

CRUISE
NUMBER

9810

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

May 11-25 / 98

VESSEL

J. P. Jolly

PROJECT

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1998			MONTH 05		SHIP J.P. Tully			CRUISE 9810					PAGE 1 OF	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC # EVENT	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE # EVENT #	# OF BOTTLES	INIT	COMMENTS
13	P10	NEUS			1									Neuston
13	P10	VNH			2									Bongo - Oblique
13	P10	VNH	1043		3				2600+					Bongo to 150 0-1355 flow
	P10	VNH			4						4			small ring
13	P10	ROS	1129	BE	5	48 53.49	129 40.29		2684		5-13	9		
			1144	Bo	5	48 53.49	129 40.49			1000,				
			1215	EN										
13	P09	ROS	1432	BE	6	48 51.56	129 09.69		2416		14-17	4		
			1450	Bo	6	48 51.51	129 09.39							
			1510	EN		48 52.07	129 08.76							
13	P09	VNH			7	48 51.47	129 9.64							Bongo
		VNA			8	48 51.43	129 9.7							Norpac
		VNA			9	48 51.35	129 9.5							SCOR
		VNA			10	48 51.4	129 9.52							SCOR
		VNH			11	48 51.38	129 9.68							Norpac
		VNH	1700		12	48 51.37	129 09.61							Bongo - done @ 10am local
13	P08	ROS	1900		13	48 48.93	128 40.25				18-20			CTD/ROS (see notes over)
13	P08	VNH			14									Bongo

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW - sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		May		Tully		9810		2						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
13	P07	ROS	2223	BE	15	48 46.41	128 10.39				21-24			
			2242	BO		48 46.18	128 10.91		2545	1000		4		
	P07	ROS	2312	EN										
14	MP06	VNH	0156		16	48 44.81	127 40.07		2577					
		ROS	0156	BE	17	48 44.81	127 40.07		2577	1000	25-31	2		air pressure had stopped
			02:15	BO		48 44.69	127 39.99							500 m.
14	P05	CTD	04:10	CTD	18	48 41.82	127 20.24		2544	1000				Water from 5m collected bdm for plankton 20450 UTC
14	P04	ROS	0757	BE	19	48 38.72	126 40.18		1340	1000	32-34			
14	P04	VNH	0855	BE	20	48 38.79	126 39.91		1347	150				Bongo to 150m
14	C1	ROS	1453	BE	21	48 28.65	125 15.73		154	144	35-52	18		Pos. Incubation UBC
	C1	ROS		BO		48 28.61	125 15.90							
	C1	VNH		BE	22	48 28.73	125 15.470		152m					
			1544	BO		48 28.68	125 15.56		154					
			1550	EN		48 28.63	125 15.700		154					Leave STN 1550
14	C2	ROS	1654	BE	23	48 25.29	125 08.11		154		53-60			Oxy, Sal, Nuts
		VNH	1744	BO	24	48 25.4	125 07.8		130					bott. #5,6,8, bottom drain open
14	C3	ROS	1913		25	48 23.52	125 21.38		124		61-68			O ₂ , sal, nuts.
		VNH	1956		26				124	120m				

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
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NET -
DRF -rosette
net haul
dritter

USW -

sea water loop

TIME CODE -

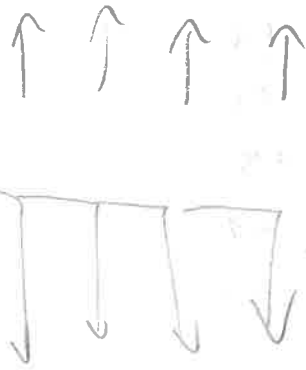
BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
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LOR -RADAR
GLOBAL
LORAN

H_0

1
2
3
4



1. con

2. con

3. con

4. con

*

CTD/Rosette Notes

#1 - on deck (no data)

#s 5, 6, 13 - use con file #14 to convert NOT the
con file with the corresponding #

#14 - on deck (no data)

