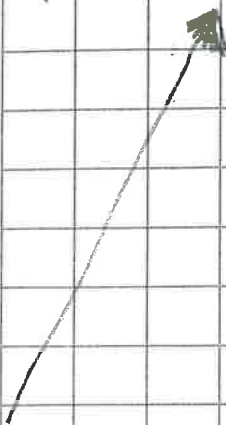


Aug.

9 XCTD #50-56 Event #s 45-51



DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year		Cast/Event		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							
9	CB-2	11:22	BE	Nets		/54	73°00.40	150°04.21		500m		Amanda		Formalin & Ethanol	
		11:41	EN				73°00.51	150°04.27							
9		12:50		DRF		/55								Bottle 163, 160, 161	
9	CB-3	13:37	BE	XCTD	UN	18/64	73°56.22'N	150°1.53'W	3800m	187 ~ 210	24			EMCTD Calibration Cast	
10		00:10	BO				73°55.58'N	150°0.92'W	3831m	+5 = 3836m				Beer Bottle 162, 164, 165	
		01:38	EN				73°55.18'N	150°0.67'W	3891m					surface 1100 = scan	
														NTskin 17 removed	
9	CB-3	22:41	BE	Nets		/65	73°56.22'N	150°01.560		100m				for EMCTD	
9		22:49	EN				73°56.155	150°01.462							
9	CB-3	23:09	BE	Nets		/66	73°56.056	150°01.161		100m					
9		23:33	EN				73°55.896	150°01.092							
9	CB-3	23:52	BE	Nets		/67	73°55.798	150°01.094		500m					
9		23:59	EN				73°55.985	150°00.983							
10	CB-3	01:38	DE	Drifter Bottles		/68	73°55.18'N	150°0.67'W						162, 164, 165	
10		5:31 to		XCTDs		/event 68-1 to 9								XCTD # 65-73	
		11:11												Event #s	
10	CB-3	14:36	MR	mor		/68-	75°00.449N	149°58.660'W	3823					BGFE A Recovery	
		19:08	RE			10	75°01.360	149°51.646W							

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

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more XCTDS

Aug.

9 → XCTD #57-64 Event #s 56-63

DAILY LOG

Ocean Sciences and Productivity Division

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							
10	CB-4	2034	BE	NETJ		/69	75°04.842	149°51.823		100m					
		20.40	EN				75°04.822	149°51.477							
		21.05	BE	NETJ		/70	75°04.89	149°50.18		100m					
		21.13	EN				75°04.902	149°49.962							
		21.17	BE	NetJ		/71	75°04.907	149°49.805		100m					
		21.29	EN				75°04.902	149°46.310							
		22.39	BE	NETJ		/72	75°04.922	149°46.342		500m					
			EN				75°04.940	149°45.405							
10	CB-4	21=16	BE	ROS	UN	cast 73	75°04.90'N	149°49.99'W	3800m		211 ~ 234	24	Motayo		WHOI EMCTD Test Cast
		23=08	BO				75°04.91'N	149°45.01'W	3758+5m						5, 2500, 1500, 1000, 500, 250, 150, 50, 20
11		00=17	EN				75°04.87'N	149°42.57'W		3831 dbar					Niskin 17 removed
11	CB-4	00=20	DE	Drifter Bottles		cast 74	"	"			166, 167, 168				
11	CB-5	09:32	BE	CTD + LADCP	UN	20/75	75°19.86'N	152°28.37'W	3836	3841	235-258				
		11:36	BO	EMCTD CALIBRATION			75°19.58'N	152°23.23'W							
		13:02	EN				75°19.11'N	152°20.04'W							
11	CB-5		DE	DRIFTER BOTTLES		/76	75°18.79'N	152°20.530'W						Bottle #	190, 185, 186

Cast type:

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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

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CB-4, Cast 19: EMCTD from mooring on frame (no bottle #17) but EMCTD ^{data} no good. Red &
 CB-5, Cast 20: next cast. SZ

- EMCTD on package; takes up space of Niskin #17; This EMCTD just came off of mooring w/ I-A MMP (monkey → moored profiler); "Comparison Cast" btw CTD + EMCTD
- Cast started as normal but after reaching 25 m, realized pump had not been turned on. Pump turned on, package raised to surface + re-lowered.
- Salinity depths not recorded on downcast so on way up the CTD was stopped at 11:45 (~3400 db), acquisition stopped. Replayed station to find depths. New file started for the rest of the upcast. * one bottle fired to match the bottle already fired at the bottom.

200416-020.dat: downcast to 3911

- CTD raised at 1m/s until 70m deep, then raised at 0.5 m/s. Protocol is to slow down to 0.5 m/s at 400m deep on the upcast
- Chlorophyll max was between 43 & 49 m. So 40 m was not at the max. Changed display to show 0-100 m initially so that Chl Max can be identified.

