

DAILY LOG BOOK

MISSION
NUMBER

2005-04

DATE:

From: Resolute 29 July 2005 to: 1 September 2005

VESSEL:

CCGS Louis S St-Laurent

PROJECT:

JWACS 2005 / BGF E

JOLS

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

The format for labels is:

Sample number	001
Sample type	ALK
Station name	LG01
Cruise ID	2002-12
Bottle number	BOT 1

Rosette Setup:

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

Winches:

1. Make:	_____	model:	_____	serial #:	_____	used for:	_____
2. Make:	_____	model:	_____	serial #:	_____	used for:	_____
3. Make:	_____	model:	_____	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: _____

Salinometer: make: _____

model: _____ serial number: _____

Comments: _____

Thermosalinograph System:

Program: _____ Version: _____

Sampling interval (seconds): _____

Fluorometer sensor serial number: _____

Comments: _____

ADCP Setup:

Computer time zone: _____

User Exits: Name: _____ Exit points: _____

Sampling interval (sec): _____

Name: _____ Exit points: _____

Bin Length: (2^x): _____

Name: _____ Exit points: _____

Pulse Length: _____

Work File: _____

Buffer (bytes): _____

Gyro Offset: _____

Comments: _____

Comments: _____

Guide to cable terminations:

Date of cable termination: _____

Please read and complete this form before reterminating cable. We have two standard CTD cables in use, nominal .316" and .322". This form specifically addresses these two cables, however the same considerations apply to using other cables. The specifications for non-standard cables and associated terminations are available at Tom Juhasz's office (room 1221).

Please identify nominal cable diameter:

Actual diameter measurements, two locations in triplicate at termination and approximately 5 metres back from termination.

At cable end:

1. _____
2. _____
3. _____

at 5 metres:

1. _____
2. _____
3. _____

For comparison, the outer armour measurements of new cable:

Nominal .316" should be .3155 to .3165"

Nominal .322" should be .318 to .326"

Record specifications for other cables: _____ within: _____

The tolerance of the PMI Evergrip termination is tighter and only cables within these limits should be used.

For nominal .316" cable the lowest possible diameter is .309"

For nominal .322" cable the lowest possible diameter is .321"

Describe cable:

Kinks: _____

Birdcage _____

Rust flaking off cable _____

Cable round or oval _____

Does cable have loose outer armour? _____

(Raised wires or space between wires.) _____

Are outer armour wires flattened? _____

(flaking, not just looks rusty)

Remove cable that exhibits these signs of deterioration. To be authorised by Chief Scientist of the cruise, or the winch shop (Tom Juhasz at 250-363-6598).

Megger results by conductor (should be greater than 10,000. meg ohms)

Inner armour to conductor 1 _____

Inner armour to conductor 2 _____

Inner armour to conductor 3 _____

Please identify PMI sleeve used by checking the appropriate blank:

For .316" cable, diameter of inner dimension of sleeve should be .3265" _____

part number 9004897-13, cable diameter range .309" to .320". _____

For .322" cable, diameter of inner dimension of sleeve should be .3400" _____

part number 9004897-14, cable range .321" to .333". _____

Sliding the sleeve onto the cable should be difficult.

Evergrip helical Rods:

The part number is 9005-9002 and covers left hand lay cables of diameter range .309" to .333".

Presence of grit on inner surface (yes / no) _____

Condition of wires (damaged ends?) _____

Are the wires rusted? _____

Comments:

Date of cable termination: _____

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Please identify nominal cable diameter: _____ **Winch:** _____

Actual diameter measurements, two locations in triplicate at termination and approximately 5 metres back from termination.

