

CRUISE
NUMBER

9737

DAILY LOG
INSTITUTE OF OCEAN SCIENCES
OCEAN PHYSICS

DATE

OCT 20/97 -

VESSEL

J.P. TULLY

PROJECT

--

Plankton Productivity Sequential Event Number

To track sampling events, a sequential 4 character number is assigned to each and every event that occurs during a research mission. An event includes any of the following:

- CTD or CTD/Rosette cast
- Net tows (Bongo, BIONESS, etc.) and bucket samples
- Drifter deployment or recovery
- Mooring deployment or recovery
- Acoustic sampling

or in other words, any equipment that goes into the water is assigned a sequential event number.

Why?

Most, but not all events have an associated CTD cast number and therefore tracking these non-CTD associated events has been difficult. This new event number system will track all events and assign a permanent number to each sample.

Where will it be used?

- The zooplankton database now uses a event number to track samples.
- The new bottle database will also use event numbers (Spring '98).
- Samples are tracked in the database 'key' as follows:

9	7	3	7	0	0	1	0	1	A
Cruise #				Event #				Net or Repl	
								Bottle #	

Where is the event number recorded?

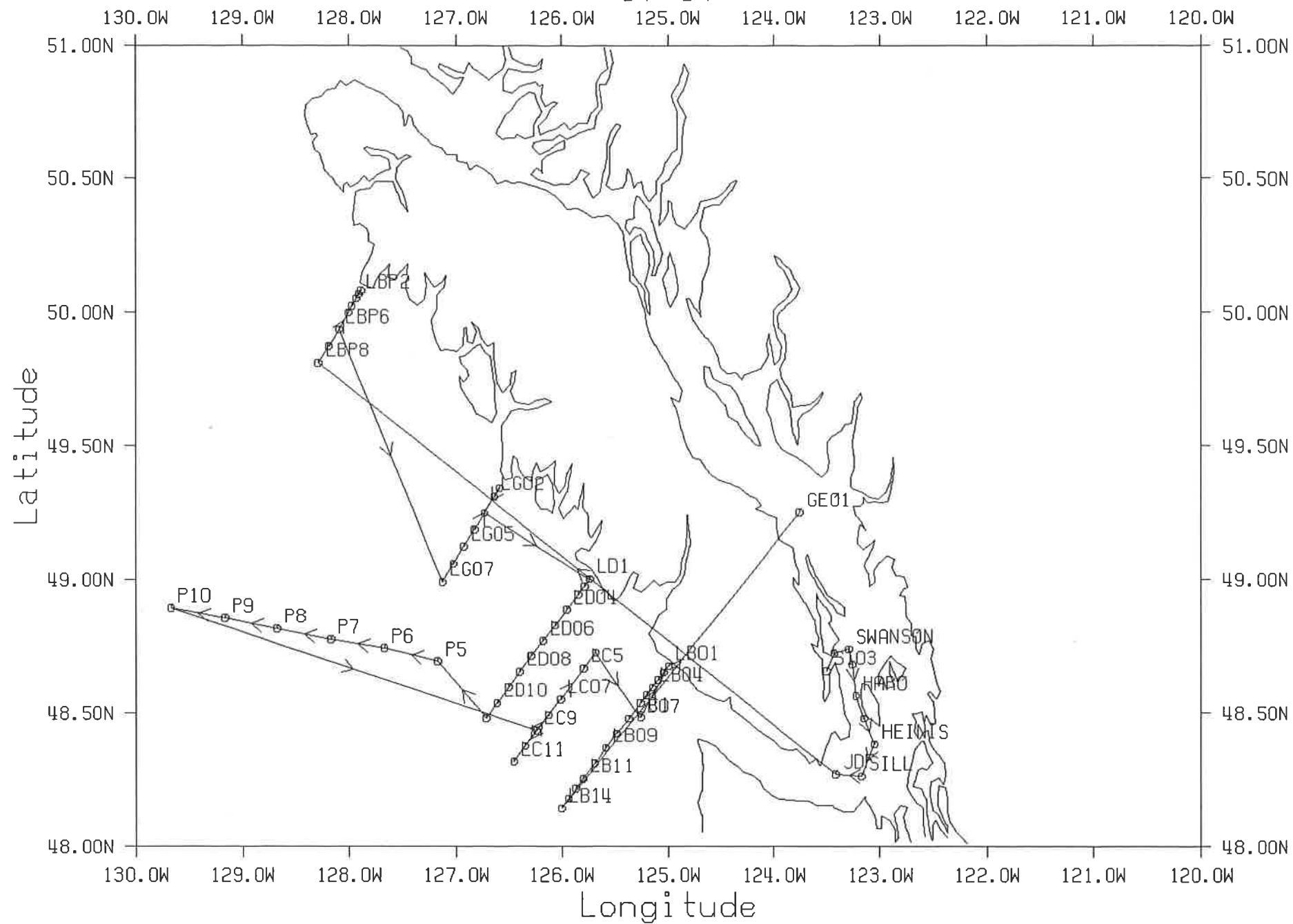
- In the cruise log book
- On the zooplankton sample labels and log sheets

