

DAILY LOG BOOK

MISSION
NUMBER

2006 - 20

DATE:

VESSEL:

PROJECT:

From:

to:

Grizzly Coast

Methodologies for sampling sea lice distributions
in the Broughton Archipelago

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

Captain: Dan Dwyer First Officer: N/A
Second Officer: N/A Third Officer: N/A

Mission Participants / Agencies: DFO / Mainstream / UVic / SFU

Scientific Personnel:

[illegible]

Second leg of Mission:

Party Chief:

Name	Watch	Cabin
Darren Tule	{ Week 2 (24-28 April)	
Nancy Galbraith		
Christina Gulbransen		
Jeff Scott		
Gord Gulbransen		

Name	Watch	Cabin
Farm Operators		
Brice (manager)		
Trevor		
Don		

Data logging computer:

Data acquisition program: *Sechard*
CTD deck unit make: *N/A* model: *SB E-25* serial number: *0334*

Primary CTD

Make: Seabird model: 25-02 serial number: 0334

Primary temperature serial number: _____

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer:	Model:	s/n:			
Fluorometer: Model	Cable gain:	s/n:			P, S or NO pump?
Oxygen sensor:	Model:	s/n:	047		P, S or NO pump?
PAR sensor:	Model:	s/n:	Pressure 344		
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?

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer:	_____	Model:	_____	s/n:	_____	
Fluorometer:	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:	_____	
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):

Week 1

DAILY LOG

Ocean Sciences and Productivity Division

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Month <u>April</u>				Year <u>2006</u>				Ship <u>GRIZZLY COAST</u>				Cruise ID <u>2006-20</u>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
10	BW1	1101	BE	CTD ✓	vp 1000	1	50 47 714	126 29 635	110						
		1111	BO				50 47 695	126 29 635	104	93					
		1116	EN				50 47 690	126 29 642							
	BW2	1125	BE	CTD ✓		2	50 47 766	126 29 914	155						
		1135	BO				50 47 781	126 29 934	156	143					with cal @ 100m
			EN				50 47 793	126 29 950							No trip on Niskin
	BWN1	1154	BE	Net		3	50 47 614	126 29 533	45m						Tow SE-NW
		1205	EN				50 47 876	126 29 596	92m						
	BLON2	1221	BE	Net		4	50 47 624	126 29 745	139						Tow SE-NW
		1232	EN				50 47 754	126 29 922	151						
	VSN1	1431	BE	Net		5	50 47 430	126 24 725	24						
		1450	EN				50 47 431	126 24 079	7						
	VSN2	1501	BE	Net		6	50 47 410	126 24 170	17						
		1514	EN				50 47 286	126 24 208	12						
	VS1	1534	BE	CTD ✓		7	50 47 256	126 25 976	129						
		1544	BO				50 47 245	126 25 964	128	120					Sal. cal @ 120m
		1558	EN				50 47 230	126 25 987	126						No trip
	VSN3	1612	BE	Net		8	50 47 162	126 22 870	5.7						Surf. CTD
		1638	EN				50 47 130	126 23 729	10.3						during net tow

Cast type:

BOT = bottle cast, no CTD
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ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

US = up / stop
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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Monday April 10 2006 - Burdwood Farm 2006-20 - times ~~Week 1~~ ~~PDT~~ Week 1
→ PDT

BW1 - CTD. Soak @ Surface 3min. then cast

BW2 - CTD & Niskin @ 100m - no trip

BWN1 - Net Tow

BWN2 - Net Tow

1240 - head back to Burdwood to process nets / down land CTD / lunch

1400 - LV Burdwood to Viner Sound. Net tows on beach $\approx$ 30' off rocks

- 2 net tows on Northern shoreline

- CTD centre channel Viner Sound VS1

1535 - VS1 CTD 2 10m then back to Surface. Put on Niskin bottle @ CTD for Cal.

- Cast down

- Small fish jumping on beach - 5047138 126 ~~126~~ ^{23 160}

1627 - Viner Sound CTD hanging from cleat - Surface profile CTD

- 1630 Small fish near shore jumping

VS03

DAILY LOG

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Month April 08				Year 2006			Ship Grizzly Coast				Cruise ID 2006-20				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
10	VS2	1627	BE	CTD		9	50 47 54	126 23 337	4.5						CTD Hor. Profile
			EN				50 47 130	126 23 729	10.3						at surface
10	VSU4	1705	BE	NET		10	50 47 16	126 23 096	11.3						Net tow
		1710	EN				50 47 138	126 23 271	5.9						where fish were
11	BWN3	0911	BE	NET		11	50 47 986	126 29 864	8.5						Tow @ Surf
		0916	EN				50 47 870	126 29 754	130						from North to South
11	BWN4	0941	BE	NET		12	50 47 833	126 29 617	9.3	50					Vertical 50m by MORT Pen
11	BWN5	1002	BE	NET		13	50 47 789	126 29 906	150	50	BWN5 Vertical Tow				
	BWN6	1017	BE	NET		14	50 47 710	126 29 600	33	30	Vert. Net tow				
11	BW3	1032	BE	CTD		5	15	50 47 682	126 30 216	159					Fish jumping (1/1)
		1042	BO					50 47 661	126 30 163	157	140	BW3	1		Cal-bottle 1m above CTD
		1050	EN					50 47 639	126 30 121						
11	BWN7	1102	BE	NET		16	50 47 889	126 29 792	135						Horiz. tow - 2/3m
11	TSN1	1242	BE	Net		17	50 46 233	126 06 096	13.1						Thompson Sand
		1247	EN				50 46 158	126 07 065	23						5min. tow
11	TSN2	1324	BE	Net		18	50 47 937	126 01 444	4m						Tow @ head
11		1330	EN				50 47 949	126 01 252	10						
11															