At cable end:

at 5 metres:

1. _____ 1. _____
2. _____ 2. _____
3. _____ 3. _____

For comparison, the outer armour measurements of new cable:

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Nominal .322" should be .318 to .326"

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Birdcage _____

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Evergrip helical Rods:

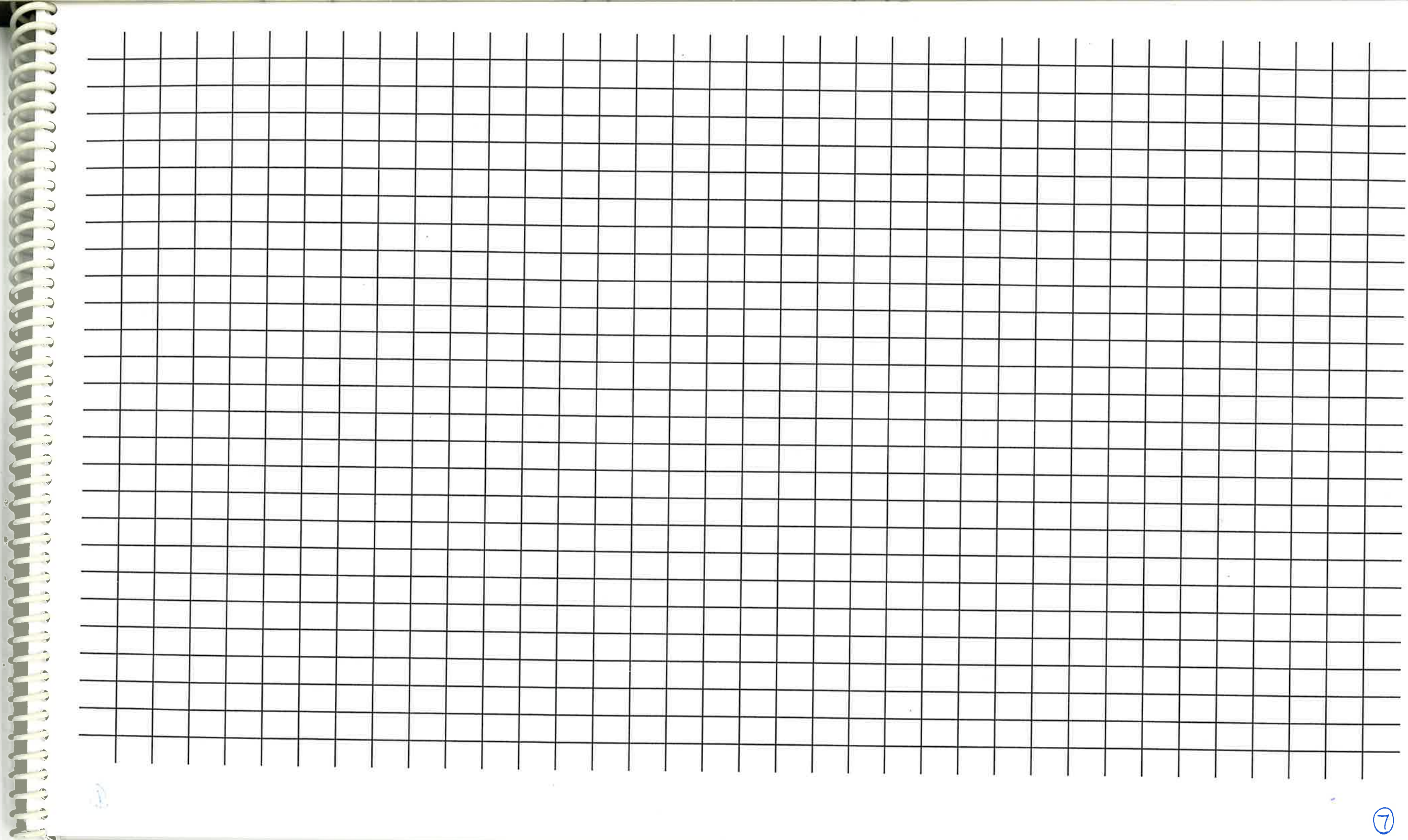
The part number is 9005-9002 and covers left hand lay cables of diameter range .309" to .333".