An example at a station

- | | | |
|----|--|-------------------|
| 1. | CTD cast with rosette | Event number 0041 |
| 2. | Second CTD cast (to collect additional bottle samples) | Event number 0042 |
| 3. | Bongo cast to 50m | Event number 0043 |
| 4. | Bongo cast to 250m | Event number 0044 |

PLOTTED: 6/APR/1999 15:26:19

97-37



Captain: Tom Hull First Officer: Jim Somerville
Second Officer: Shane Lorelance Third Officer: Richard Marriott
Cruise Participants / Agencies: IOS/UBC
Scientific Personnel: Party Chief: Doug Yelland

Name	Watch	Cabin	Name	Watch	Cabin
<u>Doug Moore</u>		<u>F</u>	Mike Force		<u>A</u>
<u>Stephen Romaine</u>		<u>D</u>	<u>Bridgett Ferris</u>		<u>G</u>
<u>Beth Bornhold</u>		<u>H</u>			
<u>Jennifer Putland</u>		<u>H</u>			
<u>Bernard Minkley</u>		<u>E</u>			
<u>Marie Robert</u>		<u>10</u>			
<u>Hugh Maclean</u>		<u>17</u>			
<u>Shannon Harris</u>		<u>G</u>			
<u>Diana Varela</u>		<u>C</u>			
<u>Mike Bentley</u>		<u>B</u>			

~~Second log of cruise: Party Chief:~~

Name	Watch	Cabin	Name	Watch	Cabin
Mike Force					
<u>Dave Machas</u>		<u>E</u>			

Data logging system: Unit no.: P17

Program Name: Sensorsoft

Program version: 4.225

CTD deck unit make: Seabird

model:

serial no.:

Computer make: Dell

model: 433DE

serial no.: 12TX5

1st CTD make: _____

model: _____

serial no.: 0437

Temperature sensor

model: _____

serial no.: 2106

coefficients: slope: _____

user poly 8

offset: Barometer FPK-018 excl vol 1.

Conductivity sensor

model: _____

serial no.: 1748

coefficients: slope: _____

offset: Pump

serial no.: 1523

Pressure sensor range: _____

psi

serial no.: _____

coefficients: FSP: _____

dB

offset: _____

Transmissometer

model: _____

serial no.: 192D

excl vol 2.

coefficients: slope: _____

offset: PAR

excl vol 4

Comments: Secondary Temp 2062

Cond. 1764

Pump 1601

2nd CTD make: Seabird model: _____ serial no.: 0433
Temperature sensor model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Conductivity sensor model: _____ serial no.: _____
coefficients: slope: _____ offset: _____
Pressure sensor range: _____ psi serial no.: _____
coefficients: FSP: _____ dB offset: _____
Transmissometer model: _____ serial no.: _____
coefficients: slope: _____ offset: _____

Winches:

1. make: _____ model: _____ serial no.: _____ use: _____
2. make: _____ model: _____ serial no.: _____ use: _____
3. make: _____ model: _____ serial no.: _____ use: _____
4. make: _____ model: _____ serial no.: _____ use: _____
5. make: _____ model: _____ serial no.: _____ use: _____
6. make: _____ model: _____ serial no.: _____ use: _____
7. make: _____ model: _____ serial no.: _____ use: _____

Salinometer: make: _____ model: _____ serial no.: _____

SAIL System:

Program version: _____ Time zone: _____

Sampling interval: _____ sec

CTF module no.: _____ serial no.: _____

Remote temperature model: _____ serial no.: _____

Flow sensor model: _____ serial no.: _____

Other sensors: (special for this cruise)

Name: _____ module ID: _____ serial no.: _____

Name: _____ module ID: _____ serial no.: _____

Name: _____ module ID: _____ serial no.: _____

Comments: _____

ADCP Setup:

Program version: _____ number of depth bins: _____

Time zone: _____ bin length (2x): _____

Sampling interval: _____ sec pulse length: _____

Blank beyond transmit: _____ pings per ensemble: _____

Pulse cycle time: _____

% pings good threshold: _____

Comments: _____

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR 1997			MONTH OCT		SHIP J.P. TULLY			CRUISE 9737				PAGE 1 OF 1		
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STATION ID CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC STATION ID	# OF BOTTLES	INIT	COMMENTS
21	ST03	ROS	0344	BE	001	48° 39.35	123° 30.117	✓	182				Bm	
21	ST03	ROS	0350	Bo	002	48° 39.320	123° 30.124	✓✓			1-10	10		
21	ST03	ROS	0402	EN	002	48° 39.325	123° 30.133							
21	SATCH	ROS	0520	BE	3	48° 43.36	123° 25.04	✓✓	86,		11-16	6		
			0523	Bo	3									
			0528	EN	3									
21	SWan	ROS	0625	BE	4,	48° 44.32	123° 17.51	✓✓	167				Bm.	
			0629	Bo							17-25	9,		
			0638	EN										
21	STUART	ROS	0738		5.	48° 40.74	123° 15.32	✓✓	325		26-39	14,	Bm	hit bottom -
		Bongo			6.				360	250	40-41	✓	SR	
		Bongo			7					50	42-43	✓	SR	
21	Haro	ROS.	0954		8.	48° 33.73	123° 13.35	✓✓	289		44-56	13,	SH	
21	SH11	ROS	1056	BE	009	48° 28.64	123° 08.60	✓✓	270				MR.	WIRE < 30' STBD, 40' AFT
21	SH11	ROS	1107	Bo	9	48° 28.24	123° 08.67			238	57-69	11		Could not go near btm
21	SH11	ROS	1122	EN	9	48° 27.98	123° 08.40				NO SAMPLE 57, 58.			too dangerous

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	
1997			OCTOBER			TULLY			9737			2			
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 #	# OF BOTTLES	INIT	COMMENTS	
21	HEIN 15	ROS	1218	BE	10	48° 22.87	123° 02.68	✓✓	149				MR		
21	HEIN 15	ROS	1222	BO	10	48° 22.88	123° 02.72			135	70-78	9			
21	HEIN 15	ROS	1229	EN	10	48° 23.00	123° 02.73								
21	"	BowGo	1239		11				146	140	79-80	1	DFM		
21	"	BowGo	1300		12					50	81-82	1	H.M		
21	SILL	ROS	1419	BE	13	48° 15.66	123° 09.96	✓✓	131		83-90		MR	PAR	
21	SILL	ROS	1423	BO	13	48° 15.64	123° 09.96			108		8			
21	SILL	ROS	1430	EN	13	48° 15.69	123° 09.74								
21	JDF	ROS	1551	BE	14	48° 16.10	123° 24.96	✓✓	157		91-99	9			
21	JDF	ROS	1555	BO	14	48° 16.07	123° 24.92			137					
21	JDF	ROS	1605	EN	14	48° 16.22	123° 24.80								
21	JDF	BowGo			15						100-101				
21	JDF	BowGo			16						102-103				
22	LBP8	ROS	1303	BE	17	49° 48.63	128° 16.98	✓	2333			Ø			
22	LBP8	ROS	1324	BO	18	49° 48.68	128° 17.08	✓		1002		Ø			
22	LBP8	ROS	1338	EN	18	49° 48.66	128° 17.09								

