

DAILY LOG BOOK

MISSION
NUMBER

2003-15

DATE:

From: May 16/03

to: May 25/03

VESSEL:

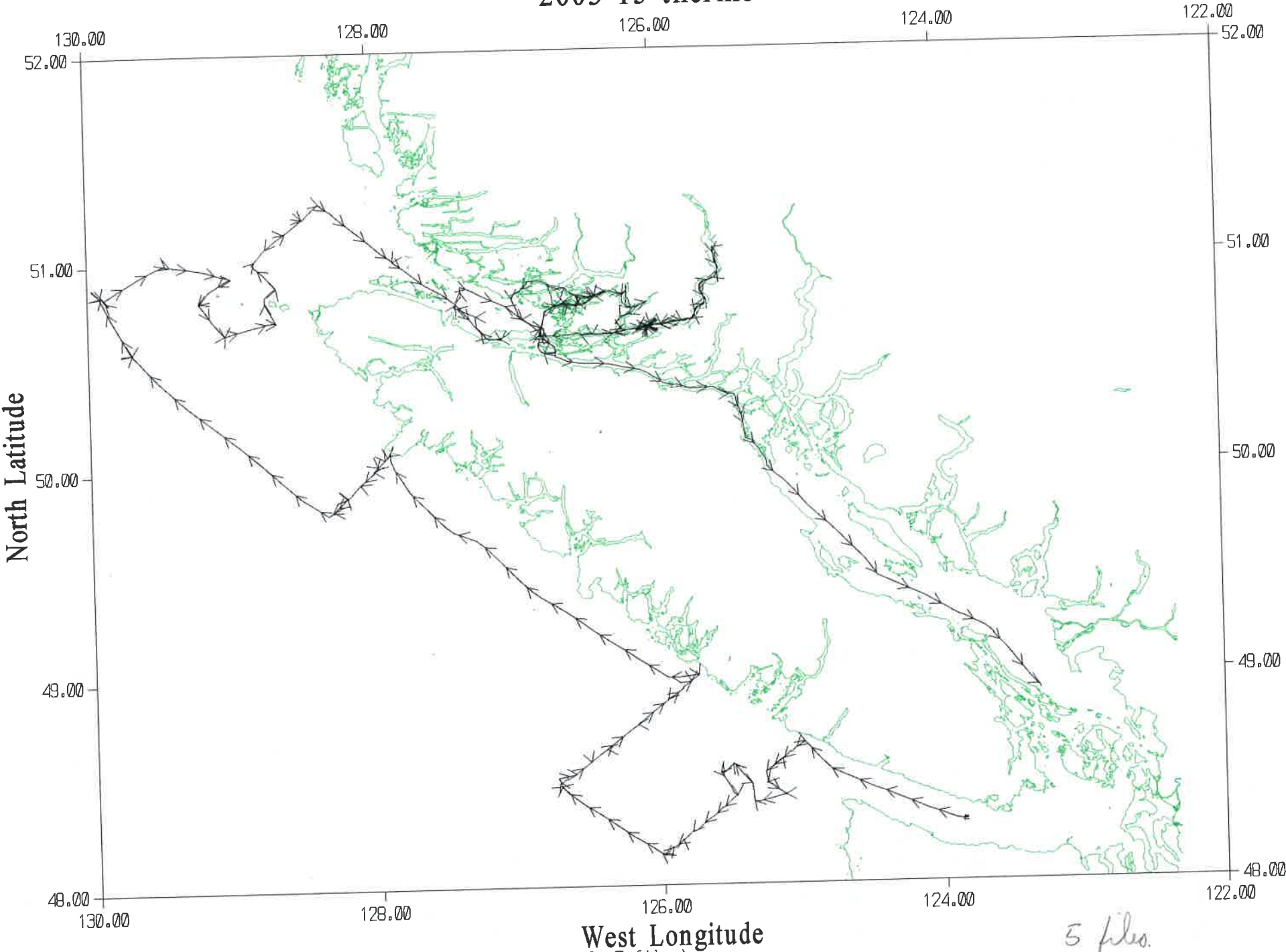
J. P. Tully

PROJECT:

Nestucca / La Perouse / Knight Inlet

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

2003-15 thermo



Hydrographer: Model	Cable gain:	s/n:	P, S or NO pump?
Oxygen sensor:	Model:	s/n:	P, S or NO pump?
PAR sensor:	Model:	s/n:	P, S or NO pump?
Other sensors:		s/n:	P, S or NO pump?
Other sensors:		s/n:	P, S or NO pump?
Other sensors:		s/n:	P, S or NO pump?
Other sensors:		s/n:	P, S or NO pump?

CTD calibration bottle location (height above CTD in metres): ROSETTE

5 files

Rosette Setup:

Number of bottles: 24
Manufacturer: General Oceanics (Ocean Test Equip., General Oceanics, IOS)
Volume of bottles (litres): 20

Winches:

1. Make: Swann	model: 329	serial #: 1233	used for: BIONESS
2. Make: Hamboldt Instruments	model: SAR-75	serial #: 17026	used for: CTD/Rosette
3. Make:	model: B3248K	serial #:	used for:
4. Make:	model:	serial #:	used for:
5. Make:	model:	serial #:	used for:
6. Make:	model:	serial #:	used for:
7. Make:	model:	serial #:	used for:

Comments: Vech #2 was pulled to maximum capacity during CTD swag on ODAS buoy.