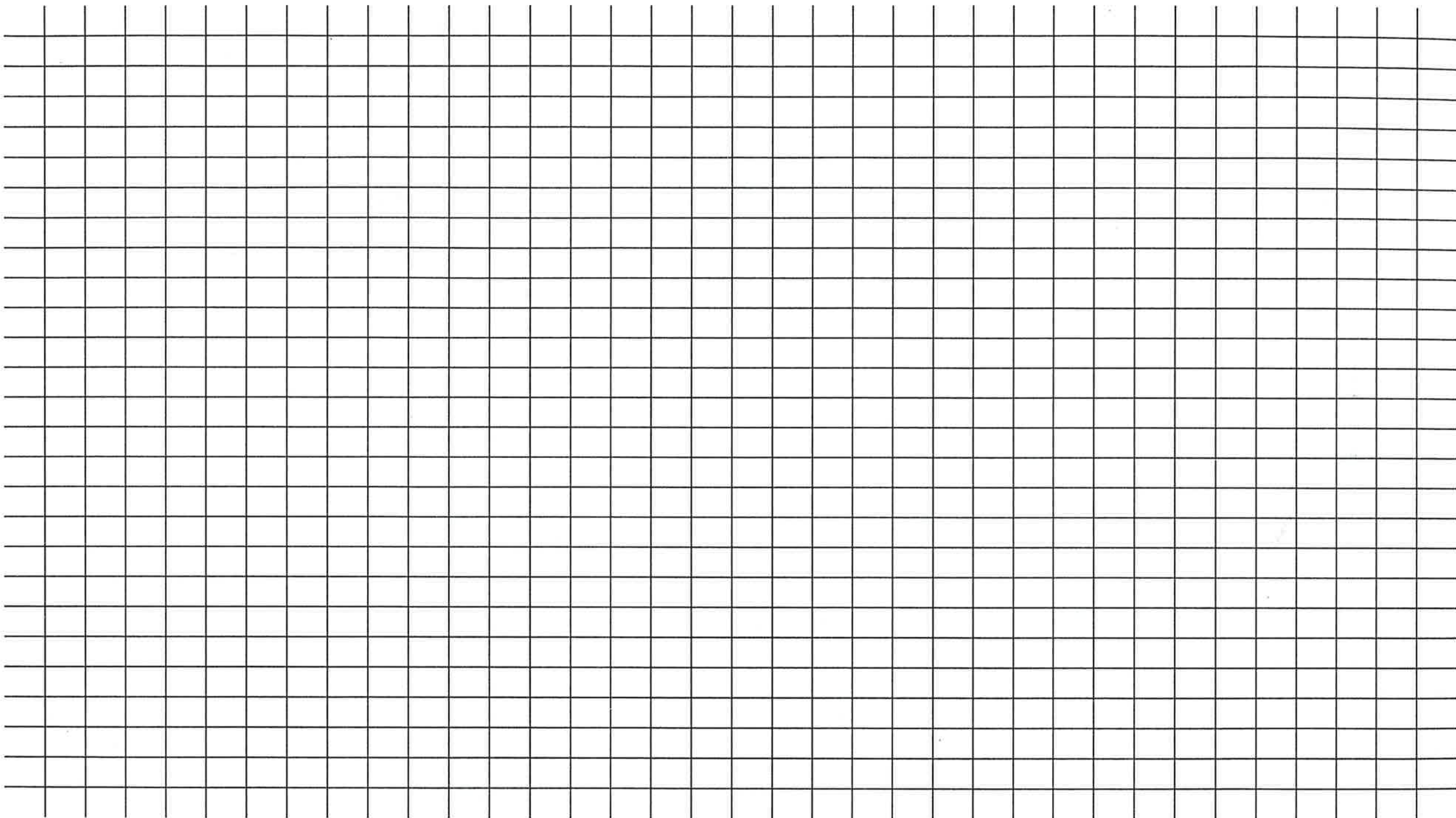
Presence of grit on inner surface (yes / no) _____

