

DAILY LOG BOOK

MISSION
NUMBER

2007-16

DATE:

From: Sept 2, 2007

to:

VESSEL:

J. P. Tully

PROJECT:

La Perouse

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

Captain: Quaye First Officer: Bob
Second Officer: _____ Third Officer: _____

Mission Participants / Agencies: Tos

Scientific Personnel:

Scientific Personnel:	Party Chief
Name	Watc'

JANET BARWELL-CLARKE

SHELLA SLOMAN

JENNIFER PUTLAND

DAUG-MAORF

DOUG MACKAY

STEVE ROMAINE

DATE _____ TIME _____

UDRA GALBRAITH

MARTINA BECK

Second leg of Mission:

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

Data logging computer:

Data acquisition program: SEA SAMP

CTD deck unit make: SBE model: 11 serial number: 0619

Primary CTD

Make: Seabird model: 11 serial number: 0443

Primary temperature serial number: 7106

Primary conductivity serial number: 2474

Secondary temperature serial number: 4752

Secondary conductivity serial number: 176

Transmissometer: Phosfa Model: Seatech s/n: 053 Do

Fluorometer: Model Seapoint Cable gain: 10 x 150 ft. 335

Oxygen sensor: 53E Model: 43 s/n: 119

PAR sensor: Biospherical Model: 11201 s/n: 4256

Other sensors: None s/n: 100

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Primary CFD

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 _____ s/n: _____
Cable gain: _____ s/n: _____

Oxygen sensor: _____
 Model: _____
 s/n: _____

PAR sensor: _____ Model: _____ s/n _____

Other sensors: _____

 s/n: _____

Other sensors:

Other sensors: _____ s/n: _____

Other sensors: _____
s/n: _____

CTD calibration bottle location (height above CTD in metres): 0.44

Rosette Setup:

Number of bottles: 24
Manufacturer: G.O.
Volume of Bottles (litres): 20L

Winches:

1. Make: HANNOLOTT Model: Serial #: 17027 used for: Rosette
2. Make: HR Model: 589 Serial #: 515 used for: B-271925
3. Make: Model: Serial #: used for: J

Comments on performance during cruise:

Salinometer:

Make: Model: Serial #:

Comments on performance during cruise:

Oxygen Kit # 2

Comments on performance of kit and chemicals:

Good but needs new stirrer.
S. Sloman.

Thermosalinograph System:

Program: SEASAVE Version: 1 (SER 21)
Sampling interval (seconds): 30
Fluorometer sensor serial number: WS33-713P

Comments on performance during cruise:

ADCP Setup:

Computer time zone: User Exits: Name: Exit Points:
Sampling interval (seconds): Name: Exit Points:
Bin Length (2^x): Name: Exit Points:
Pulse Length: Work File:
Buffer (bytes):
Gyro Offset:

Comments:

CID Test Cast Information

Test Cast at IOS Jetty? (optional)

yes ☐ no ☒

Comments: (i.e. how did everything work??)

Test cast in Saanich Inlet? (recommended)

yes ☒ no ☐

If no, give reason:

Comments: (i.e. how did everything work??)

Good.

CTD pressure reading on deck (db): 0.04 db
(Should be 0.0 db $\pm$ 0.5)

Pumps working? yes ☒ no ☐

(i.e.. Was the red LED display on the deck unit 0011 and not still 0010?)

Secondary Temp- Primary Temp: 0.002
(Average from the Mixed Region)

Secondary Salinity- Primary Salinity: 0.003
(Average from the Mixed Region)

Additional Comments:

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Month <u>Sept</u>				Year <u>2007</u>			Ship <u>Tully</u>				Cruise ID <u>2007-16</u> <u>PI</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							
2	S103	1923	BE	CTROS	US	001	48° 25.446	123° 29.956	223						
		1928	BO				48° 35.43	123° 29.98		215			all of us	✓	
		1941	EN				48° 35.40	123° 29.95			1-13	13			
3	LBO1	0737	BE	ROS	US	002	48° 40.44	124° 59.67	34					✓	
		0740	BO				48° 40.44	124° 59.64		30	14-17	4			
		0745	EN				48° 40.45	124° 59.58							
	LOOP 1	0744		LOOP			48° 40.45	124° 59.58					S.S.		
	(@ LBO1 5m)	0814	BE		US	003	48° 39.08	125° 02.52	55					✓	
	LBO2	0816	BO				48° 39.07	125° 02.57		50	18-22	5			
		0822	EN				48° 39.07	125° 02.67							
	LOOP 2	0821					48° 39.07	125° 02.67							
	LBO3	0848	BE	ROS		004	48° 37.37	125° 05.65	100		30	1			(labelled after stn LBO4)
		0850	BO				48° 37.34	125° 05.74		90		(5m)			
		0855	EN				48° 37.34	125° 05.76							touched bottom
	LOOP 3	0854		LOOP			48° 37.34	125° 05.75							
	LBO4	0926	BE	ROS		005	48° 35.74	125° 08.82	112		23-29	7		✓	
		0930	BO				48° 35.72	125° 08.91		105					
		0938	EN				48° 35.72	125° 08.83							