Salinometer: make: model: serial number:

Comments:

Thermosalinograph System:

Program: Seagave Version: 5.27c

Sampling interval (seconds): 30 sec

Fluorometer sensor serial number: W535-713P

Comments:

ADCP Setup:

Computer time zone: UTC

Sampling interval (sec): 120 sec

Bin Length: (2^x): 3

Pulse Length:

Buffer (bytes):

Gyro Offset:

Comments:

User Exits: Name: Exit points:

Name: Exit points:

Name: Exit points:

Work File:

Comments:

Oxygen Standards

Blank			Standard		
B ₁	B ₂	B ₃	V ₁	V ₂	V ₃
.025			.759		
.001				0	
	.005			.704	
		-.022			.728
		.005	0		
-.005			.667		
-.001			.767		
.010			0		
.006			.720		
V ₆ = .005				.751	
			.856		
			0		
			.766		
			.729		
				.718	
				.729	
			V ₂ =		

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>May</u>					Year <u>2003</u>			Ship <u>Tully</u>				Cruise ID <u>2003-15</u>		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
17		03:02:24	LOOP 1	—	01	48°33.33 N	123°17.11 W	34.5m	—	—	—			Loop 1 chloro, nutrients
17	LB1	08:22	ROS		02	48°40.40	124°59.32	35						
17	LB1	12:20	LOOP 2		03	48°40.41 N	124°59.37 W	35	30	1-5	5			LOOP 2 chloro
17	LB2	13:14	ROS		04	48°38.99	125°02.43	55	50	6-10	6			
17	LB2	13:24	LOOP 3		05	48°38.65 N	125°03.18 W	66						Loop 3 chloro
17	LB3	13:48	CTD		06	48°37.38	125°05.65	92	85	—	—			*See next page notes
17	LB3	13:55	LOOP 4		07	48°37.44	125°05.70	92						LOOP 4 chloro
17	LB4	14:22	ROS		08	48°35.66	125°08.71	110	105	12-19	8			
17	LB4	14:24	Loop 5		09	48°35.66	125°08.71	110.5						LOOP 5 chloro
17	LB4	14:55	NET		10	48°35.78	125°08.73	110	95					Bongo to 95
17	LB5	15:43	CTD		11	48°33.91 N	125°11.987	99	100	—	—			Just CTD see back entered loop 6
17	LB5	15:32	loop 6		12	48°33.99	125°12.03	99	100					loop 6 nutrients chloro
17	LB6	16:31	ROS		13	48°32.16	125°15.61	106	112	20-27	8			
17	LB6	16:31	loop 7		14	48°32.13	125°15.63							loop 7 chloro
17	C1	17:13	CTD		15	48°28.82	125°15.46	150	145	—	—			CTD only.
		17:30	NET		16	48°28.86	125°15.289	150	140m					Bongo to 140m
17	C1	17:18	loop 8		17	48°29.77	125°15.57							chloro/nutrient loop 8
	C1	17:50	NET		18	48°28.9	125°15.4	150	50	—	—			Dinner Lab Bongo (RAM)

Cast type: USW = sea water loop • bottle firing method: • Time Code
 BOT = bottle cast, no CTD MOR = mooring • US = up / stop • BE = beginning time of cast
 CTD = CTD without Rosette NET = net haul • UN = up / no stop • BO = bottom time of cast
 ROS = Rosette plus CTD DRF = drifter • DN = down / no stop • EN = end of cast time
 DE = deployment time
 MR = messenger release time
 RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

E1-Sabirawi 22 March 2002
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Additional comments

May 17

1500 (UTC) - entered 1.00 as slope (m) in PAR channel (units) config

* LB3 → File notes for CTD file says "LB4", BUT station is LB3
CTD file ...0006.DAT

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Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
17	LBA2/C2	1845	NET		19	48°25.46	125°07.58		120					
17	"	18:49	loop#9		20	48°25.44	125°07.75	133m						loop#9 chloro nutrients
17	"	19:11	CTD	BE	21	48°25.37	125°07.74	120				ST.		
		1914		BO		48°25.37	125°07.74		114					
		1915		EN		48°25.37	125°07.74							
17		19:39	loop#10	-	22	48°24.62	125°11.87	-	-	-	1	-	-	loop#10 Salinity
	C3	2026	CTD	BE	23	48°23.47	125°20.86	119						oops put in computer as #22 not 23! (S.T.)
		2028		BO		48°23.48	125°20.85		115					
		2030		EN		48°23.48	125°20.84							
	C3	2027	Loop#11		24	48°23.47	125°20.86					ST/am.		salinity chl + nuts from loop (#11)
			NET	BO	25									
	LBO7	2137	CTD	BE	26	48°28.68	125°22.01	157				ST/Dm. ✓		VERY green-coloured water says Doug M.!
		2139		BO		48°28.70	125°22.01		150					
		2141		EN		48°28.70	125°22.00							
		2141	Loop12		27	48°28.70	125°22.00							chl + nuts - Loop #12
	LCB3/B8	2248	CTD	BE	28	48°34.48	125°29.86	114				ST.		
		2251		BO		48°34.48	125°29.87		109					
		2252		EN		48°34.49	125°29.89							

Cast type:

BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

US = up / stop
UN = up / no stop
DN = down / no stop

Time Code

BE = beginning time of cast
BO = bottom time of cast
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DE = deployment time

MR = messenger release time
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22 March 2002