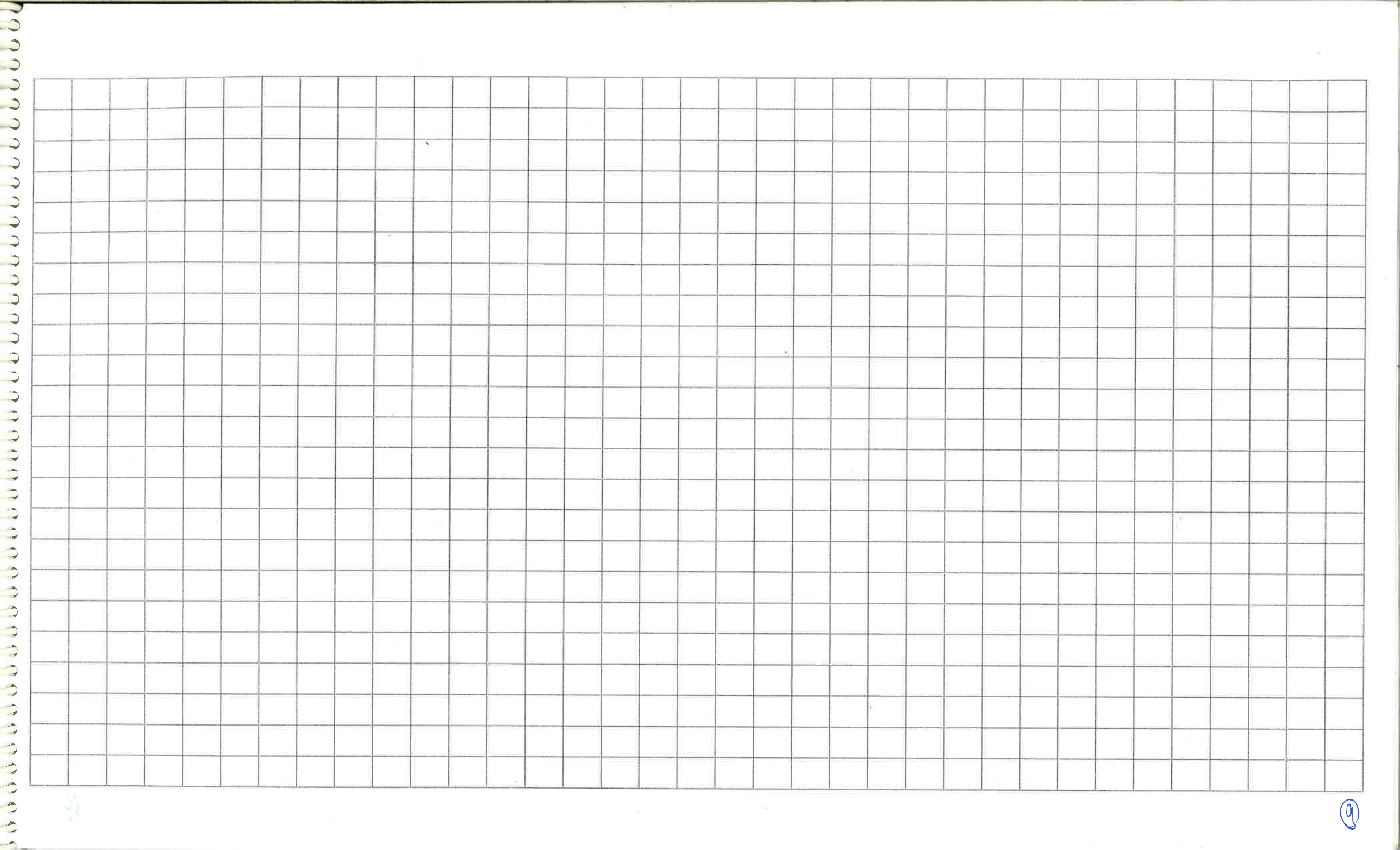
Condition of wires (damaged ends?) _____

Are the wires rusted? _____

Comments:

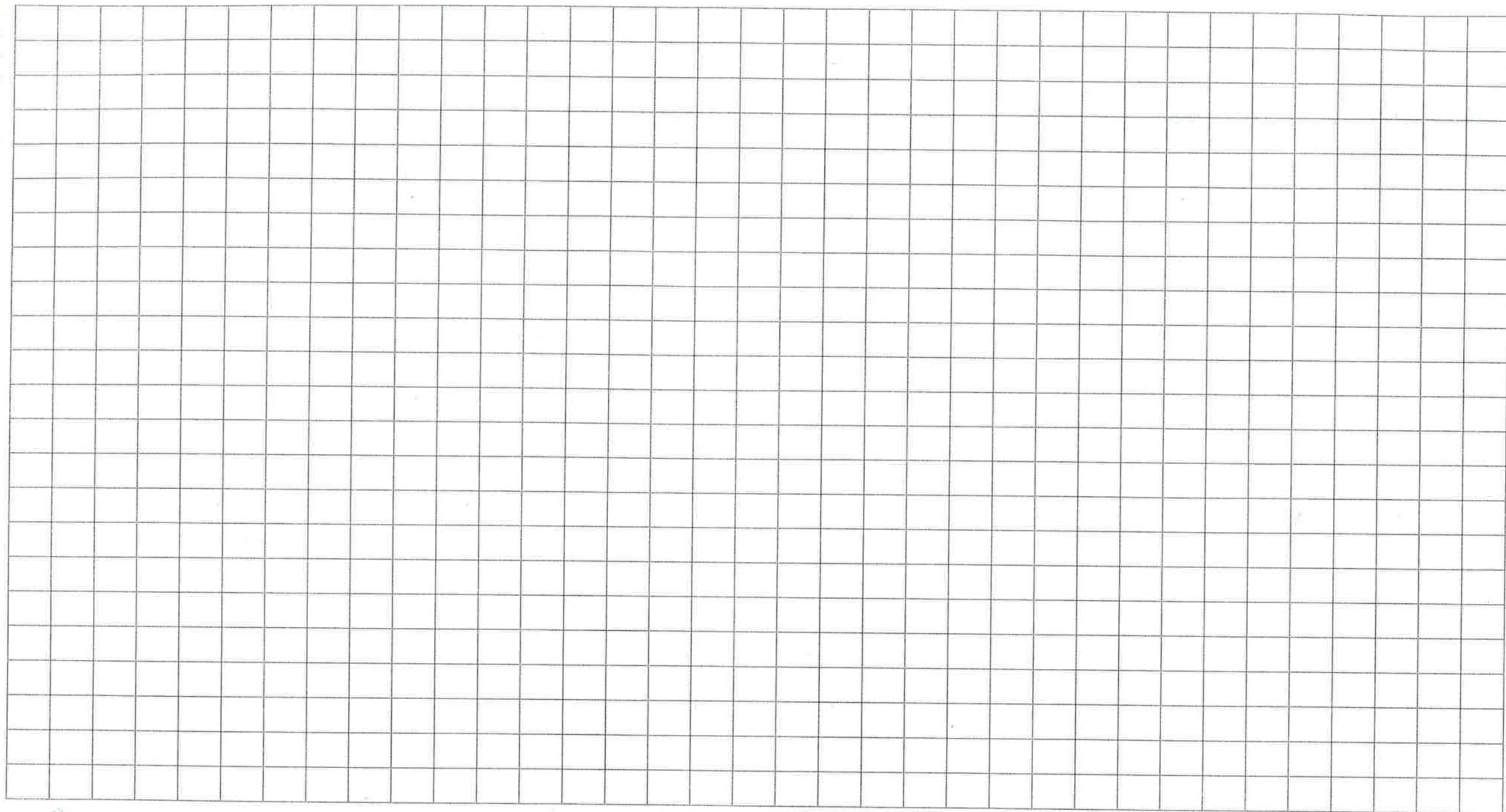






INSTITUTE OF OCEAN SCIENCES

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>July</u>				Year		CAST/		Ship <u>Louis S St Laurent</u>			Cruise ID <u>2005-04</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth <u>(m)</u>	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
<u>29</u>	<u>X</u>	<u>1017</u>	<u>4</u>	<u>weight</u> <u>ROS</u>		<u>—</u>									
<u>29</u>	<u>1</u>	<u>1125</u> <u>1625</u>	<u>4</u>	<u>ROS</u>	<u>UN</u>	<u>1</u>	<u>74 15.88</u>	<u>95 23.34</u>	<u>~200</u>		<u>1 - 8</u>	<u>24</u>	<u>DS/SZ</u> <u>MH</u>	<u>NO</u>	<u>all bottles closed to</u> <u>check for leaks</u> <u>NOT sampled off for</u> <u>~ 2 hrs</u>
<u>31</u>	<u>2</u>	<u>0254</u> <u>1710</u>		<u>ROS</u>	<u>UN</u>	<u>2</u>	<u>68° 35.4'</u> <u>35.7</u>	<u>101° 26.6'</u> <u>26.5</u>	<u>410-7</u>		<u>9 - 13</u>	<u>5</u>	<u>DS/SZ/</u> <u>MH</u>	<u>NO</u>	<u>Victoria Strait</u>
<u>31</u>	<u>3</u>	<u>1710</u> <u>1800</u>		<u>ROS</u>	<u>UN</u>	<u>3</u>	<u>68° 42.37'</u> <u>42.4</u>	<u>102 45.8'</u> <u>45.8</u>	<u>Bridge</u> <u>106-9</u>		<u>14 - 18</u>	<u>5</u>	<u>DS/SZ/</u> <u>MH</u>	<u>NO</u>	<u>" " "</u>
<u>31</u>	<u>4</u>	<u>2010</u> <u>2140</u>	<u>BC</u>	<u>ROS</u>	<u>UN</u>	<u>4</u>	<u>68 42.0</u>	<u>103 46.2</u>	<u>(CTD)</u> <u>103</u>	<u>105</u>	<u>19-24</u>	<u>6</u>	<u>DS/SZ</u> <u>MH</u>	<u>NO</u>	<u>6900 scan</u> <u>" "</u>