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		May				9810								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
14	B7	ROS	2137		27	48 32.0	125 35.83		80	75	69-74			Fluor pumped @ 100k
"		VNH			28									Bongo
"	B8	ROS	2257	BE	29	48 34.24	125 30.03		136		75-82			
"	"	ROS	2309	EN		48° 34.12	125° 30.13							
	B8	VNH			30					125				BONGO 0-125m
15	LC01	ROS	0158		31	48 50.40	125 28.02		96	89	83-94	12		
	LC01	NEU			32									
	LC02	ROS	0324	BE	33	48 48 55	125 30 98		110m		95-101			Rosette
15	LC03		0408	BE	34	48 46 97	125 34 16		135					CTD only
			0411	BO		48 46 98	125 34 15		120					run to LC9 - Broness
15	LC93 LC8	BION	0822	BE	35⇒	35A2 Bongo 35B5=09,09.5 C	48 26 120 13.41	APORTED						Date & Time wrong in file 20m
15	LC04	NEU			36									
15	LC04	Bongo			37									
15	LC04	Ring Net			38									
15	LC04	ROS	1453	BE	39	48 43 44	125 40 67		164	160	102-124			Set 2 surf. 15min. - dry cell
			1507											
	LC5	VNH			40	48 39.81	125 47.48		90	58				

CAST TYPE -	BOT -	bottle cast	ROS -	rosette	LISW -	sea water loop	TIME CODE -	BE	bottom	EN	end	BO	bottom
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Thurs May 14 98

2130 - Finished LC02 + LC03. Decided to run to LC9 + Tow Bioss
to LC7. Be at LC4 for incubations @ 0600

DAILY LOG

OCEAN PHYSICS

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98		May		Tully		9810								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
15	LC5	CTD	1654	BE	41	48 39 92	125 47 32		62m			/		
			1656	BO		48 39 93	125 47 31			52				
			1700	EN										
	LC6	BGO	1756	down	42	48 36 400	125 54 28		91m					
			1803	UP		48 36 420	125 54 090		90m					Bongo 45° wire angle
				END		48 36 580	125 54 80							
	LC6	CTD	1820	BE	43	48 36 80	125 54 13		93m					CTD only 82m
			1825	EU						82.3				
	LC7	ROS	1956	BE	44	48 33.10	126 00.30		127	122	125-132			
	LC8	ROS	2117	BE	45	48 29.49	126 07.19		200	195	133-143	11		
15	LC8	BGO		BE	46				203					Bongo to ~200m
15	LC09	BGO		BE	47				616		144-160			Bongo to 250m
		ROS	2332		48	48 25.77	126 13.65				144-160	17		
	LC10	ROS	0115		49	48 22.35	126 20.31		1265					
	LC11	ROS	0244	BE	50	48 18.79	126 26.44		1441		161-178	18		
			0302	BO		48 18 63	126 26 61			1001				802 pm local
				EN										

CAST TYPE -

BOT - bottle cast
CTD - ctd
MOR - mooringROS - rosette
NET - net haul
DRF - drifter

USW - sea water loop

TIME CODE -

BE - beginning time of cast
BO - bottom time of cast
EN - end of castDE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE -

RAD - GPS
LOR - RADAR
GLOBAL
LORAN

PAR- 4.894
4.692
5.842
4.613
4.498

(1.850e+00) 3.228
2.719
2.836
2.943
2.410
2.240
2.070

LI Cor - 0.0
0.03
18.48
24.99
25.94
28.3
29.24
30.97
31.40
31.930
28.74
26.12
23.95
22.10
20.53
19.16
17.96