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Ap 10 Monday

1710 - went back + towed where fish jumping @ beach - 5 min. tow
 1740 - Clean nets - run back to Burdwood

CTDs	STN	Depth	Temp	Sal	DO ml/l
	BW1	1	9.147	28.83	9.14
	BW2	1	8.734	29.50	8.7
	US1	1	9.875	29.24	6.3
	US2	1.4	10.176	28.12	4.2 5.6

April 11 Tuesday

BW3 Towed @ surface to south, towards house
 BW4 Vertical net tow, MORT pen area 50m
 BW5 Vertical net tow, off feed shed quad. 50m
 BW6 Vertical net tow,
 BW3 1043 messenger $\approx$ 140m

BW7 - Horiz. tow towards farm, depth of tow +2-3m

1150 - left Burdwood farm heading to Thompson Sound
 $\approx$ 1210 - porpoises around Glacier farm - 10 - white sided
 TSN1 - London point towing to West out of Thompson Sound

Week 1

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							Latitude	Longitude							
11	TS1	1330	BE	CTD	6	19	50 47 949	126 01 252		10					CTD @ Surf.
		1346	EN				50 47 736	126 00 843							
11	TSN3	1452	BE	Net		20	50 47 908	126 01 836		10.5					Net haul 0-2m
		1457	EN				50 47 805	126 01 931		6.0					haul to west
	TSN4	1504	BE	Net		21	50 47 783	126 01 951		9.6					Net haul 0-2
		1509	EN				50 47 869	126 01 868		8.0					haul to East
11	TrC1.5	1555	BE	CTD	7	22	50 45 573	126 08 937	221						
		1558	BO				✓	✓							
		1613	EN				✓	✓							
11	TrC2	1649	BE	CTD	8	23	50 49 436	126 12 689	259						
			BO							143					
		1651	EN				50 49 313	126 12 745							
11	BSN1	1705	BE	Net		24	50 50	126 11							Band Sand
		1710	EN				50 50 729	126 11 472							Northern shore
11	BSN2	1734	BE	NET		25	50 51 789	126 09 913	10						Lots of birds
		1739	EN				50 51 893	126 09 890							on NE shore @ head
12	BW4	0900	BE	CTD	9	26									Inter calibration
			EN												at Birdwood Farm

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Tuesday April 11 2006

Thompson Sound

TSU2 - net tow 1324 - 1330

TS1 - CTD - hung from boat @ 1m - 1330, hanging from cleat mid ship STB side
 - pulled out at camp dock M^cAlister Creek
 - went in to check out trappers camp @ M^cAlister Creek
 1435 - check crab traps off Creek. Lots of traps in water

1735 - BSU2 - Saw many Mergansers, buffle heads, Franklin gulls eating mussels on rocks $\approx$ 500

1845 - tied up at farm

Wed April 12

BW4

0900

Dock Calibration Seabird & Oxy Probe

0904

at 5m mark on Oxy probe. Using 27 ppt sal Oxy probe reads = 9.6 ppm DO 8.0°C

0910

stop at end of Oxy Probe wire. Using 29 ppt sal Oxy probe reads = 9.5 ppm DO 8.0°C (7.9)

0912

drew sal. Sample from Mainstream bottle & measured Sal. on Enviro meter $\approx$ 28.15 ppt

Sal cal for IOS = BW4 salinity sample

BW4

SBE 25 - Processed Data

5m 8.1°C 3.8 ml/l DO 30.54 Sal

10m 7.9°C 3.9 ml/l DO 30.72 Sal

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
12	TFC 2.5	1005	BE	CTD	10	27	50 50415	126 19 743	—						
		1014	BO				50 50419	126 19 705							
		1020	EN				50 50433	126 19 601							
12	TFC 3	1134	BE	CTD	11	28	50 48960	126 25 354	—						10° curve
		1143	BO				50 49050	126 25 218							
		1153	EN				50 49011	126 25 118							
12	TFC 3N	1157	BE	Net		29	50 48985	126 25 351							Vert Net tow
		1159	EN				50 48996	126 25 337							50m - 0 10° wire
12	PP 1N	1226	BE	Net		30	50 48881	126 31 493	110						
		1230	EN				50 48886	126 31 462							
12	PP 1	1240	BE	CTD	12	31	50 48826	126 31 517	109						mid ship @ 1m
		1249	BO				50 48845	126 31 469							
		1257	EN				50 48914	126 31 222							
12	SPN 1	1512	BE	Net		32	50 47318	126 35 375	19						
		1517	EN				50 47352	126 35 210	8.3						
12	SP 1	1512	BE	CTD	13	33	50 47318	126 35 375	19						
		1539	EN				50 47307	126 35 333	35						
12	SPN 2	1527	BE	NET		34	50 47362	126 35 300	1.0						* check label event # should be 34
	SPN 2	1537	EN				50 47347	126 35 321							

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April 12 2006

0925 - Leave Burdwood on Griz Coast, go find Zodiac

1030 - met people on beach 2 miles west Gormely Pt. doing beach seine for Marty
will meet tonite @ Alexandria's old house Echo Bay

1106 - rescue mission complete. Mowu & Pat from Burdwood Group w/ dead zodiac

1121 - Drop off Mowu & zodiac & Pat. Burdwood crew change boats showing up. Dan & I left
to hit the TC CTD STNS.

