

DAILY LOG BOOK

MISSION
NUMBER

2006-14

DATE:

From: 12 SEPTEMBER to: 20 SEPTEMBER 2006

VESSEL:

JOHN P TULLY

PROJECT:

LA PEROUSE

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

Captain: BILL NOON First Officer: DARYL MINTENIKO
Second Officer: SHANE LOVELACE Third Officer: ERIKA BACKMEYER

Mission Participants / Agencies: TOS

Scientific Personnel:

Party Chief:

Scientific Personnel:		Party Chief:		Doug Velland G	
Name		Watch	Cabin	Name	
MARIE ROBERT		8-12	A	NICK HALL-PATCH	UP STBD
DEBORAH FAUST		12-4	B		
JANET BARWELL-CLARKE		-	C		
Doug Anderson		12-4	D		
STEVE ROMANE		4-8	E		
ANDREW		4-8	F		
ALEX		4-8	F		
Doug Velland		8-12	G		
Doug Moore		8-12	H		
MOIRA GALBRAITH		12-4	UP PORT		

Second leg of Mission:

Party Chief:

[illegible]

Data logging computer:

PAC 02328

Data acquisition program: _____

SEASIDE WIN 32, 5.37 d

CTD deck unit make: _____ model: _____ serial number: 0508

Primary CTD

Make: _____ model: _____ serial number: 0550

Primary temperature serial number: 2668 model.

Primary conductivity serial number: 2399

Secondary temperature serial number: 2038

Secondary conductivity serial number: 2754

Transmissometer: 723 Model: 723

Fluorometer: Model 2228 Cable g

Oxygen sensor: 47 Cable: 511211 Model:

PAR sensor: _____ Model: _____

Other sensors: ALTIMETER

Other sensors: _____

Other sensors: _____

Other sensors:

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____ model: _____

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer:

Fluorometer: Model

Oxygen sensor: _____

PAR sensor: _____

Other sensors:

Other sensors:

Other sensors: _____

Other sensors:

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month 9				Year 2006				Ship Tully				Cruise ID 2006-14				
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	
13	SI 03	0333		CTD		0001	48 35 54	123 30.65	223						✓	
		0338					48 35 54	123 30 07		217						
		0351					48 35 54	123 30 10								
13	LOOP 1	1500	BE	USW	—	—	48 32 35	124 48.46	147				MR			SAL, CHL
13	LOOP 2	1927	"	USW	—	—	48 51 56	125 34 12					MR/BF			SAL, CHL
13	LOOP 3	2305	BE	USW			49 01.635	125 37.573	42				The Day-Free watch			Sal, chl.
14	LOOP 4	0305	BE	USW	—	—	49 14 40	126 25 40	70							SAL, CHL
14	LG 01	0445	BE	ROS		2	49 20.46	126 35.00	51							CHL took > 1hr filter!
		0448	BO				49 20 47	126 35.01		45	12-17	6	DM/MR	✓		PAR SENSOR ON
		0455	EN				49 20.45	126 34 89								CHANGED CON FILE TO 0550ct+D PAR.CON
14	LG 02	0537	BE	ROS		3	49 18.65	126 38.00	95				DM/MR			
		0541	BO				49 18.65	126 38.00		89	18-25	8		✓		
		0550	EN				49 18.67	126 38.05								
14	LG 02	0621	BE	NET		4	49 18.691	126 38.023	101	95			DM			Note was cons to repeated
		0628	BO				49 18 62	126 37 94								
		0631					49 18 60	126 37.91								

Cast type:

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

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

bottle firing method:

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

Time Code

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

DE = deployment time

MR = messenger release time
RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER				Year 2006			Ship JOHN P TULLY				Cruise ID 2006-14				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
14	LG03	0728	BE	ROS		4	49 15.01	123 43.65	119						Note repeated cons #
		0732	BO				49 15 02	123 43 65		110	—	0	MG DF DA	—	* + long. tide error
		0734	EN				49 15 02	123 43 65							
14	LOOP5	0809	BE	USW			49 11 53	126 49 00					DF, MG, DA		SAL, CHL.
14	LG01	0821	BE	ROS		5	49 11 27	126 49 35	138						
		0825	BO				49 11 28	126 49 35		134	26-35	10	DF MG DA		
		0836	EN				49 11 30	126 49 39							25 knot wind
14	LG04	0850	BO	NET		6	49 11.266	126 49.41	138	125					BONGO
14	LG05	0946	BE	ROS		7	49 07 35	126 55 34	275				MG DF DA		Removed PAR
		0953	BO				49 07 42	126 55 35		268	—	0		—	
		0958	EN				49 07 51	126 55 38							
14	LG06	1042	BE	ROS		8	49 03 47	127 01 20	963			19		✓	
		1102	BO				49 03.512	127 01.181		950	36-54				
		1131	EN				49 3.535	127 1.231							
14	LOOP6	1120	BE	USW			49 3.560	127 1.232							

