

DAILY LOG

CRUISE
NUMBER

2000-30

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

22 SEPT -

VESSEL

JOHN P TULLY

PROJECT

EDDY - LA PEROUSE

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year <u>2000</u>					Month <u>Sept</u>			Ship <u>Tully</u>				Cruise I.D. <u>2000-30</u>		
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
23	C2/LBA2	CTD	21:32		1	48 25.4	125 7.9		128	118				Loops
23	C2	NET	22:05		2	48 25.3	125 7.7		113	105				Bongo
^														
23	C1	NET	23:00		3	48 28.96	125 15.38		151	145				
23	C1	ROS	23:34	BE	4	48 28.93	125 15.42		150	142	1-9	9		Par Cast
		ROS	23:40	BO	4	48 28.94	125 15.48							
		ROS		EN	4									
24	C1	ROS	00:29	BE	5	48 28.878	125 15.443		153		10-14	4		
		ROS		BO	5									
		ROS	00:36	EN	5	48 28.91	125 15.46							
24	C3	NET	01:35	BE	6	48 23.422	125 20.832		123	115				BONGO
24	C3	CTD	01:55	BE	7	48 23.407	125 20.834		123					LBA3
			01:59	BO	7	48 23.395	125 20.855			115				
			02:02	EN	7	48 23.39	125 20.84							
24	BB/LCB3	CTD	03:34	BO	8	48 34.54	125 30.09		115					
			03:39	BO	8	48 34.47	125 30.15		135	125				
			03:42	EN	8	48 34.45	125 30.17							
24	BB/LCB3	BONGO	03:59	BO	9	48 34.412	125 30.160		136					
		BONGO	04:02	EN	9	48 34.425	125 30.170			130				

Cast type:

BOT = otter cast
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ROS = Rosette
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C2 (LCBA2)

C1 ~~(LCB)~~

C3 (LCBA3)

B8 (LCB3)

B7 (LCB4)

B5 (LC5)

B6 LCB6

A1 LCB8

A2

A3 LCB9

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year 2000					Month SEPTEMBER			Ship JOHN P. TULLY				Cruise I.D. 2000-30		
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	B7/LCB4	CTD	0443	BE	10	48° 31.93	125° 35.55		81					
			0446	BO	10	48° 31.95	125° 35.53			76				
			0448	EN	10	48° 31.96	125° 35.53							
24	B7/LCB4	Net	0500	BO	11	48° 31.992	125° 35.488		80					Bongo
			0502	EN	11	48° 31.989	125° 35.487			75				
24	B5/LC5	ROS	0639	BE	12	48° 40.67	125° 46.21		103					Loops taken
			0642	BO	12	48° 40.68	125° 46.24			95	15-21	7		
			0651	EN	12	48° 40.64	125° 46.17							
24	B5/LC5	NET	0705	BO	13	48° 40.681	125° 46.257		101	92				Bongo
			0708	EN	13	48° 40.684	125° 46.292							
24	B6/LC6	ROS	0802	BE	14	48° 36.45	125° 53.98		92	85	22-28	7		Loops
			0805	BO	14	48° 36.46	125° 53.96							
			0815	EN	14	48° 36.47	125° 53.94							
24	B6/LC6	NET	25	BE	15	48° 36.5	125° 53.9		92	85				Bongo
			29	BO	15	48° 36.5	125° 53.9							
24	A1/LCB	ROS	0948	BE	16	48° 29.44	126° 7.10		198		29-38			
			0955	BO	16	48° 29.44	126° 7.08			194				
			1009	EN	16	48° 29.44	126° 7.06							