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							Latitude	Longitude							
3	E1	1028	BE	ROS	US	006	48'31.76	125'03.86	118		31	1	ST/DM	✓	
		1032	BO				48'31.74	125'03.92		110					
		1035	EN				48'31.73	125'03.89							
3	E1	1054	BO	BONGO		007	48 31.668	125 03.726							
	LBO5	1146	BE	ROS		008	48 34.046	125 12.050	102					X	No
		1150	BO				48 34.037	125 12.074		97					
		1152	EN				48 34.027	125 12.070							
3	LBO6	1221	BE	ROS		009	48 32.215	125 15.435	116					✓	
		1226	BO				48 32.230	125 15.496		110	32-39				
		1236	EN				48 32.189	125 15.469							
3	C1	1314	BE	ROS		010	48 29.020	125 15.228	153					✓	
		1319	BO				48 28.985	125 15.244		148					
		1322	EN				48 28.961	125 15.239							
3	C1	1347	BO	NET		011	48 28.961	125 15.239	153	143					Bongo UNH

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Month 9				Year 07				Ship Tully				Cruise ID 2007-016 p3				
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	
3	C2	1454	BO	NET		12	48 25.481	125 07.769	145	140					Bongo VNH	
3	C2	1511	DE	ROS		13	48 25 393	125 07.800	135							
			BO							125	40	1	DAVE Jennifer Martina DT		bottle @ 5m	
			EN													
3	C3	1632	BE	ROS		14	48 23 495	125 20 729	123		41	1			bottle @ 5m	
		1634	BO				48 23 468	125 20 732		109					Loop @ C3	
		1640	EN				48 23 454	125 20 738								
3	C3	1649	BO	NET		15	48 23 428	125 20 706	122	120					Bongo VNH	
	LBO7	1741		Net		16	48 28 656	125 22 107	156	152					Bongo VNH	
3	LBO7	1802	BE	ROS		17	48 28 662	125 22 049	156		42					
		1806	BO				48 28 663	125 22 094		145		1			bottle @ 5m	
		1810	EN				48 28 668	125 22 121								
3	B8	1921	BE	ROS	US	18	48 34.47	125 30.08	135		43		S.S.etal			
		1924	BO				48 34.47	125 30.04		130		1				
		1927	EN				48 34.47	125 30.04								
3	B8	1941	BO	Net		19	48 34.46	125 29.96	121	125						

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Month <i>Sept</i>				Year <i>2007</i>			Ship <i>Tully</i>					Cruise ID <i>2007-16</i> <i>p4</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								
3	B7	2052	BO	BONGO		20	48°32.02	125°35.42	78						<i>one of the .hex files (W4-1601) was mislabelled as 15 + so 17 + 18 were offset. I only renamed the .hex files to be correct.</i>	
		2104	BE	ROS	US	21	48°32.08	125°35.34	80							
		2106	BO				48°32.06	125°35.37		75	44	1				
		2108	EN				48°32.04	125°35.39								
	LBØ8	2220	BE	ROS	US	22	48°25.15	125°28.71	138						<i>5-5</i>	
		2223	BO				48°25.15	125°28.69		130	45-57					
		2233	EN				48°24.98	125°28.73								
3	LBØ8	2249	BO	Bongo		23	48°24.984	125°28.879	145	135					Bongo unit 0-135	
3	LBØ8	2302	BO	NET		24	48°24.66	125°28.95	135	125	58-66	9	sr		Bongo - Jennifer 0-125	
3	LBØ8	2352	BE	ROS		25	48°22.122	125°34.834	152	147	58-66	5	sr	✓		
		2356	BO				48°22.084	125°34.836								
		0006	EN				48°21.907	125°35.003								
4	LB10	0058	BE	ROS		26	48°18.536	125°41.345	155	150	67	1			Alt constantly reads 7m	
		0103	BO				48°18.479	125°41.354								
		0105	EN				48°18.479	125°41.335								
Cast type: <i>ROS</i> USW = sea water loop bottle firing method: Time Code																