Cast #: 15 16 17 18 19 20

Chl Max: 27 53 56 53 48 46

Width: $\begin{matrix} 25 \\ \rightarrow 45 \end{matrix}$ $\begin{matrix} 50 \\ \rightarrow 65 \end{matrix}$ $\begin{matrix} 50 \\ \rightarrow 68 \end{matrix}$ $\begin{matrix} 50 \\ \rightarrow 65 \end{matrix}$ $\begin{matrix} 43 \\ \rightarrow 54 \end{matrix}$ $\begin{matrix} 43 \\ \rightarrow 49 \end{matrix}$, between up & down cast.

Cast #: 15 16 17 18 19 20

Chl Max Bottle trip: 31 50 50 50 50 40

- DO₂ sensor has large hysteresis below ~1000 m. We waited 15 m at ~3500 m on the way up. The DO₂ readings did not approach downcast value, and did not change much.

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							
11	CB-5	9.57	BE	NET		77	75°19.840	152°27.377		100m					
		10.03	EN				75°19.832	152°27.106							
		10.25	BE	NET		78	75°19.804	152°26.213		100m					
		10.30	EN				75°19.793	152°26.000							
		10.51	BE	NET		79	75°19.743	152°25.140		500m					
		11.11	EN				75°19.682	152°24.327							
11		15:52-22:56		XCTD		79	-1-2								XCTDS 74-75
12	CB-6	00:37	BE	ROS		21/80	74°44.88'N	147°45.05'W	3750m		259~282		Motoyo		EMCTD Test
		02:40	BO				74°44.03'N	147°42.96'W	3791m + 5m						releaser Test
		03:43	EN				74°43.78'N	147°42.09'W	3865 db						
	CB-6			Drifter		85					189,191,192				Scan = 7000
12	CB-6	00:57	BE	NET + CTD		21-81	74°44.656	147°45.817		100m					Cast #21 - SBE19
		1.05	EN				74°44.590	147°44.685							
		1.25	BE	Net		82	74°44.471	147°44.278		100					
		1.29	EN				74°44.445	147°44.177							
		1.40	BE	Net		83	74°44.582	147°43.955		100					
		1.46	EN				74°44.348	147°43.841							
		1.58	BE	Net		84	74°44.268	147°43.650		500					
		2.13	EN				74°44.181	147°43.420							

Cast type:

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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

