

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							
13	BS-3a	23:42	BE	ROS	UN	21	71° 19.849	152° 12.656	51.7	Bottom - 5m	283-292	10	SN	V	
		23:55	EN				71° 19.870	152° 12.805		55					
14	XCTD 47	01:45	BE	XCTD-1	-	XCTD 47	71° 22.47	151° 49.14	433	433	—	—	SN		% 06037277
14	BS-3b	03:33	BE	ROS	UN	22	71° 31.969	151° 35.520	1269		293-315	23	SN		But Bottle #3 New pylon. #3 did not close!
		04:02	BO				71° 32.045	151° 35.767		1273+9.5					
		04:37	EN				71° 32.143	151° 35.902							
14	XCTD	0701	BE	XCTD-1		XCTD 48	71° 37.42	151° 13.88	1758	1100			HM/MD		SN 06037278
14	XCTD	0829	BE	XCTD-1		XCTD 49	71° 42.60	150° 02.03	2192	1100			HM.		SN 06037302
															Polar Bear
14	BS-3c	9:46	BE	ROS	UN	23	71 43.417	151 0.022'W	2258	205	316-321	6	HM/MD		seen on route!
		9:57	BO				71 43.500	151 0.101'W							
		10:06	EN				71 43.561	151 0.188 W							(btw XCTD # 48 and 49
14	BS-3c	10:48	BE	ROS	UN	24	71 43.706	151 0.376			322-345	24	HM/MD		
		11:37	BO				71 43.885	151 0.680	2262	2250					
		12:25	EN				71 44.039	151 0.887							

Cast type:

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USW = sea water loop

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 DRF = drifter

bottle firing method:

US = up / stop
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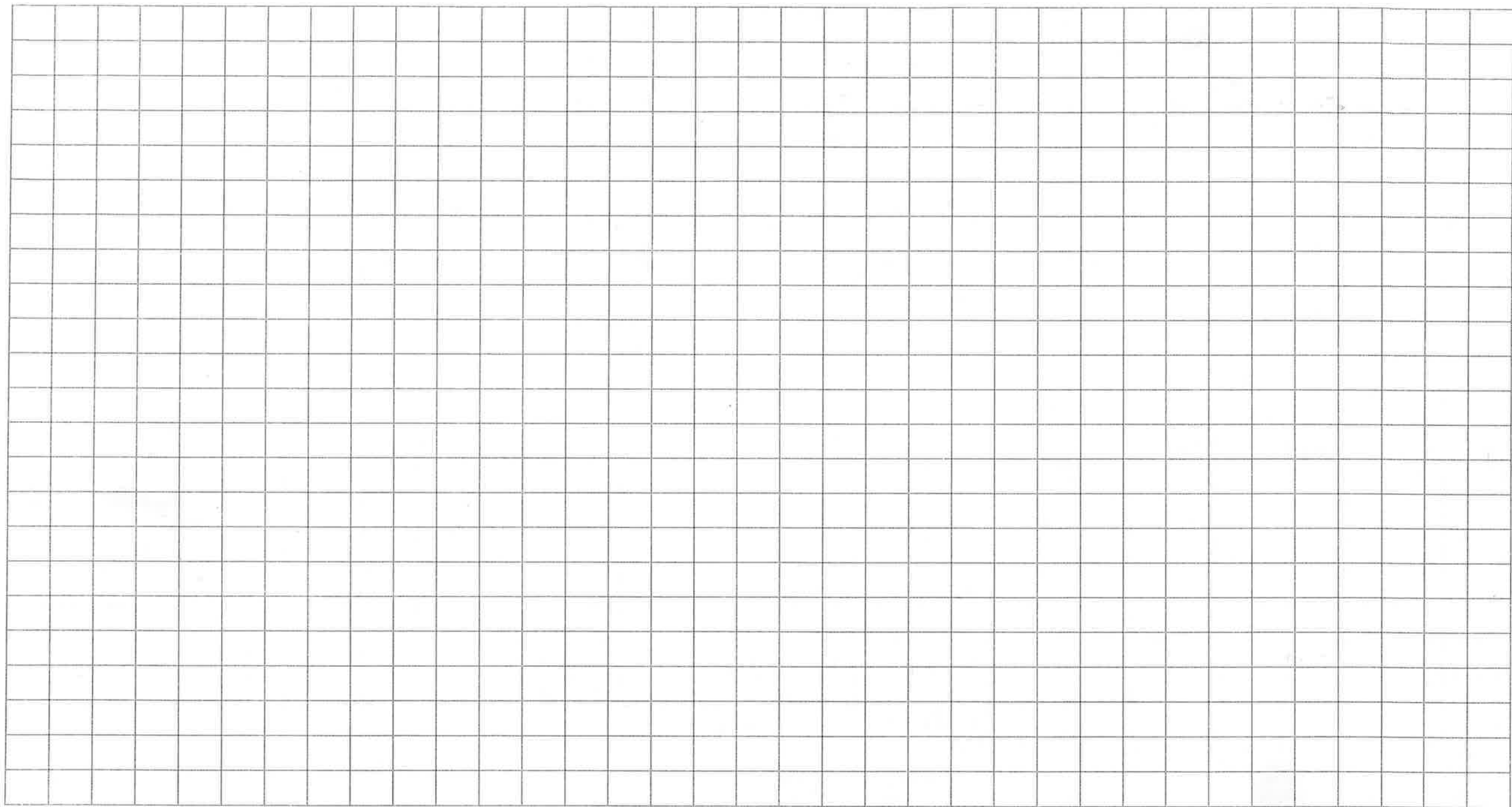
Time Code

