

DAILY LOG

CRUISE
NUMBER

2000-08

INSTITUTE OF OCEAN SCIENCES

OCEAN SCIENCES AND PRODUCTIVITY DIVISION

DATE

4 May to 12 May 2000

VESSEL

J. P. Tully

PROJECT

--

Captain: _____ First Officer: _____

Second Officer: _____ Third Officer: _____

Mission Participants / Agencies: _____

Scientific Personnel: _____ Party Chief: Dave Macdon

Name	Watch	Cabin	Name	Watch	Cabin
<u>Hugh Macdon</u>	<u>5</u>		<u>Peter Sutherland</u>		<u>B</u>
<u>Steve Romaine</u>	<u>F</u>				
<u>Janet Barwell-Clarke</u>	<u>H</u>				
<u>Mike Force</u>					
<u>Doug Jelland</u>	<u>17</u>				
<u>Barbelle Beaudet</u>	<u>C</u>				
<u>Mike Bentley</u>					
<u>Bernard Minkley</u>	<u>E</u>				
<u>Doug Moore</u>	<u>D</u>				
<u>John Dower</u>	<u>G</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: 0443

Primary temperature sensor serial number: 2106 Calibration date: _____

Primary conductivity sensor serial number: 2128 Calibration date: _____

Secondary temperature sensor serial number: 2449 Calibration date: _____

Secondary conductivity sensor serial number: 1763 Calibration date: _____

Other sensors: trans. s/n: 192D

Other sensors: fluorometer Seapoint s/n: 2229

Other sensors: PAR s/n: 4565

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: _____

PAR calibration correct 763358788 multiplying 1.

4 May 2000

Dry gas standards

V₃ 1.001 .007 .003 ✓
.003 ✓
.004 ✓

V₂ .731 .730
.728
.729

9 min

V₆ 1.009 .007 .003 V₂ .718
.005 .004 .718
.011 .003 .720 .714 .717

- MAY 4 (THURSDAY) BIONESS TESTED - Jim Harrington, Ed Haslan ran a test of the new, refurbished Bioness.
- One net was put on for drag testing for towing attitude of Bioness
 - Sample was preserved - phyto bloom. - not quantitative
 - Electronic data was not recorded.
 - Depth range of test tow = 0-5 m. / No motor seals, so did not take unit down to depth (200 m)
 - AGO (Jim, Ed) pleased with tests thus far.

5 May phoned Alan Thompson, IOS Electronics about Serial fog-stick problem. He will contact Serial about options for correcting problem of fog-stick and membrane keypad causing cursor to always move up.

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4	SI	ROS	1602		1	48 35.55	123 30.03		226	213	1-12	12	BM	BIOLOGICAL TESTS TIMED, NO DATA, KEPT SAMPLE - PHYTO BLOOM
5	LB 16	ROS	1511	BE	2	48 0.47	126 17.10		1777				dy	Computer time wrong - 1 hour slow
	LB 16	ROS	1546	BO	2	48 0.24	126 17.23			1794	13-30	18		PAR REMOVED
	LB 16	ROS	1745	EN	2									Bottom bottle fired late
	LB 15	CTD	1845	BE	3	48 4.26	126 8.43		1547	1553			dy	Downcast only recorded
5	LB 14	ROS	1948	BE	4	48 08 54	125 59.74		1157		31-46	16		
			2009	BO						1169				loop sal.
			2053	EN										
	LB 13	CTD	2134	BE	5	48 10.64	125 56.19		924	940		0		
			2225	EN		125 56.19								
5	LB 12	ROS	2306	BE	6	48 12 51	125 51.57		486		47-62	16		
	LB 12	ROS	2318	BO	6	48 12 96	125 51 64			487			BM	
	LB 12	ROS	2348	EN	6	48 12 93	125 51 89							
6	LB 11	CTD	0027	BE	7	48 15 14	125 47.71		205	202			BM	
	LB 11	NET (newton)	0045	BE	8	48 15 14	125 47.71						BM	15min SURFACE TOW

Cast type:

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6	LB 10	ROS	0142	BE	9	48	18.45	125 41 20		150?					PAR REPLACED	
	LB 10	ROS	0147	BO	9	48	18.44	125 41 18			140	63-72	10	H.M.		
	LB 10	ROS	0202	EN	9	48	18.20	125 41 14								
6	LB 9	CTD	0246	BE	10	48	21.92	125 34.69		150	145			dy		
6	LB 8	ROS	0317	BE	11	48	25.20	125 28.62		134						
	LB 8	ROS		BO	11							73-82	10	dy		
	LB 8	ROS	0405	EN	11											
6	B7 (LBO)	CTD	0515	BE	12	48	31.94	125 35.55		80	75					
	B7	NET	0538	BO	13	48	31.90	125 35.80		76	70				Bongo	
6	B8	CTD	0625	BE	14	48	34.52	125 30.15		125	125					
	B8	NET	0645	BO	15	48	34.57	125 30.75		125	121				Bongo	
	B8	NET	0715	BE	16	48	34.57	125 30.75		125	SURF.				Newton	
6	LB 07	CTD	0831	BE	17	48	28.64	125 22.29		152	147					
6	C3	CTD	0934	BE	18	48°	23.90	125 20.79		124	121			H.M.		
	C3	NET	1002	BO	19	48°	23.30	125° 20.75		125	120				BONGO To 120 m	
6	C2	CTD	1112	BE	20	48	25.33	125 07.77		130	122					
	C2	NET	1140	EN	21	48	29.38	124 58.67		110	101			H.M.	BONGO	

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6	C1	ROS		BE	22	48 28 86	125 15 21				83-91	9	H.M	
		ROS		BO	22	48 28 83	125 15 14		151					
		ROS	1250	EN	22	48 29 80	125 14 91			140				
	C1	NET	1323	EN	23	48 28 86	125 15 21		150	140			H.M	BONGO
6	LB06	ROS	1403	BE	24	48 32 07	125 15 59		112		92-99	8	H.M	
		ROS	1406	BO	24	48 32 02	125 15 57			105				
		ROS	1417	EN	24	48 31 94	125 15 63							
	LB01	CTD	1558	BE	27	48 40 44	124 59.73		33	30			H.M	RICKER working on LB4, so switched sequence to LB1 → LB2 → LB4
			1605	EN		48 40.46	124 59.82							
				EN										
	LB02	ROS	1632	BE	28	48 39 03	125 2.57		55	50	108-113	6		
		ROS	1635	BO	28	48 39 05	125 2.70							
		ROS	1640	EN	28	48 39.07	125 2.84							
					26									
	LB04	ROS	1718	BE	29	48 35.76	125 8.85		111		100-107	8		
		ROS	1726	BO	29	48 35.79	125 8.96							
		ROS	1735	EN	29	48 35.80	125 9.14							

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Not sequence change

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6	LC02	ROS	1937	BE	30.	48 48.86	125 31.00		110	105	114-121	8.			
	LC03	CTD	2022	BE	31.	48 46.95	125 34.19		137	130					
	LC04	ROS	2117	BE	32	48 43.56	125 40.77		165		122-132	11.			
	LC05	CTD	2224	BE	33	48 39.90	125 47.56		62	55					
		NET	2240	BOT	34	48 39.9	125 47.5		62	55				BONGO	
6	LC06	ROS	2333	BE	35	48 36 53	125 53 77		90	86	133-140	8	H.M.		
7		NET	0002	BO	36	48 36 53	125 53 77		70	85				BONGO	
7	LC 07	CTD	0102	BE	37	48 32 90	126 00 29		125	117			H.M.		
7	LC 08/A1	ROS	0158	BE	38	48 29 64	126 06 93		197	186	141-152	12	L.M.		
	LC 08/A1	NET	0248	EN	39	48 29 73	126 06 73		191	185					
	LC 08/A1	NET	0252	BE	40	48 29 62	126 06 77							Bongo	
		NET	0307	EN		48 29 13	126 06 33							NEUSTON Tow 15m @ 2 km	
														surface oil slick	

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7	A2	CTD	0352	BE	41	48 22.61	126 3.53		375	373				
	A2	NET	0423	BE	42	48 22.583	126 03.20		400	250				Bongo
	LC9(A3)	ROS	0535	BE	43	48 26.01	126 13.62		600	600				
	LC9(A3)	ROS	0546	BO	43	48 25.95	126 13.70				153-168	16		
	LC9(A3)	ROS	0637	EN		48 25.93	126 13.72							
	LC9(A3)	NET	0638	BO	44	48 25.9	126 13.7		600	250				Bongo
7	LC10	CTD	0724	BE	45	48 22.22	126 20.28		1251	1256		-		PAR removed
7	LC11	ROS	0857	BE	46	48 18.87	126 26.95		1550	1607	169-188	20		
7	LC12	ROS	1117	BE	47	48 15.03	126 40.10		2550	1678	189-208	20		ADJUSTED WIRE ON WINCH
7	LC12	NET	1326	BO	48	48 15.03	126 40.10		2550	250				Bongo UNH
7	LD 11	ROS	1505	BE	49	48 28.80	126 42.74		1592	1560				
	LD 11	ROS		BO	49						209-228	20		
	LD 11	ROS	1619	EN	49	48 29.90	126 41.88							