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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							
4	LB11	0155	BE	ROS		27	48 15.190	125 47.713	206	200	67-77	11	sn	✓	
		0202	BO				48 15.222	125 47.620							
		0215	EN				48 15.183	125 47.553							
4	LB11	0240	BO	NET		28	48 15.19								
4	LB12	0318	BE	ROS		29	48 12 907	125 51 932	512						Bongo UNH
		0327	BO				48 12 865	125 52 031		500	78-92	15	DAVE Jennifer Martina DT	✓	* hex file saved
		0353	EN				48 12 980	125 51 727							as 28 not 29
4	LB13	0440	BE	ROS		30	48 10 661	125 56 160	911						
		0455	BO				48 10 536	125 56 197			93	1		✓	bottle @ 5m
		0509	EN				48 10 550	125 56 149							Loop also taken
4	LB13	0530	BO	Net		31	48 10 714	125 56 050							0-250
	LB14	0631	BE	ROS	US	32	48 08 473	125 59 996	1156						Par Removed
		0652	BO				48 08 610	125 59 742		1168	94-112	19			
		0725	EN				48 08.45	125 59.52							
	LB15	0832	BE	ROS		33	48 04.35	126 08.41	1541				ST/om	✓	
		0854	BO				48 04.31	126 08.31		1555	1333	1			bottle @ 5m
		0910	EN				48 04.30	126 08.57							

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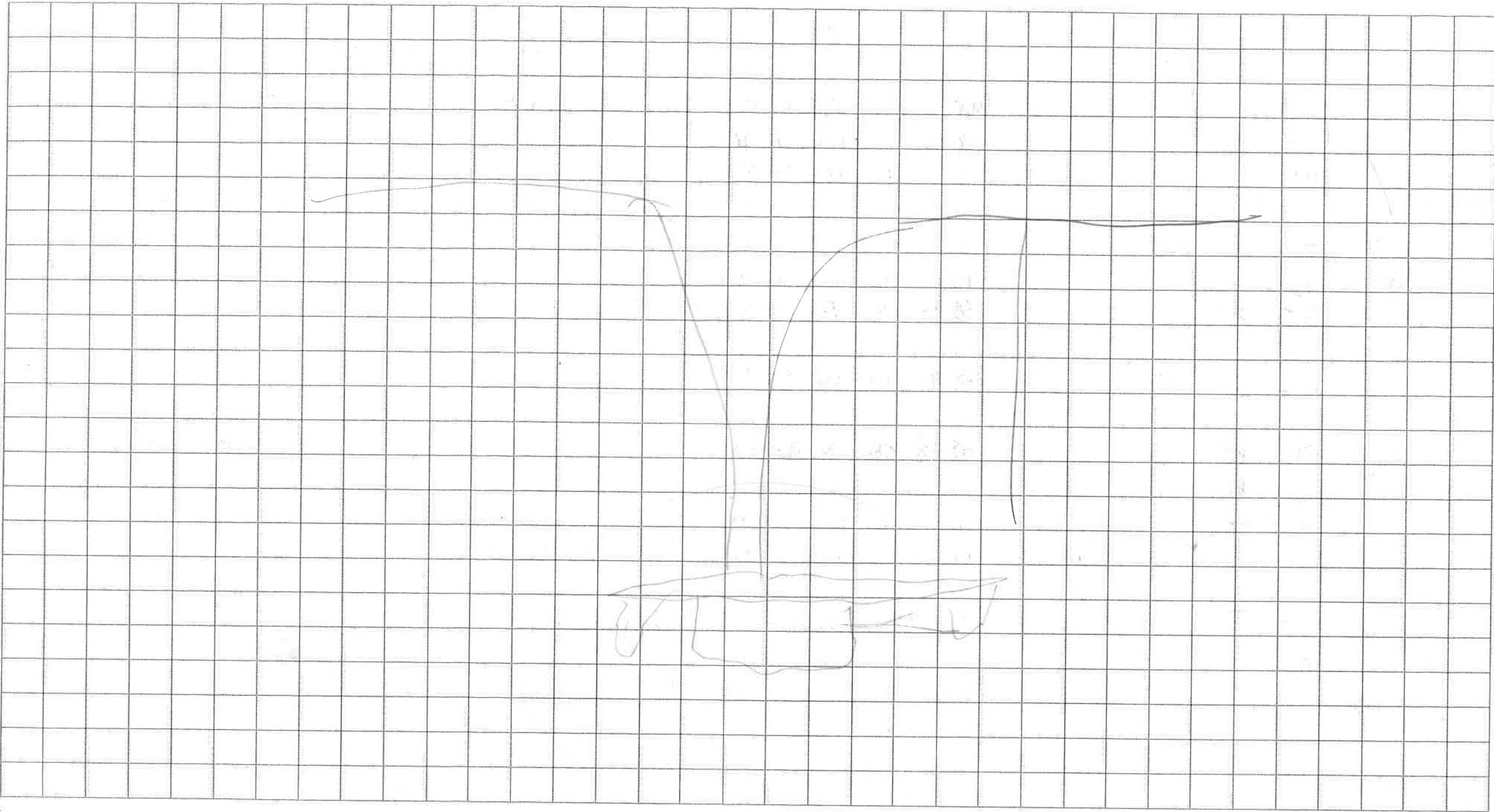
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Month <i>Sept</i>				Year <i>2007</i>				Ship <i>Tully</i>				Cruise ID <i>2007-16 p6</i>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
4	LB16	1007	BE	ROS		34	48° 00.47	126° 17.04	1782		113-132	21	ST/DM	✓	Salinity profile
		1033	BO				48° 00.55	126° 16.96		1790					at end of line LB
		1117	EN				48 0.656	126 16.866							
4	LC12	1430	BE	ROS	US	35	48 15.016	126 39.983	2525	2005	133-153	21			
	AA	1457	BO				48 15.145	126 40.032							
		1545	EN				48 15 247	126 40 057							
4	AA	1618	BO	NET		36	48 14 888	126 39 913		250					Bongo vnh
4	LC11	1747	BE	ROS		37	48 18 954	126 26 544	1422						
			BO							1410	154-173	20			no 5 m bottle -
		1853	EN				48° 18.98	126 26.69					ST/DM et al		"mistrip"
											154-				+ lanyard on bottom of bottle 19 broke (replaced of course)
	LC11	1948	BE	NET		38	48 19.03	126 26.70	1433						
		2022	BO				48 19.12	126 26.90		1000					Multinet
		2040	EN				48 19.25	126 26.67							