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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

Time Code

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

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

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER				Year 2006			Ship JOHN P TULLY				Cruise ID 2006-14				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
14	LG07	1225	BE	CTD		9	48 59.374	127 7.217	1778	1765				✓	
		1252	BO				48 59.386	127 7.738			—	Ø			
		1315	EN				48 59.386	127 7.186							
14	LG07	1345	BO	NET		10	48 59.396	127 07.219	1762	250					
		1350	EN				48 59.439	127 07.157							
14	LG08	1502	BE	ROS		11	48 55.23	127 13.38	2070				DM/MR	✓	COMPUTER CRASHED USED NO PAR CON FILE
		1532	BO				48 55.30	127 13.37		2001	—	Ø			
		1559	EN				48 55.30	127 13.30							
14	LG9	1648	BE	ROS		12	48 51.21	127 19.36	2053				DM/MR	✓	
	LG09	1718	BO	CTD		12	48 51.10	127 19.41		~2015	55-76	22			
		1807	EN				48 51.21	127 19.42							
14	LG9	1819	BE	NET		13	48 51.16	127 19.47	2056						
		1836	BO				48 51.06	127 19.48		250					
	LG09	1843		CTD		13	48 51.03	127 19.51							
14	LOOP7	1900	BE	USW			48 49.531	127 18.016					DE/MG		

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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

Time Code

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

DE = deployment time

MR = messenger release time
 RE = recover mooring time

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER				Year 2006			Ship JOHN P TULLY				Cruise ID 2006-14				
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
14	LD11	2245		Multi		14	48 28.77	126 42.86	1594	1000					
15	LD11	0101	BE	ROS		15	48 28.781	126 42.812	1590	1592					
		0132	BO				48 28.765	126 42.954	1600		77-98	22			
		0211	EN				48 28.755	126 42.548							
15	LD10	0306	BO	ROS		16	48 32.15	126 36.70	1505?				DM/MR	✓	Alt: +12
		0334	BO				48 32.40	126 36.85		1465	—	∅			
		0347	EN				48 32.56	126 36.95							
15	LD9	0439	BO	ROS		17	48 35.64	126 29.92	1060					✓	
		0501	BO				48 35.62	126 29.59		1080	99-117	19	DM/MR		Act: 15
		0536	EN				48 35.64	126 28.89							
15	LD9	0552	BO	NET		18	48 35.55	126 28.94							
		0602	BO				48 35.53	126 28.92		250					
		0610					48 35.51	126 28.93							
14	LOOP8	0653		USW			48 38.22	126 24.74					DF		SAFE C/L ONLY
14	LD8	0712	BE	ROS		19	48 39.10	126 23.42	775						
		0725	BO				48 39.10	126 23.38		770	118-135	18	DE/MR DA	✓	
		0754	EN				48 39.15	126 23.33							

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
 BO = 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_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER			Year 2006			Ship JOHN P. TULLY			Cruise ID 2006-14						
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							
15	LD 7	0843	BE	ROS		20	48 42.62	126 16 77	464						
		0850	BO				48 42.62	126 16 77		420	—	0	DF/MC DA	✓	Bottom depth changable around here.
		0857	EN				48 42.65	126 16 81							
15	LD 6	0942	BE	ROS		21	48 46.19	126 10 21	136						
		0945	BO				48 46.19	126 10 20			136-145	10	DF/MC DA	✓	
		0954	EN				48 46.19	126 10 20							
15	LD 5	1047	BE	ROS		22	48 49.66	126 03 57	89				DF/MC DA	✓	
		1049	BO				48 49.66	126 03 58		80	—	0		✓	
		1051	EN				48 49.66	126 03 59							
15	LD 4	1140	BE	ROS		23	48 53.234	125 56.912	62	52		6	Doug-Free Watch	✓	
		1143	BO				48 53.260	125 56.926			152-157				
		1149	EN				48 53.294	125 56.954							
15	LD 4	1205	BO	NET		24	48 53.148	125 57.004	62	52					Bongo
		1207	EN												
15	LD 3	1251	BE	ROS		25	48 56.626	125 50.404	48	40		0		✓	
		1254	BO				48 56.634	125 50.401			—				
		1256	EN				48 56.635	125 50.401							