1134 - @ TRC 3 CTD & Net to 50m

1430 - Fuel at Echo Bay. Talked to Marty. He suggested tow areas based on his trip/life catch

1515 - Sharp Point Bay - dragged tow along shore event #32 with CTD in water @
1m. Did 3 tows from beach out. From 3m - out very shallow, towed
off shore. 3 tows event #34 all in one sample jar

1539 - Raked CTD out of water, clam in net tow

DAILY LOG

Ocean Sciences and Productivity Division

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Month April (PDI)				Year 2006		Ship Grizzly Coast				Cruise ID 2006 20					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
12	RIN1	1604	BE	Net		35	50 45 735	126 32 764	4						bay east of
			EN				50 45 700	126 32 643							Ragged IS
12	RI1	1604	BE	CTD	14	36	50 45 735	126 32 764	4						bay between
		1634	EN				50 45 724	126 32 709	10.4						fire Rk - Ragged Bay
12	RIU2	1626	BE	NET		37	50 45 708	126 32 718							nose to beach
		1632	EN				50 45 714	126 32 744							x3
12	RI2	1654	BE	CTD	15	38	50 47 066	126 30 077							Denton IS.
		1714	EN				50 47 056	126 29 839							Village Pt. CTD
12	VIN1	1654	BE	NET		39	50 47 066	126 30 077							fast beach tow
		1658	EN				50 47 071	126 29 878							Village IS 0m
12	VIN2	1708	BE	NET		40	50 47 076	126 30 063 = 126° 30.063							fast tow Vill. IS
		1714	EN				50 47 069	126 29 867							2m
12	ISA	0904	BE	NET		41									Island A beach tow
		0909	EN												1m from shore
12	ISA	0931	BE	NET		42									tow from A → B
		0935	EN												kind back of islands
12	ISF	0951	BE			43									NE tip tow
		0956	EN												1m off beach - fish

Moya Zoellac Sampling

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April 12 2006

1539 - After doing beach tows off Pearce Peninsula, Sharp Pt. bay, ran over to Baker Island and sampled bay between Ragged Island and Fire Rock.
 - RI stns - towed parallel to beach for RIN1 then did beach out tows from 0-10m water depth. - RIN2

1654 - CTD @ 1m - Denton Is - Village Pt

- VIN1 net tow 1.5 km by GPS + 2 km cast @ Surface 0-0.5m
 - VIN2 ✓ cast at 2m+

doing faster tows, based on Marty's recommendation we're going to slow for 1ice

1654 - Denton IS (Village Pt)

1733 - Clean up VIN2 net tow and head for Burdwood Farm
 arrive at Farm 1800. Logs then upload CTD data

2100 - called Alex on phone + VHF. LEFT message, no answer, will try to meet Monty in am.

Week 1

DAILY LOG

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Month		Year		Ship		Cruise ID									
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
13	RP1	0828	BE	CTD	✓	44	50 47 49	126 31 054	216						Raleigh Pass CTD
		0839	BO				50 47 47	126 31 319		143		1			Sol Cal.
		0848	EN				50 47 46	126 31 490	187						
13	HP2	0901	BE	CTD	✓	45	50 47 00	126 28 406	160						CTD cal
		0904	BO				50 46 98	126 28 459		143					SAL
		0919	EN				50 46 95	126 28 787	163						
13	WL1	0931	BE	CTD	✓	46	50 48 31	126 26 545	185						
		0934	BO				50 48 30	126 26 618	151						
		0943	EN				50 48 258	126 26 804	84						

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April 13 2006
0815

- Leave Gudwood Farm for Raleigh Pass CTD

RP CTD & Cal Sal - dip from 5000 T

HPZ CTD & Cal Sal 0930 WP1 CTD

0950 - Head back to BW Farm

2006-20

Week 2

Monday April 24 145L - Ios to Courtenay to pick up weather station case from Richard

1500 - met Richard 3pm in Courtenay

1800 - arrive Port McNeill, loaded Griz headed out.

1900 - weather east of Malcom Spit, huge sea state, turned to head back to McNeill through Weynton Pass then up Johnston St

2100 - Back at dock @ McNeill - called Bruce, left message
Checked in Haida Inn

Tues April 25 0730 - met @ Griz wind still up, sit wait.
0900 - Sooke Post heading out to Knight Inlet, reported seas OK

0930 - Griz fired up, try to cross, seems good :-

1050 - Echo Bay for fuel

1150 - Done fuel 30 gal. head to Monty's

noon - @ Monty's talked forage fish - fish lie counts lower than past weeks

100 - head to burdwood arrive 115. Bruce contacted for tie up spot for Griz

Setting up gear for Tribune di tow, new nets

testing CTD with new con. file. Sent IL command to erase test files done @ Ios Lab

2pm - turned on mag. switch on CTD for cast @ Good to Go. Put CTD in QS

1500 - Left for 1500 for Gormely Pt area to tow from Al. boat & Griz

1520 - Arrive Gormely Pt. Drop off Moura & Jeff @ 73 m spot to tow East

Griz

3 - Tow yo Slow

1 - unt 1-CTD

Al - Slow 0 - 5m ~ 0 m from beach, 10' from beach 20' from beach

Week 2

DAILY LOG

Ocean Sciences and Productivity Division

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Month <u>April (PST)</u>				Year <u>2006</u>				Ship <u>Grizzly Coast</u>				Cruise ID <u>2006-20</u>																	
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments														
							Latitude	Longitude																					
25	GPN1	351	BE	Net	up load #	47	50 50 24	126 22 297	6m						Griz tow 1														
		356	EN				50 50 262	126 22 186	10																				
	GPN2	414	BE	Net		48	50 50 262	126 22 160	14						Griz tow 2														
		419	EN				50 50 271	126 22 062	12																				
	GPN3	431	BE	Net		49	50 50 278	126 22 038	14						Griz tow 3														
		436	EN				50 50 293	126 21 945	4																				
	GPN4	1552		Net		50									Al. Boat tow1														
		1557																											
	GPN5	1609		Net		51									Al Boat tow2														
		1614																											
	GPN6	1626		Net		52									Al Boat Tow3														
		1631																											
	GPN7	1707	BE	Net		53	50 50 426	126 21 148	103						Vert. net 50m														
		1711	EN				50 50 439	126 21 108	105	50																			
	GP1	1714	BE	CTD	1	54	50 50 457	126 21 068	104						CTD														
		1725	BO				50 50 465	126 21 061		68																			
		1730	EN				50 50 469	126 21 049	66																				
	TST	1900	DE			55	50 46 237	126 04 487	16																				