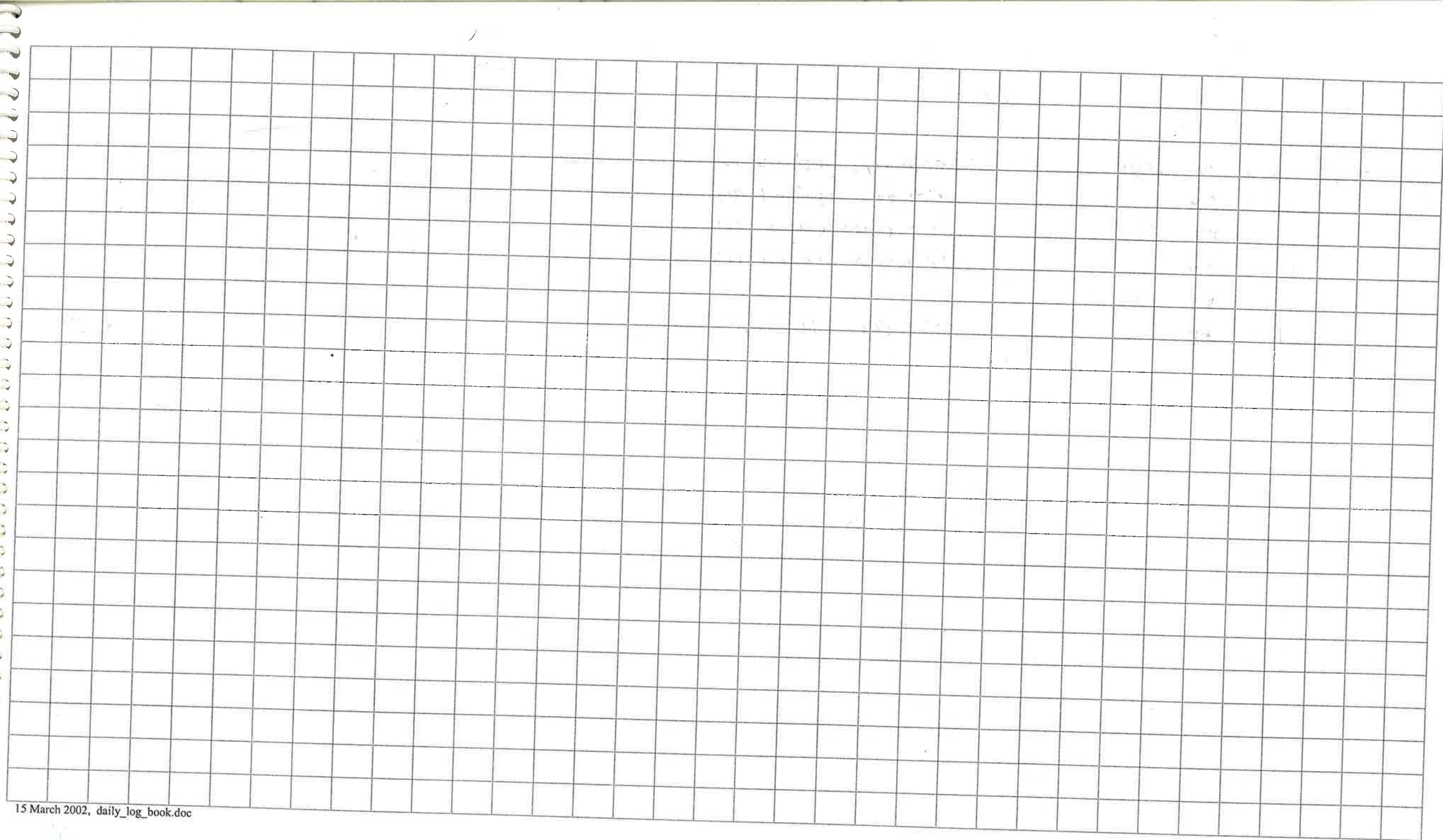
Time Code

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

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DAILY LOG

Ocean Sciences and Productivity Division

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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							
12	CB7	06:11	BE	ROS	UN	22/87	75°59.50'	149°53.35'	3828	3824		24			
		07:36	BO				75°59.57'	149°51.44'							
		08:47	EN				75°59.70'	149°50.51'							
12	CB7			DRF		/88	76°00.509'	149°49.413'							Bottle #'s 182, 187, 188
12	CB-6	19:58	DE	MOR		/86	75°00.242'	149°57.742'	3822						BOFE A Deployment
				NET		22-89									Cast #22 - SBE19
				NET		/90									
				NET		/91									
13				XCTD		/91-1-3									XCTDs #76-78

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12 Aug 04

B Niskin Bottle #17 put back on Rosette prior to cast 22
(CB-7) and EMCO + its battery pack removed

CAST 22: There was a white discharge from the boat between the fore-deck and the CTD. The bridge discovered it to be seawater but did not know why it was white. They suggested very small bubbles made it white.

DAILY LOG

Ocean Sciences and Productivity Division

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
13	CB-8	23-05		ROS		23/92	76° 59.20' N	150° 5.87' W	3776+7m	sounding	307-330	24	Motayo		surface → 5m → on deck due to Tce flow. and try again after 2hrs.
14		00-34					76° 58.74' N	150° 6.04' W	382+3m	Altimeter					
		01-45					76° 58.27' N	150° 5.61' W		3897dbar					scan=14000
14		03:55-9:14		XCTD		/92	-1 to 3								XCTD #79-8.1
		21.47	BE	NET+CTD		93	76° 59.473	150° 05.348		100					CTD #23-SBE19
		21.58	EN				76° 59.473	150° 05.378							
		22-10	BE	NET		/94	76° 59.360	150° 05.484		100					
		22-18	EN				76° 59.340	150° 05.478							
		01-50		DRF		/95	76° 58.27' N	150° 5.61' W			181, 183, 184				
							76° 58.374	150° 07.252 W							

