

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2008-05

DATE:

From: May 21

to: May 28

VESSEL:

Tully

PROJECT(S):

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
Sidney, BC, Canada

WaterProperties.ca

Captain: _____

Second Officer: _____

Fishing Master: _____

First Officer: _____

Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel:

[illegible]

Second leg of Mission:

Chief Scientist:

[illegible]

Data logging computer:

Data logging computer: HP compaq - small case
Data acquisition program: seaway ver 7.16

CTD deck unit make: Seabird model: 11 plus serial number: 04224

Primary CTD

Make: Scaborch model: 911plus serial number: 0443

Primary temperature serial number: 4054

Primary conductivity serial number: 2399

Secondary temperature serial number: 4700

Secondary conductivity serial number: 3396

Transmissometer: Wet Labs Model: CS-100

Fluorometer: Model 8000 Cable gain: 10x s/n: 2228 P S or NO pump?

Oxygen sensor: _____
 Model: Seabird s/n: 1176 P: S or NO pump?
 Serial: 104 s/n: 104 P: S or NO pump?

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

Other sensors: Bethas A Himeter s/n: 1252 P, S or NO pump? P

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: _____ Serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____

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

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

Other sensors: _____ S/η : _____

Other sensors: _____ s/n: _____

	s/n:
Other sensors:	s/n:

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

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month MAY				Year 2008			Ship Tully				Cruise ID 2008-05				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
22	LBO1	1500	BE	ROS		001					01 - 04	4			
			BO												
		1512	EN				48 40 46	124 59 640	32	27					
22	LBO2	1618	BE	ROS		002	48 39 030	125 02 356	55			6		✓	
		1621	BO				48 39 042	125 02 398			5 - 10				
		1633	EN				48 39 040	125 02 450							
22	LBO3	1715	BE	CTD		3	48 37 367	125 05 618	91					✓	
		1719	BO				48 37 354	125 05 639		85					
		1721	EN				48 37 357	125 05 610							
22	LBO4	1751	BE	ROS		4	48 35 700	125 08 652	110	110	11 - 17			✓	
		1754	BO				48 35 716	125 08 636		100		7			
		1805	EN				48 35 788	125 08 677							
22	E1	1906	BE	ROS		5	48 31 73	125 03 82	113						
		1909	BO				48 31 76	125 03 82		108				✓	Bot - 8
		1912	EN				48 31 70	125 03 82							
22	E1	1940	BE	NET		6	48 31 75	125 03 88	117						
		1946	BO				48 31 74	125 03 86		108					
		1948	EN				48 31 755	125 03 83							
22	LOOP1	1939					48 31 75	125 03 89	115						LOOP1 CHT, SAL NOT

This page is for any notes or observations

Thurs May 21 2008

0845 - deck being washed by crew - hydraulic oil $\frac{1}{2}$ mile from LBOZ

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month				Year			Ship			Cruise ID					
May				2008			Tully			2008-05					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
22	L305	2125	BE	ROS		7	48 33.97	125 11.93	103						
		2128	BO				48 33.99	125 11.91		83	—	⊖	DA 30 H.G.	✓	
		2130	EN				48 33.99	125 11.89							
22	L306	2213	BE	ROS		8	48 32.14	125 15.48	115		18-25	8	DA 30 H.G.		
		2217	BO				48 32.12	125 15.47		108				✓	Bot-8
		2227	EN				48 32.05	125 15.45							
22	C1	?	BE	ROS		9	48 28.92	125 15.29	151				H.M./A.S.	✓	
		2309	BO				48 28.95	125 15.27		142	—	⊖			
		2314	EN				48 28.91	125 15.29							
	C1	2329	BE	NET		10	48 28.91	125 15.34	151						BONGO
		2334	BO				48 28.90	125 15.36		140					
	C1-C2	2347	BE	MVP		11	48 29.15	125 13.76		155	—	—			MVP# 72
23	C1-C2	0027	EN				48 25.32	125 07.48	112						# 82
23	C2	0039	BE	NET		12	48 25.38	125 07.70	138	130					
		0050	EN				48 25.36	125 07.91							
23	C2	0102	BE	ROS		13	48 25.41	125 07.78	142						
		0106	BO				48 25.36	125 07.75		117		⊖	H.M./A.S.	✓	
		0109	EN				48 25.30	125 07.73							