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				
1997		OCTOBER		TULLY		9737		3						
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	LBP7	ROS	1431	BE	19	49° 52.37	128° 11.22	✓	1872					
22	LBP7	ROS	1453	BO	20	49° 52.48	128° 11.05	✓✓		1001	104-115	12		"VBC CAST"
22	LBP7	ROS	1517	EN	20	49° 52.42	128° 10.88							
22	LBP2	ROS	1703	BE	21	50° 04.02	127° 54.23	✓✓	99					
22	LBP2	ROS	1708	BO	21		127° 54			88	116-122	7		
22	LBP2	ROS	1719	EN	21	50° 04.10	127° 54.18							
22	LBP1	ROS	1824	BE	22	50° 04.81	127° 52.96	✓✓	55		123-127			
22	LBP1	ROS	1830	EN	22	50° 04.84	127° 52.97					5		
22	LPB3	ROS	1922	BE	23	50° 03.13	127° 55.39	✓✓	171	160	128-137	10		
	LPB3	ROS	1935	EN	23	50° 03.	127							
	LPB4		2032	BE	24	50° 01.41	127° 58.14	✓✓	987		138-156	19		Bottle 16 empty.
			2052	BO	24	50° 01.41	127° 58.01							
22			2119	EN	24									

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				
1997		October 10		Tully		9737		4						
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	LBP5	ROS	2218	BE	25	49 59.96	128 00.11	✓✓	1283		157-175	19		PAR sensor removed / BOTTLE EMPTY
											156-192	1		" " "
23	LBP6	ROS	0011	BE	26	49 56.67	128 05.62	✓✓	770		176-192	17		ROS also done
			0030	RO		49 56.17	128 05.76							
	LBP6	ROS	0050	EN										
23	LG7	ROS	0647	BE	27	48 59.41	127 07.27	✓✓	1751		193-211	19		
	LG07		7:45	EN		48 59.58	127 7.35							
	LG06	ROS	8:34	BE	28	49 03.48	127 1.29	✓✓	980		212-229	18		
			8:55	BO		49 03.50	127 1.30							
			9:21	EN		49 03.46	127 1.23							
23	LG05	ROS	10:16	BE	29	49 07.30	126 55.45	✓✓	270		230-242	13		PAR SENSOR INSTALLED
	LG05	ROS	1035	EN		49 07.37	126 55.40							
23	LG04	ROS	1121	BE	30	49° 11.22	126° 49.47	✓✓	147		243-251	9		
23	LG04	ROS	1132	EN	30	49° 11.21	126° 49.52			138				

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				
1997		OCTOBER		TULLY		9737		5						
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
23	LG02	ROS	1253	BE	31	49° 18.62	126° 38.15	✓✓	102					
23	LG02	ROS	1302	EN	31	49° 18.67	126° 38.19			91	252-258	7		
23	LG01	ROS	1334	BE	32	49° 20.50	126° 35.06	✓✓	54		252-263	5		
23	LG01	ROS	1340	EN	32	49° 20.52	126° 35.06			45				
23	LG03	ROS	1442	BE	33	49° 14.91	126° 43.85	✓✓	124		264-272			INCUBATION STATION
23	LG03	ROS	1454	EN	33	49° 14.99	126° 43.89			114		9		
23	LD01	ROS	1847	BE	34	49° 00.04	125° 43.92	✓✓	38		273-276	4		
23	LD01	ROS	1852	EN	34	49° 00.04	125° 43.94			30				
	LD02	ROS	1927	BE	35	48° 58.35	125° 47.12	✓✓			277-281	5		
		ROS	1933	EN	35									
23	LD2	Bongo			36						282-283			

CAST TYPE -

BOT -
CTD -
MOR -bottle cast
ctd
mooringROS -
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 -
GPS -
LOR -RADAR
GLOBAL
LORAN