Par

1.85
6.27 e+00
9.35
8.19
8.34
8.611
8.587
8.314 e+00
8.420
9.007

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98		May		Tully		9810								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
16	LC10	BGO	0448	BO	51	48 22.510	126 20.200		1260	50m				Bongo 50m-0m 15°
16	LC9	BGO	0552	BO	52	48 25.920	126 13.510		596	50m				Bongo ²²⁸⁰² 50m-0m 10°
16	LC8.5	BGO	0624	BO	53	48 27.700	126 10.380		454	50m				Bongo ²³³¹³ 50m-0m 20°
16	LC8	BGO	0700	BO	54	48 29.490	126 07.050		200	50m				Bongo 50-0 5°
16	LC7.5	BGO	0745	BO	55	48 31.33	126 03.80		166	50				Bongo 50-0
16	LC7	BGO	?	BO	56	48 32.95	126 00.5		129	50				Bongo 50-0
16	LC6.5	BGO	0900	BO	57	48 34.7	125 57.75		100	50				Bongo 50-0
16	LC6				58									
16	LC09	NEU			59									
16	LC09	Bongo			60									
16	LC09	Rings			61									
16	LC09	ROS	1313		62	48 25.76	126 13.22		591.	10.				water for Rube
		ROS	1341		63	48 25.88	126 13.79		613.		179-201	23		
16	LB16	ROS	1710	BE	64	48°00.51	126°17.02		1803		202-223			Rosette -1000m
16	LB16			BO	64	48°00.510	126°17.190			1030				Cast down 1000 - 1030 Cast down 400 - 430
16	LB16		1810	EN	64	48°00.860	126°16.090							
16	LC12	ROS	2052	BE	65	48 14.88	126 39.59		2565	1000	224-246			PAR value using 25% calibration -needs retraining
16	LC17	BGO	2203	BE	66	48 15.54	126 39.74			surface				

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sea water loop

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YEAR			MONTH			SHIP				CRUISE				PAGE	OF
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
16	LC12	BGO	2223		67	48 15.61	126 39.94			150	/			intercomparison cast VNH	
"	"	NP	2242		68	48 15.70	126 40.29			150				Norpac net	
"	"	SK	2255		69					150				SCOR net	
"	"	SCOR	2310		70					150				"	
"	"	NP	2325		71					150				Norpac net	
"	"	BGO	2338		72	48 15.55	126 40.8			150				Bongo	
17	"	NEUS	0000		73					surf.				Neuston surface tow	
17	CS1	ROS	2215		74	50 34.79	129 41.36		2128	500	247-266	20			
17	"	BGO	2255		75	50 35.54	129 41.40		2104					0-250 bongo VNH	
18	CS2	ROS	0026	BE	76	50 41.36	129 28.08		1925	500	/				
18	CS2	BGO	0100	BOT	77	50 41.2	129 27.9							0-250 bongo	
18	CS3	ROS	0159		78	50 45.51	129 20.46		260		267-278	12			
	CS3	Bongo			79										
18	CS4	CTD	0327		80	50 49.14	129 13.38		106	96	—				
18	CS4	Bongo			81	50 49.19	129 13.35		107						
18	CS10	ROS	0838	BE	82	51 16.41	128 19.87		80	75	—	5		5 bottles @ 5 m for Tara Rubin	
18	CS10	BGO	0850	BE	83	51 16.36	128 19.67		79					Bongo	
18	CS9	ROS	0956	BE	84	51 12.59	128 28.09		195	190	279-289	11			

CAST TYPE -

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bottle cast

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ctd

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rosette

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net haul

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YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		May		Tully		9810								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
18	CS9	BGO	1015		85	51 13.0	128 28.5							Bongo
	CS8	CTD	1131		86	51 08.62	128 36.08		146					
		BGO			87									
18	CS7	ROS	1248		88	51 04.62	128 44.13		66	52.	290-295	6.		
	CS7	NET			89									Bongo to 60.
18	CS6	CTD	1412		90	50 59.92	128 52.21		66.					
18	CS6	NET			91									Bongo to 65.
	CS5	CTD	1519		92	50 56 00	128 59 87		64		296-301	6.		
18	CS5	VNH	1536		93	50 55 93	129 00 13							
18	CS1B	CTD	1714		94	50 52 92	128 39 52		72					CTD/BONGO
18	CS1B	VNH	1737		95	50 53 12	128 40 32		74					CTD/BONGO
18	CS3B				96						302			
18	CS1B	ACO			97	50° 54.51	128° 50.42							Acoustics Noise ^{noise = 95} SNP
18	CS1B	Aco			98	50° 54.65	128° 51.14							Acoustics SRV
18	CS3B	ROS	2058	BE	99	51.00.00	129 27.30				302-317	12		
19	Nomad	Ros	0002		100	50 51.49	129 55.16		2148		314-333	20		
19	J122	CTD	0352		102	50 39 85	129 17 60		1554					CTD ^{#101 not used - small file} #102 - actual CTD cast
19	J122	VNH	0430		103	50 39 77	129 17 78		1554					Bongo 250-0 10°