Cast type:

ISW = sea water loop

bottle firing method:

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Tues April 25 2006 - 20

- Maura towing net Tribune Ch. west of Gormely Pt between 2 creeks, 73m & 139m on chart 3515
- Griz coast tow upstream to east from creek @ 181m to 73m Al. boat creek site
- | | | | | |
|-------|--------|------------------------|--------|--|
| Tow 1 | 211376 | start #3 on flow meter | 212172 | out after 5 min |
| Tow 2 | 212172 | | 212642 | |
| Tow 3 | 212642 | | 213133 | ~ added 3rd tie to flow meter to centre it |

- Tows event # 50, 51, 52 done from aluminum boat on shore
- 5pm Pick up Al. boat, stow on board Griz
- 530 - Did Vint net haul & CTD off tow area - head to Thompson Sound 533
- #1 - Light trap set up, Thompson Sound, on small floating dock - 1630 @ dock - on beach
- 1840 - Leave Thompson Sound dock for Cedar Block Shack
- 1900 - put 2 light traps in @ cedar shack 1m & 2m

Week 2

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Institute of Ocean Sciences														
Month		Year		Ship		Cruise ID								
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude						
25	TST	1912	BE	CTD	2	56	50 46 249	126 04 473	11					CTD @ Shack
		1919	BO				50 46	126 04	13					Thompson Sound Traps
		1920	EN				50 46	126 04	11					
26	VI 1	1028	BE	CTD	3	57	50 43 361	126 13 766	108					Viscount Is
		1037	BO				50 43 362	126 13 760	105					Northern shoreline
		1040	EN				50 43 361	126 13 760	99					
	VI 2	1049	BE	CTD	4	58	50 42 995	126 13 519	213					Centre channel
		1056	BO				50 42 965	126 13 717	220					
		1102	EN				50 42 948	126 13 819	224					
	VI 3	1112	BE	CTD	5	59	50 42 653	126 13 128	66					Viscount Island
		1116	BO				50 42 631	126 13 134	38					NW beach CTD
		1117	EN				50 42 623	126 13 130	26					
	VIU 1	1129	BE	NET		60	50 43 332	126 14 031	7					Horiz. Net
		1134	EN				50 43 372	126 13 979	15					
	VIU 2	1142	BE	NET		61	50 43 376	126 13 962	10					Horiz. Net
		1147	EN				50 43 403	126 13 903	7					
	HRN 1	1203	BE	NET		62	50 42 227	126 14 487	32					Vert. Net
		1205	EN				50 42 278	126 14 501	12					Humphreys BK

Cast type:

USW = sea water loop

bottle firing method:

Time Code

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 time of cast
DE = deployment time
MR = messenger release time
RE = recover mooring time

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

28 May 2003

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April 25 2006, Tuesday

- 1900- ^{#1} @ Cedar Shack in Thompson Sound. Deployed 2 light traps
- did CTD @ Shack. Turned on @ surface for 3 minutes, pulled sensor end of CTD to surface to ensure good data from actual surface to $\approx 10m$
- 1920- Leave Cedar Shack for Burdwood or Echo bay?
- 2000- called Marty on 68 no answer
- 2030- @ Marty's house. went up to talk about sampling strategy & lice counts
- lice #s down. Caught fish off Humphrey Rock farm. We will try to sample
- 2145- nets there in the morning. Left Marty's 2130 @ Burdwood 2145
- 2200- Moira looking thru samples
- 2210- ~~x~~ Pulled data off CTD. Left in QS state.

Wednesday April 26

- 0903- Left Burdwood farm to Thompson Sound. Overcast rain/drizzle
- 1000- at Cedar Shack to check light traps. 11.8 volts on both so left on
- 1010- Lu Shack for bay 1 mile NW of Viscount Is.
- 1030- Start Viscount Island CTD line.
- 1130- Net tows VIN1, VIN2, HRN1
- 1210- Lu HR for Thompson Sound light traps
- 1240- Cedar Shack pull traps. Leave Cedar Shack 1:05 pm, Head Burdwood
- 1:55 back @ Farm

Week 2

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month April (2001)			Year Upload #				Ship Gryzzly Coast				Cruise ID 2006-26				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
26	BWG1	918		net		63									
		923													
	BWG2	944		net		64									Fish @ site = 500
		949													
	BWG3	1023		net		65									Fish @ site = 300
		1028													
	BWF1	1253		net		66									
		1258													
	BWF2	1303		net		67									Fish @ site = 200
		1308													
	BWF3	1316		net		68									
		1321													
26	BP1	450*	BE	CTD	6	69	50 48 825	126 31 621	deep						CTD & Sal. Cal.
	PP1	501*	BO				50 48 833	126 31 797							PP1
	PP1	508*	EN				50 48 831	126 31 909	146						

Position
for Kona net
tows?

Cast type:

BOT = bottle cast, no CTD
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ROS = Rosette plus CTD

USW = sea water loop

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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
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EN = end time of cast

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

28 May 2003

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April 26 2006

505 - PPI CTD cal Sal

530 - To Echo Bay for fuel, called Walker Rock.

