

DAILY LOG

CRUISE
NUMBER

2006 -
025/026

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

15-29 August 2006

VESSEL

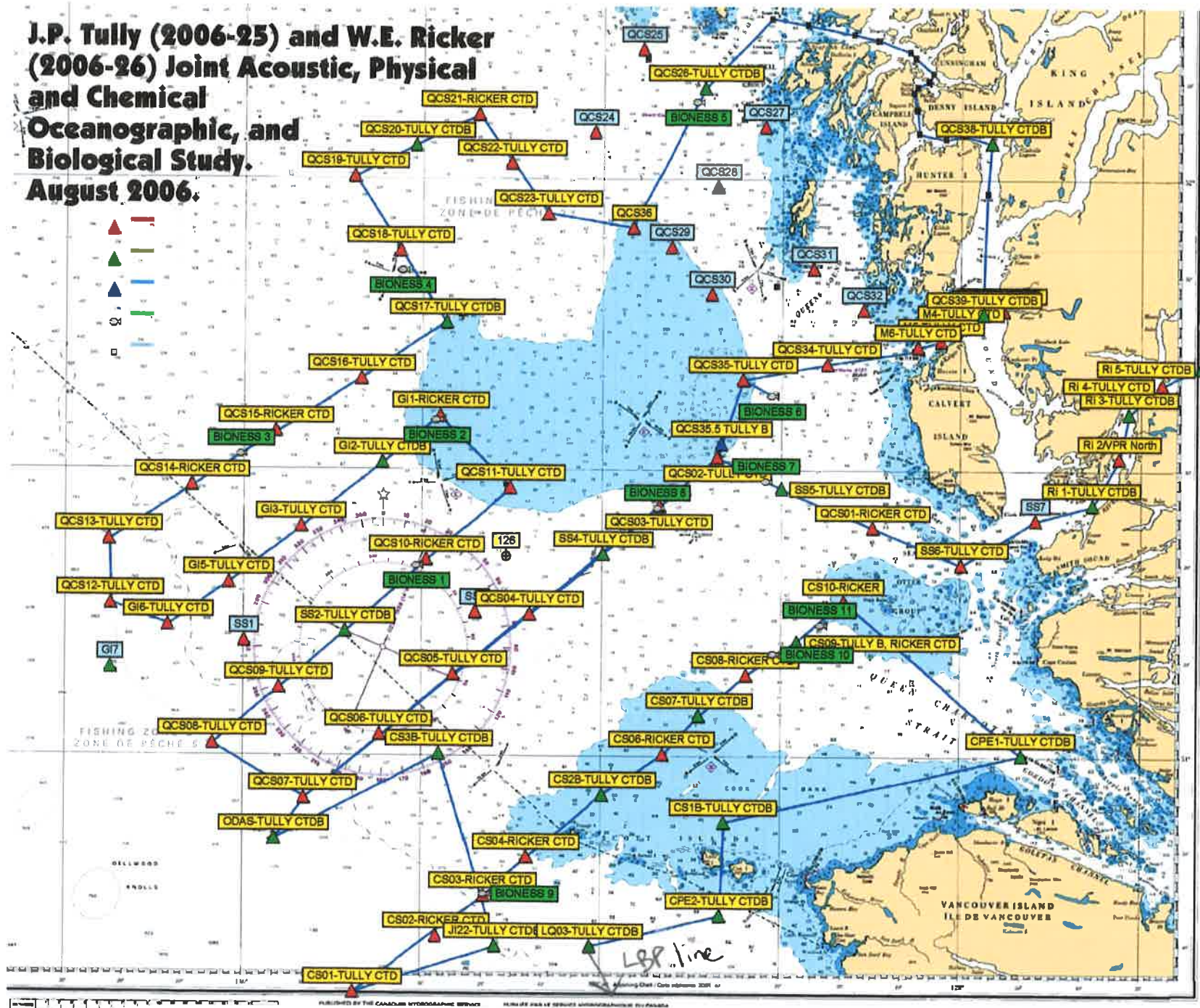
J. P. Tully / W. E. Ricker

PROJECT

Acoustics

QC Sound, Cape Scott, Brooks Pen.