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$$\left. \begin{array}{l} 1^{\circ}\text{T} + 1^{\circ}\text{C} \\ 2^{\circ}\text{T} + 2^{\circ}\text{C} \end{array} \right\} = \text{difference} \approx .025$$

$$\left. \begin{array}{l} 1^{\circ}\text{T} + 2^{\circ}\text{C} \\ 2^{\circ}\text{T} + 2^{\circ}\text{C} \end{array} \right\} = \text{difference} \approx .001$$

$$\left. \begin{array}{l} 1^{\circ}\text{T} + 1^{\circ}\text{C} \\ 1^{\circ}\text{T} + 2^{\circ}\text{C} \end{array} \right\} = \text{difference} \approx .025$$

$$\left. \begin{array}{l} 1^{\circ}\text{T} + 1^{\circ}\text{C} \\ 2^{\circ}\text{T} + 1^{\circ}\text{C} \end{array} \right\} = \text{difference} \approx .001$$

$$\left. \begin{array}{l} 2^{\circ}\text{T} + 1^{\circ}\text{C} \\ 2^{\circ}\text{T} + 2^{\circ}\text{C} \end{array} \right\} = \text{difference} \approx .025$$

∴ Conductivity (one or the other) is out.

DAILY LOG

OCEAN PHYSICS

51651

INSTITUTE OF OCEAN SCIENCES

YEAR		98		MONTH		May		SHIP		Tully		CRUISE		9810		PAGE		OF	
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS					
19	J122	BGO	0451		104	50 39.70	129 17.64		1555	50m				Bongo 50-0/Done 10pm					
19	LQ03	CTD	0630		105	50 39.75	129 01.87		1196	500				CTD only on deck 0653 UTC					
19	LQ03	VNH	0659		106	50 39.84	129 02.00		1196	50m				250m-0m					
19	LQ3	VNH	07		107	50 39.750	129 02.46		1196	250				250m-0m done 20714/0016 UTC local					
19	LBP7	NEU	1300		108	49 52.4	128 11.2		2182	0m				Surface Newton tow					
19	LBP7	BGO	0640		109	49 52.4	128 11.2		2182					vertical Bongo					
19	LBP7	BGO			110	49 52.4	128 11.2		2182	50m				oblique Bongo					
19	LBP7	RING			111	49 52.4	128 11.2			50m				Small mesh Ring net					
19	LBP7	ROS	1433	✓	112	49 52.43	128 11.15					5							
19	LBP7	ROS	1451	✓	113	49 52.50	128 11.04		2233	1000	334-357	24		CTD Rosette					
19	LBP8	ROS	1700	✓	114	49 48.62	128 17.00		2100	1000	358-374	17		CTD Rosette					
19	LBP8	ACO	1724		115	49 51.42	128 14.10							Acoustics SRV					
19	LBP6	ROS	1921	✓	116	49 56.22	128 5.27		713	700	375-389			CTD/R - large wind angles					
19	LBP5	ROS	2045	✓	117	50 0.01	128 0.70		1306	1000	390-407			CTD/R					
19	LBP5	BGO	2140		118									Bongo to 250m					
19	LBP4	ROS	2223		119	50 1.51	127 58.22				408-421								
19	LBP4	ACO			120	50 02.40	127 57.03							Acoustics sav.					
19	LBP3	ROS	2357		121	50 03.36	127 55.37		159										