Cast Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

USW = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

— =

Bottle Firing Method:

US = Up / Stop
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Notes:

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month MAY				Year 2008			Ship TULLY			Cruise ID 2008-05					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
23	C2-C3	0118	BE	MVP		14	48 25.48	125 08.41	152						MVP File # 81
		0220	EN	MVP			48 23.23	125 19.64	121						MVP File # 102-1
23	C3	0237	BE	ROS		15	48 23.13	125 20.52	121				H.M./A.S.		
		0240	BO				48 23.12	125 20.54		110					
		0244	EN				48 23.13	125 20.48							
		0256	BE	NET		16	48 23.14	125 20.48	120	110					BONGO - 115m out / 20
23	C3-LB07	0301	BO				48 23.146	125 20.481							
		0309	BE	MVP		17	48 23.322	125 20.445	123						MVP File # 102-116
		0348	EN				48 28.244	125 21.916							
23	LB07	0400	BE	Net		18	48 28.678	125 22.052	155						
		0408	BO				48 28.685	125 22.080							
23	LB07	0425	BE	CTD		19	48 28.686	125 22.096	156						
		0428	BO				48 28.697	125 22.086		150					
		0434	EN				48 28.698	125 22.087							
23	LB7-LB8	0440	BE	MVP		20	48 28.966	125 22.457	152						MVP file 116-14
		0535	EN				48 34.268	125 29.506							
23	B8	0549	BE	CTD		21	48 34.499	125 30.035	118					✓	
		0553	BO				48 34.517	125 30.006		111					
		0557	EN				48 34.526	125 30.011							

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 4 of Month MAYYear 2008Ship JP TullyCruise ID 2008-05

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
23	B8	0607	BE	Net		22	48 34 538	125 30 025	115					✓	
		0611	BO				48 34 548	125 30 028		110					
23	B8	0622	BE	MVP		23	48 34 438	125 30 234	121						Files 141-150
		654	EN												
23	Loop 2	0701		USW			48 32 03	125 35 46	80						Loop 842, not C.H.
23	B7	0705	BE	NET		24									
		0708	EIX				48 32 04	125 35 42	80	70					
23	B7	0719	BE	ROS		25	48 32 09	125 35 37	80						
		0722	BO				48 32 10	125 35 36		81	—	0	DA JD HG	—	Touched bottom DA
		0724	EN				48 32 12	125 35 35							
23	B7	0736	BE	MVP		26	48 31 64	125 35 16							
			EN												
23	LB08	0831	BE	ROS		27	48 25 23	125 28 57	135						
		0834	BO				48 25 23	125 28 58		127	26-34	9	DA JD HG	✓	
		0844	EN				48 25 25	125 28 24							
23	LB08	0903	EN	NET		28	48 25 10	125 28 95	141	130					
23	LB09	0945	BE	ROS		29	48 21 96	125 34 82	150						
		0950	BO				48 21 99	125 34 82							
		1000	EN				48 22 02	125 34 78							