J.P. Tully (2006-25) and W.E. Ricker (2006-26) Joint Acoustic, Physical and Chemical Oceanographic, and Biological Study. August 2006.



Captain: _____ First Officer: _____

Second Officer: _____ Third Officer: _____

Mission Participants / Agencies: _____

Scientific Personnel: _____ Party Chief: Steve Rouane

Name	Watch	Cabin	Name	Watch	Cabin
<u>Alex Hutter</u>		<u>B</u>			
<u>Deborah Fast</u>		<u>C</u>			
<u>Leslie McDougal</u>		<u>D</u>			
<u>Maira Galbraith</u>		<u>E</u>			
<u>Stan Tomick</u>		<u>H</u>			
<u>John Holmes</u>		<u>A</u>			
<u>Robert Heiser</u>		<u>G</u>			
<u>Rebecca Thomas</u>		<u>F</u>			

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

Data logging computer: _____
Data acquisition program: _____
CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: _____ model: _____ serial number: 443
Primary temperature sensor serial number: _____ Calibration date: _____
Primary conductivity sensor serial number: _____ Calibration date: _____
Secondary temperature sensor serial number: _____ Calibration date: _____
Secondary conductivity sensor serial number: _____ Calibration date: _____
Other sensors: None s/n: 2356
Other sensors: two s/n: 498
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____

Secondary CTD

Make: _____ model: _____ serial number: _____
Primary temperature sensor serial number: _____ Calibration date: _____
Primary conductivity sensor serial number: _____ Calibration date: _____
Secondary temperature sensor serial number: _____ Calibration date: _____
Secondary conductivity sensor serial number: _____ Calibration date: _____
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____
Other sensors: _____ s/n: _____

Comments: _____

16 Aug

added PAR sensor to voltage 6 serial # 4656

cal. const: 281690403

offset: 11558

(dark?)

PAR setting does not work -

SMS 51148E-1

Note: Consecutive Sample Numbers for Cruise added
after Cruise by Wendy Richardson
in consultation with Steve, Joe & Germaine.

DAILY LOG

Ocean Sciences and Productivity Division

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Year 2006					Month August			Ship Jolly				Cruise I.D. 2006-025		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
18	Port Hardy	CTD	1812	BE	1	50 44.327	127 28.570		42	37				for new cal
			1814	BO										
			1816	EN										
19	SS6	CTD	1434	BE	2	51 19.916	127 59.592		167	160				
			1437	BO		51 19.891	127 59.576							
			1440	EN		51 19.859	127 59.551							
19	SS5	CTD	1726	BE	3	51 27.930	128 29.993		177	187				
			1733	BO		51 27.854	128 30.011							
			1738	EN		51 27.868	128 30.008							
19	SS5	NET	1752	BO	4	51 27.935	128 30.021		187	197				Bongo UNIT
				EN										
19	RCS 02	CTD	1926	BE	5	51 31.102	128 40.848		80	78				
			1930	BO		51 31.099	128 40.862							
			1933	EN		51 31.054	128 40.871							

Cast type:

BOT = otter cast
CTD = CTD
MOR = mooring

ROS = Rosette
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DRF = drifter

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments	
19	QCS 03	CTD	2044	BE	6	51 26.071	128 50.353		177	172					
			2049	BO		51 26.062	128 50.400								
			2054	EN		51 26.069	128 50.400								
19	QCS 03	NET		BE	7									BIONESS - FAILED	
				EN											
20	QCS 04	CTD	0004	BE	8	51 14.701	129 12.307		271	268					
			0013	BO		51 14.696	129 12.340								
			0019	EN		51 14.693	129 12.374								
20	QCS 05	CTD	0200	BE	9	51 8.346	129° 24.744		277	272					
			0206	BO		51 8.362	129° 24.739								
			0213	EN		51 8.364	129° 24.725								
20	QCS 06	CTD	0336	BE	10	51 2.023	129 37.028		800	500					
			0345	BO		51 2.011	129 37.087					1			
			0357	EN		51 1.99	129 36.8168							Seasaw crashed with CTD returned to surface.	