CAST TYPE -	BOT - CTD - MOR -	bottle cast ctd mooring	ROS - NET - DRF -	rosette net haul drifter	USW -	sea water loop	TIME CODE -	BE - BO - EN -	beginning time of cast bottom time of cast end of cast	DE - MR - RE -	deployment time messenger release recover mooring	POSITION CODE -	RAD - GPS - LOR -	RADAR GLOBAL LORAN
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20	LBP3	NET			122									Bongo
20	LBP2	ROS	0109		123	50 04.08	127 54.05		96		422-428	7		
	LBP2	NET			124						—			Bongo to 95
	LBP1	ROS	055		125	50 04.79	127 52.80		5K		—			
20	LBP3	BIO	0520		126									BIONESS 0-50 etc
20	~LBP5	BIO	0745		127									continue to-yo
20	LBP2	NEU	1100		128	50 04	127 54.2							Neuston tow
		Bongo	1130		129									Oblique Bongo, up & down 2X
		Ringnet	1200		130									Small Ringnet 100µm
20	LBP2	ROS	1437		131	50 04.07	127 54.26		99		429-451	23		
20	LBP2	ACO	1615		132									Acoustics snv
20	LBP1	ROS	1907		133	49 44.80	128 22.07		2237		452-469	18		
	LBP9	Bongo			134									
20	LBP6	MOONNET	2305		135	49 55.920	128 05.190							MOONNET intercal
21	LBP6	BIO	0145		136	49 56.17	128 05.50							BIONESS recovered ~1900
21	LBP6	BIO	0500		137	49 56.10	128 05.52							BIONESS - aborted
21	LBP6	BIO			138	49 55.08	128 07.21							BIONESS check time
		NET			139									BIONESS " "

CAST TYPE -

BOT -

bottle cast

CTD -

ctd

MOR -

mooring

ROS -

rosette

NET -

net haul

DRF -

drifter

USW -

sea water loop

TIME CODE -

BE -

beginning time of cast

BO -

bottom time of cast

EN -

end of cast

DE -

deployment time

MR -

messenger release

RE -

recover mooring

POSITION CODE -

RAD -

RADAR

GPS -

GLOBAL

LOR -

LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1998		May				98-10								
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
21	LJ09	CTD	1347	✓	140	49 16.01	127 47.36		2518					
21	LJ08	ROS	1408	✓	141	49 20.08	127 40.98		1728	1007	470-488			Rosette
21	LJ08	NET			142									Bongo 250-0
21	LJ07	CTD	1710	✓	143	49 24.03	127 34.64		1820					bad header file
21	LJ06	ROS	1855	✓	144	49 27.77	127 28.66		1070		487-500	14.		Rosette / Monitoring STN
21	LJ06	NET			145	48 27.9	127 28.73		1065	250				
21	LJ05	ROS	2106		146	49 31.51	127 22.26		1070	1000				only 4 @ 5m
21	LJ4	ROS	2224		147	49 35.43	127 16.78		165	150	501-509	9.		
21	LJ4	NET	2258		148	49 35.3	127 16.1		158	155				
21	LJ03	ROS	2335		149	49 39.05	127 10.99		124					
22	LJ02	ROS	0045		150	49 42.67	127 05.30		82		510-515	6.		
22	LJ02	NET			151									Bongo &
	LJ01	ROS	0144		152	49 44.35	127 02.46		60			5		water for Rubeen
22	LG03	NEU	1100		153	49 15.0	126 43.7		112					Neuston tow
22	LG03	NEU			154									Neuston
22	LG03	BGO			155									oblique Bongo
22	LG03	NEU			156				122					Neuston tow - Sudan
22	LG03	ROS	1318	✓	157	49 14.94	126 43.81		121		516-534	19.		