<u>CAMBRIDGE BAY Pick Up Science Team 01 August</u>															
<u>AUGUST</u>															
<u>3</u>	<u>AGS</u>	<u>1147</u>	<u>BC</u>	<u>ROS</u>	<u>UN</u>	<u>5</u>	<u>70 33.10</u>	<u>122 54.26</u>	<u>641</u> <u>638</u> <u>1092</u>	<u>638</u>	<u>25-45</u>	<u>21</u>	<u>XW/DS</u> <u>52</u>	<u>Yes</u>	<u>common for</u> <u>error on upcast</u> <u>not sure</u>
<u>4</u>	<u>CABOS</u>	<u>0455</u>	<u>BE</u>	<u>ROS</u>	<u>UN</u>	<u>6</u>	<u>71 46.11</u>	<u>131 49.07</u>	<u>1100</u>	<u>1093</u>	<u>46-68</u>	<u>23</u>	<u>SE/WW</u>	<u>Yes</u>	
<u>4</u>	<u>CABOS</u>	<u>0915</u>	<u>BE</u>	<u>NET</u>		<u>N1</u>	<u>71 46 99</u>	<u>131 52 44</u>	<u>1100</u>	<u>100</u>			<u>H.M./J.C./W.B.</u>		<u>BONGO</u>
<u>4</u>	<u>CABOS</u>	<u>0831</u>	<u>BE</u>	<u>NET</u>		<u>N2</u>	<u>71 46 88</u>	<u>131 51 44</u>	<u>1100</u>	<u>100</u>			<u>"</u>		<u>2nd BONGO</u>
<u>9</u>	<u>CABOS</u>	<u>0837</u>	<u>BE</u>	<u>ROS</u>	<u>US</u>	<u>7</u>	<u>71 46 25</u>	<u>131 52 01</u>	<u>1748</u>	<u>500</u>	<u>69-73</u>	<u>5</u>			<u>Bottle flushing</u> <u>test cast</u>

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

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Cast / Event 5

← not sure where bottle 9 really tripped. Bottle file missing tag for bottle 9.
May have been caused by cross talk b/w "talk back" system +
CTD cable.