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR		MONTH		SHIP		CRUISE		PAGE		OF				
1997		Oct.		10		Tully		9737		6				
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	SEDA/NO CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS
23	LD03	ROS	2118	BE	37	4856.59	12550.41	✓✓	46					
		ROS	2122			4856.58	12550.51							
	LD04	ROS	2211	BE	38	4853.15	12557.11	✓	64	55	284-287	6		
		ROS	2218	EN		4853.07	12557.09							
23	LD04	Bongo			39									
23	LD05	ROS	2322	BE	40	48 49.653	126 03.67	✓	93		290-291			
		ROS	2331	EN		48 49.652	126 03.67							
24	LD06	ROS	0020	DE	41	48 46.143	126 10.312	✓✓	138					
		ROS	0035	EN		48 46.141	126 10.269							
24	LD07	ROS	0125	BE	42	48 42.748	126 16.773	✓✓	517	125	292-299	8		
		ROS	0152	EN		48 42.663	126 16.793							
24	LD08	ROS	0246	BE	43	48 39.178	126 23.447	✓	776	500	299-313	15		
		ROS		EN										CTD only Lots of squid sighted!
24	LD09	ROS	0410	BE	44	4835.72	12630.09	✓✓	1040	1050	314-332	19		
			0454			4837.79	12630.26							PAR and FLUOR removed
24	LD10	ROS	0544	BE	45	4832.16	12636.75	✓	1473					Lots of squid, again - up to 1m long!
			0638	EN		4832.46	12636.99							

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				
1997		Oct		10,		TULLY		9737		7				
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
24	L011	ROS	0750	BE	46	48 28.79	126 43.00	✓✓	1580		333-353	21		
			0903	EN		48 28.75	126 43.09							
24	P5	CTD	1133	BE	47	48° 41.56	127° 10.03	✓	2085			∅		Beginning of Line P CTDs
24	P5	CTD	1155	BO	48	48° 41.55	127° 09.98	✓		1005				
24	P5	CTD	1212	EN	48	48° 41.53	127° 10.01							
24	P6	CTD	1432	BE	49	48° 44.54	127° 40.17	✓	2549			∅		
24	P6	CTD	1453	BO	50	48° 44.42	127° 39.99	✓		1006				
24	P6	CTD	1509	EN	50	48° 44.40	127° 39.92							
24	P7	CTD	1714	BE	51	48° 46.55	128° 10.10	✓	2510					
24	P7	CTD	1736	BO	52	48° 46.60	128° 09.95	✓		1005		∅		
24	P7	CTD	1752	EN	52	48° 46.51	128° 09.96							
24	P8	CTD	1958	BE	53	48 49.06	128 49.88	✓	2522	1000		∅		
24	P8	CTD	2013	BO	53	48 49.97	128 39.95							
24	P8	CTD	2027	EN	53	48 49.05	128 40.07							

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

Replaced stopcock in Niskin #7.

DAILY LOG

OCEAN PHYSICS

INSTITUTE OF OCEAN SCIENCES

YEAR			MONTH			SHIP			CRUISE			PAGE		OF	
1997			Oct			TULLY			9737			8			
DAY (UTC)	STATION ID	CAST TYPE	TIME (UTC)	TIME CODE	STD/HYDR CONSEC #	LATITUDE	LONGITUDE	POSITION CODE	BOTTOM DEPTH (m)	MAX SAMPLING DEPTH (m)	CONSEC SAMPLE #	# OF BOTTLES	INIT	COMMENTS	
24	P9	CTD	2238	BE	54	48 51.31	129 9.86	✓	2345			Ø			
			2308	EN		48 51.32	129 09.56								
25	P10	CTD	0109	BE	55	48 53.89	129 40.12	✓	2646			Ø			
			0140	EN		48 53.71	129 40.22								
														PAR & FLUOR sensor installed	
25	LC9	ROS	1305	BE	56	48° 25.99	126° 13.78	✓	612					Incubation station	
25	LC9	ROS	1318	BO	57	48° 25.99	126° 13.75	✓✓		602	354-369	23			
25	LC9	ROS	1340	EN	57	48° 25.94	126° 13.79								
25	LC9	NET	1355	BE	58	48 25.95	126 13.59			250	370	-		Bongo to 250m	
25	A-2	BONGO	1520	EN	59	48° 23.0'	126° 04.1'		356	250	371	-		BONGO to 250m	
25	LC8	ROS	1624	BE	60	48° 29.43	126° 07.18	✓✓							
25	LC8	ROS	1639	BO	60	48° 29.39	126° 07.16		200		372-383	12		Monitoring Sta	
25	LC8	ROS	1638	EN	60	48° 29.42	126° 07.13			188					
25	LC8/AI	NET	1645	BE	61	48 29.67	126 07.16		201		384			Bongo	
26	LC11	ROS	0250	BE	62	48 18.91	126 26.81	✓✓	1466	600	385-400	16		Bottles 12,13 empty	
	LC11	ROS	0317	EN	62	48 18.87	126 26.87								
														Fluor. removed	