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						Latitude	Longitude								
17	LCB3/B8	23:07	NET	BO	29	48 34.5	125 29.96	114	104	—	—			BONGO TO 104m for JDS	
	"	23:30	NET	BO	30	48 34.5	125 30.03	114	50	—	—			BONGO TO 50m FOR RANA	
18	LCB4/B7	00:35	NET	BO	31	48 31.99	125 35.4	79	70	—	—			Bongo to 70m	
			CTD	BE	32	48 31.99	125 35.45	79	73	—	—				
				BO		48 31.99	125 35.46	1	1						
				EN		48 32.00	125 35.46	1	1						
		00:26:20	Loop#13	—	33	48° 31.99 N	125° 35.41 W	80						Salinity.	
18	LB8	01:57	ROS	BE	34	48° 25.29	125° 28.53	133	128	28-37	10				
				BO	1	48° 25.31	125° 28.53	1	128	1	1				
		02:10		EN	1	48° 25.29	125° 28.6	1	128	1	1				
18	LB8		Loop#14	—	35	48° 25 31N	125° 28.53 W	133	—	—	—				
18	LB9	03:01	ROS	BE	36	48° 21.95	125° 34.76	149	143	38-47					
		03:04		BO	1	48 21.95	125 34.75	149	143	1					
		03:18		EN	1	48 21.95	125 34.73	1	143	1					
18	LB9	03:07	Loop#15	—	37	48°	125°	1	—	—				Loop#15 chloro	
18	LB10	04:13	CTD	BE	38	48 18.55	125 41.31	152							
		04:16		BO	1	48 18.55	125 41.31		145						
		04:19		EN	1	48 18.56	125 41.30								
18	LB10	04:07	Loop#16		39	48 18.55	125 41 31							loop#16 chloro not	

de:

NT = bottle cast, no CTD
 = CTD without Rosette
 Rosette plus CTD

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 MOR = mooring
 NET = net haul
 DRF = drifter

• bottle firing method:
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Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
18	LB11	0509	ROS	BE	40	48° 15.17	125° 47.70	204							
		0513		BOT	1	48° 15.19	125° 47.75		200	48-59	12	DY			
		0531		EN	1	48° 15.22	125° 47.65								
	LB11	5:06	loop 17	-	41	48° 15.19	125° 47.7							loop #17 chloro	
	LB12	0613	ROS	BE	42	48° 12.90	125° 51.86	509							
		0619		BO	1	48° 12.91	125° 51.88		500	60-75	16	DY		Seasave cracked.	
		0644		EN		48° 12.91	125° 51.87					DY			
	LB12	6:11	loop 18		43	48° 12.92	125° 51.87				2			Loop 18 chl <i>Blue</i>	
11	LB13	0726	CTD	BE	44	48° 10.59	125° 56.10	930	920			ST		2 sal samples only	
		0740		BO		48° 10.59	125° 56.11			76-77				e 920 + 800 m	
		0752		EN		48° 10.58	125° 56.12								
		0746	Loop 19		45	48° 12.92	125° 51.87					ST.		Loop # 19 ^{nutrients} chloro, salinity	
	LB14	0838	ROS	BE	46	48° 08.53	126° 00.01	1184						-PAR sensor removed	
		0852		BO		48° 08.50	126° 00.00		1180	78-97		ST.			
		0923		EN		48° 08.49	126° 59.98								
		0840	Loop 20		47	48° 8.54N	125° 57.98W							loop #20, chlorophyll	
18		12:56	Loop 21		48	48° 23.97	126° 32.67	1500						loop #21, chl, Nut, Sal	
18	LD11	14:11	CTD												

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month MAY					Year 2003			Ship TULLY				Cruise ID 2003-15			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
18	LD11	14:26	CTD	BE	49	48° 28.66	126° 42.94	11605	1595					NOT GETTING GOOD DEPTH READING FROM SOUNDING SO BOTTOM DEPTH APPROX.	
1	1	14:50	1	BO	1	48° 28.77	126° 42.95	1	1						
1	1	15:26	1	EN	1	48° 28.78	126° 42.94	1	1						
18	LD11	14:27	LOOP 22		50	48° 28.73	126° 42.70							chlora	
18	LD11	15:48	NET	BE	51	48° 29.40	126° 43.22			—	—			BIONESS	
18			1	EN	51	48° 30.4	126° 43.71								
18	LD10	1735	ROS	BE	52	48° 32.22	126° 36.58	1465						extra bottles @ bottom	
				BO					1473	98-119				TSG reset. 003. hex (1745 UTC)	
				EN							22				
18	LD10		loop #23		53	48° 32.23	126° 36.59	1044						chlora	
18	LD09		CTD	BE	54	48° 35.31	126° 29.98	1044	1056		—	AM	✓		
		1941		BO		48° 35.69	126° 30.00								
		1951		EN		48° 35.70	126° 29.95								
18			Loop #24		55	48° 35.74N	126° 29.97W							chlora, nutrients	
18	LD8	2046	ROS	BE	56	48° 39.16	126° 23.36	780		120-137	18	ST		PAR sensor put back on (ST)	
		2048		BO		48° 39.17	126° 23.38	780	760						
		2112		EN		48° 39.18	126° 23.36								
			Loop #25		57	48° 39.18N	126° 23.39W							Loop #25 chlora	