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW -

sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1998			MAY			Tully			9810						
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
22	LG03	NET			158									Bongo	
	LG01	ROS	1529	✓	159	49 20.54	126 35.05				535-540	6			
22	LG02	ROS	1611	✓	160	49 18 61	126 38 36		102		541-547	7			
22	LG04	ROS	1738	✓	161	49 11 31	126 49 63		146		548-556	9		Rosette	
22	LG04	Bongo			162	11 34	49 74		145		bott 11.36 49.85	✓		1105 surf 1114 bott 145m Dred 120	
22	LG05	CTD	1912	✓	163	49 07.31	126 55.23		285	280	—			CTD only - check loc for str mooring	
22	LG06	ROS	2012	✓	164	49 03.19	127 00.92		941	850	557-569			Rosette	
22	LG06	BGO			165	49 35	127 01.2		285	850				250 m Bongo	
22	LG07	ROS	2226	✓	166	48 59.33	127 7.17		1776	1000	570-583	14			
22	LG07	NET			167	48 59.34	127 6.85		2010	250	—			Bongo	
23	LG08	ROS	0038	✓	168	48 55.26	127 13.11		2088		—			date error at 320 db.	
23	LG09	ROS	0213	✓	169	48 51.17	127 19.35		2081	1000	584-606	23			
23	LG09	BGO	0305		170	48 50.61	127 19.80		2096	250-0	—			Bongo VNA done 0327	
23	LG4	BIO	0632		171	49 11.29	126 49.69			0-50	—			Tow-yo	
23	LG5	BIO	0852		172	49 8.09	126 54.24			0-50	—			2° Tow-yo	
23	LG6	BIO	1108		173	49 04.44	126 59.72			0-50	—			3° Tow-yo	
23		net			174						—			Bongo	
		net			175						—				

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
NET -
DRF -rosette
net haul
drifter

USW - sea water loop

TIME CODE -

BE -
BO -
EN -beginning time of cast
bottom time of cast
end of castDE -
MR -
RE -deployment time
messenger release
recover mooring

POSITION CODE -

RAD -
GPS -
LOR -RADAR
GLOBAL
LORAN

23 May

Seawater sampling pump motor overheated. System shut down for one hour.

Changed 12 kHz pinger - low battery voltage suspected as signal weak

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
98		MAY		TOLLIX		9810		ONE		MANY				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDRO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
	LG07	net			176									
		ROS	1410	✓	177	48 59.35	127 07.29		1179.	103.	607-627	21		
23	LH09	ROS	1619	✓	178	49 05.52	127 28.74		2076	1000	628-645	18		
23	LH09	VNH	1720		179	49 04.86	127 29.01		2056	276215°	2 17:28 (10:28)			Bongo VNH
23	LH8	CTD	1824	✓	180	49 09.70	127 22.50		1938	1000				CTD ONLY
23	LH7	ROS	2000	✓	181	49 13.68	127 16.16			1000	646-663	18.		ROS.
23	LH7	Bongo	2110		182	49 13.7	127 16.2			250				VNH
23	LH6	CTD	2212	✓	183	49 17.45	127 10.31		480					CTD only
24	LG06	CTD	0059		184	49 03.46	127 01.14		953					
24	LG06	MOCNESS	0158		185	49 03.312	127 01.624		953					MOCNESS tow
24	LG07	Bioness	0517		186	48 59.44	127 07.23		1774	0-50				Bioness Towing
24	LG7	CTD	0906		187	48 59.48	127 7.29		1776	250				CTD only
24	LH05	ROS	1158	✓	188	49 21.27	127 04.76		158		664-671	8		heavy rain, large swell.
	LH04	CTD	1319		189	49 24.88	126 58.69		135					
	LH03	ROS	1435	✓	190	49 28.62	126 52.90		100.		672-678	7.		
	LH02	CTD	1530	✓	191	49 32.27	126 31.34		56		679-683	5.		CTD only

CAST TYPE - BOT - bottle cast
CTD - ctd
MOR - mooring

ROS - rosette
NET - net haul
DRF - drifter

USW - sea water loop

TIME CODE - BE - beginning time of cast
BO - bottom time of cast
EN - end of cast

DE - deployment time
MR - messenger release
RE - recover mooring

POSITION CODE - RAD - RADAR
GPS - GLOBAL
LOR - LORAN