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7	MPO4	ROS	1738	BE	50	48 39.03	126 40.05		1320				104	
	MPO4	ROS	1757	BO	50	48 39.04	126 40.05			1000	229-246	18		
	MPO4	ROS	1833	EN		48 39.09	126 39.99							
	MPO4	NET	1850	Bo	51	48° 39.00	126° 40.10		1320	150				Bongo to 150m
	MPO4	USW	1900		52	48 39.11	126 39.93							
	—	LOOP	2000		53	48 40.19	126 53.46							
	—	LOOP	2100		54									
	—	Loop	2200		55	48° 42.97'	127° 23.61'							
7.	—	loop	2300		56	48° 44.43'	127° 38.86'							
	MPO6	NET	2325	Bo	57	48° 44.80	127° 40.0		2548	150				BONGO TO 150 m
		NET	2342		58	48° 44.80	127° 40.02							NORPAC — " —
		NET	2354		59	48 44.79	127 40.08							SCOR — " —
8		NET	0005		60	48 44.77	127 40.11							SCOR — " —
		NET	0016		61	48 44.75	127 40.14							NORPAC — " —
		NET	0025		62	48 44.74	127 40.19							BONGO — " —
8	MPO6	ROS	0056		63	48 44.52	127 40.07		↓	1000	247-264	18		
8	—	LOOP	0000		64	48° 44.76	127° 40.11							
8	—	LOOP	0300		65	48° 45.40	127° 54.25							Sample #283
8	—	Loop	0400		66	48 46.97	128° 09.51							Sample #284

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8		LOOP	0500		67	48 48.02	128 25.23							
8	MP08	ROS	0552	BE	68	48 49.14	128 39.76		2520					
8	MP08	ROS	0620	BO	69	48 49.14	128 39.86			1000	265-282	18.		PAR REMOVED POST-CAST
8	MP08	ROS	0704	EN	68	48 49.10	128 40.42							
	MP08	NET	0732	BO	69	48 49.12	128 40.83		2520	250				BONGO
8	LBP8	CTD	1357	BE	70	49 48.70	128 15 86		2095					
8	LBP7	ROS	1534	BE	71	49 52.42	128 11.27		2185					
	LBP7	ROS	1550	BO	71	49 52.51	128 11.22			1500	283-302	20		
	LBP7	ROS	1649	EN	71	49 52.73	128 11.14							
	LBP7	NET	1715	BO	72	49 52.37	128 11.14		2185	250				Bongo
8	LBP6	ROS	1806	BE	73	49 56.32	128 5.47		750					
	LBP6	ROS	1820	BO	73	49 56.59	128 5.38				303-319			
	LBP6	ROS	1846	EN	73	49 56.90	128 5.60							
8	LBP5	CTD	1929	BE	74	50 0.07	128 0.01		1293	1296				Rosette hit bottom
		NET	2038	BO	75	49 59.98	127 59.92		1290	250				BONGO

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Cont 85. Check data file for proper start of down cast. CTD lowered past 15 db & gel pump started.

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8	LBP4	ROS	2105	BE	76	50 01.26	127° 58.32		1150		320-338	19	DFM	
		ROS	2125	BO						1111				
		ROS	2206	EN										
8	LBP3	CTD	2253	BE	77	50 3.29	127 55.51		160	154			JD	PAR on.
		NET	2323	BO	78	50 03.13	127° 55.30		162	155				BONGO
8	LBP2	ROS	2344	BE	79	50 03 95	127 54 31		103		339-346		MM	
		ROS	2346	BO	79	50 03 98	127 54 31			90		8		
		ROS	2358	EN	79	50 04 02	127 54 34							
9	LBP2	NET	0020	BO	80	50 03.88	127 54.17		97	90				BONGO
9	CPE2	CTD	0535	BE	81	50 42.99	128 40.01		124	121				
	CPE2	NET	0550	BO	82	50 42.93	128 39.99		126	120				Bongo
	CPE2	NET	0603	BO	83	50 42.87	128 40.22		126	50				Bongo
	CPE2	NET	0615	BE	84	50 42.947	128 40.28		126	0.01				Newston
	CPE2	NET	0625	EN		50 43.039	128 39.956		126					"
9	CS10	CTD	1018		85	51°16.61	128 20.11		84	78				profilom with pump
	CS10	NET	1041	BO	86	51°16.57	128° 20.00		84	75				BONGO