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Additional comments

WATER COLOUR CLEAR AND BLUE AT STATIONS ~~OUT~~ OFF SHELF

LD9 SUNNY, CALM, 2-M SWELL

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Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
17	LD07	21:59	CTD	BE	58	48°42.63	126°16.75	423				ST.		
		2206		BO	1	48°42.63	126°16.83	445	455					
		2211		EN		48°42.64	126°16.81							
			loop#26		59	48°42.64N	126°16.79W	450						Loop#26, chloro, nutrients
18	LD06	23:01	ROS	BE	60	48°46.17	126°10.17	138	131					
		23:03		BO	1	48°46.17	126°10.18	1	1					
		23:18		EN	1	48°46.18	126°10.17	1	1					
		23:05	loop#27		61	48°46.17	126°10.18							Loop # 27, chloro
19	LD05	00:13	CTD	BE	62	48°49.641	126°03.569	85	80					
		00:15		BO	1	48°49.646	126°03.381	1	1					
		00:18		EN	1	48°49.656	126°03.554	1	1					
		00:13	Loop#28		63	48°49.65	126°03.55							Loop#28 chl, nut, nut
19	LD04	01:09	ROS	BE	64	48°53.18	125°56.92	63	54					
		01:13		BO	1	48°53.19	125°56.96	1	1					
		01:21		EN	1	48°53.19	125°56.92	1	1					
		01:38	NET	-	65	48°53.12	125°56.9	63	50					Bongo
		01:54	Loop#29	-	66	48°53.1911	125°56.8611	62.75						Chl
		01:58	NET	-	67	48°53.16	125°56.85	63	50					Bongo for Perna (Vinc)

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						Latitude	Longitude								
19	LD03	02:53	CTD	BE	68	48° 56.591	125° 50.362	46.75	38						
		02:54		BO	1	48° 56.593	125° 50.354	46.75	38						
		02:57		EN	1	48 56.600	125 50.352	46.75	38						
19	LD03		Loop #30		69										
19	LD2	03:32	ROSETTE	BE	70	48 58.31	125 47.04	43							chlora loop 30
		03:36		BO	1	48 58.32	125 47.05		38						
		03:41		EN	1	48 58.33	125 47.06								
19	LD2		NET		71										
19	LD2		NET		72										Bongo
19	LD2	3:29	Loop 31		73	48° 58.30	125° 47.02								Bongo for Rana chlora loop 31
19	LD1	04:48	ROSETTE	BE	74	49 0.09	125 43.75	35							
		04:51		BO	1	49 0.09	125 43.77		29						
		04:54		EN	1	49 0.08	125 43.78								
19	LD1	4:50	loop 32		75	49 0.09	125 43.77								chlora, salinity loop 32
19	---	9:36	loop 33		76	49 19.65	126 41.65								chlora loop 33
19	LBP1	16:26	CTD	BE	77	50 4.89	127 52.77	45							
		16:27		BO		50 4.88	127 52.77		40						
		16:29		EN		50 4.88	127 52.77								
19	LBP1	16:22	Loop 34		78	50 4.86	127 52.80								chlora Loop 34

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						Latitude	Longitude								
19	LBP2	1650	ROS	BE	79	50 04.04	127 54.23	95							
1	1	1654	1	BO		50 4.03	127 54.23		90						
		1704	1	EN		50 4.01	127 54.27								
19	LBP2		loop35		80			95						chlora loop#35	
19	LBP2	1717	Net	-	81	50 04.03	127 54.21	95	90					Bongo to 40	
19	LBP3	1744	Net		82	50 03.26	127 55.36	160	155					bongo	
19	LBP3	1805	Net		83	50 03.22	127 55.25	160	50					for Rana (bongo)	
19	LBP3	17:45	loop#36		84	50° 3.26	127 55.38							loop#36 nuts/chlora/Salmon	
19	LBP3	1826	CTD		85	50 3.26	127 55.20	160	155						
19	LBP4	1906	Rosette	BE	86	50°01.42	127°58.14	1060				ST	✓	Par sensor 10. (ST)	
		1918		BO		50°01.41	127°58.09		1050	223-					
		1948		EN		50°01.40	127°58.09			242	20			5 humpbacks in the area!	
		19:21	loop#37		87	50°01.42	127°58.07							loop#37 chlora	
	LBP5	2017	CTD	BE	88	49°59.97	128°00.05	1285				ST			
		2033		BO		50°00.05	127°59.84		1280/1290					winch operator went wrong way - hit bottom.	
		2046		EN		49°59.97	127°59.88							- Rosette is fine - bit of mud on chains only - nothing serious	
		20:26	Loop38		89	50°00.02	127°59.88					ST.		Loop# 38, chlora, nutrients	
			NET	BO	90										

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Transmissometer to be cleaned for each cast, do not use Ammonia products

22 March 2002
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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>to May</i>					Year <i>2003</i>			Ship <i>Tully</i>				Cruise ID <i>2003-15</i>			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
19	LBP6	2157	ROS	BE	91	49°56.22	128°05.40	900	895	243-264	22	ST			
		2200		BD		49°56.16	128°05.46		895	243-264	22	ST		bottle 19 misfired -	
		2233		EN		49°56.32	128°05.72		895	243-264	22	ST		ball got caught on cable	
		2209	loop 39		92	49°56.15	128°05.40							loop 39, chloro, salinity	
19	LBP7	23:18	ROS	BE	93	49°52.41	128°11.10	2230	2223	265-286	22	MT		* forgot to sample @ 2000m	
		23:40		BD		49°52.43	128°11.25								
20		00:38		EN		49°52.40	128°11.08								
19	LBP7	22:33	loop	Reset / fluorometer cleaned. started file										e4	
19	LBP7		loop #40		94										
20	LBP7	00:55	NET	-	95	49°52.55	128°11.19	2230	250	—	—				
20		01:21	NET	-	96	49°52.43	128°11.19	2230	50	—	—			For Rano (Uvic)	
20	LBP8	02:17	CTD	BE	97	49°48.635	128°16.785	2100	2075 ^h						
20		02:35		BD		49°48.644	128°16.834								
20		02:57		EN		49°48.605	128°16.802								
20	LBP8		loop #41		99									loop #41, phloro, Nutr, Sal	
20	LBP8	0322	Net		98	49°48.63	128°17.01		250					Bioness	
20	CS01	11:04	Loop #42		100	50°34.92	129°41.40							loop #42, nutr, chloro, sal.	