620 - Walker Rk 08 UHF

UHF
Ch 08

645 - done fuel, over to Walker Rock talk to Dough Henderson + Oline

730 - Leave Echo Bay for Burdwood, Moira to be ready for 0600
SKFT will come in to pick her up.

* These times appear to be p.m. PDT should be 16:50 PDT G.Gation
17:01 PDT
17:08 PDT

DAILY LOG

Ocean Sciences and Productivity Division

403 987 6513
Week 2
INSTITUTE OF OCEAN SCIENCES

Month <i>April</i> (PDT)				Year <i>2006</i> <i>upload #</i>			Ship <i>Guzzly Coast</i>				Cruise ID <i>200620</i>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
<i>27</i>	<i>BW2</i>	<i>821</i>	<i>BE</i>	<i>CTD</i>	<i>7</i>	<i>70</i>	<i>50 47 948</i>	<i>126 29 976</i>	<i>151</i>						<i>Burwood 2</i>
		<i>830</i>	<i>BO</i>				<i>50 47 723</i>	<i>126 30 132</i>							<i>CTD site</i>
		<i>836</i>	<i>EN</i>				<i>50 47 715</i>	<i>126 30 218</i>							
	<i>BW1</i>	<i>844</i>	<i>BE</i>	<i>CTD</i>	<i>8</i>	<i>? *</i>	<i>50 47 724</i>	<i>126 29 608</i>	<i>80</i>						
		<i>848</i>	<i>BO</i>				<i>50 47 734</i>	<i>126 29 608</i>	<i>70</i>						
		<i>853</i>	<i>EN</i>				<i>50 47 743</i>	<i>126 29 594</i>	<i>34</i>						
	<i>BW1</i>	<i>905</i>	<i>BE</i>	<i>Net</i>		<i>71</i>	<i>50 47 634</i>	<i>126 29 528</i>	<i>19</i>						<i>Horiz. net haul</i>
		<i>910</i>	<i>EN</i>				<i>50 47 640</i>	<i>126 29 415</i>	<i>25</i>						
	<i>BW2</i>	<i>927</i>	<i>BE</i>	<i>Net</i>		<i>72</i>	<i>50 47 626</i>	<i>126 29 757</i>	<i>136</i>						<i>Horiz. net haul</i>
		<i>933</i>	<i>EN</i>				<i>50 47 720</i>	<i>126 29 806</i>	<i>134</i>						
	<i>USU1</i>	<i>10:11</i>	<i>BE</i>	<i>Net</i>		<i>73</i>	<i>50 47 43</i>	<i>126 24 722</i>	<i>13</i>						<i>Horiz. net tow</i>
		<i>1016</i>	<i>EN</i>				<i>50 47 418</i>	<i>126 24 596</i>	<i>23</i>						
	<i>USU2</i>	<i>1027</i>	<i>BE</i>	<i>Net</i>		<i>74</i>	<i>50 47 407</i>	<i>126 24 167</i>	<i>16</i>						<i>Horiz. net tow</i>
		<i>1032</i>	<i>EN</i>				<i>50 47 443</i>	<i>126 24 041</i>	<i>5</i>						
	<i>USU3</i>	<i>1101</i>	<i>BE</i>	<i>Net</i>		<i>75</i>	<i>50 47 161</i>	<i>126 22 905</i>	<i>11</i>						<i>Horiz. net tow</i>
		<i>1106</i>	<i>EN</i>				<i>50 47 091</i>	<i>126 22 997</i>	<i>10</i>						
	<i>US1</i>	<i>1120</i>	<i>BE</i>	<i>CTD</i>	<i>9</i>	<i>76</i>	<i>50 47 161</i>	<i>126 22 898</i>	<i>10</i>						<i>CTD @ Surface</i>
		<i>1124</i>	<i>BO</i>				<i>50 47 167</i>	<i>126 22 902</i>	<i>13</i>						
		<i>1125</i>	<i>EN</i>				<i>50 47 168</i>	<i>126 22 902</i>	<i>14</i>						

Cast type: USW = sea water loop bottle firing method: Time Code:

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

28 May 2003
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Thur
April 27 2006

Week 2

0800 - L. Farm for B&W1 CTD, went to B&W2 He did B&W1

0900 - Set up for Net trawls around Farm

1030 - Called Walker Rock Sat phone - no joy. Called UHF 08. Maura says seas - no fish

1130 - U51 CTD. Pooled sensors to surface for fresh water lease.
U52

* Assigned event # 71 to CTD cast. G. Gafien

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>April</u> (PDI)		Year <u>2006</u> <u>upload #</u>		Ship <u>Grizzly</u> <u>045</u>		Cruise ID <u>2006-20</u>									
Day	Station Name	Time (LTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
27	US2	1132	BE	CTD	10	77	50 47 152	126 23 358	9		Viner Sound				CTD + Surface
		1134	BO				50 47 182	126 23 410	21						
		1138	EN				50 47 192	126 23 423	23						
27	HPn1	216		Net		78	50 50 763	126 36 574	6						Hayes Pt
		221					50 50 666	126 36 471	7						tow SE
27	HPn2	232		Net		79	50 50 650	126 36 444	5						Back tow
		237					50 50 755	126 36 570	6						Same track
27	HPn3	253		Net		80	50 50 490	126 36 333	5						
		258					50 50 429	126 36 499	9						
27	HP	309	BE	CTD	11	81	50 50 476	126 36 292	9		Hayes Pt				Do not tow event numbers
		315	BO				50 50 465	126 36 251	42						
		316	EN				50 50 463	126 36 243	46						
27	MP	330	BE	CTD	12	82	50 50 729	126 38 476	192						Moore Pt CTD
		337	BO				50 50 660	126 38 260	286						in tide line
		343	EN				50 50 613	126 38 742	300						
27	MPn	353	BE	Net	Net	83	50 50 744	126 38 348	15						moore pt. tow
		358	EN				50 50 685	126 38 376	22						
27	SC	415	BE	CTD	CTD	84	50 51 130	126 40 138	Deep		Sutlej Channel				Sutlej centre
		432	EN		13		50 51 132	126 40 470							channel