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Year	2000				Month	Sept		Ship	T-114				Cruise I.D.			2000-30	
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	A1/LC8	NET	0024	BE	17	48 23.5	126 07.04		19								
24	A2	CTD	1132	BE	18	48 22.68	126 03.80		352								
24	A2	CTD	1143	BO	18	48 22.69	126 03.79			342				overwrite previous file, A2=20300016.DAT			
24	A2	CTD	1153	EN	18	48 22.70	126 03.77							see note 4			
24	A2	NET	1203	BE	19	48 22 70	126 03.75		352	250				BONGO			
24	A3	NET	1313	BE	20	48 24 70	126 15 80		915	250				BONGO			
24	A3	ROS	1345	BE	21	48 24 69	126 15 79		915					ROS			
24	A3	ROS	1407	BO	21	48 24 70	126 15 77			905	39-54	16	12				
24	A3	ROS	1435	EN	21	48 24 71	126 15 84										
24	A3/LC9	ROS	1520	BE	22	48 24 68	126 15 84		918					Prim. Prod. CAST			
		ROS	1521	BO	22	48 24 69	126 15 84			50	55-59	5					
		ROS	1528	EN	22	48 24 70	126 15 84										
24	23	LOOP	1752			48° 35.45	126° 47.06							Sal, Nuts, chl			
	24	LOOP	1912			48 41.23	127 4.92							"			
	25	LOOP	2000			48 50.13	127 28.92										
24	26	Loop	2330			49 01.516	128 02 490		2482					Loops - 'black' water - 14			
25	27	Loop	0102			49 00 284	128 22 803		2467					Loops			
25	28	Loop	0300			49 17.944	128 48 915		2391					Loops			
25	29	Loop	0500			49° 27.333	129 15 815		2401					"			

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* A2 was accidentally logged as 20300016, which was previously A1/LC08. A1/LC08 has no corresponding CTD/BCS data.
Doug Anderson 00/09/24

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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	30	Loop	0900			49 45.704	130° 10.923		2134					Loops.
25	31	Loop	1100			49 54.810	130 38 151		2382					Loops
25	32	Loop	1300			50 03.869	131 06.204		2913					Loops
25	34	Loop	1800			50 13.883	131 34.179		2959					NO 33 Loop
25	35	Loop	1700			50 24.850	132 07 757		2991					Loop.
25	36	Loop	1903			50 37.478	132 43.202		3000 ⁺					SOUNDER NOT READING Z BELOW 3000 m.
25	37	Loop	2100			50° 47.900	133° 15.983		3000 ⁺					Loop
25	38	Loop	2300			50 58.548	133 50.493							Loop
25	PAR	CTD	2311	BE	23	50 58.636	133 50.881		2668					PAR CAST
25	PAR	CTD	2317	BO	23	50 58.664	133 50.837			150				
25	PAR	CTD		EN	23	50 58.686	133 50.814							
26	39	Loop	0100	Loop	—	51 08.169	134 18.786		3292					Loop
26	40	Loop	0300	BE	—	51 18.542	134 50.833		3395					"
26	41	Loop	0500	BO	—	51 29.662	135 24.753		3521					"
26	42	Loop	0700		—	51° 40.710	135° 57.000		3582					Loop
26	ED01	NET	0800		24	51 44.75	136 09.33							BOWESS
26	ED01	NET	0900		25	51 45.08	136 11.26		3545					Neuston
	ED01	NET	0950		27	51 44.97	136 10.16							Bongo 0-150
	ED01	NET												

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TUESDAY 26 SEPT: $\approx$ 1900 UTC: SOAP IN THE LOOP SYSTEM FROM WASHING THE DECKS
MIGHT HAVE AFFECTED THERMOSALINOGRAPH

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Year 2000					Month Sept			Ship Tully			Cruise I.D. 2000-30			
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
26	ED01	ROS	1005	BE	28	51 45.01	136 10.24		3536		60-79	20	M	NO PAR
	ED01	ROS	1054	BO	28	51 45.11	136 10.03			2000				
	ED01	ROS		EN	28									
26	ED01	GO-FID	~1300		29	51 45	136 10			100				
			1430											
26	ED01	Fe bottle	1530			51 45.0	136 09.9							Fe
26	ED01	NET	1950	BE	30	51 45.01	136 10.07		Deep	250				Bioness (day)
26	ED02	ROS	2316	BE	31	52 00.02	136 10.12							
26	ED02	ROS	2331	BO	31	52 00.02	136 10.13		3192					LOOPS TAKEN
27	ED02	ROS	0003	EN	31	52 00.04	136 10.05			1000	80-95	16		
27	ED02	NET	0042	~BO	32	52 00.09	136 09.98							Bongo 0-150m
27	ED03	ROS	0234	BE	33	52 14.93	136 10.08		3576					
27	ED03	ROS	0309	BO	33	52 14.93	136 10.05			2006	96-115	20		PAR OFF
27	ED03	ROS	0358	EN	33	52 14.96	136 10.06							LOOPS TAKEN
	ED03	net	0410	BO	34	52 14.99	136 10.01							Bongo 0-150
	ED03	Newton	0430		35	52 15.0	136 10.0			Surface				Newton tow
27	ED04	ROS	0614	BE	36	52 29.98	136 10.02		3472					LOOPS TAKEN
			0636	BO	36	52 29.98	136 10.02			1006				Wire rusting at ~
			0707	EN	36	52 30.00	136 10.01							400-500 m.