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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							
<i>4</i>	<i>LC10</i>	<i>2131</i>	<i>BE</i>	<i>ROS</i>	<i>US</i>	<i>39</i>	<i>48°22.42</i>	<i>126°20.15</i>	<i>1242</i>		<i>174</i>	<i>1</i>	<i>ST/DM</i>	☒	
		<i>2154</i>	<i>BO</i>				<i>48°22.50</i>	<i>126°20.20</i>		<i>1240</i>					
		<i>2208</i>	<i>EN</i>				<i>48°22.55</i>	<i>126°20.20</i>							
<i>4</i>	<i>LC09</i>	<i>2259</i>	<i>BE</i>	<i>ROS</i>		<i>40</i>	<i>48°25.951</i>	<i>126°13.406</i>	<i>595</i>	<i>598</i>			<i>SR</i>	☒	<i>No PAR!</i>
		<i>2313</i>	<i>BO</i>				<i>48°25.596</i>	<i>126°13.523</i>			<i>175-191</i>	<i>17</i>			
		<i>2337</i>	<i>EN</i>				<i>48°25.906</i>	<i>126°13.729</i>							
<i>4</i>	<i>LC09</i>	<i>2353</i>	<i>BO</i>	<i>NET</i>		<i>41</i>	<i>48°25.91</i>	<i>126°13.73</i>	<i>200</i>	<i>250</i>					<i>Bongo UNH</i>
<i>5</i>	<i>A2</i>	<i>0131</i>	<i>BO</i>	<i>NET</i>		<i>42</i>	<i>48°22.663</i>	<i>126°3.737</i>	<i>360</i>	<i>250</i>		<i>8</i>			<i>Bongo UNH</i>
<i>5</i>	<i>A2</i>	<i>0146</i>	<i>BE</i>	<i>ROS</i>		<i>43</i>	<i>48°22.633</i>	<i>126°3.794</i>	<i>360</i>	<i>354</i>	<i>192</i>	<i>1</i>	<i>SR</i>	☒	
		<i>0154</i>	<i>BO</i>				<i>48°22.661</i>	<i>126°3.774</i>							
		<i>0159</i>	<i>EN</i>				<i>48°22.654</i>	<i>126°3.745</i>							
<i>5</i>	<i>LC08/</i>	<i>0323</i>	<i>BE</i>	<i>ROS</i>		<i>44</i>	<i>48°29.466</i>	<i>126°07.096</i>	<i>198</i>		<i>193-203</i>				<i>confirm hex name.</i>
	<i>A1</i>	<i>0327</i>	<i>BO</i>				<i>48°29.382</i>	<i>126°07.183</i>		<i>185</i>					
		<i>0343</i>	<i>EN</i>				<i>48°29.448</i>	<i>126°07.380</i>							