Cast type:

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

April 27 2006 Thursday

Week 2

- 1130 - Under Sound CTD US2
1145 - Head back to Burdwood
1210 - Called David from farm, no answer 363-6599 656 6845
1245 - Trevor called Don for permission to deploy Live Traps on moat shed dock
~~1245~~ 145 - Leave Burdwood farm for Suttle area based on David conversation
- Tows in towards Sir Edmund Bay
310 - CTD off Hayes Pt. Pulled sensors to surface
320 - LV Sir Edmund for Moore Pt
415 - Suttle Channel CTD SO CAL
436 - Leave Suttle Channel for Burdwood
512 - Arrive Burdwood farm
520 - Set up for light traps on moat barge
530 - download CTD - Lost connection with SBE 25 during upload 9 VSI events 76

Events 78-84 Times probably p.m. PDT G. Gatién

Week 2 + 3

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Institute of Ocean Sciences															
Month <u>April / MAY</u>		Year <u>2006</u>					Ship <u>Grizly</u> <u>045</u>				Cruise ID <u>2006 20</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
<u>27</u>	<u>Mor7</u>	<u>(PAT)</u>		<u>Dep</u>		<u>85</u>									<u>Lice trap deploy</u>
															<u>1m, 2m, 3m, 4m</u>
		<u>0700</u>	<u>PAT</u>												<u>LEAVE AT 11:00</u>
<u>9</u>	<u>BWN 1</u>	<u>10:45</u>	<u>BE</u>	<u>HORIZ</u>		<u>86</u>	<u>50 47.93</u>	<u>126 30 19</u>	<u>132</u>		<u>BETWEEN LINES</u>		<u>DM</u>		
<u>9</u>	<u>BW 1</u>	<u>10:57</u>	<u>BE</u>	<u>CTD</u> ✓		<u>87</u>	<u>50 47 93</u>	<u>126 30 19</u>	<u>132</u>	<u>120</u>	<u>END OF ABOVE LINE</u>		<u>H.M</u>		<u>2006-20-034.hex</u>
<u>9</u>	<u>BWN 2</u>	<u>11:00</u>	<u>BE</u>	<u>HORIZ</u>		<u>88</u>	<u>50 47 92</u>	<u>126 30 187</u>	<u>132</u>		<u>BETWEEN LINES</u>		<u>DM</u>		<u>10:57 hrs 0034</u>
<u>9</u>	<u>BW 2</u>	<u>→</u>	<u>BO</u>	<u>1120</u>		<u>89</u>	<u>50 49 926</u>	<u>126 30 107</u>	<u>132</u>						<u>DID NOT RECORD</u>
		<u>CTD</u>	<u>BO</u>	<u>1125</u>											<u>?</u>
		<u>→</u>	<u>EN</u>	<u>1129</u>											
<u>9</u>	<u>BW 3</u>	<u>12:50</u>	<u>BE</u>	<u>CTD</u>		<u>90</u>	<u>50 47 847</u>	<u>126 29 572</u>	<u>63.8m</u>	<u>60m</u>					<u>Did not record</u>
		<u>12:53</u>	<u>BO</u>												<u>Initialized file</u>
		<u>12:56</u>	<u>EN</u>												
	<u>BWN 3</u>	<u>1:03</u>	<u>BE</u>	<u>NET</u>		<u>91</u>	<u>50 47 847</u>	<u>126 29 564</u>	<u>63.8m</u>	<u>60m</u>					<u>Vertical 0-55m</u>
		<u>1:07</u>	<u>EN</u>												<u>behind moor float</u>
<u>9th</u>	<u>BW 3</u>	<u>1:15</u>	<u>BE</u>	<u>CTD</u> <u>Re-try</u>	<u>1</u>	<u>92</u>	<u>50 47 852</u>	<u>126 29 576</u>	<u>64.7m</u>	<u>60m</u>	<u>(2006-20-007.hex)</u>				<u>CAST # 7 →</u>
		<u>1:17</u>	<u>BO</u>												
		<u>1:19</u>	<u>EN</u>												
Cast type: <u>ROT</u> = bottle cast, no CTD <u>USW</u> = sea water loop bottle firing method: Time Code															

Cast type:
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bottle firing method:
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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#2
840pm - Deploy Lice traps on Mort shed. 4 traps @ 1m, 2m, 3m, 4m
4 traps

Week 2 ↑

Week 3 ↓

MAY 9 - 0700 LV PT MICHEL FOR ECHO BAY TO ACK UP LIGHT TRAPS
- 0900 LV. ALEY MORTONS / MARTY'S FOR BORDWELL FARM

NOTE - 2 FAILED CASTS - COMPUTER WILL NOT TAKE 35 CASTS - STOPS AT 34 HAD TO REINITIALIZE
AFTER DOWNLOADING C-6 OF DARRENS CASTS
MY ORDER IS # 34 THEN # 7, 8 ETC.