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

Daily_log_book.doc

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month Aug				Year 2006			Ship LSSL			Cruise ID 2006-18					
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	XCTD 50	1544	BC	XCTD-1		XCTD 50	71° 51.93	150° 21.24	2723	525	S/N 06037301				BROKE OFF @ 525m
14	BS-3C	12:09	BE	PRR			71° 44.07'	151° 00.65'	2200						
14	BS-3d	21:50	BE	ROS	UN	25	72° 1.379 N	150° 0.094 W	3127		346-369	24	SN	✓	
		22:55	BO				72° 1.524 N	150° 0.236 W	3131	3153+87					
		23:54	EN				72° 1.682 N	150° 0.332 W	3126						
14	BS-3D	21:59	BE	PRR			72° 01.58	150° 00.02'	3130						
14	BS-3DR	23:22	BE	PRR			72 01.66	150° 00.08	3130						
15	BS3d	0005		Drifters											
15	XCTD 51	0325		XCTD-3		XCTD 51	72 14.46	149° 58.71	3524		S/N 06026792		SN/JE		Stringy Algae in water changed spigot 7
15	CB 2a	08:00	BE	ROS	UN	26	72° 27.925'	150° 0.474' W	3708+9	3708	370-393	24	HM/MD JS		HF Knudsen is off
		09:09	BO				72° 27.950'	150° 0.569' W							
		10:19	EN				72 27.996'	150° 0.931' W							
15	PRR	08:24					72° 27.934' N	150° 0.475' W							

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Aug 14 2006: 1330hr- repositioned trans. 1cm up from deck. *! Need to check this reg. ←

add to
Regular
Check

- Pump test: Primary pump test A: 1:13 (73 sec's)
B: 1:20 (80 sec's)

2ndary pump test A: 1:20 (")

- halyards are getting systematically hung up on Wicken bottles. (see photo Sarah)

→ NB) * All done just before cast #25 - station BS-D

At BS3d - whitish material in water 0-10m depth also - long snakes or shreds, perhaps chunks of algae from under ice, torn off by ship's passage

more →

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							Latitude	Longitude							
15	CB2A	0630	BE	DRF		113-115	72°34.200	149°57.62			113-115	3	HM.		ice chunkies
		0815	BE	PRR			72°27.77	150°04.65	3670						
15	CB2	1910	BE	ROS	UN	27	72°57.799	149°56.209	3700		394-417	24	SN		2 releasers test for what markings
		2030	BO				72°52.042	149°56.567	3698	3739+9.5	CABLE TENSION at Bottom: 1991				at 50m off the bottom (3650m)
		2209	EN				72°57.880	149°57.274	3697						3699
15		1930	BE	PRR			72°57.84	149°56.26	3700						2 casts by hand
		19		PRR											
15	CB2+	2325	EN	drifters			73 02	149 58							116, 117, 118
16	XCTD 52	0455	BE	XCTD-3	-	XCTD 52	73°29.95	150°00.60	3762	1100	-	-	SN/SE		S/M: 06026795
16	CB3	12:55	BE	ROS	UN	28	73°59.657'N	150°1.502'W	3775		418-441	24	JJ/HM/MC		
		14:15	BO				73°59.170'N	150°2.387'W	3774	3806	CABLE TENSION AT BOTTOM: 1951				
		15:35	EN				73°	150°		+9	Cable tension at surface:				
16	CB3	13:18	BE	PRR			73°59.657'N	150°1.502'W							
	CB3R	15:05	BE	PRR			73°58.961'N	150°2.821'W							
		1													
16	CB3		EN	DRF		122-124	74°01.18	149°58.17			122-124		HM/MN/JJ		ICE chunkies

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* 1900 hrs. Repair to ramp in Rosette lab door (Grinding fiberglass)

- Niskin bottles closed + rinsed after
- Salinity bottles open → no lids so could get dust inside bottles.

