Rosette plus CTD DRF = drifter

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