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
 Version: 06 March 2008

This page is for any notes or observations

CHL A + NH₄ TAKEN FROM BOTTLE 1,2,3 NOT 7,8,9

CHL A + NH₄ TAKEN FROM BOTTOM BOTTLES NOT TOP

DAILY SCIENCE LOG

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Month May				Year 2008			Ship Tally			Cruise ID 2008-05					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
23	LB10	1048	BE	ROS		30	48 18 61	125 41 27	154						
		1051	BO				48 18 63	125 41 21		145			DAJD MG	✓	
		1054	EN				48 18 65	125 41 20							
23	LB11	1148	BE	ROS		31	48 15 18	125 47 66	205		44-54	11	H.M./AS	X	NO SPRAY
		1152	BO				48 15 18	125 47 65		195					
		1206	EN				48 15 19	125 47 72							
		1241	BE	NET		32	48 15 18	125 47 70	204	190					BONGO
		1245	BO				48 15 19	125 47 70							
23	LB12	1324	BE	ROS		33	48 12 92	125 51 93	511		55-69	15	H.M./AS		
		1330	BO				48 12 98	125 51 92		500					
		1353	EN				48 12 91	125 51 94							
23	LB13	1429	BE	ROS		34	48 10 52	125 56 17	920						
		1440	BO				48 10 504	125 56 123		902					Wendy - 400m bottle
		1457	EN				48 10 615	125 56 102							
	LB13	1509	BE	Net		35	48 10 563	125 56 130	910						
			BO				48 10 575	125 56 143		250					
	LB14	1601	BE	ROS		36	48 08 492	125 59 965	1196						No samples 2600m
		1613	BO				48 08 503	125 59 958		1150	70-92				Akash's water
		1655	EN				48 08 524	125 59 892							

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May 23 - 0900 - LB14 cast - changed Data computer times date, off by 1 week

NA4 + CHLA TAKEN FROM BOTTOM BOTTLES NOT TOP - CHECK PRINTER MAKE SURE IT IS SELECTING
CORRECT BOTTLE SEQUENCE

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Month				Year			Ship				Cruise ID				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
23	LB 14	1818	BE	MULTI		37	48 08.46	125 59.96	1163						
		1856	Bo				48 08.47	125 59.99		1010					
		1923	EN				48 08.	126 00.00							
23	LC 11	2224	BE	MULTI		38	48 18.99	126 26.70	1446						
		2307	Bo							1010					
		2346	EN												
24	LC 11	0003	BE	ROS		39	48 19.01	126 26.61	1420		93-111	19	H.M.V.A.S.	✓	
		0037	Bo				48 19.07	126 26.82		1457					
		0129	EN				48 19.48	126 26.70							
		0159	BE	NET		40	48 18.93	126 26.67							BONGO
		0211	Bo				48 18.97	126 26.72		250					
24	LC 10	0314	BE	CTD		41	48 22.44	126 20.17	1239				DFM/D2LA		
		0344	Bo				48 22.45	126 20.29		1230					
		0410	EN				48 22.45	126 20.26							
24	LC 09	0510	BE	ROS		42	48 26.029	126 13.618	599		112-127				
		0525	Bo				48 26.140	126 13.602		585					
		0559	EN				48 26.082	126 13.801							
	LC 09	0615	Bo	NET		43	48 26.04	126 13.8		250			BONGO		
	LC 09		Bo	NET		44				50			RING-LIUVIC		

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month May				Year 2008			Ship Tully				Cruise ID 2008-05				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
24	LOOP3	0706		USW		45	46 26 70	126 12 23							SAL CHL LOOP TAKEN OUT
24	LC08/A1	0736	BE	NET		45	48 29 45	126 07 02	199				DAJD MG		
		0747	EN				48 29 41	126 07 06							
24	LC08/A1	0758	BE	ROS		46	48 29 41	126 07 05	200						
		0803	BO				48 29 41	126 07 06			128-138	11	DAJD MG	✓	
		0817	EN				48 29 42	126 07 07							
24	LC08/A1	0826	BE	MVP		47	49 42	07 07	~185						Files 168-173
24	LC07	0906	BE			48	49 32 93	126 00 41	129				DAJD		
		0909	BO				49 32 94	126 00 40				✓	MG	✓	
24	LC07	0918	BE	MVP		49	48 33 17	125 59 96	124						Colony 2223 File 174-186
	LC06		EN				48 33 39	125 53 95							
24	LC06	0959	BE	ROS		50	48 36 32	125 53 96	93						
		1002	BO				48 36 44	125 53 99			139-145		DAJD MG	✓	
		1009	EN				48 36 49	125 54 01							
24	LC06		BE	NET		51									
		1049	EN				48 36 43	125 54 06	93				DAJD MG		
		1054	BE	MVP		52			80						File 187
		1121													File 202