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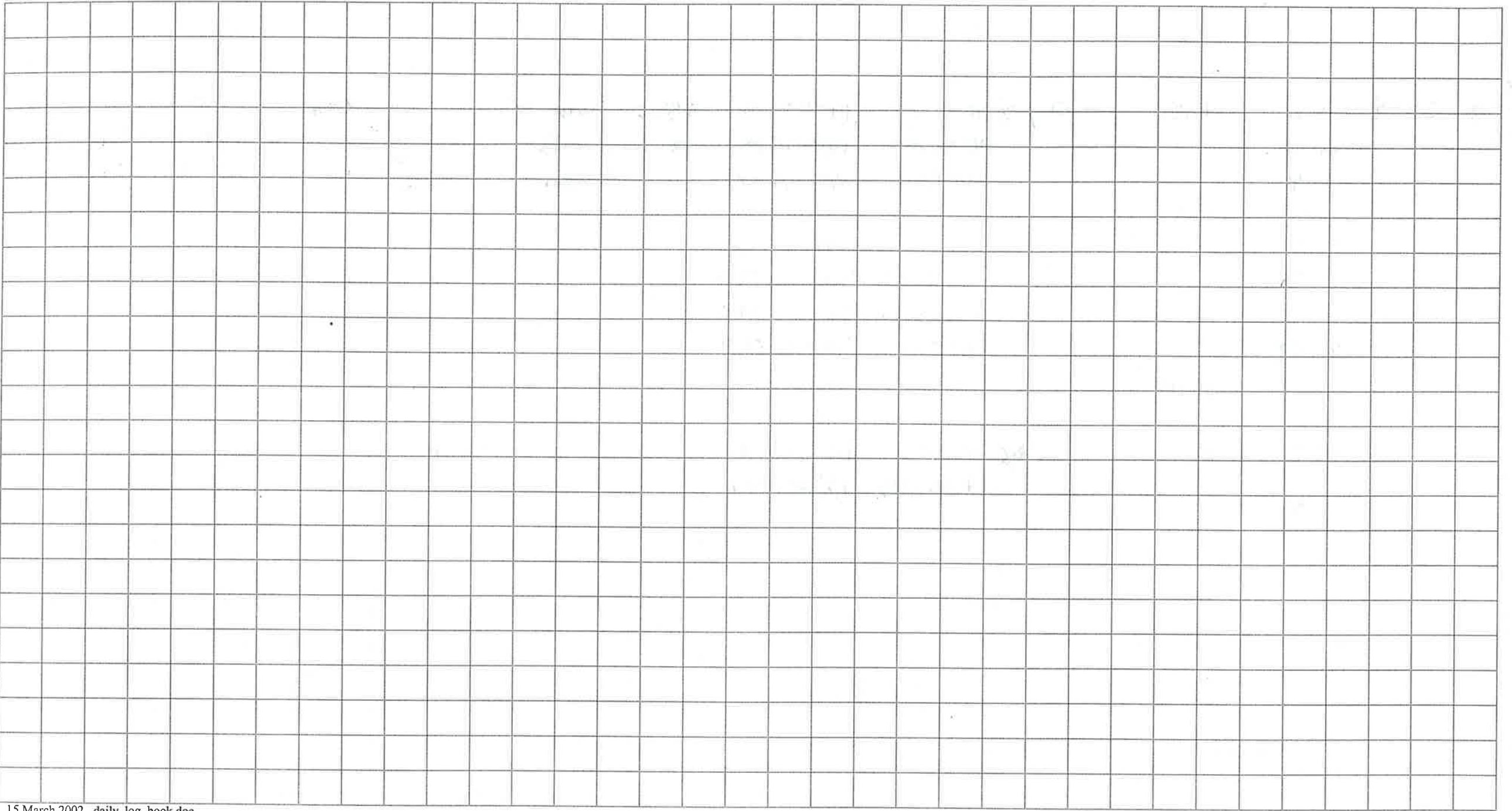
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DAILY LOG

Ocean Sciences and Productivity Division

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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							
14	CB-9	18:52	BE	ROS	UN	CAST 24/96	178°0.80'N	149°46.59'W	3772+7m	- sounding		24	Motoyo		Brown water being pumped over at start of cast
		20:30	BO				78°0.28'N	149°45.04'W	3817+4m	- Altimeter					
		21:40	EN				77°59.90'N	149°44.28'W		3894dbr	331-354				Scan = 12500
				Drifter											
15	CB-9(2)	23:32		ROS	US	CAST 25/97	77°59.42'	149°43.14'			355-378				
		01:17					77°59.16	149°42.09'							
		03:29					77°59.02	149°40.74'							
				Drifter							177, 178, 179				
		03:55	BE	Nets		98	77°59.039	149°40.212		100					SBE19 deployed
		04:11	EN	+ CTD		SBE19 25/	77°59.034	149°40.001							on net wire (cast 25-sbe19)
		04:35	BE	Nets		99	77°59.029	149°39.666		100					
		04:50	EN				77°59.013	149°49.544							
	CB-9	13:23	MR	MOR	MR	/100	78°01.490'	149°49.203	3823						BGFE B Recovery
		17:00	RE		RE		78°01.201'	149°48.834							
	CB-9	1714	DE	Drifter		/101	78°01.188	149°48.600	3772+9	-sounding	177, 178, 179				
15		19:44-22:00	XCTD			/101	1,2								XCTD# 82.83

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bottle firing method:

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Time Code

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(sounder + estimate)

$$3772 + 40 = 3815 \text{ m}$$

expected

• Cast 24 : 2.5 m off bottom, but no bottom alarm

$$\text{CTD} + \text{altimeter} = 3821 \text{ m}$$

16 06:53-9:07 XCTDS #84-86 Event, #106-108

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Cast/Event		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								
16	CB-10	00:27				26/102	78°19.06'N	152°52.44'W	3400m	sounder	379-402		Motyo		Niskin 17 removed	
		02:06					78°19.07'N	152°51.44'W	3427+45	Altimeter					EMCTD Test cast #1316	
		03:10					78°19.13'N	152°50.75'W		3492dbar						
16	CB-10	05:24				/103	78°20.115'N	152°45.950'W							Bottle #'s 180, 176, 175	
16	CB-11(1)	13:02	BE	ROS	UN	27/109	79°0.00'N	150°0.38'W	3815m				Bill		Hung in air for ~5 min at start to wait for ice to move	
		13:24	BO				79°0.00'N	150°0.29'W							Bottle #3 did not fire	
		13:33	EN				79°0.00'N	150°0.24'W								
16	CB-11(2)	14:30	BE	ROS	UN	28/110	78°59.98'N	150°0.02'W	3815m	sounder	413-436		Bill			
		16:05	BO				78°59.96'N	149°59.81'W	3816m	altimeter						
		17:31	EN				78°59.96'N	149°59.71'W								
	CB-11(2)	"		Drifter		/113	"	"				169, 173, 174				
16	CB-10	3:49	BE	Nets		/104	78°19.256	152°50.476		100						
		3:57	EN				78°19.269	152°50.389								
16	CB-10	4:20	BE	Nets		/105	78°19.313	152°50.158		100						
16	CB-10	4:39	BE	Nets			78°19.351	152°50.842								
16	CB-11	16:05	BE	Nets		/111	78°59.963	149°59.825		100						
		16:10	EN				78°59.963	149°59.825								
16	CB-11	17:50	BE	Nets		/112	78°59.967	149°59.689		100						
		17:03	EN				78°59.960	149°59.679								

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CB-10 : Niskin 17 removed; EMCTD + Battery Pack put on for comparison cast

⇒ Niskin 17 reattached after comparison cast

CB-11(1): CTD was not rinsed off after CB-10. There were crystals of salt on the bottles before CB-11(1) and also the bottle release levers were a little sticky. Rosette was rinsed before putting in water. Bottle #3 did not fire.

CB-11(2): After sampling, manually closed all the bottles, opened the release levers, and rinsed for about 5 minutes.

CB-11 : We're on the southern edge of solid ice pack made of first year (6/10), second year (2/10), multiyr. (2/10)

As we steam NORTH from CB-11 it gets more solid + thick w/ fewer melt pools.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>Aug</i>				Year <i>2004</i>			Ship <i>Louis S St. Laurent</i>				Cruise ID <i>2004-16</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>16</i>		<i>22:36</i>	<i>BE</i>	<i>CTD</i>			<i>79° 19.54</i>	<i>150° 0.87' W</i>	<i>3765m</i>	<i>sanding</i>			<i>MOTOYO</i>		
			<i>BO</i>												
			<i>FN</i>												
<i>16</i>		<i>22:49</i>		<i>XCTD</i>		<i>/114</i>									<i>XCTD # 87</i>
<i>16</i>	<i>Farthest North</i>	<i>23:23</i>	<i>DE</i>	<i>DRF</i>		<i>/115</i>	<i>79° 17.203</i>	<i>150° 02.251'</i>							<i>Bottles 170, 171, 172</i>
<i>17</i>		<i>7:02 - 9:48</i>		<i>XCTD</i>		<i>/116-117</i>									<i>XCTDS #88-89</i>
<i>17</i>	<i>CB-12</i>	<i>17:59</i>	<i>DE</i>	<i>MOR</i>		<i>/118</i>	<i>78° 00.967'</i>	<i>149° 51.544'</i>	<i>3823m</i>						<i>B6FE B Deployment</i>
<i>17</i>		<i>21:30</i>		<i>XCTD</i>		<i>/119</i>									<i>XCTD # 90</i>

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bottle firing method:

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16 Aug 2300

Cast at $79^{\circ}20'$ aborted. Wire pinched in shiv during deployment.

Wire reterminated due to wire being caught in shive. Visible pinch + outer armor wire out of place.