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27	ED04	NET	0725	BE	37	52° 30.00'	136° 10.00'		3472	155				BONGO
		NET	0745	BE	38	52° 39.90'	136° 09.90'			SURF.				NEUSTON
27	ED05	BIO	0936		39	52° 45.43	136° 10.28			250				BIONESS NETS
	ED05	NET	1113	EN	40	52° 45.035	136° 10.056			150				BONGO
	ED05	TOW	1132	EN	41	52° 44.732	136° 09.971			SURFACE				NEUSTON TOW
27	ED05	ROS	1405	BE	42	52° 44.92	136° 09.98		3447					
27	ED05	ROS	1436	BO	42	52° 45.02	136° 09.56			2000	132-151	20		LOOPS TAKEN
27	ED05	ROS	1536	EN	42	52° 45.04	136° 10.40							
27	ED05	BOFLO	1600		43	52° 45	136° 10							FR
	ED05	NET	1945	BE	44	53 00.09	136 9.90							Circles (day)
27	ED06	NET	2226		45	53 00.09	136 9.90							Bongo
	ED06	ROS	2245	BE	46	53 00.01	136 9.98		3431					
	ED06	ROS	2305	BO	46	53 00.01	136 09.99			2000	152-167	16		LOOPS TAKEN
	ED06	ROS	2332	EN	46	53 00.00	136 10.00							
	ED07	NET			47									
28	ED07	ROS	0139	BE	48	53 14.95	136 09.61		3419					
	ED07	ROS	0207	BO	48	53 14.89	136 09.66			2000	165-187	20		LOOPS TAKEN
	ED07	ROS	0256	EN	48	53 14.94	136 09.94							