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20	QCS 07	CTD	0514	BE	11	50° 55.476	129° 49.817		1800	500			J	
			0525	BO		50° 55.457	129° 49.853					1		
			0537	EN		50° 55.487	129° 49.882							
20	QCS 08	CTD	0708	BE	12	51° 01.037	130° 05.010		2160*	500			J	Bridge noted 1080 fa
			0717	BO		51° 01.051	130° 04.976					1		as depth.
			0727	EN		51° 01.022	130° 04.982							
20	QCS 09	CTD	0852	BE	13	51° 07.027	129° 54.012		1600*	500			J	Bridge noted 600 fa
			0859	BO		51° 07.002	129° 53.998							for bottom depth.
			0908	EN		51° 07.006	129° 54.067							
20	SS2	CTD	1712	BE	14	51 13.021	129 43.003		580	501	1 → 12			
			1720	BO		51 12.968	129 42.937							
			1737	EN		51 12.947	129 42.983							
20	SS2	NET	1747	BO	15	51 12.947	129 42.983		550	250				Bongo
				EN										

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20	SS2	NET	1932	BE	16	51 19.941	129 31.136		220	200				BIONESS
			2005	EN		51 20.324	129 32.578							
20	QCS11	CTD	2150	BE	17	51 27.850	129 15.608		69	64				
			2153	BO		51 27.847	129 15.616							
			2156	EN		51 27.848	129 15.611							
20	GIØ1	NET	2324	BE	18	51 35.002	129 22.676		63	50				BIONESS
				EN		51 34.771	129 28.146							
21	GIØ2	CTD	0039	BE	19	51 30.514	129 36.994		136	131				
			0045	BO		51 30.523	129 36.976							
			0049	EN		51 30.510	129 36.968							
21	GIØ2	NET	0059	BO	20	51 30.504	129 36.940		136	126				Bongo
				EN										

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
21	G105	CTD	03.56	BE	21	51°	17.992	130°	02.352		328	323			<i>[initials]</i>	
			04 05	BO		51°	18.004	130°	02.378							
			04 13	EN		51°	17.984	130°	02.396							
21	G103	CTD	05 25	BE	22	51°	24.013	129°	50.316		240*	235			<i>[initials]</i>	max depth Δ during
			05 30	BO		51°	24.028	129°	50.362		230?	221				Cast stopped w/ altimeter
			05 36	EN		51°	24.040	129°	50.365							reading 5m
21	G106	CTD	07 34	BE	23	51°	13.498	130°	12.439		1400?	500			<i>[initials]</i>	700 fa from bridge est.
			07 49	BO		51°	13.489	130°	12.414					1		passed 500m (500') - radio prob.
			08 06	EN		51°	13.447	130°	12.342							(put mine off channel)
21	QCS12	CTD	09 06	BE	24	51°	15.739	130°	22.432		1600?	500			<i>[initials]</i>	estimate depth.
			09 16	BO		51°	15.743	130°	22.385					1		
			09 27	EN		51°	15.740	130°	22.444							

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21	QCS13	CTD	1452	BE	25	51 22.639	130 22.632		1533	500				
			1503	Bo		51 22.621	130 22.578					1	RE	
			1514	EN		51 22.637	130 22.504							
21	QCS14	NET	1723	BE	26	51 31.334	130 00.693		240	200				BIDNESS
			1809	EN										
21	QCS16	CTD	1947	BE	27	51 22.636	130 22.502		147	142				
			1953	BO		51 39.301	129 40.469							
			1957	EN		51 39.305	129 40.501							
21	QCS17	CTD	2122	BE	28	51 39.091	129 26.102		85	80				
			2126	BO		51 45.097	129 26.123							
			2129	EN		51, 45.104	129 26.122							
21	QCS17	NET	2135	BO	29	51 45.10	129 26.12		85	75				Bongo
				EN										