Aug 2/3 clocks moved back 1 hr at midnight : Local is -5 UTC

Aug 3/4 clocks moved back 1 hr at midnight Local is -6 UTC

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							
4	CABOS	10:28	BE	ROS	UN	8	71°45.80	131°51.55	1120	1000	74-91	18	WW HAM	?	Bottle flushing test cast
4	CABOS			MOR	RE	M-1									
4	XCTD 1	17:33	BE	XCTD-3		XCTD -	71°42.030	132°34.000	1200	1100					
5	XCTD 2	03:08	BE	XCTD-1		XCTD -	71°11.073	134°57.800	750	784					Touch the bottom 784
5	XCTD 3	18:38	BE	XCTD-1		XCTD -	70°56.578	135°23.04	1450	1100					
5	CB2/CB-28B A80	28:36	BE	ROS	UN	9	70°35.10	139°59.80	871	866	92-112	21	WW	✓	
5	CB-TA ^{CB}	17:36	BE	ROS	UN	10	70°58.98	139°58.98	2079	2073	113-136	24	WW	✓✓	1st scan 6000
5	XCTD 4	21:06	BE	XCTD-1			70°59.977	141°29.951	2526	1100					Fog
5	XCTD 5	23:31	BE	XCTD-1			71°00.010	142°59.810	1400	1100					Fog
6	XCTD 6	01:47	BE	XCTD-1			70°59.895	144°29.994	600	653					Fog touch bottom

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REPLACED BOTH SHAFT 'O' RINGS ON SPIGOT SHAFTS OF OCEANTEST BOTTLES #7 + #8 ON ROSEATE

DAILY LOG

Ocean Sciences and Productivity Division

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Month		August		Year		2005		Ship		LS St Laurent		Cruise ID		2005-04	
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							
6	XCTD 7	04:09	BE	XCTD-3			76° 59.895	146° 01.976	1400	1100					
6	XCTD 8	06:58	BE	XCTD-3			71° 06.655	147° 29.565	1050	1073					Fog touch bottom
6	B33A	2022	BE	CTD	n/a	011	71° 21.89 N	151° 58.23 W	89	90	—	0	Je	✓✓	CTD only, at scan 7600
									↑	ships sampler at 9m well cor.					
										water depth 90 → 72 ft fr.			CTD		st, end press -0.1/-0.1
														up-	pump of @ 5m to avoid ice crystals.
7	B33	0132	BE	ROS	UN	012	71° 23.87' N	151° 59.77' W	150	150	137-146	10	JE/DS/R/V	✓	comm errors on bot
										+6					fire #4, 56
7	B33-B	0448	BE	ROS	US ^{2min}	013	71° 34.79' N	151° 31.05' W	>1500	1000	147-166	20	JE/DS/R/V	✓✓	for Cesium & I129
7	B33-B	10:58	BE	ROS	UN	014	71° 37.47 N	151° 29.35 W	>1500	1513	167-187	21		✓	
7	XCTD-9	02:39	BE	XCTD-3			72° 28.836 N	149° 53.753 W	3600*	1100					ship stop
7	B33-C	14:45	BE	ROS	UN	015	71° 47.75	150° 50.48	2462	2456	188-210	23			2 files
7	XCTD-10	14:40	BE	XCTD-3			73° 29.923	150° 00.469	3800*						ship stop

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Aug 6 CTD connectors removed & checked - all OK. Altimeter attached more firmly, more vertically

Aug 6 transmissometer test: rinsed w/ ship's water, dried w/ kimwipe

Blocked	0.04, 0.04	} 90
Open	90.2, 90.2	

Aug 7 • Cast 14 first try: - stopped at ~ 250m due to spikes in data
and bottle 25, fired although it had not been fired.
had fire confirmation
on surface, the program times out + does not start.

Doug checked pylon cable + found green on ^{cable end of the} connector to the CTD.

~~The~~ cable replaced but error

Pylon, carousel changed out

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship		Cruise ID						
Aug				2005			LOUIS ST. LAURENT		2005-04						
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							
7	BS3-D	1920	BE	ROS	UN	016	72° 00.22'N	150° 00 02'W	3108+8	3108	211-234	24	JE/DS/MH	✓	Bottle 4 did not close
8	CB 2	0825	BE	ROS	UN	017	73° 00.12'N	149° 58.45'W	3620	3564	235-258	24			
08	CB3	2113	BE	ROS	US ^{2min}	018	74° 00.22'N	149° 57.54'W		1200	259-278	20	JE/DS/HM	✓✓	Cesium cast
09	CB3	0257	BE	CTD	UN	019, 19a	74° 11.23'N	149° 44.99'W	3830	900	✓	0	JE/DS/HM	✓	DO sensor readout stuck
		0342	BE	ROS	UN	019b	74° 11.39	149° 44.51	3830	3812 +6.5	279-302	24			repeat 19. → see other page
9	XCTD-11	08:50	BE	XCTD-3			74° 29.96	150° 00.12	3800*	1100					ship stop
	CB4			MOR	RE	M2									
10	CB4	00:02	BE	NET	—	N3	74 58.70	149 55.819	—	100			DS/MS		7 Nets rinsed
10	CB4	00:11	BE	NET	—	N4	74 58.75	149 55.819	—	100			DS/MS		inside, need to redo
10	CB4	0044	BE	ROS	UN	20	74° 58.79'N	149° 56.09'W	3830	3820 +4.5	303-326	24	JE/DS/HM/R	✓	