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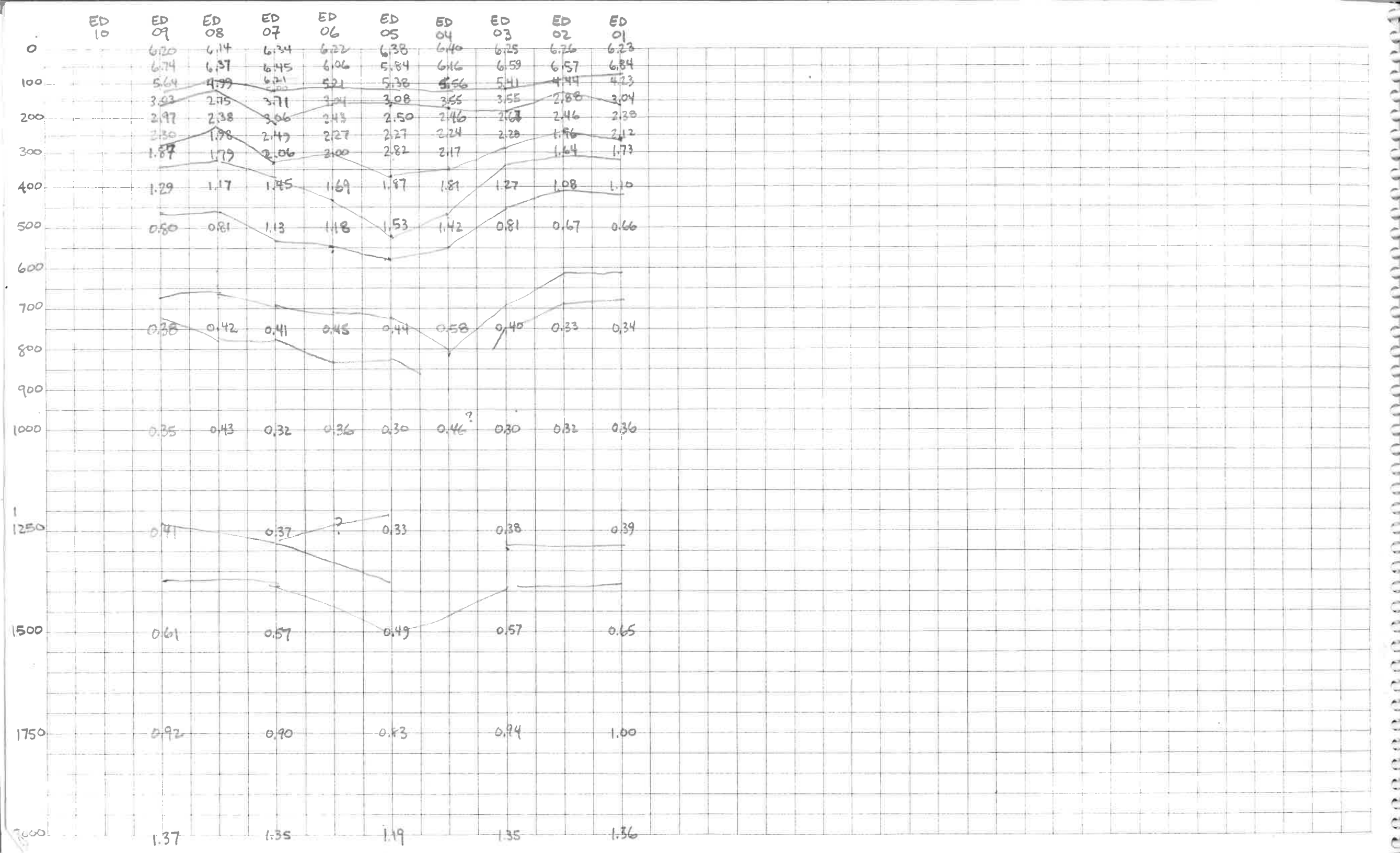
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Year 2000					Month SEPTEMBER			Ship JOHN P TULLY				Cruise I.D. 2000-30		
Day	Station I.D.	Cast Type	Time (UTC)	Time Code	Consec. Number	Latitude	Longitude	Position Code	Bottom Depth	Max Depth	Consec Sample #	# of Bottles	initials	Comments
28	ED08	ROS	0449	BE	49	53° 30.00	136° 09.98		1293					
			0504	BO	49	53° 29.97	136° 10.06			1008	188-203	16		Loops TAKEN
			0536	EN	49	53° 29.87	136° 10.14							
28	ED08	NET			50									
28	ED08	NET			51									Bongo 150 → 0
28	ED09	ROS	0810	BE	52	53° 45.09	136° 9.98		3094	2000				Neuston
	ED09		0855	BO	52	53° 45.06	136° 10.05							
	ED09		0955	EN	52	53° 45.02	136° 10.01				204-223	16		
	ED09	NET	1012	EN	53	53° 45.00	136° 09.98			150				
28	ED10	NET	1205	BO	54	54° 00.032	136° 10.135			150				BONGO TO 150m.
28	ED10	ROS	1227	BE	55	54° 00.03	136° 10.08		2826					BONGO
28	ED10	ROS	1249	BO	55	54° 00.03	136° 09.98			1001	224-239	16		Loops TAKEN
28	ED10	ROS	1315	EN	55	53° 59.99	136° 09.91							
28	ED07W	ROS	1848	BE	56	53° 14.97	136° 39.93		3337					
	ED07W	ROS	1913	BO	56	53° 14.94	136° 39.91			2000	240-250	11		
	ED07W	ROS	1953	EN	56	53° 14.87	136° 39.91							
29	ED04E	CTD	0048	BE	57	52° 44.87	135° 40.23		3487					Wrong name
29	ED04E	CTD	0053	BO	57	52° 44.84	135° 40.27			150				Should be ED05E
29	ED04E	CTD	0057	EN	57	52° 44.83	135° 40.27							