DAILY SCIENCE LOG

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Month <u>MAY</u>				Year <u>2008</u>			Ship <u>TULLY</u>			Cruise ID <u>2008-05</u>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
24	LC05	1137	BC	NET		53	48° 39.88	125° 47.35	65				HM/AS	✓	BONGO
		1139	BO				48° 39.87	125° 47.36		55					
24	LC05	1151	BC	ROS		54	48° 39.89	125° 47.37	65			Ø			
		1153	BO				48° 39.89	125° 47.38		55					
		1154	EN				48° 39.89	125° 47.38							
24	LC05-04	1204	BC	MVP		55	48° 40.13	125° 46.90	65						MVP #203
		1237	EN				48° 43.31	125° 40.90							
24	LC04	1245	BC	ROS		56	48° 43.49	125° 40.76	166		146-155	10	HM/AS	✓	
		1248	BO				48° 43.49	125° 40.79							
		1300	EN				48° 43.48	125° 40.80							
24	LC03	1347	BC	ROS		57	48° 46.99	125° 34.23	134			Ø	HM/AS	✓	
		1349	BO				48° 46.98	125° 34.24		125					
		1352	EN				48° 46.98	125° 34.26							
24	LC02	1421	BC	ROS		58	48° 48.68	125° 31.03	108		156-162	7	HM/AS	✓	
		1424	BO				48° 48.64	125° 31.00		100					
		1431	EN				48° 48.67	125° 30.89							
24	LC01	1505	BC	ROS		59	48° 50.46	125° 27.69	94		163-169	7		✓	
		1508	BO				48° 50.47	125° 27.68							
		1519	EN				48° 50.47	125° 27.79							

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							Latitude	Longitude							
24	LG01	2031	BE	ROS		60	49 20 54	126 35 34	51						CON FILE CHANGE
		2033	BO				49 20 60	126 35 38			170-174	5	DAJD MC	✓	⇒ ***
		2039	EN				49 20 59	126 35 40							
24	LG02	2108	BE	ROS		61	49 18 78	126 38 16	100						
		2111	BO				49 18 76	126 38 13		93	175-181	7	DAJD MC	✓	
		2121	EN				49 18 71	126 38 12							
	LG02	2145	EN	NET		62	48 18.33	126 38.77	99	90					
24	LG03	2228	BE	ROS		63	49 15 00	126 43 67	125						
		2231	BO				49 15 01	126 43 63		115	—	0	DAJD MC	✓	
			EN				49 15 02	126 43 61							
24	LG04	2317	BE	ROS		64	49° 11.34	126° 49.40	145		182-190	9	H.M./AS	✓	
		2320	BO				49° 11.33	126° 49.43		135					
		2333	EN				49° 11.34	126° 49.49							
		2356	BE	NET		65	49° 11.25	126° 49.36							BONGO
25		0001	BO				49° 11.25	126° 49.38		135					
25	LG04-05	0013	BE	MVP		66	49° 11.25	126° 49.38							MVA # 216
			EN												

* * * 0443ctd.com altered.

0443ctd.com

to 4054 to 4700

co 2399 ci 3396

0443bctd.com

to 4054 to 4700

co 1766 ci 2102

note: using 0443 "b" ctd.com from

2008-05-0060, hex & on.