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				
1997		Oct.		Tully		9737		9						
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
	LC10	ROS	0401	BE	63	48 22.45	126 20.32	✓✓	1249		401-420	20.		no fluor.
			0446	EN		48 22.39	126 20.37							
	LC07	ROS	0621		64	48 32.99	126 0.60	✓✓	129		421-428	8		FLUOR installed
			0636			"	"							
26	LC5	ROS	1331	BE	65	48° 40.00	125° 47.40	✓	65			Ø		
26	LC5		1335	EN	65	48° 40.03	125° 47.38			56				
26	LC5	Bongo			66	48° 39.97	125° 47.44				429-430	2		
26	LC4	ROS	1433	BE	67	48° 43.52	125° 40.76	✓✓	167		431-440	10		Incubation station
26	LC4	ROS	1447	EN	67	48° 43.61	125° 40.50			150				
26	C1	ROS	1709	BE	68	48° 28.96	125° 15.27	✓✓	153		441-449	9		
26	C1	ROS	1724	EN	68	48° 28.87	125° 15.13							
26	C1	Bongo			69						450-451			

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			
1997	Oct			Tully			9737			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
26	C2	Bongo	2021		70	48 23.46	125 20.74				452-453	1		
	C3	Bongo	2200		71	48 23.46	125 20.74				454-455	1		
	E1	Bongo			72						456-457	1		
27	LB01	ROS	0028	BE	73	48 40.48	124 59.58	✓✓			458-461	4		
	LB01	ROS	0033	EN		48 40.49	124 59.64							
27	LB02	ROS	0102	BE	74	48 39.06	125 02.48	✓✓			462-466	5		
	LB02	ROS	0109	EN		48 39.08	125 02.48							
27	LB03	ROS		BE	75	48 37.35	125 05 69	✓						
27	LB04	ROS	0213	BE	76	48 35.68	125 08.78	✓✓	110	100	467-473	7		
27	LB05	ROS	0250	BE	77	48 33.95	125 12.13	✓	103	100				
27	LB06	ROS	0325	BE	78	48 32.14	125 15.59	✓✓	115	100	474-480	7		
			0334	E		48 32.05	125 15.64							
27	LB07	ROS	0421	BE	79	48 28.62	125 22.12	✓	158					
			0427	EN		"	125 22.18							
27	LB08	ROS	0514	BE	80	48 25.28	125 28.72	✓✓	148		481-489	9		
			0525	EN		48 25.30	125 28.69							
27	LB09	ROS	0618	BE	81	48 22.02	125 34.81	✓✓	150		490-498	9		
			0628	EN		48 22.04	125 34.76							

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				
1997		Oct		J. P. Tully		9737		11						
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
27	LB10	ROS	0719	BE	82	48 18.60	125 41.24	✓ ✓	153		499-507	9		
			0729	EN		48 18.65	125 41.28							
27	LB11	ROS	0822	BE	83	48 15.16	125 47.78	✓ ✓	207		508-519	12		
			0836	EN		48 15.18	125 47.76							
27	LB12	ROS	0911	BE	84	48 12.90	125 51.97	✓ ✓	513		520-535	16		
			0936	EN		48 12.87	125 51.93							
27	LB13	ROS	1015	BE	85	48 10.61	125 56.26	✓	903		✓	φ		PAR & FLUOR. removed.
			1046	EN		48 10.62	125 56.29							Jennifer catches a squid!
27	LB14	ROS	1120	BE	86	48 08.45	126 00.12	✓ ✓	1185		536-554	19		
			1209	EN		48 08.52	126 00.14							
28	GEO1	ROS	0736	BE	87	49 15.03	123 45.05		402		555-564	10		
			0755	EN		49 15.09	123 44.89							
28	GEO1	NET	08		88					400				0-400m - IOS Bongo (black)
		NET			89					200				0-200m IOS Bongo (black)
		NET			90					50				0-50m IOS Bongo (black)
		NET			91					400				0-400m VNH UBC bongo (white)
		NET			92					200				0-200m VNH UBC bongo (white)

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

[illegible]

CAST TYPE -

BOT -
CTD -
MOR -

bottle cast
ctd
mooring

ROS
NET
DRA

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