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Year 2000					Month SEPT			Ship TULLY			Cruise I.D. 2000-30			
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29	ED05E	ROS	01:08	BE	58	52 44.92	135 40.38		3473					wrong name in
29	ED05E	ROS	01:32	BO	58	52 44.87	135 40.46			2000	251-261	11		header
29	ED05E	ROS	02:09	EN	58	52 44.46	135 40.96							should be ED05E
29	ED03	ROS	06:06	BE	59	52 15.13	136 10.02		3577					Loops TAKEN
29	ED03	ROS	06:51	BO	59	52 15.07	136 10.22			2009	262-281	20		
29	ED03	ROS	07:49	EN	59	52 15.03	136 10.10							
29	ED03	NET	08:05	EN	60	52 15.24	136 10.83							0-150 bonged
29	ED03	NET	09:00	BE	61	52 15.62	136 9.87		3560					night BIONESS
29	ED03	NET	09:22	BO	61	52 15.26	136 10.0			250				
29	ED03	NET	09:38	EN	61	52 14.51	136 10.14					8 nets		
29	ED03	NET	10:02	BE	62	52 14.60	136 10.14			surf.				Newton - 10 min
29	ED03	NET	10:12	EN	62	52 14.72	136 10.76							pos'n approx
29	ED03	GOTLO	11:25	BE	63					100				Primary productivity
29	ED03		13:08	EN	63	52° 15.10	136° 10.00							
29	ED03	GOTLO	~13:30	BE	64	52° 15.039	136° 10.134							Fe
29	ED03	NET	19:06	BE	65	52 14.97	136 8.58							Day Bioness Edge
30	LOOP43	LOOP	01:00	—	—	52 05.90	134 53.01							LOOPS TAKEN
30	44	LOOP	03:01	—	—	52 01.830	134 21.777		3090					
30	45	LOOP	05:01	—	—	51 57.85	133 50.31							

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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
30	46	USW	0705			51° 53.37'	133° 17.00'		2760				DFM	Loop
30	47	USW	0900			51° 50.22'	132° 48.10'		2712				DFM	Loop
30	48	USW	1100			51 46.17	132 15.67		2576					Loop
30	49	USW	1200			51 42.38	131 47.21		2273					Loop
30	50	Loop	1500			51 38.560	131 15.555		2011					"
30	51	Loop	1725			51 33.36	130 35.18		1440					"
30	52	Loop	1900			51 30.515	130 11.071		446				DFM	"
30	53	USW	2100			51° 26.800	129° 38.300		165				DFM	"
30	54	USW	2300			51° 22.621	129° 04.150		224				DA	"
01	55	USW	0100			51 17.381	128 30.601		137					
01	CS 10	NET			66	51 16 475	128 20 104		76					BONGO to 70m
01	CS 10	CTD	0207	BE	67	51 16 41	128 20.30		83					
01	CS 10	CTD	0217	BO	67	51 16.40	128 20.33							
01	CS 10	CTD	0219	EN	67	51 16.38	128 20.36							
01	CS 9	ROS	0308	BE	68	51 12 44	128 28.15		193					1 Sal. Loop.
01	CS 9		0313	BO	68	51 12.41	128 28.15			185	282-291	10		
01	CS 9		0326	EN	68	51 12.47	128 28.12							
01	CS 9	NET	0338		69	51 12.47	128 28.10			50				0-50 bongo
01	CS 9	NET	0350		70	51 12 51	128 28 11			185				0-185 bongo

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10	CS8	NET	04	BO	71	51° 08.301	128° 35.865		141	50				Bongo to 50m
		NET	0457	BO	72	51° 08.464	128° 36.091			135				Bongo to 135 m
		NET	0513	BO	73	51° 08.509	128° 36.112			135				NORPAC to 135 m
11	CS8	CTD	0528	BE	74	51° 08.52	128° 36.10		141					
			0532	BO	74	51° 08.52	128° 36.13			135				
			0535	EN	74	51° 08.51	128° 36.15							
11	CS7	ROS	0624	BE	75	51° 04.40	128° 42.01		70					
		ROS	0628	BO	75	51° 04.39	128° 41.98			66	292-297	6		
		ROS	0636	EN	75	51° 04.36	128° 41.94							
1	CS7	NET	0705	BO	76	51° 04.36	128° 41.91		65	60				
1	CS6	NET	0810	BO	77	51° 0.08	128° 51.97		65	62				Bongo to 62 m
1	CS6	CTD	0827	BE	78	51° 0.09	128° 51.98		66					Loop taken
1	CS6	CTD	0829	BO	78	51° 0.09	128° 51.97			60				
1	CS6	CTD	0830	EN	78	51° 0.09	128° 51.96							
1	CS1B	ROS	0945	BE	79	50° 53.07	128° 39.88		78					
1	CS1B	ROS	0948	BO	79	50° 53.07	128° 39.89			72	298-303	6		
	CS1B	ROS	0955	EN	79	50° 53.06	128° 39.92		78					
	CS1B	NET	1010	BO	80	50° 53.00	128° 39.80		76	70				Bongo to 70
	CS5	NET		BO	81									