CTD Transmissometer windows cleaned for the first time during cruise. 2004116 - trans - cleaning - 17 Aug. dat shows before + after cleaning. ~4 Bottles had to be removed ~~and~~ during re-termination. 3am

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							
18	CB-12	03:10	BE	ROS	UN	29/120	77°41.46'N	146°24.65'W	3759m	sounding	437-460		MOTOYO		
		04:31	BO				77°41.60'N	146°22.97'W	3808m	CTD					
		05:43	BN				77°41.66'N	146°21.45'W							
18		09:00	DE	DRF		121	77°41.54'N	146°20.95'W							Bottle # 241, 242, 243
18	CB-13	14:23	BE	ROS	UN	30/123	77°22.42'N	143°22.58'W	3785	sounding	461-484		Bill		XCTD # 91
		15:49	BO				77°22.52'N	143°21.15'W	3784.8	CTD + Altimeter					
		17:01	BN				77°22.61'N	143°20.03'W							
		18:07	DE	DRF		126	//	//							Bottle # 244, 245, 246
18		23:01		XCTD		127									XCTD # 92
18	CB-13	17:24	BE	Nets		124	77°22.643	143°19.637		100					
		17:29	EN	?			77°22.657	143°19.625							
18	CB-13	17:45	BE	Nets		125	77°22.665	143°19.378		100					
		17:51	EN				77°22.668	143°19.381							

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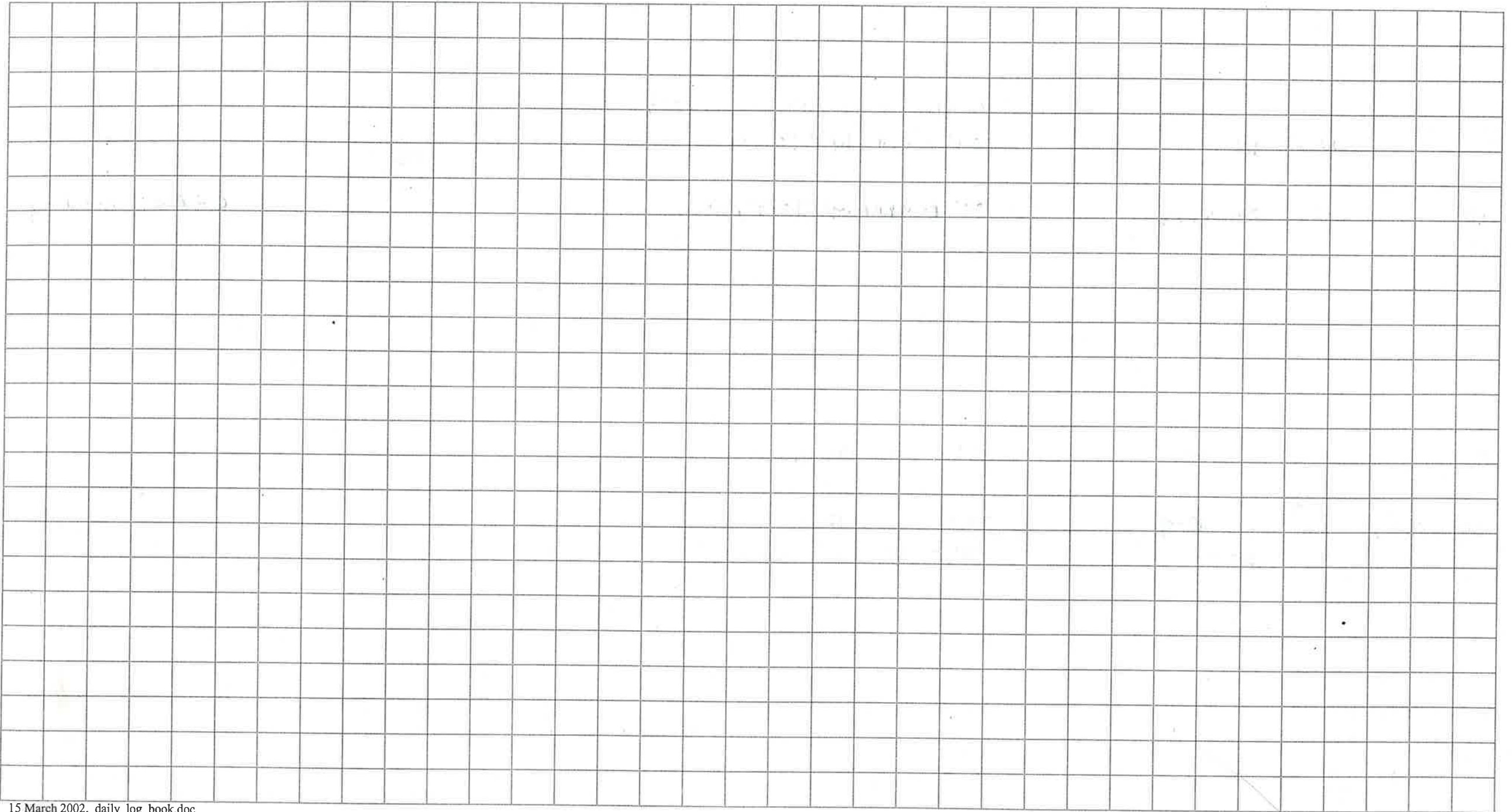
Time Code