?

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month AUGUST				Year 2006				Ship LOUIS ST-LAURENT				Cruise ID 200618			
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	XCTD-53	2057	BE	XCTD-3		XCTD53	74 19.57	149 58.93	3775	1100			SN/SE	No.	s/n 0626789
17	XCTD 54	0809	BE	XCTD-3		XCTD54	74°32.59	149° 06 23	3747	1100	06026794 s/n	XCTD53	H.M./A.S.	—	Primary DO sensor switched out
17	CB4		EN	drifter		—	74 59.91	149 53 86			119-121, 125-127				ice chummers on floes
18	XCTD 55	06:16	BE	XCTD-3		XCTD55	75°10.59	151°30.27	3792	1100	0	XCTD55	H.M./JT		06026793
18	XCTD 56	16:15	BE	XCTD-3		XCTD56	75°37.51N	155°59.06 W	2395	1100		XCTD56	H.M./AS/JT		06026791
18	XCTD 57	17:11	BE	XCTD-3		XCTD57	75°40.10	156° 21.29	1342	1100		XCTD57	H.M./A.S.		06026790
18	CB-5d	20:50	BE	ROS	UN	09	75°44.118	157°12.554	920	912+62	442-465	24	SN	✓	Discharge from ship just aft of A-frame
		21:20	BO				75°44.003	157°13.250							
		21:42	EN				75°43.936	157°13.285	909						
18	CB-5D	2124		PRR			75 44.12	157 12.55	920						
				PRR?											

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Aug 16
1830 local

Primary DO sensor changed - 0820 removed, 0575 installed

New calibration file 200618.DO-0575-0435.con

DAILY LOG

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							Latitude	Longitude							
19	CB-5b	00:10	BE	ROS	UN	30	75° 35.258' N	156° 17.051' W	1811		466 - 489	24	SAI	✓	JAMSTEC Oxy sensor → re attached
		00:53	BO				75° 35.218' N	156° 17.314' W	1806	1814+9.5					
		01:32	EN				75° 35.320' N	156° 17.075' W	1809						died during cast → large jellyfish on CTD at recovery
	CB5b	00:40		PRR			75 35.26	156 17.05	1811						
19	CB5b	0127		Drifters							128129130				Ice chumms
19	CB5b1	0430		Nets		N10	75° 33.42	156° 15.11	2026	100m			High H.		used bubbles to move ice, ship is stationary to fix shafts.
						N11				100m					
19	CB5BR	0547		PRR			75° 35.10	156° 17.93	1800						
19	CB5b1	1540	BE	SBE 19 CTD		31	75 32.6200	156 15.8260	1887	800m	—	—	HM/SZ	—	From Foredeck A-frame
			EN				75 32.526	156 15.897	1928						w/ bubbler →
19	"	"	"	SOUNDER TEST			"	"	"						SOUNDER TRACE
															MEASURES CORRECTIONED ABOVE SBE19
19	CB5b2	2127	BE	SBE 19 CTD		32	75 31.3986	156 11.1510	2025	1000m	—	—	MD/SZ	—	From Foredeck A-frame
			EN				75 31.1816	156 10.8554	2078						

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JANUS-^{data}
Oxygen sensor ^{spiky} on CB5d. Connection checked and salt water leak /
corrosion seen on ~~the~~ pins. Connector cleaned and reattached before
CB-5b

After CB5b - unplug ^{connectors} OS75, clean well, rinse sockets with alcohol, regrease
plug & reseat.

After CB5b - Ship engine taken off line. Reboot unsuccessful. "Hove to" begun...
(start 1930 local)