Ocean Sciences Division, Institute of Ocean Sciences

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DAILY SCIENCE LOG

Month				Year			Ship		Cruise ID						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Latitude	Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
25	LG05	0055	BG	ROS		67	49° 07.39	126° 55.28	273				A.M./A.S.		
		0100	BO				49° 07.38	126° 55.23		260					
		0103	EN				49° 07.38	126° 55.20							
	LG06	0154	BG	ROS		68	49° 03.47	127° 01.21			191-207	17	HM/AS		
		0213	BO				49° 03.48	127° 01.22							
			EN				49° 03.	127° 01.							
25	LG05-06	0111	BG	MVP		69	49° 07.38	126° 55.20	971						MVP# 222-229
		0145	EN				49° 03.47	127° 01.21		960					(BEFORE LG06)
							49° 03.516	127° 01.236							#13 no close
		0255	BE	MVP		70			1097						File 228 -
			EN												
	LG07	0351	BE	ROS		71	48° 59.40	127° 07.195	1750				DEB/AM		
		0422	BO				48° 59.396	127° 07.224		1745					
		0447	EN				48° 59.411	127° 07.213							
		0457	BE	Net		72	48° 59.41	127° 07.229		250					BONGO
		0505	BO				48° 59.424	127° 07.243							
															#232-233
	LG07-08	0530	BE	MVP		73									
		0538	EN												

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Month <u>MAY</u>				Year <u>2008</u>			Ship <u>TULLY</u>			Cruise ID <u>2008-05</u>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
25	LG08	0607	BE	CTD/R		74	48 55.28	127 13.34	2066				DFM, DSTW		
		0650	Bo				48 55.26	127 13.276		2005			DA, MG.		
		0719	EN				48 55 38	127 13.22							
25	LG08-09	0723	BE	MVP		75									File 236
		0805	EN												241
25	LG09	0812	BE	ROS		76	48 51 19	127 19 39	2050				MG JD DA	✓	
		0843	Bo				48 51 18	127 19 35			208-227	20			Bottle 15 ⇒
		0929	EN				48 51 21	127 19 42							
25	LG09 → LBP8	1005	BE	MVP		78	48 51 21	127 19 42	2050						File 242
		1637	EN	MVP			49 48 32	128 16 49							
	LG09	0945	EN	NET		77	48 51.19	127.19.42	2050	250					
	LG09 → LBP8			MVP		78									
25	LBP8	1646	BE	CTD		79	49 48 631	128 16 852	2065				DFE, DFM, LU		
		1715	Bo				49 48 581	128 16 675		2005					
		1740	EN				49 48 614	128 16 753							
	LBP8		BE	NET		80									UVIC · AKASH, J DOWER.

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Bottle 15 did not trip. Adjusted bottle height, switched latch mechanism.

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Month MAY				Year 2008				Ship TULLY				Cruise ID 2008-05			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
25	LBP8	1815	BO	Net		80	49 48.59	128 16.73		1000			JD/LH		
	LBP8-7	1857	BE	MPV		81									File 303
		1930	EN												
	LBP7		BE	NET		82							DA, MG, JD.		
		2005	BO	15m			49 52.39	128 11.23							
	LBP7	2013	BE	CTD/R		83	49 52.39	128 11.23	2167					✓	
		2051	BO				49 52.40	128 11.36		2005	228-247	20			Sunny, warm.
		2147	EN				49 52.44	128 11.54							flat, calm.
		2215	BE	MVP		84			2201						File #308
		2234	EN												#313
	LBP6	2243	BE	ROS		85	49 56.17	128 05.47	891					✓	
		2300	BO				49° 56.17	128° 05.50		864	-	0	DA MC JD	-	
		2316	EN				49° 56.18	128° 05.51					HM/AS		
	LBP6-5	2324	BE	MVP	✓	87	49° 56.58	128° 04.84							MVP # 314
		2350	EN				49 59.00	128° 00.00							
26	LBP5	0004	BE	ROS		86	49° 59.95	127° 59.93	1274		248-265	18	HM/AS	✓	
		0034	BO				49 59.99	128 00.03		1260					Trans cable starting to be noisy.
		0116	EN				49° 59.95	128° 00.13							