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SEPT				2007				Tully				2007-16					
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	LC08	0404	BO	Net		45	48 29.634	126 07.469	208								
5	LC07	0519	BE	CTD/R	BE	46	48 32.926	126 00.352	128	120	204	1	DM/DT		1 bottle 25m		
		0522	BO				48 32.977	126 00.443		123					Loop LC07		
		0526	EN				48 32.972	126 00.402							Loop but after 3min		
5	LC06	0622	BE	ROS		47	48 36.546	125 54.002	93								
		0625	BO				48 36.598	125 53.940		87	205-212	8					
		0635	EN				48 36.584	125 53.906									
		0650	BO	NET		48	48 36.56	125 53.90	90	90							
5	LC05	0745	BO	NET		49	48 39.96	125 47.39	93	60			SS/DM				
		0800	BO	NET		50	48 39.97	125 47.41	264	30							
		0810	BO	NET		51	48 39.98	125 47.50	63	20							
		0828	BO	NET		52	48 40.01	125 47.53	65	30							
5	LC05	0849	BE	ROS		53	48 40.03	125 47.64	65		227						
		0852	BO				48 40.05	125 47.66		58	213-226	14			- had to change to		
		0906	EN			54*	48 40.11	125 47.74							user input for H2O		
															sampler. Forgot to do		
															it at start of cast		
															so I did it @ bottom		
															* started a new file for		
															the cast up		

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Time Code

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

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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 <u>Sept</u>				Year <u>2007</u>			Ship <u>Tully</u>					Cruise ID <u>2007-16</u> <u>p9</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							
5	LC04	1007	BE	ROS	US	55	48° 43.36	125° 40.73	165		228-237	10	DM/SS	✓	
		1011	BO				48° 43.38	125° 40.76		160					
		1023	EN				48° 43.46	125° 40.86							
5	LC03	1133	BE	ROS		56	48° 46.910	125° 34.196	137	132	238	1	SR	✓	
		1137	BO				48° 46.916	125° 34.220							
		1140	EN				48° 46.927	125° 34.220							
5	LC02	1209	BE	ROS		57	48° 48.672	125° 30.852	106	100	239-245	7	SR	✓	
		1214	BO				48° 48.692	125° 30.960							
		1222	EN				48° 48.697	125° 30.970							
5	LC01	1256	BE	ROS		58	48° 50.531	125° 27.769	95	90	246-252	7		✓	
		1300	BO				48° 50.502	125° 27.767							
		1309	EN				48° 50.484	125° 27.788							
	LG01	1945	BE	ROS	US	59	49° 20.56	126° 35.00	49		253-258	6	SS/DM		
		1947	BO				49° 20.59	126° 35.00	52						
		1953	EN				49° 20.63	126° 35.006		45					top Vent on Bot 3 open during cast

Cast type:

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Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Sept</i>				Year <i>2007</i>			Ship <i>Tully</i>				Cruise ID <i>2007-16</i> <i>P10</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
5	LG02	2027	BE	ROS	US	60	49°18.75	126°38.10	99		259-265	7	DM/SS	✓	
		2030	BO				49°18.82	126°38.05		95					
		2040	EN				49°18.84	126°38.06							
		2054	BO	NET		61	49°18.84	126°38.06	99	95					
5	LG-03	2151	BO	NET		62	49°15.04	126°43.66	125	30					
		2203	BO	NET		63	49°15.05	126°43.74	123	20					
		2216	BE	ROS	US	64	49°15.03	126°43.81	121						
		2219	BO				49°15.03	126°43.80		115					
		2235	EN				49°14.95	126°43.85							
5	LG04	2323	BE	ROS		65	49°11.281	126°49.301	145	140	266-274		SR	✓	
		2329	BO				49°11.268	126°49.286							
		2342	EN				49°11.275	126°49.321							
5	LG04	2355	BO	NET		66	49°11.30	126°49.39	146	140					Bongo unit
6	LG05	0050	DE	ROS		67	49°7.396	126°55.237	274	270	275	1	SR	✓	
		0057	BO				49°7.427	126°55.274							
		0101	EN				49°7.396	126°55.203							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>SEPTEMBER</u>				Year <u>2007</u>			Ship <u>TULLY</u>				Cruise ID <u>2007-16</u> <u>104</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							
6	LG06	0152	BE	ROS		68	49 3.496	127 1.052	138	935	276-292	17	SL	✓	
		0209	BO				49 3.540	127 1.090							
		0234	EN				49 3.499	127 1.132							
6	LG07	0329	BE	ROS		69	48 59.414	127 07 086	1763	293		1			Jennifer's bottles @ 200/5
		0355	BO				48 59.356	127 07.081		1743					bottle @ 5m
		0417	EN				48 59.426	127 07 157							
6	LG07	0441	BO	NET		70	48 59.463	127 07 173		250					
		0457	BO	NET		70A	48 59.46	127 07.17		30					Bongo UNH
6	LG08	0609	BE	ROS		71	48 54 920	127 13 176	2063						BONGO FOR JENNIFER
		0638	BO				48 55 028	127 13 241		2007	294	1			1 bottle @ 5m
		0659	EN				48° 55.00	127° 13.23					SS/DM		
6	LG09	0758	BE	ROS	US	72	48° 51.12	127° 19.31	2055					✓	
		0825	BO				48° 51.19	127° 19.37		2050	295-315	21			
		0911	EN				48° 51.19	127° 19.39							
6	LG09	0933	BO	Net		73	48° 51.2	127° 19.4							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>Sept</u>				Year <u>2007</u>				Ship <u>Tully</u>				Cruise ID <u>2007-16 p12</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							
	LG09		80	NET		74							DM/SS		
6	LBP 8	1800	BE	ROS		74	49 48 538	128 16 758	2075				ST		
		1827	BO				49 48 611	128 16 746		2086db					
		1852	EN				49 48 358	128 16 864			338	1			bottle @ 5m
		1909	BE	MULTI NET		75	49.48.75	128 17.03	2070	1000			SS/DM		MULTI NET
6	LBP 7	2047	BE	ROS		76	49 52.46	128 11.11	2201						
		2116	BO				49 52.523	128 11.312	2162		316-337	22	*		* #21 didn't fire on the computer - it skipped it for some reason so we went back down to 10m, and triggered Bot 22 instead. Bot 23 was @ 5m. Bot 21 was tripped but we didn't sample it b/c we didn't know what depth it was really tripped at.
		2204	EN				49 52.837	128 11.250							
		2221	BO	NET		77	49 52.83	128 11.25		250	BON60				
6	LBP 6	2309	BE	ROS		78	49 56.156	128 5.452	???	822	338	1	ST		
		2325	BO				49 56.244	128 5.510							
		2334	EN				49 56.244	128 5.504							
							No idea what bottom was - sounder said altimeter did not show bottom.								
											790 (yes, in active mode)				SS.

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship		Cruise ID								
September		2007		J.P. TULLY		2007-16 P13								
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
7	LBPS	0025	BE	ROS		79	49 59.522	127 59.783	1296	1287	339-358	20	8N	
		0044	BO				50 0.106	127 59.843						
		0119	EN				50 0.186	128 0.073						
7	LBPS	0137	BO	NET		80	50 0.29	128 0.094						
7	LBP 4	0207	BE	ROS		81	50 1.338	127 58.040	1058	1053	359	1	8N	Bongo unit
		0225	BO				50 1.375	127 58.087						
		0237	EN				50 1.397	127 58.122						
7	LBP 3	0314	BE	ROS		82	50 03 150	127 55 188	169					
		0317	BO				50 03 150	127 55 212		155	360-369	10		Plus 4 bottles JP
			EN											
7	LBP 3	0355		Net		83	50 03 235	127 55 274		165				
7	LBP 3	0402		Net		84	50 03 226	127 55 320		20				BONGO
7	LBP 2	0430		Net		85	50 04 034	127 54 328	96	90				BONGO
7	LBP 2	0446	BE	ROS		86	50 04 148	127 54 284	92					
		0448	BO				50 04 181	127 54 328		80.7	370	1		
		0450	EN				50 04 204	127 54 385						

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Rosette Firing Sequence 4BP3