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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 Aug				Year 2004			Ship Louis St Laurent			Cruise ID 2004-16					
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							
19	-	15:00	DE	DRF		/128	77° 10.4 N	141° 13.0 W							Ice Tethered Profiler
19	-	15:00	DE	DRF		/129	77° 10.4 N	141° 13.0 W							CRREL Ice Buoy
20	CB-14	03:08	BE	ROS	UN	31/130	76° 53.68' N	138° 19.12' W	3650m	Sounding	485-508	24	MoToTo		0-40m forget to turn on pump. bring up surf.
		04:38	BO				76° 53.65' N	138° 18.43' W							40m → 0m → bottom
		05:44	EN				76° 53.65' N	138° 17.82' W							
				DRF		/131	76° 53.07' N	138° 17.81' W			247,248,249				

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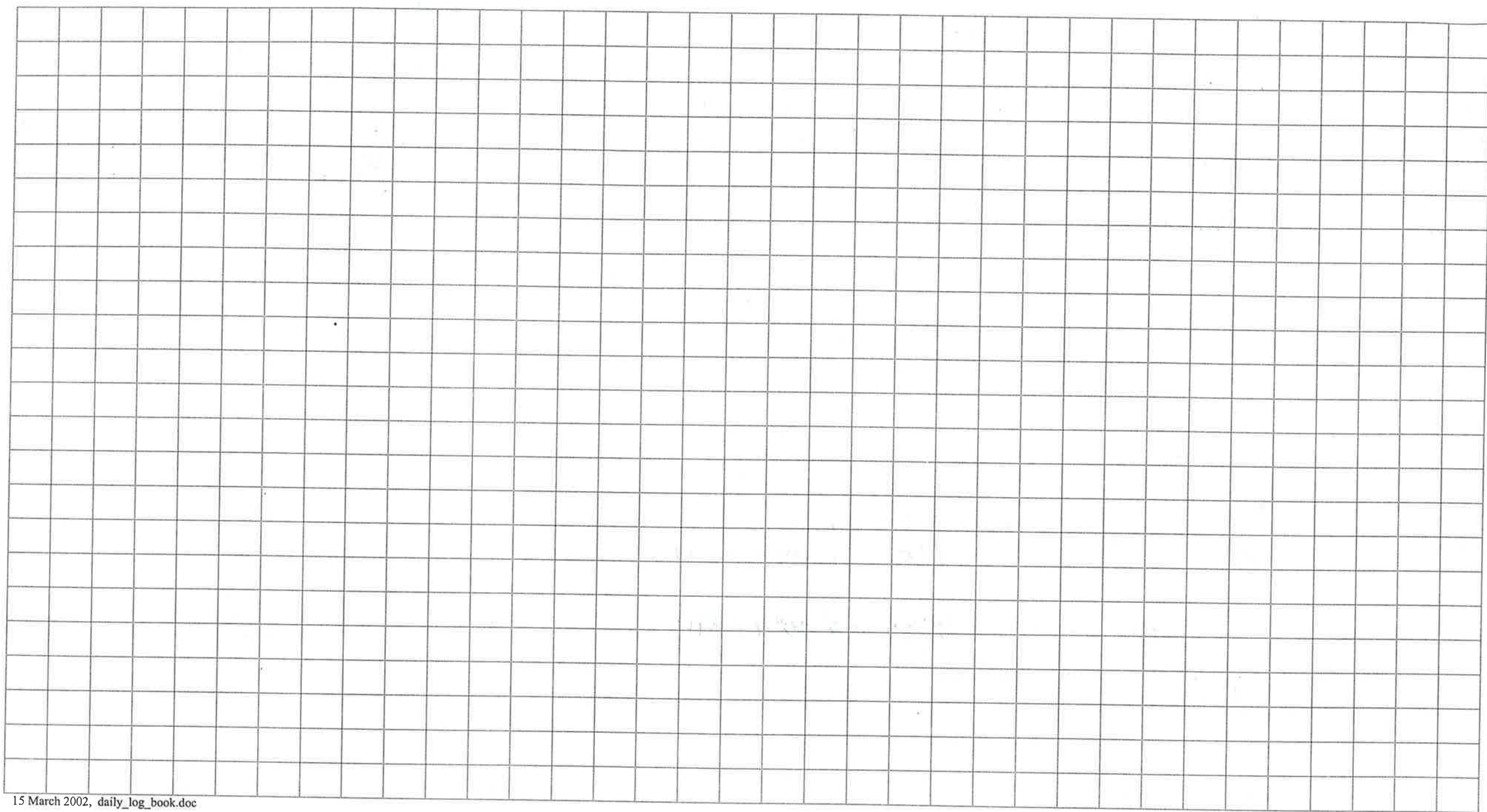
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DAILY LOG