SBE-19 cast 31 original file name 2006-18-Sbe19-003.hex renamed
200618-031.hex

vstart 8.3, vend 8.0 ice 4/10

} on SBE19 cast 4 Add Loaner #820 Oxy sensor. Bad ~~at~~ hysteresis.
32

ice 6/10 vstart 8.0, vend 7.8

original file name 2006-18-Sbe19-004.hex renamed
200618-032.hex

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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									
20	CB5b3	0300	BE	CTD	—	SBE19-5	75 29.86	156 11.94	2000	1000	—		MD/SE	NA	bubblers on btwn		
		0402	EN			33									100 & 300 m on		
															down cast →		
20	CB5b4	0918	BE	CTD	—	SBE19-6	74° 54.89' N	155° 30.58' W	2118m	1000	—		HM/ND/AS	NA			
			EN			34	75 29.63	156 12.16									
20	PRR	1524	EN	PRR			75° 27.93	156° 91.90?	1930	120			CLINA		PRR		
						SBE19-7											
20	CB5b5	1722	EN	CTD/BOT	MESSENGER	35	75 27.70	156 16.92	1894		490-496	7	HM/ND/AS	NA	7 bottles, 6 fired		
															CTD memory filled.		
21	CB5b6	1102	BE	ROS	UN	36	75 26.7069	156 29.2876	1372		497-520	24	HM/JT/AS	?			
			BO												Aborted due to		
			EN												ice		
21	CB5b7	11:35	BE	CTD	—	37	75° 26.40	156° 30.94	1330	1000	—		HM/ND/AS				
		12:30	EN														
				PRR													

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Add cone above CTD to calibrate Knudsen Sander. Stop at 400, 300, 250, 200, 100 m on upcast. Bubbler used several times during upcast.

→ NOTE SBE-19 FRAME IS BROKEN - WELDS HOLDING FISHING FRAME ARE BROKEN - SAFETY LINES ATTACHED

CB5b3 Sbe19 cast 33 originally stored in 2006-18-Sbe19-005.hex, renamed vend 7.6 200618_033.hex

CB5b4 SBe19 cast 34 originally stored in 2006-18-Sbe19-006.hex, renamed 200618_034.hex

CB5b5 " " 35 " " " 2006-18-Sbe19-007.hex, renamed 200618_035.hex

CTD memory filled @ 800m on down cast 28877 samples. Initialized, now all free

SBE19 Frame re-welded by engine dept

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							Latitude	Longitude							
21	CB-568	1920	BE	CTD + BOT	messenger	38	75 26.37	156 41.90	1398	1000	497-505	9	JE/MD/SN	No	SBE 19 calt
		2002	MR												
			EN												
21	CB568		BE	BOT only			"	"			3,30,75m	3			for China Phyto
		2110	MR							75					lost 75m bottle -
		2121	EN				75 26.58	156 43.34	1409						brake of wire
22	CB569	0835	BE	CTD + BOT	messenger	39	75° 27.83'	156° 58.25'	1409	1000	506-513	8	HM	✓	SBE 19 calt
22	CB569	1206	BE	NET		N 12	75° 28.004	157° 00.182	1409	500					BUNGO'S
						N 13	"	"		100					↓
						N 14	"	"		100					
22	CB5610	19:52	BE	ROS	UN	40	75 28.595	157 10.084	1266		514-534	21	SN/SE/MD	✓	w/ SBE 9+!
			BO							500					
		20:21	EN				75 28.163	157 10.432							
22	CB5610	2349	BE	ADCP			75 28.65	157 12.21	1238	40					WHA1 mooring ADCP
		0130	EN				75 28.44	157 13.47	1234						lowered off Predeck

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to 40m.

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Spring tubing on 5 1.72 Niskins replaced.

ADCP deployment

Bubbles @

0006

UTC

stbd

0008

UTC

"

0023

UTC

"

0029

"

0036

"

0042

port + stbd

+ more later

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							Latitude	Longitude							
23	CB5610	0205		PRR											
	CB5610	0210		PRR			75 28.33	157 13.72	1236						
23	CB5611	07:00	BE	CTD	/	41	75°27.766'N	157°16.04 W	1306	1000	—	—	HM + gang	/	
23	CB5612	12:09	BE	ROS	UN	42	75°27.365'N	157°15.604'W	1306	1319	536-559	24	HM/AS HD/JT	✓	Engines down
		12:43	BO				75°27.284'N	157°15.658'W							
		01:20	EN				75°27.76'N	157°16.04'W							
23	CB5612	03:52	BE	PRR			75°26.93	157°16 05	1337	106			CA/MA/JN		PRR
23	CB-5a	20:56	BE	ROS	UN	43	75°33.618'N	155°34.536'W	3793		560-583	24	SN	✓	Bottles 19+24 did
		22:19	BO				75°33.652'N	155°35.930'W		3832+9.7					not close... don't
		23:36	EN				75°33.530'N	155°37.303'W							know why.
23	CB5a	~2130		PRR											
23	CB-5a	23:15	BE	BOT	messenger	44	75 33.530	155 37.303	—	50	584-588	5	HM/92	—	Bottles on hydro wire to
		23:35	EN												catch extra
															near surface

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water for
ALK
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No shafts from Aug. 18th (7:30pm local time) → Aug. 23rd (11:30am local time)

↳ Are there transmission peaks at ~ 10m?