Event #82 - JP

2x 100m / 2x 5m

User input bottle fire

Wreck#

Depth

Time

bottle #1 @ 155m 03:18:10

#2 @ 150m 03:20:05

#3 @ 125m 03:21:30

* #4 @ 100m 03:23:00

JOS

* #20 @ 100m 03:23:30

JP

* #21 @ 100m 03:23:45

JP

#5 @ 75m 03:25:00

#6 @ 50m 03:26:10

#7 @ 30m 03:27:30

#8 @ 20m 03:28:20

#9 @ 10m 03:29:20

#10 @ 5m 03:30:20

#22 @ 5m 03:30:40

#23 @ 5m 03:30:55

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>SEPT</u>				Year <u>2007</u>			Ship <u>Tully</u>				Cruise ID <u>2007-16 1014</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							
7	LBPI	0527	BE	ROS		87	50 04 867	127 52 882	50						
		0528	BO				50 04 891	127 52 901		41	371	1			
		0530	EN				50 04 897	127 52 913							
7	CPE2	1119	BE	ROS		88	50 43.016	128 39.855	121	117	372	1	SR	✓	
		1124	BO				50 43.108	128 39.944							
		1127	EN				50 43.153	128 39.955							
7	CPE2	1145	BO	NET		89	50 43.0077	128 39.852	124	118					Bongo UNH
7	LQ03	1339	BO	NET		90	50 39.771	129 2.163	1311	250					Bongo UNH
7	LQ03	1359	BE	ROS		91	50 39.803	129 2.267	1264?	1215	373	1	SR	✓	PAR OFF
		1412	BO				50 39.908	129 2.202							
		1426	EN				50 39.932	129 2.375							
7	JI22	1539	BE	ROS		92	50 39.764	129 17 521	1524						
		1559	BO				50 39.787	129 17 633		1531	374	1		✓	bottle @ 5m
		1620	EN				50 39.829	129 17 651							LOOP Sample
7	JI22	1638	BO	Net		93	50 39.888	129 17 627	1533	250					BONGO UNH

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TSG

J122 - Turned Flo up to 1.5 l/min for 5min. / adjusted TSG outlet drain ~~button~~

- Salinities look better?

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship		Cruise ID									
Sept		2007		Tully		2007-16 p15									
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	CS00	19:54	BO	Net		94	50° 25.95	129° 55.02	2176	250			DM/SS		Bongo V/UH
	CS00	2008	BE	ROS	US	95	50° 26.01	129° 54.92	2177				↓		
		20:40	BO				50° 26.02	129° 55.193	2164	2166	375-397	22	23	✓	X →
		21:23	EN				50° 26.251	129° 55.138							soaked carousel.
07	CS00	22:14	BE	MPS		96	50° 26.09	129° 55.36	2176						
		22:55	BO				50° 26.06	129° 55.58		1000					MULTI-NET.
		23:11	EN				50° 25.99	129° 55.73							
08	CS01	0056	BO	NET		97	50° 34.882	129° 41.563	2105	250					Bongo UNH
08	CS01	0110	BE	ROS		98	50° 34.876	129° 41.504	2104	2100	398	1	SR/MC/	no	Mona forget to
		0142	BO				50° 35.005	129° 41.542					JD		reminded us!
		0204	EN				50° 35.104	129° 41.436							
08	CS02	0325	BE	ROS		99	50° 41.322	129° 28.030			399-419	21			
		0354	BO				50° 41.341	129° 28.170							
		0440	EN				50° 41.590	129° 28.014						✓	

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*
→ Bottle 21 showed on computer that it didn't fire, so we went back down to 10m and fired # 22. But there was no H₂O in 22, yet it was closed.
Vent/Spigot on 15 open during cast. So there is no 10m sample. All labels were changed to reflect what happened. (S.S.)

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>SEPTEMBER</u>				Year <u>2007</u>				Ship <u>JP TULLY</u>				Cruise ID <u>2007-16 P 16</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							
8	CS02	0500	Bo	NET		100	250 41.3	129 28.0	1900	250					Bongo unit
8	CS03	0604	Bo	NET		101	50 45 49	129 20 016	247	240					Bongo unit
8	CS03	0637	BE	ROS		102	50 45 562	129 19 922	240						1 bottle @ 5m
		0641	Bo				50 45 504	129 19 950		230	420	1			Loop
		0644	EN				50 45 547	129 19 932							2 casts, one with no pump
8	CS04	0741	BE	ROS		103	50 49.09	129 12.95	100						
		0745	Bo				50 49.10	129 12.97		95	421-430	12			
		0758	EN				50 49.16	129 13.00							
8	CS04	0815	Bo	NET		104	50 49.18	129 13.00	98	90					BONGO TO 90m
	CS04	0822	Bo	NET		105	50 49.18	129 13.00		20					BONGO FOR TOWN.
8	ODAS	1132	Bo	NET		106	50 51.448	129 55.038	2116	250					BONGO TO 250