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21	QCS 18	NET	2314	BE	30	51° 50.456	129° 31.699		255	200				Bionex's
				EN		51° 51.304	129° 32.636							
22	QCS 19	CTD	0108	BE	31	52° 0.137	129° 41.711		167	162				
			0113	BO		52° 0.161	129° 41.693							
			0119	EN		52° 0.169	129° 41.695							
22	QCS 22	CTD	0352	BE	32	52° 1.530	129° 15.337		179	164				
			0357	BO		52° 1.561	129° 15.395							
			0403	EN		52° 1.592	129° 15.380							
22	QCS 20	CTD	0517	BE	33	52° 03.388	129° 31.441		220	215				
			0523	BO		52° 3.378	129° 31.384			205				A depth - stopped w/ altimeter @ 5m.
			0528	EN		52° 3.360	129° 31.331							
22	QCS 20	NET	0540		34	52° 3.360	129° 31.331		205	195				Bongo
			0550			52° 3.112	129° 31.41							

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22	QCS 18	CTD	07 07	BE	35	51° 52.613	129° 33.874		255	250			JS	
			07 13	BO		51° 52.644	129° 33.858							
			07 19	EN		51° 52.723	129° 33.803							
22	QCS 23	CTD	09 05	BE	36	51° 56.478	129° 09.428		152	147			JS	
			09 10	BO		51° 56.479	129° 09.389							
			09 15	EN		51° 56.484	129° 09.348							
22	QCS 36	CTD	14 09	BE	37	51 55.064	128 54.508		76	71			sn	
			14 15	BO		51 55.114	128 54.803							
			14 17	EN		51 55.132	128 54.744							
22	QCS 26	CTD	16 18	BE	38	52 9.304	128 43.104		214	209			AL	
			16 26	BO		52 9.304	128 43.198							
			16 31	EN		52 9.311	128 43.262							
22	QCS 26	NET	16 42	BO	39	52 9.309	128 43.347		211	202			DR	Bongo
				EN										

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22	QCS26	NET	1714	BE	40	52 08.048	128 44.212		199	.			SM	BONES
			1756	EN		52 07.313	128 44.787							
22	QCS30	CTD	2316	BE	41	52 3.733	127 55.068		386	381	13 → 23		SM	twts, 02
			2327	BO		52 3.734	127 55.034							
			2344	EN		52 3.743	127 55.024							
22	QCS38	NET	2351	BO	42	52 3.743	127 55.024		386	250				Bongo
				EN										
23	QCS39	CTD	0233	BE	43	51° 46.182	127° 56.472		380	375			✗	
			0241	BO		51° 46.170	127° 56.524							
			0249	EN		51° 46.139	127° 56.521							
23	QCS39	NET	0301	BO	44	51° 46.221	127° 56.482		380	250			✗	Bongo
			0315			51° 46.317	127° 56.280							

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23	M2	CTD	0340	BE	45	51° 46.457	127° 53.197		176	170			<i>[initials]</i>	
			0344	BO		51° 46.433	127° 53.207							
			0349	EN		51° 46.415	127° 53.251							
23	M3	CTD	0514	BE	46	51° 46.306	127° 54.625		330	325			<i>[initials]</i>	
			0522	BO		51° 46.314	127° 54.625							
			0529	EN		51° 46.310	127° 54.630							
23	M4	CTD	0606	BE	47	51° 44.657	128° 00.313		430	425			<i>[initials]</i>	
			0614	BO		51° 44.670	128° 00.307							
			0622	EN		51° 44.695	128° 00.287							
23	M5	CTD	0654	BE	48	51° 43.414	128° 03.582		335	330			<i>[initials]</i>	
			0704	BO		51° 43.436	128° 03.624							
			0713	EN		51° 43.440	128° 03.575							
23	M6	CTD	0739	BE	49	51° 42.649	128° 07.336		240	235			<i>[initials]</i>	
			0747	BO		51° 42.601	128° 07.346							
			0754	EN		51° 42.572	128° 07.339							