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Year	2000				Month	October		Ship	J.P. Tully			Cruise I.D. 2000-30			
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	
1	56	Loop	11:00			50 55 432	128 51 982			90.8				Loop	
1	CS5	NET	11:50	DE	82	50 55 879	129 00 006								
1	CS5	ROS	12:04	BE	83	50 55. 90	129 00 04		65						
1	CS5	ROS	12:08	BO	83	50 55. 90	129 00 02			60	304-309	6			
1	CS5	ROS	12:13	EN	83	50 55 90	128 59. 94								
1	CS4	CTD	13:32	BO	84	50 49. 22	129 12. 99		97						
	CS4	CTD	13:35	BO	84	50 49 22	129 12. 96			90					
	CS4	CTD	13:38	EN	84	50 49 24	129 12 93								
1	CS4	NET	13:51	BO	85	50 49 280	129 12 865							Bongo 0-100	
1		NET	14:07	BO	86	50 49 368	129 12 793							Bongo 0-50	
1	LOOP S7	LOOP	15:00	-	-	50 55.380	129 21.059		167						
1	CS3B	ROS	15:49	BE	87	50 59.91	129 27.06		218						
	 ▽	ROS	15:54	BO	87	50 59.93	129 27.08			212	310-319	10			
		ROS	16:10	EN	87	51 00.01	129 27.04								
		NET	16:24	BO	88	51 00.056	129 27.037		219	50				Bongo to 50	
		NET	16:38	BO	89	51 00.038	129 27.179		219	212				Bongo to 212	
		NET	16:56	BO	90	51 00.052	129 27.157							NORPAC to 150	
	ODAS	NET	19:17	BO	91	50 51.58	129 54.91							Bongo to 50	
		NET	19:35	BO	92	50 51.54	129 54.92							Bongo to 250	

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Year 2000					Month October			Ship Tully				Cruise I.D. 2000-30		
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1	ODAS	CTD	1954	BE	93	50 51.59	129 54.99		2120			—		PAR CAST
			2005	EN	93	50 51.63	129 55.00			250				
1	ODAS	CTD	2013	BE	94	50 51.56	129 54.98		2125					NON-PAR CAST
1	ODAS	CTD	2042	BO	94	50 51.50	129 55.17			2100				
1	ODAS	CTD	2103	EN	94	50 51.58	129 55.23							
1	CSO	ROS	2332	BE	95	50 28.53	129 55.04		2172	2177				Cast to 2000+
2	CSO	ROS	0011	BO	95	50 28.49	129 55.02			1000	320-335	16		Bottles only from 1000+
2	CSO	ROS	0104	EN	95	50 28.44	129 55.05							changed pinger
2	CSO	NET	0118	BE	96	50 28.51	129 55.10							BONGO TO 250
2	CSO	NET	0134	BE	97	50 28.51	129 55.96							BONGO TO 50
2	CSO	NET	0150	EN	98	50 28.740	129 54.980							NORFAC
2	CSI	NET	0311	BO	99	50 34.926	129 41.568		2101	50				BONGO TO 50
2	CSI	NET	0334	BO	100	50 35.030	129 41.567		2100	250				BONGO TO 250
2	CSI	ROS	0355	BE	101	50 34.97	129 41.47		2098					LOOP TAKEN (SAL)
			0435	BO	101	50 34.87	129 41.64			2123	336-350	15		
			0523	EN	101	50 35.00	129 41.56							
2	CS2	CTD	0645	BE	102	50 41.36	129 28.15		1897					
			0747	BO	102	50 41.31	129 27.98			1904		—		
			0757	EN	102	50 41.34	129 27.85							