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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

Time Code

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

DE = deployment time

MR = messenger release time
 RE = recover mooring time

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

Daily_log_book.doc

No Serial # 146-151

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>SEPTEMBER</u>				Year <u>2006</u>			Ship <u>JOHN P TULLY</u>				Cruise ID <u>2006-14</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
15	LD2	1323	BE	ROS		26	48 58.379	125 47.040	44	35		5	DFW	✓	lightened weights on rosette
		1326	BO				48 58.389	125 47.049			158-162				
		1331	EN				48 58.391	125 47.048							
15	LD2	1340	BO	NET		27	48 58.391	125 47.048	44	35					Bongo
		1342	EN												
15	LD1	1417	BE	ROS		28	49 0.100	125 43.531	36	27				YES!	
		1420	BO				49 0.080	125 43.561			163-166	1			
		1422	EN				49 0.060	125 43.570							
15	LC1	1610	BE	ROS		29	48 50.43	125 27.76	97				DM/MR	✓	PAR SENSOR ON! OSSO ctd per. con
		1613	BO				48 50.42	125 27.77		85	167-174	8			
		1622	EN				48 50.41	125 27.75							
15	LC2	1659	BE	ROS		30	48 48.67	125 30.93	110				DM/MR	✓	
		1702	BO				48 48.69	125 30.93		100	175-182	8			
		1711	EN				48 48.72	125 30.91							
15	LC3	1745	BE	ROS		31	48 46.96	125 34.28	135				DM/MR	✓	COMPUTER CRASHED @ Beginning of cast.
		1750	BO				48 46.93	125 34.31		125	—	0			
		1752	EN				48 46.93	125 34.31							

Cast type:

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

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

bottle firing method:

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

Time Code

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

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

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER				Year 2006			Ship JOHN P TULLY				Cruise ID 2006-14				
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							
15	LC4	1837	BE	ROS		32	48° 43.43	125° 40.76	167				DM/MR	✓	
		1841	BO				48° 43.43	125° 40.74		158	183-193	11			
		1853	EN				48° 43.41	125° 40.75							
15	LC5	1947	BE	ROS		33	48° 39.93	125° 47.35	65						
		1949	BO				48° 39.92	125° 47.35		55	—	Ø	DF, HG DA	✓	
		1951	EN				48° 39.91	125° 47.35							
15	LC5	2006	BO	NET		34	48° 39.95	125° 47.42		55	—	Ø	DF, HG DA		Bongo
15	LC6	2116	BO	NET		35	48° 36.46	125° 53.97	92	90		Ø	DF, HG DA	✓	Bongo
15	LC6	2125	BE	ROS		36	48° 36.43	125° 53.96	93						
		2127	BO				48° 36.42	125° 53.98		85	194-201	8	DF, HG DA		
		2137	EN				48° 36.43	125° 53.99							
15	LC7	2225	BE	ROS		37	48° 32.93	126° 00.39	127						
		2228	BO				48° 32.94	126° 00.39		122	—	Ø	DA, HG DA	—	
		2231	EN				48° 32.94	126° 00.41							
15	LC8/A1	2330	BE	ROS		38	48° 29.419	126° 07.078	200	190	202-213	12	DFW	✓	
		2336	BO				48° 29.446	126° 07.088							
		2350	EN				48° 29.464	126° 07.0937							
16	LC8/A1	0010	BO	NET		39	48° 29.442	126° 7.124	200	150					Bongo
		0015	EN												

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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