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23	QCS34	CTD	1611	BE	50	51 40.822	128 22.493		138	133			fl	
			1616	BO		51 40.852	128 22.466							
			1620	EN		51 40.868	128 22.430							
23	QCS35	CTD	1740	BE	51	51 39.245	128 36.767		33	30			R	
			1743	BO		51 39.252	128 36.715							
			1745	EN		51 39.248	128 36.678							
23	QCS35	NET	1818	BE	52	51 37.598	128 31.630		144					BIDNESS
			1855	EN		51 38.883	128 31.754							
23	QCS35 1/2	NET	2016	BO	53	51 32.660	128 40.170		41	36				Bongo
				EN										
23	SSS	NET	2114	BE	54	51 28.751	128 32.560		196	180				BIDNESS
			2153	EN		51 27.659	128 31.786							

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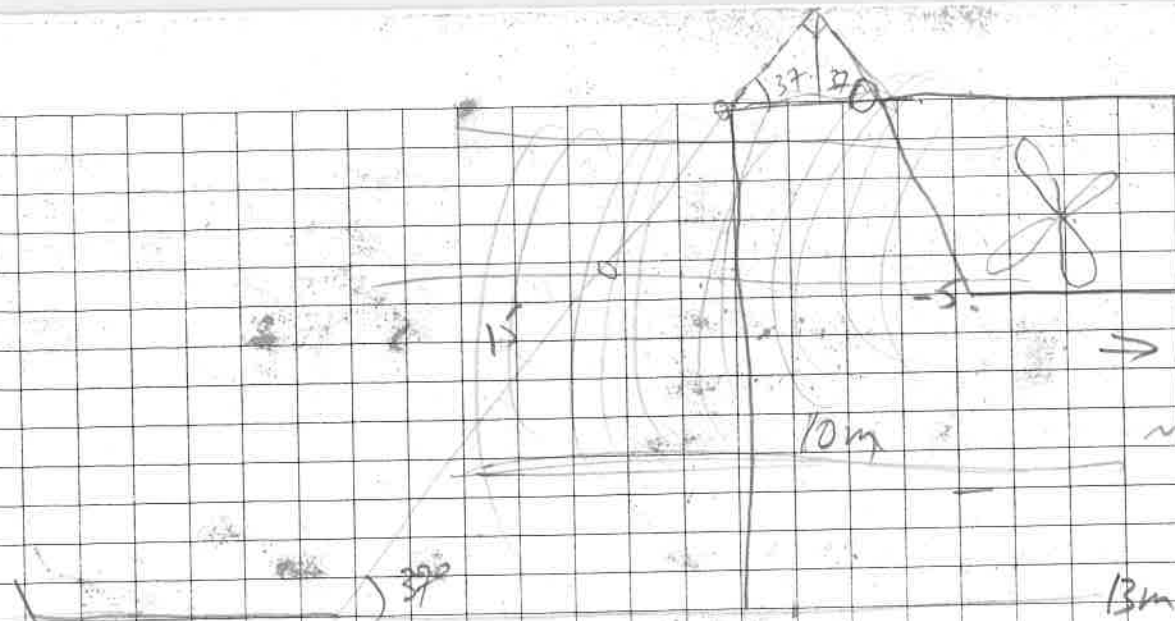
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$\rightarrow 235 \text{ rpm gem} = \text{mode}$

$\sim 160 \text{ non gem} = \text{mode}$

$$\cos 37^\circ = 0.8$$

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
24	RI 01	CTD	02 21	BE	55	51° 26.382	127° 38.130		325	320			A	
			02 29	BO		51° 26.382	127° 38.154							
			02 36	EN		51° 26.384	127° 38.136							
24	RI 01	NET	02 38	BE	56	51° 26.4088	127° 38.1121		326	250			K	Bongo
			03 00	EN		51° 26.5	127 37.67							
24	RI 02	CTD	03 49	BE	57	51° 31.282	127° 33.622		330	325			L	
			03 55	BO		51° 31.252	127° 33.642							
			04 02	EN		51° 31.242	127 33.659							
24	RI 02	VPR	04 27	BE	58	51 31.169	127 33.698		324	13			SL	VPR
			05 57	EN		51° 35.702	127° 32.151							
24	RI 03	CTD	06 09	BE	59	51° 35.915	127° 32.117		325	320			L	
			06 15	BO		51° 35.918	127° 32.129							
			06 22	EN		51° 35.920	127° 32.128							