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		Year		Ship		INSTITUTE OF OCEAN SCIENCES									
SEPTEMBER		2007		J.P. TULLY		Cruise ID 2007-16 P17									
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
8	ODAS	1140	BE	ROS		107	50 51.472	129 55.045	2117	2115	421	1	SR	✓	
		1216	BO				50 51.506	129 55.070							
		1239	EN				50 51.592	129 55.100							
															PAN ON
8	CS3B	1456	BE	ROS		108	50 59 962	129 26 887	218						
		1500	BO				50 59 958	129 26 915			422	1		✓	bottle @ 5m
		1504	EN				50 59 966	129 26 918							
8	CS3B	1528	BO	NET		109	50 00 017	129 26 989							
															Bongo UNH
8	CS05	1725	BO	NET		110	50 55.956	128 59.901	64	260					Big Wire Angle
8	CS05	1735		ROS		111	50 55 987	128 59 903							bottle @ 5m
		1739					50 55 980	128 59 914			423	1		✓	
		1742					50 55 986	128 59 912							
8	CS1B	2245	BE	ROS		112	50 52.97	128 40.07	72		424				Loop Sample
		2248	BO				50 52.96	128 40.07		67					bottle @ 5m.
		2249	EN				50 52.96	128 40.07							
8	CS1B	2300	BO	NET		113	50 53.125	128 40.139	74	60					

Cast type:
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CDB = CTD bottle

USW = sea water loop
MOR = mooring

bottle firing method:
US = up/stow
BE = beginning time of

Time Code
BE = beginning time of

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>SEPTEMBER</u>				Year <u>2007</u>				Ship <u>J.P. TULLY</u>				Cruise ID <u>2007-16</u> <u>p17</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							
9	CS06	0023	BO	NET		114	51 0.066	128 50.017	64	58					Bongo UNH
9	CS06	0045	BE	ROS		115	51 0.454	128 50.350	65	60	425-430	6	SR	✓	
		0047	BO				51 0.496	128 50.395							
		0054	EN				51 0.602	128 50.410							
9	CS07	0146	BE	ROS		116	51 4.469	128 44.030	64	60	431	1	SR	—	
		0148	BO				51 4.576	128 44.011							
		0150	EN				51 4.536	128 44.008							
9	CS07	0202	BO	NET		117	51 04.78	128 44.03	64	60					Bongo UNH
9	CS08	0305	BO	NET		118	51 08 472	128 36 941	144	140					Bongo UNH
9	CS08	0318	BE	ROS		119	51 08 503	128 35 778	145		432	1			bottle @ 5m
		0320	BO				51 08 454	128 35 887		135					LOOP
		0322	EN				51 08 428	128 35 958							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Sept</i>		Year <i>2007</i>		Ship <i>Tully</i>		Cruise ID <i>2007-16</i> <i>P19</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
9	CS09	0422	BE	ROS		120	51 12 504	128 27 989	195						
		0425	BO				51 12 522	128 27 925		181	433-443	11			
		0438	EN				51 12 564	128 27 976							
9	CS09	0448	BO	NET		121	51 12 564	128 27 976							
9	CS10	0622	BO	NET		122	51 16 492	128 20 039	82	78					
9	CS10	0630	BO	NET		123	51 16 513	128 20 102	82						IOS Bongo
9	CS10	0643	BO	NET		124	51 16 660	128 20 215	84	20					UVIC Bongo
9	CS10	0657	BE	ROS		125	51 16 61	128 20 32							UVIC ring net
		0659	BO				51 16 61	128 20 31	85			1	SS/DM		
		0711	EN				51 16 67	128 20 35		80					our bottle @ 5m
	CPE1	1007	BE	ROS		126	50 59 96	127 50 08	150		444	1			+ UVIC samples
9		1010	BO				50 59 98	127 50 05		145					✓ - bottle @ 5m
		1012	EN				50 59 98	127 50 02							
	CPE1	1025	BO	NET		127	50 59 99	127 49 89	154	145					BONGO
10	GEO1	0805		MPS		128	49 15 0331	123 44 958	401	395					

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

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