Time Code

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

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

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER				Year 2006			Ship JOHN P TULLY				Cruise ID 2006-14				
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	LC9	0138	BE	MOS		40	48 25.958	126 13.708	606	600	214-231	18	DFW	✓	
		0150	BO				48 25.935	126 13.715							
		0244	EN				48 25.938	126 13.718							
16	LC9	0115	BO	NET		41	48 25.955	126 13.658	???	250m			DFW		Bongo (done before CTD)
		0147	EN				48 25.951	126 13.668							
16	LC10	0303	BE	ROS		42	48 22.40	126 20.19	1250					✓	PAR sensor off 0550ch.com
		0324	BO				48 22.42	126 20.14		1235	—	Ø	DM/MR		
		0341	EN				48 22.42	126 20.19							
16	LC11	0428	BE	ROS		43	48 18.99	126 26.64	1430				DM/MR	✓	
		0456	BO				48 18.97	126 26.70		1435	232-252	21			
		0537	EN				48 18.93	126 26.76							
16	LC12	0650	BE	ROS		44	48 15.01	126 39.90	2525				DM/MR	✓	
		0721	BO				48 15.02	126 39.97		2005	—	Ø			
		0743	EN				48 15.03	126 39.96							
16	LC12	0803	BO	NET		45	48 15.08	126 39.85	2529	250	—	—	MG/DF		BONGO to 250m
16	LC12	0855		Multinet		46	48 14.99	126 39.86	2525	2000	—	—	DFM/DRY		MPS to 2000m
	LOOP9	1053		USW			48 18.371	126 32.410							
16	LOOP10	1435		USW			48 39.57	125 44.87	82						SAL, Ctl

Cast type:

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

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

bottle firing method:

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

Time Code

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

DE = deployment time

MR = messenger release time
RE = recover mooring time

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

Daily_log_book.doc

HUGE SQUIDS ($\approx 1m$) @ LCH.

SO

SQUIDS EVERYWHERE PLUS 1 SHARK

(NOT SAMPLING)

MPS UNIT DEPLOYED WITH NETS ALL COCKED CLOSED. LOWERING $1m/s$ TO $2000m$. ON UPCAST NOTE NET FLOW SENSOR $\sim 0.0 - 0.8 m/s$. WINCH SPEED $1m/s$ UP. SLOWED TO $0.5m/s$ WITH NO INCREASE IN NET FLOW m/s . NET TRIP INDICATOR FLAWLESS ON COMMAND. NET FLOW SENSOR RESET EACH TIME. ON RECOVERY, NOTE NET(S) + LINES DRAPED OVER FRAME MOUTH / + FM. - THUS INDICATING WHY NET FLOW INDICATOR VERY LOW. WASH DOWN NETS $\rightarrow$ ALMOST NO SAMPLES. ALL 5 COB ENDS COMBINED INTO ONE JAR.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>Sept</u>				Year <u>2006 - Year of the monkey-man</u>				Ship <u>J.R. Gully</u>				Cruise ID <u>2006-14 La Perouse</u>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
						47									Stranded in Bamfield harbour. Waiting for "Nick the fabulous"
16	LB01	2256	BE	ROS		47	48 40.460	124 59.442	35	25	253-256	4	DFW	✓	
		2258	BO				48 40.470	124 59.490							
		2301	EN				48 40.480	124 59.460							
16	LB02	2336	BE	ROS		48	48 39.010	125 02.495	56	47	257-262	6		✓	
		2339	BO				48 39.000	125 02.509							
		2344	EN				48 39.978	125 02.489							
17	LB03	0009	BE	ROS		49	48 37.410	125 5.523	93	83				✓	One big Goose Egg
		0013	BO				48 37.407	125 5.616							
		0015	EN				48 37.400	125 5.649							
17	LB04	0053	BE	ROS		50	48 35.670	125 8.744	113	103	263-270	8		✓	
		0057	BO				48 35.712	125 8.720							
		0104	EN				48 35.760	125 8.839							
17	LB05	0131	BE	ROS		51	48 33.982	125 11.989	103	93				✓	Another Goose Egg
		0135	BO				48 33.960	125 11.992							
		0137	EN				48 33.960	125 11.994							

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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