Cast type:

BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

• US = up / stop
• UN = up / no stop
• DN = down / no stop

Time Code

• BE = beginning time of cast
• BO = bottom time of cast
• EN = end of cast time

DE = deployment time

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DAILY LOG

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INSTITUTE OF OCEAN SCIENCES

Month					Year			Ship				Cruise ID			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
20	CS01	11:01	CTD	BE	101	50° 34.92	129° 41.41	~2120	2111	—	—				
1	1	11:29	1	Bo	1	50° 34.89	129° 41.49	1	1	—	—				
1	1	12:01	1	EN	1	50°	129°	1	1	—	—				
20	CS01	12:17	NET	—	102	50° 34.90	129° 41.45	~2120	250	—	—				0-250m bongo
20	CS01	12:34	NET	—	103	50° 34.93	129° 41.46	1	50	—	—				0-50m bongo
20	CS01	12:50	NET	—	104	50° 34.94	129° 41.46	1	50	—	—				0-50m for Rana
20	ODAS		Loop #43	—	105	50° 51.51	129° 54.96	2000?	—	—	—				chlord, nuts. loop 93
20	ODAS	1517	NET	—	106	50° 51.45	129° 54.85		250	—	—				0-250 Bongo
1	1	1524	NET	—	107	50° 41.40	129° 54.96		50						0-50 "
1	1	1541	CTD	BE	108	50° 51.41	129° 55.08	2114	—						
1	1	1605	1	Bo	1	50° 51.42	129° 54.73		2000						caught Rosette in
1	1		1	EN	1	50	129								ODAS buoy :-
			NET	Bo	109										
			NET	Bo	110										
			RTD	NI											
20	CS3B	2118	Loop #44		112	50° 60.00	129° 26.22	210							broke off 1 pin (from CTD carousel cable) loop # 44 = chlord, nuts, soil
21	CS05	00:10	CTD	BE	113	50° 56.06	128° 59.64	68	63						* PAR sensor not on CTD
1	1	00:12	1	Bo	1	50° 56.05	128° 59.37	68	63						
1	1	00:15	1	EN	1	50° 56.05	128° 59.36	68	63						

Cast type: USW = sea water loop • bottle firing method: • Time Code
 BOT = bottle cast, no CTD MOR = mooring • US = up / stop • BE = beginning time of cast DE = deployment time
 CTD = CTD without Rosette NET = net haul • UN = up / no stop • BO = bottom time of cast MR = messenger release time
 ROS = Rosette plus CTD DRF = drifter • DN = down / no stop • EN = end of cast time RE = recover mooring time

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Additional comments

20 May - Rosette caught up on ODA's buoy - finally broke free
- frame is broken + some Rosette bottles damaged.

- New Rosette hooked up

- as I was connecting Carousel cable - one of the 6
pins busted off + still works though.

S.T.

- weather coming up - must be gusting 30-35 knots.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month					Year			Ship				Cruise ID		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
21	CS05	00:36	NET		114	50° 55.99	128° 59.79	68	50					
21	CS05	00:46	NET		11									
21	CS05	00:10:18	Loop#45		115	50° 56.03'	128° 59.82'	64m	—					sal, nuts, chl
21	CS04	02:13	NET	—	116	50° 49.08	129° 12.96	100	90					0-90m Bongo
1	CS04	02:38	NET	—	117	50° 49.19	129° 13.06	100	50					0-50 Bongo
1	1		LOOP#46		118									nuts, chl.
21	CS04	02:58	CTD	BE	119	50° 49.18	129° 13.09	98	95					*NO PAR sensor.
1	1	0302	1	BO		50 49.18	129 13.08	1	1					
1	1	0304	1	EN		50 49.17	129 13.09	1	1					
21	LQ03	0436	CTD	BE	120	50 39.83	129 01.91	1280?						
1	1	0452	1	BO	1	50 39.76	129 2.08		1322					
1	1	0503	1	EN	1	50 39.81	129 2.00							
21	LQ03		loop#7	—	121									loop#7, chl, Nut, Sal
21	LQ03	0512	NET		122	50 39.78	129 2.02		250					300m out?
21	LQ03		NET		123	50 39.81	129 2.04		50					60m out
21	CPE2	0705	CTD	BE	124	50° 42.98	128° 40.00	125				ST		
		0728		BO		50° 42.99	128° 40.02		120					pinger may be
		07		EN		50° 42	128° 40							dying in the

Cast type:

BOT = bottle cast, no CTD
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MOR = mooring
 NET = net haul
 DRF = drifter

• bottle firing method:

• US = up / stop
 • UN = up / no stop
 • DN = down / no stop

• Time Code

• BE = beginning time of cast
 • BO = bottom time of cast
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DE = deployment time

MR = messenger release time

RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month MAY					Year 2003			Ship TULLY				Cruise ID 2003-15			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
21	CPE2	7:44	NET	BO	125	50°43.00	128°39.99	125	55			ST/DM		BONGO	
		7:58	NET	BO	126	50°42.98	128°40.02		110					BONGO	
		07:29	loop 48		127	50°42.98	128°40.02							changed pinger	
														chloro, nutrients, salinity	
21	CS1B	0914	loop 49		128	50°53.01	128°39.91							Nutrients, chlorophyll	
		0920	NET		129	50°53.05	128°39.85	75	50					Bongo to 50m	
		0928	CTD	BE	130	50°52.98	128°39.93	73							
		0930		BO		50°52.99	128°39.91		69						
		0932		EN		50°53.00	128°39.89							lots of noise on the fluorometer.	
21	CS06	1041	CTD	BE	131	50°59.97	128°50.02	67							
		1043		BO		50°59.96	128°50.02		60						
		1044		EN		50°59.96	128°50.00								
			NET	BO	132	50°59.94	128°50.14	65	50					BONGO	
		1042	loop 48		133	50°59.96	128°50.02							loop #50, nutrients, chloroph.	
21	CS07	11:46	NET		134	51°04	128°43.9	65	50					Bongo	
21	CS07	12:00	CTD	BE	135	51°04.39	128°44.07	65	60						
		12:02		BO		51°04.38	128°44.07								
		12:03		EN		51°04.37	128°44.06								
21	CS07	12:00	Loop 51	-	136			65							