↳ Bubbler not used for CB-5b12 + CB-5b10

Replaced Jamslec SBE4300 sensor with Seabird Loraner s/n 0820. Need to compare s/n 820 readings with IOS primary 40 sensor for back calibration of SBE1? CTD casts.

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							Latitude	Longitude							
24	CB5a+	0126	BE	drifters			75 27.00	154 46.23			131,132,133				
24	CB-5	04:28	BE	ROS	UN	45	75°19.238'	153°16.2023'			589-612	24		Yes	
		05:55	BO				75°19.558'	153°16.135'W	3843 ⁽⁵⁺⁴⁾	3835					
		07:02	EN				75°19.745'	153°15.456'W							
24	CB-5	07:41	BE	DRI			75 14.21	152° 23-68			134,135,136				ICE CHUMMIES
24	CB-4	14:15	BE	ROS	UN	46	74°59.160'N	150°1.920' W	3778		613-636	24	SN		
		15:30	BO				74°59.088'N	150°2.639' W	3777	3815+9.5					
		16:44	EN				74°59.233'N	150°3.356' W	3778						
24	CB-4	14:30	BE	Nets		15	74°59.160	150°1.920	3778	100			HM		
	CB-4			Nets		16	74°59.160	150°1.920	3778	100					
	CB-4			PRR											

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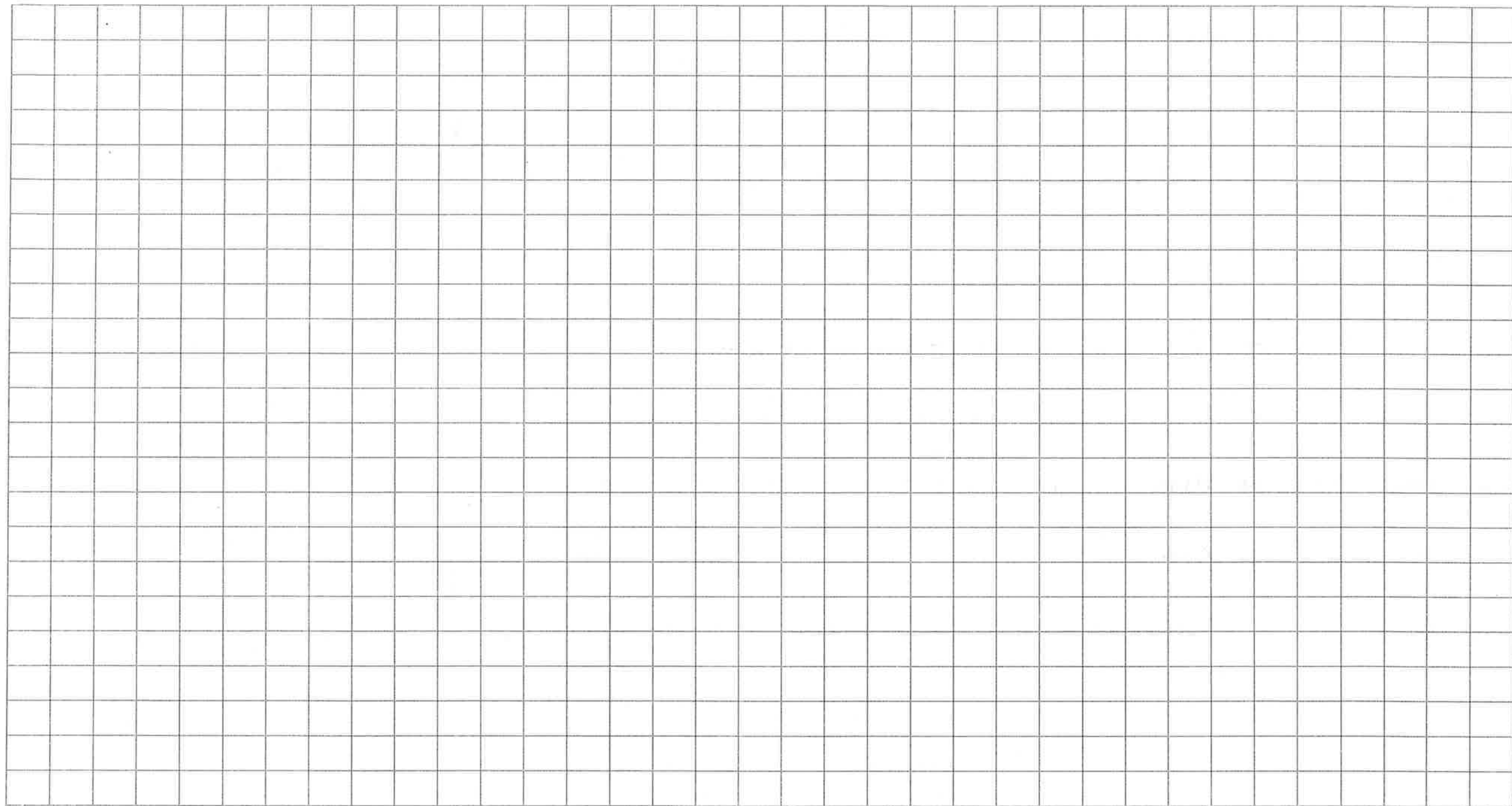
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DAILY LOG