Time Code

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

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

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER				Year 2006			Ship JOHN P TULLY				Cruise ID 2006-14					
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	
17	LBØ6	0205	BE	ROS		52	48° 32.120	125° 15.449	116	106	271-273	8	DFW	✓		
		0210	BO				48° 32.112	125° 15.455								
		0218	EN				48° 32.130	125° 15.410								
17	LBØ7	0304	BE	ROS		53	48° 28.66	125° 22.10	157		—	Ø	DM/MR	✓	CHANGED CON FILE TO 0550CTD PAR.CDW	
		0308	BO				48° 28.66	125° 22.09		147						
		0311	EN				48° 28.64	125° 22.08								
17	LBØ7	0322	BE	NET		54	48° 28.56	125° 22.05	158				DM/MR		Bongo to 145m	
		0327	BO				48° 28.57	125° 22.07		145						
		0332	EN				48° 28.58	125° 22.07								
17	LBCB/B8	0450	BE	NET		55	48° 34.52	125° 30.03	119				MR/DM		BONGO TO 110	
		0455	BO				48° 34.53	125° 30.06		110						
		0458	EN				48° 34.53	125° 30.06								
17	B8	0511	BE	ROS		56	48° 34.54	125° 30.06	117				DM/MR	✓		
		0515	BO				48° 34.54	125° 30.07		107	—	Ø				
		0518	EN				48° 34.54	125° 30.08								
17	LCB7/B7	0600	BE	ROS		57	48° 31.99	125° 35.60	80				DM/MR	✓		
		0603	BO				48° 31.97	125° 35.61		70	—	Ø				
		0605	EN				48° 31.97	125° 35.62								

Cast type:

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

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

bottle firing method:

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

Time Code

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

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

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

Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER				Year 2006			Ship JOAN P TULLY				Cruise ID 2006-14				
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	B7	0615	BE	NET		58	48 31.99	125 35.60	80		—	—	MR/DM		BONGO TO 70
		0618	BO				48 31.99	125 35.59		70					
		0621	EN				48 31.98	125 35.59							
17	LB08	0734	BO	NET		59	48 25 29	125 28 56	147	130	—	—	DF MG _{PA}		BONGO
17	LB08	0753	BE	ROS		60	48 25 30	125 28 27	148						SWITCHED TO 0550 CTD.COM
		0757	BO				48 25 30	125 28 71		145	279-288	10	DF MG _{PA}	✓	PAR OFF
		0809	EN				48 25 57	125 28 76							
17	LB09	0858	BE	ROS		61	48 22 02	125 34 69							
		0902	BO				48 22 04	125 34 70			289-297	9	DF MG _{PA}	✓	Delay in stopping acquisition. Some raw-data at end.
		0912	EN				48 21.97	125 34 74							
17	LB10	0959	BE	ROS		62	48 18 67	125 41 30	150						
		1003	BO				48 18 66	125 41 32		138	—	—	DF MG _{PA}	✓	Some rain 20 knot wind
		1005	EN				48 18 67	125 41 29							
17	LB11	1056	BE	ROS		63	48 15.230	125 47.691	205	195	298-309	12	DFW		No #10 bottle
		1102	BO				48 15.231	125 47.602							10711 11712
		1116	EN				48 15.170	125 47.642							
17	LB11	1141	BO	NET		64	48 15.213	125 47.509	205	195					Bongo
		1145	EN				48 15.172	125 47.509							

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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

Time Code

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

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

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

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>SEPTEMBER</i>				Year <i>2006</i>			Ship <i>JOHN P TULLY</i>				Cruise ID <i>2006-14</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
17	LB12	1255	BE	ROS		65	48 12.940	125 51.899	510	500	310-325	16	DFW	—	stop at 285
		1311	BO				48 12.915	125 51.899							bottom unclear on
		1335	EN				48 12.912	125 51.818							sounder - picking up rosette at bottom
18	LB13	0113	BE	ROS		66	48 10.690	125 56.099	910	900			DFW	—	
		0132	BO				48 10.661	125 56.089							
	LB13	0141	EN				48 10.610	125 56.069							
18	LB13	0200	BO	NET		67	48 10.570	125 56.078	910	250					Bongo to 250m
			EN												
18	LB14	0257	BE	ROS		68	48 08.48	125 59.93	1169		326-345	20	DM/MR	—	
		0315	BO				48 08.49	125 59.99		1160					Att. not picking up. Bottom deeper
		0347	EN				48 08.49	126 00.05							
18	LB15	0454	BE	ROS		69	48 04.45	126 08.51	1546					✓	
		0513	BO				48 04.37	126 08.57	1556	1556	—	∅	DM/MR		Rel +11
		0528	EN				48 04.33	126 08.59							
18	LB16	0626	BE	ROS		70	48 00.58	126 16.99	1787					✓	
		0657	BO				48 00.45	126 17.23		1650	—	∅	DM/MR		not sure of bottom 1650 max safe descent
		0718	EN				48 00.47	126 17.04							Chicken, it's true.
	LB16		BE												