Ocean Sciences and Productivity Division

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							
20	CB-15	18:57	MR	MOR		132	76°59.232	139°54.563	3723						B6FE C Recovery
		21:29	RE												
20	CB-15	23:09	BE	ROS	UN	32/133	76°58.52'N	139°55.19'W	3776+7m	sounder			MoToTo		Comparison cast
21			BO				76°58.25'N	139°54.90'W	3717+	35m -	Altimeter				w/ CTD
			EN				76°58.12'N	139°54.80'W	3790dbr		509-532				NTSKM17 removed
				DRF		137					250, 251, 252				
20	CB-15	23:53	BE	Nets		134	76°55.487	139°55.075		500					
		00:20	EN				76°58.429	139°55.009							
20	CB-15	3:15	BE	Nets		135	76°58.087	139°54.748		100					
		3:20	EN				76°58.080	139°54.750							
20	CB-15	3:28	BE	Nets		136	76°58.074	139°54.813		100					
		3:40	EN				76°58.050	139°54.784							
21	CB-16	17:34	BE	ROS	UN	33/138	77°53.30'N	140°10.08'W	3699+7m	sounder			MoToTo		
		18:55	BO				77°52.95'N	140°10.48'W	3816d		533-556				
		20:03	EN				77°52.70'N	140°10.68'W	3742+	32m -	Altimeter				
				DRF		142					253, 254, 255				

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→ EMCTD from Mooring's MMP is on the ^{AD} Frame for cast 32. Niskin 17 was removed so that EMCTD + battery could be mounted.

→ Doug noticed chaffing on CTD wire, due to wire angle during deployment + recovery as it runs through the winch rollers. He will adjust roller height at the next opportunity, and reterminate soon.



→ to CTD
the wire is running through at a higher point + rubbing against the top plate

CB-16 Ros cast 33 : Niskin # 17 reinstalled

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							
21	CB-16	16.10	BE	Nets		/139	77°53.726	140°09.598		500					
		16.39	EN				77°53.608	140°09.925							
21	CB-16	16.52	BE	Nets		/140	77°53.529	140°09.937		800					
		16.57	EN				77°53.496	140°09.907							
21	CB-16	17.09	BE	Nets		/141	77°53.412	140°09.888		100					
		17.13	EN				77°53.381	140°09.909							
21		21:40		XCTD		/143									XCTD # 93
22		04:54		XCTD		/144									XCTD # 94
22	CB-15	19:31	DE	MOR			76°59.457	139°58.407	3723						BGFE C Deployment
		22:50	-02:11	XCTD		/145-146									XCTD # 95-96
23	CB-17	06:04	BE	ROS	UN	34/149	75°59.66'N	140°00.64'W	3695	3689.8	557-580	24	Bill		
		07:31	BO				75°59.59'N	140°01.66'W							
		08:18	EN				75°59.58'N	140°02.16'W							
		08:47	DE	DRF		/150	75°59.29'N	140°02.11'W							Bottle # 256, 257, 258
		11:15-13:36		XCTDs		/151-152									XCTD # 97-98
23	CB-17	5.23	BE	Nets		/147	75°59.696	140°00.167		100					
23	CB-17	5.44	BE	Nets		/148	75°59.676	140°00.400		100					

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CB-17 Ros cast 34: wire reterminated prior to cast (see ^{chaffing} issue
for CB-15)

3 Releases attached for testing (2x edge-tech)

1x oceanic)
Oxygen sensor behaving strangely around 2500m

DAILY LOG

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							Latitude	Longitude							
23	CB-18	16.12	BE	Nets		/153	75°00.021	140°00.275		100					
23		16.51	BE	Nets		/154	75°00.014	140°00.371		100					
23	CB-18	17:20	BE	ROS	UN	35/155	74°59.82'N	140° 0.87'W	3580m	sounder	581-604		Motayo		
		18:43	BO				74°59.62'N	140° 1.83'W	3620+4.2m	Altimeter					
		20:13	EN				74°59.41'N	140°2.71'W		3690dbar					
24				DRF		/156	XCTD 51.99 event		156-1		259, 260, 261				
24		02:22		XCTD		/157	XCTD #100								
	CB-19	6:01	BE	NETS		/158	74°28.846	145°03.226		100					
		6:20	BE	NETS		/159	74°28.623	145°03.190		100					
24	CB-19	06:55	BE	ROS	UN	36/160	74°28.36'N	145° 03.25'W	3695 sounding		605-628		Bill		
		07:21	BO				74°27.90'N	145° 03.40'W	3733+5	3733					
		08:30	EN				74°21.31'N	145° 03.51'W	CTD	Alt					
			DE	DRF		/161	74°27.314'N	145 02.856'W							Bottle #262, 263, 264
24		11:00		XCTD		/162	XCTD #101								

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