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24	RI 03	NET	0622	BE	60	51° 35.937	127° 32.134		325	250				BONGO
			0636	EN		51° 35.964	127° 32.138							
24	RI 04	CTD	0717	BE	61	51° 38.896	127° 26.724		300	295				
			0723	BO		51° 38.902	127° 26.635							
			0731	EN		51° 38.911	127° 26.555							
24	RI 05	CTD	0806	BE	62	51° 40.696	127° 19.901		200	195				
			0811	BO		51° 40.686	127° 19.872							
			0816	EN		51° 40.680	127° 19.858							
24	RI 05	NET	0823	BE	63	51° 40.655	127° 19.878		200	190				BONGO
			0834	EN		51° 40.501	127° 20.244							
24	QCS3	NET	1609	BE	64	51 26.628	128 50.980		174					BIONESS
			1700	EN		51 25.604	128 51.335							

Cast type:

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year					Month			Ship				Cruise I.D.		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
24	SS4	CTD	1802	BE	65	51 20.998	129 0.293		235	230			SL	
			1811	BO		51 21.053	129 0.251							
			1813	EN		51 21.046	129 0.178							
24	SS4	NET	1828	BO	66	51 21.0492	129 00.0551		235	235				Bongo - opps!
24	ODAS	CTD	2355	BE	67	50° 52.790	129° 55.500		2121	500	24 → 35		A	Error - bottle 5 fired @
			0004	BO		50° 52.874	129° 55.510							150 m, 175 m skipped.
			0030	EN		50° 53.100	129° 55.525							Bottle 11 fired but did not trip - so, no sample @ 175m or 10m.
25	ODAS	NET	0058	BO	68	50 52.859	129 55.098		2121	250			A	Bongo
25	CS3B	CTD	0310	BE	69	51 0.008	129 27.035		218	210			K.	
			0315	BO		51 0.016	129 27.058							
			0320	EN		51 0.017	129 27.078							
26	CS3B	NET	0334	BO	70	51.06.03	129 24.125		219	209			A	BONGO

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Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
25	J122	CTD	06 05	BE	71	50° 39.896	129 17.638		1388	500	36 → 47		✓	
			06 16	BO		50 39.811	129 17.623							
			06 42	EN		50° 39.496	129 17.639							
25	J122	NET	07 09	EN	72	50° 39.804	129° 17.421		1388	250			✓	Bongo
25	CS01	CTD	08 39	BE	73	50° 34.970	129° 41.572		2097	500				
			09 10	BO		50° 34.992	129° 41.518							
			09 22	EN		50° 34.936	129° 41.512							
25	CS03	NET	15 21	BE	74	50 45.264	129 19.4275							BIONESS 9
			15 56	EN		50 44.329	129 20.676							Cable hauled when
														switching over CTD → BO -
25	CS05/	CTD	19 53	BE	75	50 55.835	128 59.979		64	59				will need re-determination
	CS2B		19 57	BO		50 55.817	129 00.052							when we return to 205
			20 00	EN		50 55.813	129 02.072							
25	CS05/	NET	20 10	BO	76	50 55.813	129 00.128		64	55				Bongo
	CS2B			EN										

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Year					Month			Ship				Cruise I.D.				
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude		Longitude		Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
25	CS07	CTD	2153	BE	77	51	4.198	128	43.823		67	62			SL	
			2159	BO		51	4.202	128	43.873							
			2200	EN		51	4.207	128	43.884							
25	CS07	NET	2207	BO	78	51	4.227	128	43.906		66	60				Bongo
			2209	EN		51	4.2318	128	43.9226							
25	CS09	NET	2323	BE	79	51	10.596	128	31.359		189	180				BIONESS 10,
			2357	EN		51	11.202	128	29.300							<u>No VPR</u>
	CS09	CTD		BE	80	DONE BY RICHER										
				BO												
				EN												
26	CS09	NET	0051	BO	80	51	12.0211	128	27.5827		196	186				Bongo
				EN												
26	CS10	NET	0136	BE	81	51	13.786	128	23.625							BIONESS 11
			0205	EN		51	13.188	128	24.671		165	150				

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