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DAILY LOG

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Month					Year			Ship				Cruise ID		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
21	CS04	1256	CTD	BE	137	51 08.419	128 35.949	138	133	—	—			
1	1	1258	1	BO	1	51 08.386	128 35.960	1	134	—	—			
1	1	1301	1	EN	1	51 08.372	128 35.975	1	1	—	—			
21	CS08	13:15	NET	—	138	51 08.46	128 35.96	143	130	—	—			Bongo 0-125m
21	CS08	13:24	NET	—	139	51 08.5	128 35.94	143	50	—	—			Bongo 0-50m
21	CS08		Loop [#] 52	—	140	51 08.42	128 35.94			—	—			loop [#] 52 nwt/chl
21	CS09	14:29	NET	—	141	51 12.52	128 28.14	195	185					Bongo 0-185m
21	CS09	14:43	NET	—	142	51 12.53	128 28.14	195	50					Bongo 0-50m
21	CS09	14:57	NET	—	143	51 12.46	128 28.02	195	50					Bongo 0-50m for Rana
21	CS09	1458	Loop53		144	51 12.54	128 28.04	195	50					Loop #53 nwt/chl/or
21	CS09	1515	CTD	BO	145	51 12.51	128 28.05	194						
1	1	1518	1	BO	1	51 12.51	128 28.06		190					
1	1		1	EN	1									
21	CS10	16:18	loop54		146	51 16.53	128° 20.01	78						loop 54 nwt/chl/sal
21	CS10	1624	CTD	BE	147	51 16.43	128 19.92	78						
1	1	1626	1	BO	1	51 16.43	128 19.93		70					
1	1	1627	1	EN	1	51 16.43	128 19.93							
21	CS10	1639	NET	BO	148	51 16.46	128 20.04		70					Bongo 76 m out

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>May</i>					Year <i>2003</i>			Ship <i>Tully</i>				Cruise ID <i>2003-15</i>		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
21	CPE1	19:58	NET	BO	149	50°59.95	127°50.17	146	50			ST/DM		BONGO TO 50
		20:13	NET	BO	150	50°59.94	127°50.18		140					BONGO TO
		20:29	NET	BO	151	50°59.93	127°50.18		50					BONGO FOR RANA TO 50
21	CPE1	20:43	CTD	BE	152	50°59.96	127°50.08	148					✓	PAR put back on.
		20:46		BO		50°59.98	127°50.10		144					-replaced spigot on Bot 21
		20:48		EN		50°59.99	127°50.09							
21	CPE1	20:43	loop 55		153	50°59.96	127°50.07					ST/DM		Loop #55 NRT/CHL/SAL.
22	QCS3	03:45	ROS	BE	154	50°43.77	127°14.99	213						-changed the outer
		03:50		BO		50°43.76	127°15.01		208	287-299	13			O-ring on the
		04:03		EN		50°43.76	127°15.01							Rosette spigots.
22	QCS3	3:49	loop 56		155	50°43.76	127°15.00							nut chloro loop 56 (ST)
22	QCS4	04:58	ROS	BE	156	50°46.67	127°24.43	392		300-314				
		05:06		BO		50°46.68	127°24.39		400					
		05:21		EN		50°46.65	127°24.33							
22	QCS5	05:45	ROS	BE	157	50°49.43	127°21.64	157		315-324	15			
		05:50		BO		50°49.44	127°21.64		150					
		06:07		EN		50°49.44	127°21.64							
	QCS5	6:02	loop 57		158	50.49.45	127°21.62							

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DAILY LOG

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INSTITUTE OF OCEAN SCIENCES

Month <i>MAY</i>					Year <i>2003</i>			Ship <i>Tully</i>			Cruise ID <i>2003-15</i>			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
22	QCS6	0640	ROS	BE	159	50° 52.45	127° 21.68	148		325-334	10			
1	1	0644	1	BO	1	50° 52.45	127° 21.67		143					
		0654	1	EN	1	50° 52.45	127° 21.62							
22	QCS6	6:37	Loop 58		160	50° 52.46	127° 21.72							Loop chl #58 not.
22	QCS2	0833	ROS	BE	161	50° 46.60	127° 02.24	220				ST		
		0837		BO		50° 46.58	127° 02.27		215	335-346	12			
		0849		EN		50° 46.60	127° 02.29							
		0834	loop 59		162	50° 46.59	127° 02.27							loop #59, chloro, salinity
22	QCS1.5	0936	ROS	BE	163	50° 42.84	126° 55.49	145						
		0939		BO		50° 42.82	126° 55.48		140	347-356	10			pinger not showing up
		0948		EN		50° 42.89	126° 55.54							
		09:37	loop 60		164	50° 42.82	126° 55.48							loop #60, chloro, nutrients
	QCS1.0	1040	ROS	BE	165	50° 40.09	126° 46.30	155						Bottle 3 replaced -
		1044	1	BO	1	50° 40.10	126° 46.24		150	357-366	10			spring broke off -
		1053	1	EN	1	50° 40.08	126° 46.13							
		10:42	Loop		166	50° 40.10	126° 46.27							loop #61, chlorophyll
			Ro		167									