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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							
24	CB-4			MOR											
25	CB-4	00:41	BE	ROS	UN	47	74°59.110'N	150°3.812'W	3778 _m	500 _m	637-658	22	JE/MID/JS	✓	TSS/POC → 500m
25	CB-4	0240	BE	Drift			74°54.34'	150°29.52'			137, 138, 139				
				CHANGED		ROSETTE TRIGGER	DEVICE								
26	XCTD-58	0121	BE	XCTD-3		XCTD58	72°44.85'	154°25.08'	3258	1100				JE	s/n 06026788
26	XCTD-59	0532	BE	XCTD-3		XCTD59	72°22.27'	155°22.43'	1673	1075				JE	s/n 06026787
26	XCTD-60	0656	BE	XCTD-3		XCTD60	72°12.69'	153°34.48'	504	504			HM		s/n 06026786
26	Borrow	16:53	BE	ROS	UN	48	71°20.926'N	156°51.463'W	53	49	659-672	14	HM		
		17:02	BO												
		17:12	EN				71°20.790'N	156°51.856'W							

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Bottle 7 spigot hellish - replaced

— CHANGED ROSETTE TRIGGER DEVICE — AUG 25 6:AM

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month August				Year 2006			Ship LSSL				Cruise ID 2006-18				
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							
28	XCTD-61	01:19	BE	XCTD-3		XCTD61	72°35.14'N	153°58.05	3802	1100			MD/JJ		
28	XCTD-62	16:09	BC	XCTD-3		XCTD 62	74°10.32	152°04.07	3791	1100			HM/SS		S/N 06026784
															*CTD config changed →
29	XCTD-63	04:03	BE	XCTD-3		XCTD63	75 29.63	149 50.16	3779	1100			JE/MD	No	
29	CB-7	08:20	BE	ROS	UN	49	76° 0.226'N	149° 59.324'W	3780		673-696	24	SN	✓	CTC check for plastic cup
		09:43	BO				76° 0.161'N	149° 58.296'W	3780	3820+9					
		11:27	EN				76° 0.046'N	149° 56.749'W	3780						
29	CB-7	08:45		Nets		17-20	76° 0.046'	155° 56.745	3780	100m x 2			HM		2 at 30m 2 at 100 <i>(for the table)</i> <i>60m</i>
29	XCTD-64	15:20	BE	XCTD-3		XCTD64	76° 29.95	149° 56.35	3777	1100			SN/AS		S/N 06026799
29	ITP-1		BC	DRIF		140/141/142	76° 34.81	149° 54.35	3779	—	140/141/142		AS/H.M.		ICE CHUMMIES
	CB8	17:23	BE	ROS	UN	50	76 57.511	149 52.967	3819	3814 ⁺ ₁₀	697-		SE/MD/SS		
		20:42	BO				76° 54 433	149° 53.024							
		22:01	EN				76° 57.307'	149° 52.863'	3819						
	CB	22:07	BE	DR1			76 57.291	149 52.278	3819		143, 144, 145		MD		ICE CHUMMIES
30	XCTD 65	0230	BE	XCTD 3		XCTD65	77 29.82	149 56.46	3821	1100			JE/MD		S/N 06026797

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Aug 28 before CB7

- removed primary DO sensor S/n 0820
- DO 0435 now only DO sensor on its own cable (not split as was used when there were two sensors)
- added Wetlabs C-Star transmissometer S/n CST993-DR on split cable with fluorometer, so CTD voltage channels are:
 - 0 - fluorometer (Seapoint)
 - 1 - Primary transmissometer (CST993-DR)
 - 2 - Secondary transmissometer (CST-662-DR)
 - 3
 - 4 - Altimeter
 - 5 -
 - 6 - SBE43 DO 0435
 - 7 -

Calculated Seabird slope & intercept calibrations for both transmissometers

	993	662		
V_{clean}	4.767	4.802	} in air	Note: V_{clean} wanders with time scale of ~ 20 s by $\pm \sim .01$
V_{blocked}	0.056	0.056		
	↓			
M	19.314	19.141		
B	-1.082	-1.072		

New can file 200618-Aug28 can.