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9	CS09	ROS	1136	BE	87	51 12 58	128 28 04		197		347-358	12	H.M.	
	↑	ROS	1141	BO		51 12 62	128 28 03			190				
	↓	ROS	1159	EN		51 12 72	128 28 04							
		NET	1200	BE	88	51 12.73	128 27.92		198	50				Bongo 0-50
9	CS09	NET	1234	EN	89	51 12 73	123 27 92		198	190				Bongo 0-190
9	CS08	CTD	1322	BE	90	51 08 47	128 36 08		145	128			H.M.	
		NET	1341	BO	91	51 08.50	128 36.12		143	50				Bongo 0-50
		NET	1353	BO	92	51 08 57	128 36 160		143	135				Bongo 0-135
	CS07	ROS	1446	BE	93	51 04.44	128 44 25		66				H.M.	
		ROS	1447	BO		51 04 50	128 44 28			55	359-365	7.		
		ROS	1457	EN		51 4.46	128 44.55							
	CS07	NET	1510	BO	94	51 4.47	128 44.06		67	65				Bongo
	CS06	CTD	1607		95	51 0.0	128 52.24		65	64				
	CS06	NET	1623	BO	96	51 0.0	128 52.14		65	59				Bongo
9	CS13	ROS	1743	BE	97	50 53.01	128 40.02		71					
	↑	ROS		BO						65	366-372	7.		
	↓	ROS	1752	EN		50 53.01	128 40.03							

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9	CS1B	NET	1800	BO	98	50°53.00'	128°40.0'		72	69				Bongo
9	CS5 (CS20)	ROS	1952	BE	99	50 56.14	129 0.14		62	55	373-379	7.		
		ROS		BO	99									
		ROS		EN	99									
		NET	2015	BO	100	50°56.14'	129°00.14'		63	60				BONGO
9	CS4	CTD	2146	BE	101	50 49.74	129 13.03		95					
		CTD	2149	BO		50 49.89	129 13.08			87				
		CTD	2151	EN		50 49.98	129 13.11							
		NET	2209	BO	102	50 49.30	129 13.12		95	47				BONGO
		NET	2215	BO	103	50 53.65	129 09.51		95	90				BONGO
9	CS3	ROS	2315	BE	104	50 45.65	129 19 91		220		380-391			
		ROS	2320	BO	↓	50 45 76	129 19 91			220				
		ROS	2338	EN	✓	50 45 90	129 19 72							
		NET	2352	BO	105	50 45.90	129 19.72			50				BONGO 0-50
		NET	0005	BO	106	50 45.90	129 19.72			200				BONGO 0-200

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10	CS 2	ROS	0104	BE	107	50 39 89	129 17 62		1400					
	JF 22	ROS	0112	BO	107	50 40 00	129 17 61			500	392-406	15		
10		ROS	0139	EN	108	50 40 24	129 17 62							
	JF 22	NET	0157	BE	108	50 40 00	129 17 61			50				BONGO 0-50
10	JF 22	NET	0208	BE	109	50 40 00	129 17 61			250				BONGO 0-250
10	CS 2	CTD	0305	BE	110	50 41.39	129 27.87			500				
	CS 2	NET	0327	BE	111	50 41.35	129 27.92			50				Bongo 0-50
	CS 2	NET	0336	BE	112	50 41.32	129 27.87			250				Bongo 0-250
	CS 1	ROS	0508	BE	113	50 34.91	129 41.47							
	CS 1	ROS	0518	BO	113	50 34.97	129 41.51			500	407-421	15		
	CS 1	ROS	0536	EN	113	50 35.10	129 41.62							
	CS 1	NET	0546	BO	114	50 35.13	129 41.64			50				0-50 Bongo
	CS 1	NET	0605	BO	115	50 35.16	129 41.68			250				0-250 Bongo
	CS 1	NET	0617	BE	116	50 35.17	129 41.47			.01				Newton
10	ODAS	CTD	0847	BE	117	50 52.36	129 55.97		~2000	500.				
		NET	0920	BO	118	50 52.52	129 56.32			50				BONGO