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Month					Year			Ship				Cruise ID			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
22	JSD1	12:19	ROS	BE	167	50° 32.99	126° 45.94	460	455	367-382	16	-			
1		12:26		BO		50° 33.03	126° 45.96								
1		12:57		EN		50° 32.88	126° 46.19								
22	JSD1		Loop#62	-	168	50° 32.99	126° 45.94	460	-	-	-				loop 62 chloro
22	TC_04	16:23	MOR	RE	169			236-238							Release side ent 0923 local
22	TC_05	19:59	MOR	DE	170	50° 49.299	126° 23.642	228-231	146 scanner (questionable)						Anchor released 12:58 228-231 m 146 scanner
22	TC-05	18:28	loop 63		171										loop 63 chloro.
22	TC-05	20:03	restarted	TSG	172	50° 49.23	126° 23.66								TSG file ⇒ #5
23	FIS	00:55	ROS	BE	172	50° 47.08	126° 36.6	325	320	383-397	15	-			
1		01:00		BO		50° 47.06	126° 36.65					-			
1		01:26		EN		50° 46.99	126° 36.41					-			
23	FIS		Loop#64		173										
23	TRC3.0	3:37	LTD	BE	175	50° 48.89	126° 25.35	238	230	-	-	Day			174 skipped.
1				BO											
1		3:39		EN		50° 48.89	126° 25.33								
23	TRC3.0	3:26	loop#65	-	176	50° 48.87	126° 25.35								loop 65 net/phl
23	TYRC2S	04:07	ROS	BE	177	50° 50.34	126° 19.68	293	285	398-409	12	-	-		bottles.

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only 12
bottles
here.

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Additional comments

Tribune Channel Recovery May 22, 2003

0850 2 cables off mooring TC4 (to the west of mooring)

ranges 1460-1600 m moved to mooring site 0907

- moved over top of mooring and acquired good range ~260m. on old range unit + half mooring x distance
never range unit with x distance over side gase ~600m range

- moved to NE of mooring site by 2 cables + sent release code - on surface

RCM #432 0946 AM local out of water. V#445

8305

0951

432

8530

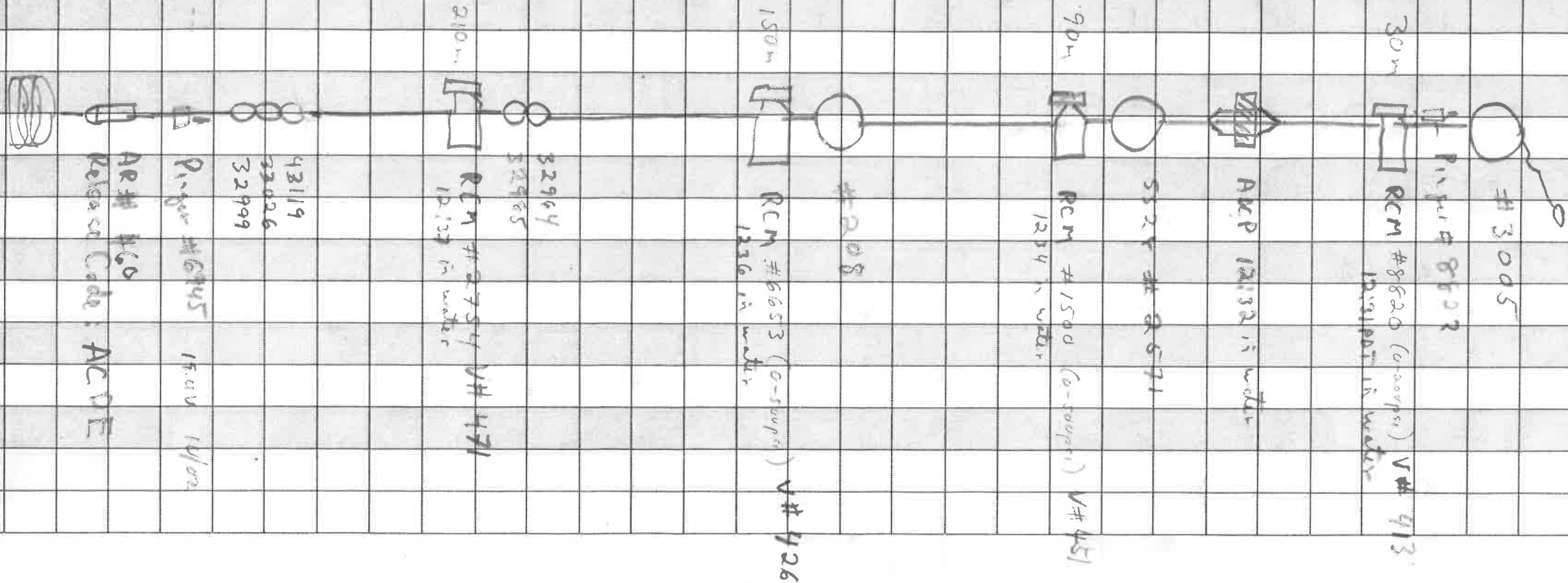
0953

452

SV# 0755

0957

415



May 22 2003

00 Listen with AR gear for FS7 moving while heading east from fite to Tribune during CTD/ROS

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Ocean Sciences and Productivity Division