Events 71 & 92 - Times are probably p.m. PDT should be 13:03 & 13:15 PDT G. Gatién

Week 3

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month May (POT)				Year 2006				Ship Grizzly Coast				Cruise ID 2006-20			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
9	BW 4	13:30	BE	CTD		93	50 47 821	126 29 899	154m	140m	(2006-20-008.hcy)				Cast 008 ✓
		13:35	BO												
		13:40	EN												
9	BW 4	13:43	BE	NET vertical		94	50 47 821	126 29 899	140?	100m					Vertical at Feed shed
		13:46	BO												
		13:49	EN												
9	BW 5	14:30	BE	CTD		95	50 48 181	126 29 568	155m	100m					(SITE) BW REF 2
		14:34	BO				50 48 180	126 29 649			(2006-20-009.hcy)				CAST 009 ✓
		14:38	EN												
9	BW 6	14:49	BE	CTD		96	50 48 218	126 28 205	145m	100m	(2006-20-010.hcy)				Cast 10 ✓
		14:53	BO												
		14:56	EN												
9	BW 7	15:07	BE	CTD		97	50 48 299	126 26 499	235m	100m					SITE WL 3 CAST 11
		15:11	BO												Did not work
		15:14	EN												

Cast type:

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Week 3

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>May (PDT)</i>		Year <i>2006</i>		Ship <i>Grizzly Coast</i>		Cruise ID <i>2006-20</i>									
Day	Station Name	Time UTC	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude N	Longitude W							
9	BW7 ¹⁰	15:19	BE	CTD		97	50 48.299	126 26.499	210m	100m					Re-try, Cast 11 [*]
		15:24	BO			RETRY									
		15:27	EN												
9	BW8	15:39	BE	CTD		98	50 47.000	126 28.349	161m	100m	(2006-20-011 hoy)				SITE HP 2 (4) ✓ CAST 11
		15:44	BO												
		15:47	EN												
9	BGAN-1	14:25	BE	NET		99	50 47.40	126 29.0							shoreline tow.
			EN				50 47.58	126 28.94							E. OF ISLAND 'A'
9	BGBN-1	14:51	BE	NET		100	50 47.467	126 28.759							Shoreline tow
			EN				50 47.556	126 28.676							E. OF ISLAND 'B'
9	BGEN-1	15:16	BE	NET		101	50 47.653	126 28.326							Shoreline tow.
		15:37	EN				50 47.703	126 27.877							N. OF ISLAND 'E'

Cast type: USW = sea water loop
 BOT = bottle cast, no CTD MOR = mooring
 CTD = CTD without Rosette NET = net haul
 ROS = Rosette plus CTD DRF = drifter

bottle firing method:
 US = up / stop
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28 May 2003
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- CTD Didn't work? NO DATA?

Light trap at Bardwood Farm Site, Mort Point

$50^{\circ} 47.847' 126^{\circ} 29.556' W$

from Christina's
email notes

Fully submersible trap at 3.5m

Regular trap at 1.5m

Traps in at 9-May 1700

Traps out at 10-May 0750

Horring in regular trap. Adult larva (Caligus sp?) found in this trap. Not possibly herring

FLOWMETER START 26622.2
END 26898.6

FLOWMETER START 26901.2
END 26998.0

FLOWMETER START 27011.2
END 27204.0

TOWS CLOSE TO SHORE, ALONG SHORELINE - WATER DEPTH 2m - TO GREATER THAN 5m.

Week 3

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month May (PDT)				Year 2006				Ship Grizzly Coast				Cruise ID 2006-20			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude N	Longitude W							
9	WATC	1800	BE	CTD		102	50 50 858	126 19.069	27	22	(2006-20-012.hex)				CAST #12 (5) ✓
			BO				"	"							
			EN				"	"							
10	TRC1	11:24	BE	CTD		103	50 50 618	126 18 430	45m	20m	(2006-20-013.hex)				CAST #13 (6) ✓
	**	11:27	BO												
		11:29	EN												
10	TRCNI	11:48	BE	NET		104	50 50 542	126 18 292		SURF					Tow = BIG BOAT
		11:58	EN				50 50 493	126 17 969							
10	(AHTA) ROSA SN	13:29	BE	NET		105	50 52 305	126 10 736	80m	20m Tow Yo					Tow Yo ACROSS AHTA
		13:42	GM				50 52 126	126 10 359							RIDGE MOUNT
	ROSD S1	13:50	BE	CTD		106	50 52 221	126 10 430	25	20	(2006-20-014.hex)				CAST #14 (7) ✓
		13:54	GM				50 52 22	126 10 430							
10	SP1	15:12	BE	CTD		107	50 42 223	126 11 954	23.8m	20m	(2006-20-015.hex)				CAST #15 (8) ✓
			BO												
		15:15	EN												

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MOR = mooring
 NET = net haul
 DRF = drifter

bottle firing method:

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 DN = down / no stop

Time Code

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(50° 50.858' N 126° 19.065' W)

- FISH FARM @ WATSON COVE - FOLLOWED CTD AT CORNER OF EMPTY PENS - LIGHT TRAP AT OPPOSITE CORNER

Birdwood

7 AM PULCA 2 LT TRAPS FROM VMOPT TANK - SERINGA - LOADED 2 MORE FOR SARGENTS PASS
+ CEDAR BLOCK DOCK (50° 47.847' N 126° 29.556' W)

** Site is not close to TrC1, it is closer to TrC1.5 so that station name was put in file headers.

- GRIZZLY COAST HYDRAULICS BROKEN - CTD TO 20m FROM ANCHOR CAPSTAN - NET TOW - HAND BOMB FROM STEAN

- BOND SOUND - ANITA RIVER - MET MARTY AND HIS CREW CATCHING COHO SMOLTS - HE GAUGED 2 LOUSE FROM
1 COHO

1330 - NET TOW-YO S ACROSS ANITA RIVER MOUTH

SP- SARGENTS PASSAGE - HUNG LIGHT TRAP FROM LOGGING RAMP/FLOAT @ 1500
(50° 42.223' N 126° 11.854' W)