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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
10	ODAS	NET	0938	BO	119	50 53 53	129 56.57		~2000	250				BONGO
10	CS3B	ROS	1157	BE	120	51 00 09	129 26 94		220		422-433	12		
		ROS	1202	BO		51 00 13	129 26 98			210				
		ROS	1219	EN		51 00 22	129 27 14							
	CS3B	NET	1239	BO	121	51 00 22	129 27 14		222	50				Bongo 50-0
	CS3B	NET	1255	BO	122	51 00 22	129 27 14		222	215				Bongo 215-0
	LQ03	CTD	1533		123	50 39.82	129 2.04		1200?					Densest layer ~60m depth (100 kg m ⁻³), wire angle ~100° indicates this layer is intruding from NNEW #5 ~32.4 psu ± 8°
	LQ03	NET	1610	BO	124	50 39.95	129 2.52			50				Bongo 0-50
	LQ03	NET	1625	BO	125	50 39.93	129 2.61			250				Bongo 0-250
10	TEST	BIOSONICS	1930		—	~50 25.00	~128° 40.00			3.0				TEST OF BIOSONICS SNAKE/FISH
11	LJ4	ROS	0200	BE	126	49 35 62	127 17 20		157		43f. 443	10		
		ROS	0204	BO		49 35 65	127 17 28							
		ROS	0216	EN		49 35 78	127 17 47							
	LJ4	NET	0234	BO	127	49 35 78	127 17 47		152	145				BONGO

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11	LJ06	ROS	0359	BE	128	49 28.03	127 28.68		1000					
				BO						950	444-461	18	DY.	chl
			0440	EN		49 28.25	127 29.63							3 loops also (for Benth)
11	LJ06	NET	0445	BO	129	49° 28.28	127 29.36			250				Bongo
11	LJ08	ROS	0637	BE	130	49 20.12	127 40.88		1750					
		ROS		BO	130	49 20.17	127 40.91			1000	462-479	18	B.M.	
		ROS		EN										
		NET	0800	BO	131	49° 20.08	127° 41.15			250				Bongo
11	L909	ROS	1132	BE	132	48 51 29	127 19 21		2100		480-497	18		MISNAMED in
				BO										computer (LG07)
				EN		48 51 16	127 19 24							
		NET	1207	BO	133	48 51 16	127 19 24			250				BONGO
11	LG07	ROS	1434	BE	134	48 59 48	127 07 09		1160		498-515	18		
			1452	BO		48 59 54	127 07 19							
			1529	EN		48 59.44	127 7.26							
		NET	1600	BO	135	48° 59.41	127° 07.28			250				BONGO
11	LG05	CTD	1719		136	49 7.36	126 55.25		275	265				

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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	
11	LG04	ROS	1821	BE	137	49 11.36	126 49.49		145						
	LG04	ROS	1825	BO	137	49 11.35	126 49.52			135	516-524	9			
	LG04	ROS	1834	EN		49 11.32	126 49.58								
	LG04	NET	1847	BO	138	49 11.30	126 49.50			140				BONGO	
11	LG03	ROS	1948	BE	139	49 15.21	126 44.01 49 15.21		111	100	525-532	8	JD		
			1950	BO	139	49 15.25	126 44.08								
			2002	EN		49 15.36	126 44.36								
11		NET	2023	BO	140	49 15.04	126 43.77		120	115				BONGO	
11	LG02	CTD	2113	BE	141	49 18.79	126 38.21		97	90			DFM		
12	LD08	ROS	0140	BE	142	48 39.19	126 23 40		784		533-549	17	U.M.		
			0151	BO		48 39 25	126 23 46								
			0222	EN		48 39 23	126 23 55								
12	LD06	ROS	0346	BE	143	48 46.30	126 10.11		138					Temp spike on downcast	
				BO	143					128	550-558				
			0359	EN	143	48 46.32	126 10.01								

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Mooring Recovery CTC11-B

- sent rel code BCGH 0700 (May 1200 PDT)
- on surface

OUT OF WATER @ 0715

MOORING CTC 3

- SENT CODE ABCH @ 0820

OUT OF WATER @ 0845

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[illegible]

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