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Month					Year			Ship				Cruise ID		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
23	TRC2.5	04:07	ROS	BOT	177	50 50.33	126 19.6				12	Rera		Sample dl
		04:22	"	END		50 50.42	126 19.48			3918-411	12			12 bottles
23	BOS11	05:17	CTD	BE	178	50 51.78	126 10.79	119#	113					CTD only
		05:22		EN		50 51.79	126 10.80							
23	TRC2	05:52	CTD	BE	179	50 49.23	126 12.67	208	200		1			Sample of ugols @ 0
		06:00		EN		50 49.26	126 12.72				1			"
23	TRC1.5	06:44	CTD	BE	180	50 45.52	126 9.06	237	220					CTD only
		06:50		EN		50 45.53	126 9.12				1			
23	TS1	07:35	CTD	BE	181	50°47.22	126°02.29	165				ST		CTD ONLY
		07:38		BO		50°47.22	126°02.24		160					
		07:40		EN		50°47.22	126°02.25				14			
		7:35	Loop 66		182	50°47.22	126°02.29							chl, temp, salinity
23	TrC1	08:28	BOS	BE	183	50°43.60	126°10.87	283						
		08:33		BO		50°43.64	126°10.79		276			ST		
		08:46		EN		50°43.73	126°10.66							
		08:51	loop 67		184	50°43.62	126°10.83							chlora

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>MAY</i>					Year <i>2003</i>			Ship <i>Tully</i>				Cruise ID <i>2003-15</i>		
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments
						Latitude	Longitude							
23	TC 05	0937	CTD	BE	185	50°41.04	126°14.69	153				ST		about 1/2 cables off station - due to strong current pushing us too close to the rocks.
		0941		BO	1	50°41.04	126°14.65		148					
		0944		EN	1	50°41.04	126°14.63							chlora, nutrient
		09:39	loop8		186	50°41.04	126°14.67							
23	Kn2	1017	ROS	BE	187	50°39.32	126°10.98	184	180	424-434	11	ST	✓	
		1020		BO	1	50°39.31	126°11.00		1	1	1			
		1034		EN	1	50°39.29	126°11.01		1	1	1			
		10:18	loop8		188	50°39.30	126°11.00		—	—	—			chlora
23	Kn1	11:32	ROS	BE	189	50°38.113	126°25.342	250	245	—				
		11:36		BO	1	50°38.11	126°25.34		1	435-447	13			
		11:56		EN	1	50°38.12	126°25.30		1	—				
23	KN03	1715	CTD	BE	190	50 40.12	126° 4.00	185				DY	✓	chlora, salinity
		1718		BO	1	50 40.07	126 4.01		180					
		1722		EN	1	50 40.01	126 3.95							
23	KN04	1810	ROS	BE	191	50 40.78	125 56.20	450		448-462	15			files 177-189 have incorrect name (previous cruise ID)
		1815		BO	1	50 40.78	125 56.22		435					
		1834		EN	1	50 40.77	125 56.23							
	Kn05	1920		BE	192	50 41 592	125 47 114	389		—	—	DSS	✓	
		1929		BO		50 41 58	125 47 07		380					

Cast type:

BOT = bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
NET = net haul
DRF = drifter

• bottle firing method:

• US = up / stop
• UN = up / no stop
• DN = down / no stop

• Time Code

• BE = beginning time of cast
• BO = bottom time of cast
• EN = end of cast time

DE = deployment time

MR = messenger release time
RE = recover mooring time

Transmissometer to be cleaned for each cast, do not use Ammonia products

22 March 2002
Daily_log_book.doc

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>May</i>					Year			Ship				Cruise ID			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude	Longitude								
	KN05	1933		EN	192	50°41.57	125°46.99								
23	KN07	2052	ROS	BE	193	50°48.06	125°37.30	514	510	463-478	16	ST			
1	1	2059	1	BO	1	50°48.09	125°37.31		510						
1	1	2118	1	EN	1	50°48.08	125°37.32								
23	WofSill	23:20	NET	BE	194	50°41.39	126°1.13	140	115					BioNess w/af Sill	
24	KN09	3:11	CTD	BE	195	50°54.26	125°32.83								
1	1	03:22	1	BO		50°54.25	125°32.85					SK			
1	1	0326		EN		50°54.27	125°32.89								
24	KN11	4:32	ROS	BE	196	51°24.49	125°34.08	206		479-490		R-E		12 bottles.	
1	1	4:34	1	BO	1	51°2.50	125°34.09	209	200						
1	1	0450	1	EN	1	51°2.50	125°34.06								
24	Knight ADCP	15:27	MOR	DRAG	197	50°	126°			1100m of drag line laid out				Start of drag.	
	"	1600	MOR	DRAG	1	50°40.271	126° 2.153			Retrieving drag line					
	"	1612	MOR	DRAG	1					hard hat on surface				-only one hard hat recovered	
														no acoustic release	
24	Knight ADCP	1722	MOR	DRAG	198	50°40.372	126° 02.068			1100m of drag line laid out				started drag	
		1749	MOR	DRAG	1	50°40.254	126° 02.100			Retrieving drag line				no luck - we missed	
					1										

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						Latitude	Longitude							
25	PP1	00:49	ROS	BE	199	50° 48.78	126° 31.44	140	135	491-500	10			
		00:53		BO		50° 48.73	126° 31.50							
		01:08		EN		50° 48.71	126° 31.60							
25	Kind	01:53	ROS	BE	200	50° 51.69	126° 37.14	400	395	501-515	15			
		01:59		BO		50° 51.68	126° 37.13							
		02:26		EN		50° 51.68	126° 37.15							
25	WP	0404	ROS	BE	201	50° 50.85	126° 56.35	179		516-526	11			
		0407		BO		50° 50.84	126° 56.37		174					
		0418		EN		50° 50.84	126° 56.40							
25														