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Month		Year		Ship		Cruise ID									
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
26	LBP 5	0134	BE	NET		88	49° 59.95	129° 00.13	1274				H.M./A.S.		BONGO
		0158	BO				49° 59.95	129° 00.13		250					
26	LBP 4	0216	BE	ROS		89	50° 01.38	127° 58.13	1026				H.M./A.S.	✓	
		0235	BO				50° 01.38	127° 58.15		1030					NO ALT. SIGNAL
		0251	EN				50 01 421	127 58 140							
26	LBP 3	0316	BE	ROS		90	50 03 172	127 55 232	166		266-275	10			
		0323	BO				50 03 182	127 55 241		160					
		0338	EN				50 03 203	127 55 294							
26	LBP 3	0345	BE	Net		91	50 03 22	127 55.30							BONGO
		0349	BO				50 03 22	127 55.30		160					
	LBP 2	0412	BE	Net		92	50 03 985	127 54 186		99					
26	LBP 2	0426	BO				50 03 98	127 54.19			90				BONGO
		0430	BE	ROS		93	50 04 014	127 54 223	96						
		0433	BO				50 04 019	127 54 228		85					
		0435	EN				50 04 020	127 54 239							
26	LBP 2	0456	BE	ROS		94	50 04 795	127 52 777	52						
		0458	BO				50 04 807	127 52 787		42					
		0459	EN				810	796							

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Month MAY				Year 2008			Ship TULLY				Cruise ID 2008-05				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
26	LBP1	0506	BE	MVP		95	50 48.10	127 52.796	52						
	CPE2	1017	EN				50 43.05	128 39.80	126						F.16 383
	CPE2	1023	BE	ROS		96	50 43.03	128 39 84	126						
		1027	BO				50 43 01	128 39 81		118		0	DA MC 30	✓	
		1030	EN				50 43 02	128 39 78							
	CPE2	1039	BE	NET		97	50 42 98	128 39 71	128	120					
		1043	BO				50 42 96	128 39 72							
	CPE2	1052	BE	MVP		98	50 42 89	128 40 06	127						F.16 384
	LQ03	1221	EN				50 39 68	129 02 14							F.16 401
26	LQ03	1229	BE	NET		99	50° 39.69	129° 02.10	1312				HM/AS		BONGO
		1235	BO				50.39.7043	129° 02.1250		250					
26	LQ03	1250	BE	ROS		100	50° 39.68	129° 01.97	1242		0		HM/AS	✓	NO ALT. READING
		1306	BO				50° 39.76	129° 01.95		1250					
		1325	EN				50° 39.63	129° 01.97							
26	LQ03-J122	1332	BE	MVP		101	50° 39.56	129° 02.31	1365						MVP #402
		1425	EN				50° 39.77	129° 16.32							
26	J1 22	1437	BE	ROS		102	50 39.83	129° 17.39	1397		0				
		1501	BO				50 39.823	129 17 426		1401					
		1519	EN				50 39 812	129 17 408							