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								
30	CB-9	08:02	BE	ROS	US	51	77° 58.969' N	149° 52.272' W	3819	1000	721-744	24	SN			
		08:38	BO				77° 58.956' N	149° 52.294' W	3819							
		09:34	BN				77° 58.954' N	149° 52.290' W	3819							
30	CB-9	10:48	BE	ROS	UN	52	77° 58.980' N	149° 52.219' W	3819		745-768	24	SN			
		12:07	BO				77° 59.004' N	149° 52.185' W	3819	3813+9						
		13:36	BN				77° 59.039' N	149° 52.182' W	3819							
30	CB 9		BC	DRIF			77° 59.75	149° 56.63			146/147/148		HM/SN/AS		ICE CHUMMIES	
30	CB 9	11:15		Net		21+22	77° 59.75	149° 56.63	3819	100m			HM			
31	XCTD66	0013	BE	XCTD3		XCTD66	78 09.20	151 41.88	3817	1100			JE/LW	No	S/n 06026798	
31	XCTD67	0304	BE	XCTD3		XCTD67	78 17.07	152 58.62	3177	1100			JE/MD		S/n 06026801	
															lots of brown strings	
31	CB10	0501	BE	ROS	UN	53	78 18.09	153 12.58	2419		769-792	24	JE/MD/JS	VV	algae in broken ice.	
		0601	BO				78 18.02	153 12.60	@ 1480m	2444+10						
		0649	EN				78 18.02	153 12.66	2416							
31	CB10	7:26	BO	DRIF			78° 17.81'	153° 24.68'	~2400 804?		149/150/151		HM		ICE CHUMMIES	

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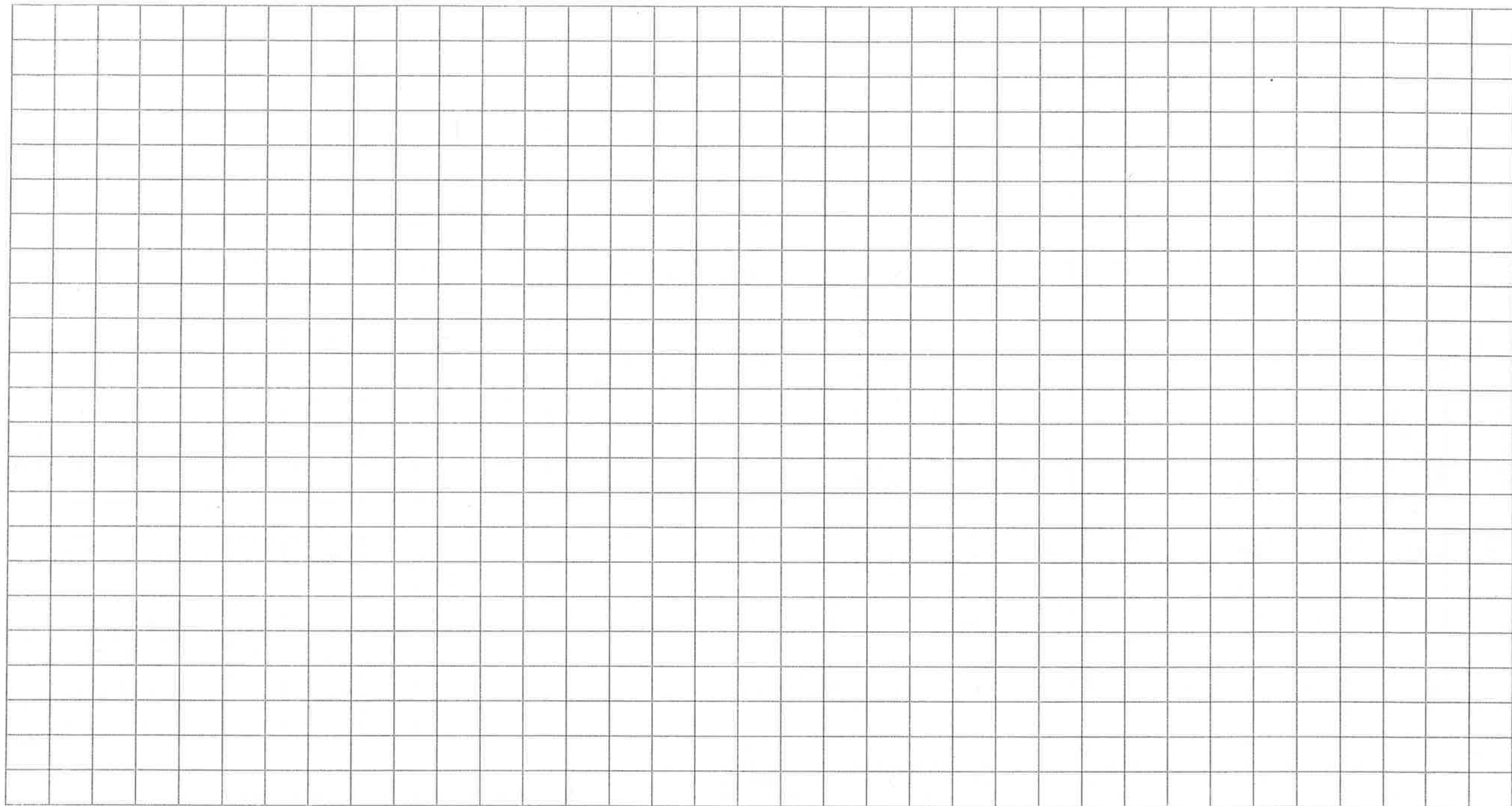
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DAILY LOG