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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

Time Code

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

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

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

Daily_log_book.doc

802
75
1552

260
750
1810
750
1060

HEAVE TO FOR WEATHER - NICK WORKING ON MPS - ATTACHING SIDESCAN SONAR, BATTERY PACK, WIRING.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER							Year 2006			Ship JOHN P TULLY				Cruise ID 2006-14				
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										
	LB16	0808	BE	NET		71	48 0.54	126 17.08	1782	100 m					Multinut/PSSS test			
	LB 16	0910	BE	NET.		72	48 00.52	126 17.14	1772	1500					mPS			
		1008	Bo				48 00.78	126 17.41	1724									
		1034	EN				48 00.84	126 17.56	1712									
	LB16	1320	BE	Net		73	48 0.48	126 17.05	1780	250					mPS/PSSS in water			
	LB16	1700	BE	Net		74	48 0.57	126 17.01	1788	1000					at 16:19 UT			
		1744	Bo				48 00.36	126 17.09	"						17:09:20 sampling water			
			EN				48 00.	126 17.							not trips (oops) safety on...			
	LB16	1815	BE	Net		75	48 0.59	126 16.95	1793	1000					NESS DID NOT TRIP			
			Bo															
			EN															
19	LOOP 11	0255	BE	USW		—	48 48.26	125 13.90	40						CHL, SAR			
19	C-3	0539	BE	ROS		76	48 23.46	125 20.77	123				DM DY MR	✓				
		0543	Bo				48 23.48	125 20.78		115	—	∅						
		0545	EN				48 23.48	125 20.79										

Cast type:
ROS = bottle cast
USW = sea water loop
NET = net

bottle firing method:
BE = beam trawl
Bo = bottom otter trawl
EN = environmental net

Time Code

Cast type:

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

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

bottle firing method:

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

Time Code

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

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

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

Daily_log_book.doc

01 2211 → 162211
 307
 WT 117

1012 30
 307
 307

TEST SIDESCAN SONAR ON MFS IN 100m - 0 RANGE - NO SIGNAL RECORDED - REMOVE SONAR / BATTERY FOR CHECK.

CAST TO 1500m w/o SONAR.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month SEPTEMBER				Year 2006			Ship JOHN P TULLY				Cruise ID 2006-14				
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	C3	0558	BE	NET		77	48 23.46	125 20.82	123						BONGO TO 112 m
		0601	BO				48 23.45	125 20.82		112			DM DY MR		
		0605	EN				48 23.44	125 20.82							
19	C1	0700	BE	NET		78	48 28.97	125 15.25	153				DRY MG DFM DF		BONGO TO 143 m
		0711	BO				48 29.01	125 15.20		143					
		0718	EN				48 29.07	125 15.16							
19	C1	0733	BE	ROS		79	48 28.94	125 15.33	153		—	0	DRY MG DFM	✓	upcast not logged
		0736	BO				48 28.88	125 15.39		150					
		0739	EN				48 28.86	125 15.39						✓	
19	C2	0824	BE	ROS		80	48 26.39	125 9.25	160		—	0	DRY MG DF		
		0828	BO				48 26.44	125 9.22		153					
		0830	EN				48 26.47	125 9.19							
19	C2	0841	BE	Net		81	48 26.42	125 9.18	159				MG DF		Bongo to 149 m
		0848	BO				48 26.44	125 9.07		149					
		0854	EN				48 26.48	125 9.03							
19	E1	0948	BE	Net		82	48 31.72	125 3.65	115						
		0954	BO				48 31.76	125 3.68		105					Bongo to 105 m
		0957	EN				48 31.78	125 3.70							

Cast type:

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

USW = sea water loop

MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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

Time Code

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

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

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

Daily_log_book.doc

INSTITUTE OF OCEAN SCIENCES

Cast type:	USW = sea water loop	bottle firing method:	Time Code		Daily_log_book.doc
BOT = bottle cast, no CTD	MOR = mooring	US = up/stop	BE = beginning time of cast	DE = deployment time	
CTD = CTD without Rosette	NET = net haul	UN = up/no stop	BO = bottom time of cast	MR = messenger release time	
ROS = Rosette plus CTD	DRF = drifter	DN = down/no stop	EN = end time of cast	RE = recover mooring time	
Transmissometer to be cleaned for each cast, do not use Ammonia products					