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2	CS 2	NET	0808	BO	103	50 41.37	129 27.81		1881	50				Bongo 0-50m
	CS 2	NET	0825	BO	104	50 41.60	129 27.59			270 out				" 0-250m
	CS 3	NET	0920	BO	105	50 45.60	129 19.10		233	50				" 0-50m
	CS 3	NET	0943	BO	106	50 45.57	129 19.72		221	215				0-215m
	CS 3	ROS	0957	BE	107	50 45.58	129 19.61		227					
	CS 3	ROS	1003	BO	107	50 45.57	129 19.76			210				
	JI 22	NET	1112	BE	108	50 39.95	129 17.64			50				Bongo to 50
	JI 22	NET	1118	BE	109	50 39.89	129 17.64			250				Bongo to 250
2	JI 22	ROS	1149	BE	110	50 39.92	129 17.70		1417					
2	JI 22	ROS	1223	BO	110	50 39.99	129 17.75			1423	361-376	16		
2	JI 22	ROS	1305	EN	110	50 39.96	129 17.92							
2	LQ03	CTD	1425	BS	111	50 39.81	129 01.85		1228					
2	LQ03	CTD	1454	BO	111	50 39.84	129 01.94			1310				
2	LQ03	CTD	1514	EN	111	50 39.70	129 02.18							
	LQ03	NET	1526	BO	112	50 39.820	129 01.860			50				0-50 bongo
	LQ03	NET	1541	BO	113	50 39.882	129 01.805							0-250 bongo
2	LBP7	NET	2137	BO	114	49 52.49	128 11.17		2178	250				0-250 bongo
	LBP7	CTD	2210	BE	115	49 52.40	128 11.25		2179	50				PAR cast only
										150				

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Year 2000					Month October			Ship Tully				Cruise I.D. 2000-30		
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
2	LBP7	ROS	2231	BE	116	49 52.44	128 11.21		2180					
2	LBP7	ROS	2304	BO	116	49 52.47	128 11.32			2210	397-398	22		Part only
2	LBP7	ROS	2355	EN	116	49 52 458	128 11.301							
3	LBP2	ROS	0154	BE	117	50 03.99	127 54.46		98					wrong file name in header.
3	LBP2	ROS	0202	BO	117	50 04.08	127 54.45			89	399-410	12		
3	LBP2	ROS	0217	EN	117	50 04.28	127 54.58							
3	LBP2	NET	0248	BO	118	50 04.07	127 54.28			85				
3	LBP3	NET	0312	BO	119	50 03.248	127 55.459		168	160				Bongo to 160m
3	LBP3	CTD	0331	BE	120	50 03.22	127 55.45		168					SAC LOOP TAKEN
3	LBP3	CTD	0335	BO	120	50 03.21	127 55.44			160				
3	LBP3	CTD	0338	EN	120	50 03.21	127 55.42							
3	LBP4	ROS	0409	BE	121	50 01.35	127 58.11		1040?					
			0422	BO	121	50 01.39	127 58.24			1080	411-426	16		
			04	EN	121	50 01.35	127 58.08							
3	LBP5	CTD	0519	BE	122	50 00.05	128 00.04		1280					
			0547	BO	122	50 00.14	127 59.95			1283	/	/		
			0608	EN	122	50 00.14	128 00.11							
3	LBP5	NET	0628	BO	123	50 00.197	128 00.308		1288	250				
	LBP6	ROS		B										

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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
3	LBP6	ROS	0728	BE	124	49 56.27	128 5.41		783					
	LBP6	ROS	0746	BO		49 56.28	128 5.50			806	427-441	15		
	LBP6	ROS	0818	EN		49 56.35	128 5.45							
	LBP8	ROS	0941	BE	125	49 48.49	128 16.66		2072	2077				
	LBP8	ROS	1014	BO		49 48.58	128 16.69			1000	442-457	16		
	LBP8	ROS	1057	EN		49 48.58	128 16.83							
3	LOOP 58		1400			49 28.204	127 41.833							
3	LG6	CTD	1752	BE	126	49 03 30	127 01 10		951					PAR CAST
			1756	BO		49 03 39	127 01 07			150				
			1759	EN		49 03 39	127 01 08							
3	LG6	ROS	1812	BE	127	49 03.41	127 01 16		953					100 + UBC Rosette
			1832	BO		49 03 44	127 01 12			944	458-479	22		Bottle 4 empty
			1915	EN		49 363	127 0.87							
	LG3	CTD	21:08	BE	128	49 15.071	126 43.698		126					PAR Cast
			21:11	BO		49 15.077	126 43.688			100				
			21:13	EN		49 15.008	126 43.677							
3	LG3	ROS	21:23	BE	129	49 15.09	126 43.64		120	115				
			21:25	BO		49 15.06	126 43.58							
			2145	EN		49 15.19	126 43.40							