Week 3

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month		May (PDT)		Year			2006			Ship		Grizzly Coast		Cruise ID		2006-20	
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments		
10	SPN1	15:16	BE	Net		108	50 42 223	126 11 854	25-30m	Tow Yo						Tow Yo	
		15:30	EN				50 42 726	126 11 812									
10	TSN1	1627	BE	Tow Yo		109	50 46 278	126 04 528	48	Tow Yo						Tow Yo off LT	
		1644	EN				50 46 476	126 04 120								METER SITE	
	TS1	17:01	BE	CTD		110	50 46 268	126 04 553	44	30	(2006-20-016.hev)					CAST #16 (9) ✓	
		17:04	BO														
11	VSN-1	0935	BE	Tow-Yo		111	50 47 186	126 22 854	3							Tow-Yo	
		0947	EN				50 47 182	126 23 333									
11	VS1	0855	BE	CTD		112	50 47 176	126 23 232			(2006-20-017.hev)					CAST #17 (10) ✓	
		0900	EN														
11	VSN-2	0907	BE	Tow Yo		113	50 47 161	126 23 205	15m	Tow Yo						Tow Yo	
		0928	EN				50 47 152	126 24 132	51m								
11	VS2	0931	BE	CTD		114	50 47 153	126 24 131	51m	42	(2006-20-018.hev)					CAST 18 (11) ✓	
		0936															

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SPN1 - SARGENTS PASSAGE NET STATION ONG

TS - LIGHT TRAP HUNG @ CEDAR BLOCK CAMP E 1606 (50° 46.229' N 126° 04.502' W)
11-May-2006 @ 1345 Trap out

- 2 CTD + 2 TOW-YO'S OUT OF VINEY SOUND - GOTO ECHO BAY FOR FUEL

FUEL @ ECHO BAY - HEAD TO LT TRAP PICK UP - SARGENTS PASS

- 1230 PICK UP & SERVICE S.B. LIGHT TRAP

- 1340 PICK UP & SERVICE CEDAR BLOCK LT. TRAP

50 46.229 / 126 04.497

Week 3

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month May (POT)			Year 2006				Ship Grizzly Coast				Cruise ID 2006-20				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
11	TRC N2	14:44	BC	Tow-Yo		115	50 46 767	126 11 418	18	Tow-Yo					Tow-Yo
		14:52	EN				50 46 839	126 11 653							
11	TRC 2	1500	BC	CTD		116	50 46 834	126 11.635	60						CAST 19 (12) ✓
	**	1504	EN				50 46 819	126 11.632							
11	FS N1	1721	BC	Tow-Yo		117	50 46.694	126 37.540							Tow-Yo REES 15.
		1733	EN				50 46.687	126 37.306							
	FS 1	1738	BC	CTD		118	50 46 678	126 37 296	17.4	17	(2006-20-020.hex)				CAST 20 (13) ✓
		1742	EN				50 46 660	126 37 300							
12	FS N2	09:24	BC	Tow-Yo		119	50 47 113	126 41 265	15.2	Tow-Yo					OUTSIDE WICKLOW PT
		09:39	EN				50 47 145	126 40 588							
	FS 2	0940	BC	CTD		120	50 47 152	126 40 818	44		(2006-20-021.hex)				CAST 21 (14) ✓
		0945	EN				50 47 162	126 40 820							

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- FIFE SOUND - WICKLOW PT - LIGHT TRAP HUNG AT 17:05 @ 1m IN 20m OF WATER
(50 47 285 / 126 41 645)

* * Site close to TrC2.5 so station name changed in file headers to TrC2.5.

12-May-2001

- 0900^{*} Pulled WICKLOW LT TRAP
* (0830 Christina's net)

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Week 3

INSTITUTE OF OCEAN SCIENCES															
Month		Year		Ship		Cruise ID									
May (PDT)		2006		Grizzly Coast		2006-20									
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
12	FSN 3	10 15	BE	Tow-Yo		121	50 46 865	126 33.278	42	Tow-Yo					Tow-Yo
		10 32	EN				50 46 879	126 32 597	13						
12	FS 3	10:40	BE	CTD		122	50 46 848	126 33 097	67.0	45					INITIALIZED (Removed @ 10:56)
		10:56	EN												CAST 22(0) ✓
															(2006-20-022.hex)
12	SSN 1	1236	BE	Tow-Yo		123	50 50 521	126 29 .222	38.2	Tow Yo					
		1250	EN				50 50 164	126 29.577	16						
															(23?) ✓
12	SS 1	1256	BE	CTD		124	50 50 167	126 29 527	84						CAST # 24(1) ✓
		1300	EN							40					(2006-20-023.hex)
12	SS N 2	13 12	BE	Tow Yo		125	50 49 722	126 30 825	18 m	Tow Yo					SURF → 6 m
		13 21	EN				50 49 733	126 31 139							
12	SS 2	1326	BE	CTD		126	50 49 740	126 31 045	32						(2006-20-024.hex) (cast #24) ✓
		1329	EN												

Cast type:
BOT = bottle cast, no CTD

USW = sea water loop
MOP = mooring

bottle firing method:
US

Time Code

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Week 3

INSTITUTE OF OCEAN SCIENCES

28 May 2003
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- HUNG 2 LT TRAPS FROM WICKLOW PT LOGGING CAMP @ 1645
13 May-2006 @ 09:00 Trap Out

($50^{\circ} 47.285'N$ $126^{\circ} 41.645'W$)

- HUNG 1 LT TRAP FROM BURDWOOD MART TANK @ 1730
13-May-2006 @ 07:50 Trap Out

($50^{\circ} 47.847'N$ $126^{\circ} 29.556'W$)