J122 -- bottle fired @ bottom - not by operator
- no AH. trace

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Month <u>MAY</u>				Year <u>2008</u>		Ship <u>TULLY</u>		Cruise ID <u>2008-05</u>							
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
26	J1 22	1527	BE	NET		103	50 39 800	129 17 400	1389	250					BONGO
		1531	BO				50 39 796	129 17 433							mvp
	J122-CS-1		BE	MVP		104	50 39 81	129 17 06							
			EN				50 34 913	129 41 603							
	CS-1	1732	BE	NET		105	50 34 877	129 41 598	2099						
		1740	BO				50 34 802	129 41 587		250					BONGO
26	CS01	1755	BE	ROS		106	50 34 863	129 41 497	2103					✓	
		1812	BO				50 34 831	129 41 496		1005					
		1831	EN				50 34 775	129 41 510							
26	CS1-CS02	1837	BE	MVP		107	50 34 872	129 41 690	2103	205					File 429
			EN												
26	CS02	1956	BE	ROS		108	50 41.35	129 27.96	1802						
		2012	BO				50 41 35	129 27 09		1005	276-290	15	50 04-10	✓	noise on sec cond?
		2045	EN				50 41 40	129 27 23							
	CS02	2110	BO	NET		109	50 41.68	129 27.6	1802	255					
	CS02-03	2112	BE	MVP		110	50 41.68	129 27.6	1883						
		2205	EN				50 45.58	129 22.11	239						File 445
	CS03	2216	BE	NET		111	50 45.66	129 19.90							Zero frog from
		2222	BO				50 45 69	129 19.93							2nd cond. on deck!

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* Getting 0.00 conductivity from sec card on deck after changing cable.
(2102)

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Month <u>MAY</u>				Year <u>2008</u>			Ship <u>TULLY</u>			Cruise ID <u>2008-05</u>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
26	CS03	2239	BE	ROS		112	50°45.63	129°19.98	234						
		2246	BO				50°45.64	129°20.01		230		Ø	DA JD MC		Sec and dead.
		2251	EN				50°45.63	129°20.02							
26	CS03-4	2301	BE	MVP		113	50°45.69	129°19.83				7			MVP# 445
		2330	EN				50°48.88	129°13.62							#453
26	CS04	2343	BE	ROS		114	50°49.19	129°12.99	96		291-297	7	HM/AS		CHANGED COND. →
		2346	BO				50°49.20	129°13.01		85					
		2355	EN				50°49.23	129°13.07							
27	CS04	0021	BE	NET		115	50°49.27	129°13.08	97				HM/AS		BONGO
		0024	BO				50°49.27	129°13.08		85					
		0032	BE	MVP		116	50°49.43	129°13.54	70						#454
		0204	EN												#483
27	CS3B	0214	BE	NET		117	50°59.97	129°26.99	219				HM/AS		BONGO
		0219	BO				51°00.05	129°26.98		200					
27	CS3B	0236	BE	ROS		118	51°00.04	129°27.14	222			Ø	HM/AS		
		0242	BO				51°00.04	129°27.18		215					
		0247	EN				51°00.04	129°27.21							
		0254	BE	MVP		119	50°59.91	129°27.08	219						484-514
		0944	EN				50°55.93	129°00.12							

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SENSORS - BACK TO #3396 → Sec Cond 2102 died, back to 3396.

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Month				Year			Ship				Cruise ID				
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							Latitude	Longitude							
27	CS 5	0452	BE	ROS		120	50 56.010	129 0.024	64.4				DTL, DM, LU		
		0455	BO				50 56.017	129 0.007		57		/		✓	
		0457	EN				50 56.021	129 59.981							
27	CS 5	0503	BE	Net		121	50 56.069	129 59.982		55					BON60
		0508	BO				50 56.084	129 59.992							
27	CS 5 -	0512	BE	MUP		122	50 56.084	129 59.992	64.4						
	CS1B	0634	EN				50 53.170	128 40.409							
	CS1B	0642	BE	NET		123	50 53.062	128 40.096	74						BON60
		0645	BO				50 53.060	128 40.124							
	CS1B	0659	BE	ROS		124	50 53.05	128 40.17	72					✓	
		0703	BO				50 53.05	128 40.21				0			
		0705	EN				50 53.05	128 40.23		65					
	CS1B-06	0711	BE	MVP		125	50 53.05	128 40.23							File 562
			EN												
	CS06	0813	BE	ROS		126	51 00.07	128 51.87	65						
		0818	BO				51 00.10	128 51.89		55					
		0820	EN				51 00.13	128 51.89							
	CS06	825	BE	NET		127	51 00.13	128 51.89	64						

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