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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
3	LG1	ROS	2250	BE	130	49 20.57	126 34.84		56	50				
			2252	BO		49 20.57	126 34.86							
			2300	EN		49 20.58	126 34.90							
3	LG2	ROS	2335	BE	131	49 18.72	126 38.07		102					
		ROS	2338	BO		49 18.72	126 38.07			95	498-504	7		
		ROS	2347	EN		49 18.78	126 38.06							
3	LG2	NET	2357		132	49 18.816	126 39.941			100				BONGO
3	LG4	NET		BE	133									
4	LG4	ROS	01:50	BE	134	49 11.271	126 49.374		146					
	LG4	ROS	01:54	BO		49 11.28	126 49.34			140	505-513	9		
	LG4	ROS	02:08	EN		49 11.307	126 49.371							
4	LG5	CTD	0257	BE	135	49 07.39	126 55.23		279					SAL LOOP TAKEN
			0303	BO		49 07.38	126 55.17		270	261				
			0308	EN		49 07.38	126 55.23							
4	LG7	ROS	0435	BE	136	48 59.37	127 07.18		1756					
			0506	BO		48 59.57	127 07.26			1763	514-529	16		
			0545	EN		48 59.51	127 07.18							
4	LG7	NET	0603	BO	137	48 59.50	127 7.22		1754	250				BONGO TO 250 m
4	LG9	NET	0745	BO	138	48 51.13	127 19.30		2050	250				Bongo to 250 m

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4	LG9	ROS	0806	BE	139	48 51.15	127 19.28		2051	2075			dy	
4	LG9	ROS	0836	BO	139	48 51.18	127 19.29			1000	580-545	16		
4	LG9	ROS	0927	EN	139	48 51.20	127 19.43							
4	LJ9	CTD	1258	BE	140	49 15.97	127 47.34		2484					
4	LJ9	CTD	1332	BO	140	49 16.05	127 47.29			2500				
4	LJ9	CTD	1359	EN	140	49 16.11	127 47.25							
4	LJ8	ROS	1452	BE	141	49 20.07	127 40.90		1722					
4	LJ8	ROS	1512	BO	141	49 20.10	127 40.94			1743	546-561	16		
4	LJ8	ROS	1546	EN	141	49 20.10	127 40.88							
4	LJ8	NET	1605	BE	142	49 20.10	127 41.01			258				Bongo to 250m
4	LJ7	CTD	1709	BE	143	49 24.05	127 34.67		1800					Stop @ 750m ↓, something stuck in transmission
			1729	BO	143	49 24.08	127 34.72			1812				from 600 down.
			1746	EN	143	49 24.09	127 34.64							Clean on way up.
4	LJ6	ROS	1835	BE	144	49 27.88	127 28.57		1030?					
			1847	BO		49 27.85	127 28.57			1040	562-577	16		
			1923	EN		49 28.08	127 28.42							
4	LJ6	NET	1945	EN	145	49 28.04	127 28.67			150				Bongo to 250

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4	LJ5	CTD	2033	BE	146	49	31.74	127	22.67		1062					
	LJ5	CTD	2051	BO		49	31.85	127	22.58			1063	578-586			
			2104	EN		49	31.88	127	22.54							
4	LJ4	ROS	2153	BE	147	49	35.53	127	16.95		162					
			2157	BO		49	35.59	127	16.93			156				
			2209	EN		49	35.69	127	16.84							
4	LJ4	NET	2225	BO	148	49	35.69	127	16.84			150	587-			BONGA.
	LJ3	CTD	2310	BE	149	49	39.12	127	11.09		126					
		CTD	2314	BO		49	39.14	127	11.11			123				
		CTD	2316	EN		49	39.13	127	11.10							
5	LJ2	ROS	0000	BE	150	49	42.70	127	05.20		83					
		ROS	0005	BO		49	42.74	127	05.14			75				
		ROS	0012	EN		49	42.67	127	05.08							
5	LJ2	NET	0025	BE	151	49	42.77	127	05.06							BONGA.
5	LJ1	CTD	0051	BE	152	49	44.30	127	2.43		61					
			0053	BO		49	44.29	127	2.39			59				
			0055	EN		49	44.28	127	2.36							
5	Muckaleet	NET/OPC	1700		153	49	38.89	126	16.10							BIONESS/OPC tow

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