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							
31	CB-10a2	09:13	BE	ROS	US	54	78° 20.566' N	153° 29.082' W	1821	1000	793-816	24	SN		
		09:34	BO				78° 20.576' N	153° 29.070' W	1819						
		10:10	EN				78° 20.598' N	153° 29.045' W	1818						
31	CB-10a2	11:11	BE	ROS	UN	55	78° 20.641' N	153° 28.969' W	1816		817-840	24	SN		
		12:02	BO				78° 20.684' N	153° 28.819' W	1824	1897+10					
		12:44	EN				78° 20.724' N	153° 28.692' W	1835						
31	CB-10a2	12:56		DRIF			78° 20.72' N	153° 28.40' W	1907		152/153/154		MM		ICE CHUNKS
31	CB-10a	16:12	BE	ROS	UN	56	78° 19.370' N	154° 4.075' W	990		841-864	24	SN		
		16:44	BO				78° 19.416' N	154° 3.245' W	994	994+6					
		17:09	EN				78° 19.450' N	154° 2.672' W	994						
31	XCTD68	1813	BE	XCTD3		XCTD68	78 21.63	154 58.62	948	930			JE		2/06026800
31	XCTD69	1925	BE	XCTD3		XCTD69	78 25.11	154 40.53	1541	1100			JE/MD		2/06026804
01	XCTD70	0159	BE	XCTD3		XCTD70	78 27.62	154 48.81	1800	1100			JE/MD		2/06026803

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[illegible]

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>September</u>			Year <u>2006</u>			Ship <u>LOUIS ST LAURENT</u>			Cruise ID <u>200618</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							
01	XCTD71	0323	BE	XCTD3		XCTD71	78 32.37	153 51.38	2011	1100			JE/MD		s/n 06026802 noise on Cord below 800m
01	XCTD72	0403	BE	XCTD3		XCTD72	78 33.60	153 38.86	2516	1100			JE/MD		s/n 06026805
01	XCTD73	0514	BE	XCTD3		XCTD73	78 37.02	153 13.26	3760±	440			JE/MD		s/n 06026806 wire broke @ 440m, 2nd probe deployed
01	XCTD74	0518	BE	XCTD3		XCTD74	78 37.03	153 12.65	3734	1100			JE/MD		s/n 06026807
01	XCTD 75/76		BE	XCTD 3		XCTD 75	78° 46.05	152° 08.70	3814	1100	075/076		HM/S.N		26020608 s/n 06026816 ✓
01	CB-11	14:10	BE	ROS	UN	57	79° 0.446'N	149° 59.614'W	3812		865-888	24	HM/HD, AS, SN		
		15:30	BO				79° 0.799'N	149° 56.991'W	3811	3208+10					
		16:48	EN				79° 1.195'N	149° 53.275'W	3811						
01	CB11	1700	BE	drif			79 01.09	149 41.92			155,156,157				ice chummies
	ON ICE WORK (TRANSVERSE CT + PRR)														
02	XCTD77	0520	BE	XCTD3		XCTD77	78 30.18	150 02.07	3815	1100			JE/MD	No	s/n 06026813

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A full-page sheet of white graph paper with a uniform grid of thin black lines. The grid consists of 20 columns and 20 rows, creating a total of 400 small squares. The paper is oriented horizontally and contains no other markings or text.