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After BS3D

- CHANGED BOTH TOP 'O' RINGS ON BOTTLE #3 - HAS BEEN PROBLEM INTEGRITY ~~DATA~~.

- Before CB3 check transmissometer cable, reset both ends, Both ends were clean & dry

- Cast 19 : At 600m, switched seaseve overlay windows & noticed DO value was constant at 6.15. Brought up new fixed display & when it popped up, DO value changed - but stayed constant at new value. Repeated behavior. Stopped rosette @ 900m, rebooted PC & brought rosette back to the surface to start a clean cast. Files 19, 19a, 19b are 0-900m, 900-0m, 0-3812-0m. Post processing showed that the DO data was being stored properly; the problem was with the display.

Comm error when bottle 1 was tripped, but because we were using User Input fire it was tripped a second time with no error.

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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							
10	XCTD-12	06:17	BE	XCTD-3			75° 08.51	151° 33.07	3800	1020					ship stop cut
	CB-5	10:13	BE	ROS	UN	21	75° 16.66 N	153° 14.83 W	3843	3838	327-332	11	H/W/L	??	
10	CB5A	1748	BE	ROS	UN	22	75° 34.31 N	155° 33.63 W	3846	3836 +6	338-361	24	Je/DS/m/r?		
10	CB5B	2322	BE	CTD	/	23	75° 37.15 N	156° 09.83 W	2130	2088+6	/	0	Je/DS/H/r ✓		st scan 2000
															air press 0.0/0.0
															1st time through, no sound comm.
11	CB5B	0049	EN			23	75° 37.09 N	156° 10.34 W							
11	XCTD-13	0431	BE	XCTD-3			75° 26.99 S	154° 29.03 W	3800*	1100					ship stop

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2050-2080



Between casts 22 (CBSA) & 23 (CBSB)

- deck unit switched out
- acquisition computer switched out
- AUX1 & AUX2 channels (transmissometer and altimeter) switched

- Transmissometer test after switch showed slow $\sim 1-25$ response time; full scale of at most 89.5 & mostly less ~ 88.4 .

- Issues setting up new PC - configure secure on Start Acquire screen for Comm ports

CTD Data - Comm 1

CTD Data Baud 19200 $\leftarrow$ critical, was 9600.

Deck Unit Modem Port Comm 2

- CTD Lab Electronics had been plugged into unfiltered ship's power, not UPS.
- Transmissometer showed same pattern of offset below 260 & 320 m in downcast.

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							Latitude	Longitude							
11	CB-6	1345	BE	ROS	UN	24	74° 45.20S	147° 45.094	3805	3797	362-385	24	52s	X	→
									from sounder 12kHz portable						
12	XCTD-14	09:13	BE	XCTD-3			74° 52.86	148° 59.84	3800+	1100					ship stop
12	CB54			NET		N5									
* 12	CB54			NET		N6									
	CB54		DE	MOR		M3									WHOT-A
12	CB54	2157	BE	ROS	UN	25	74° 59.29'N	149° 52.45'W	~3840	900	386-409	24	DE/DS/HW/RN	✓	Intrusion study
13	XCTD-15	03:04	BE	XCTD-3			75° 29.353N	149° 53.916 W	3800+	1100					ship stop
13	CB 7	08:14	BE	ROS	UN	26	75° 59.308N	149° 57.898W	3829	3821	410-433	24			
13	XCTD-16	13:29	BE	XCTD-3			76° 19.89	149° 59.51	3800+	1100					ship stop
13	XCTD-17	16:23	BE	XCTD-3			76° 39.76	149° 58.44	3800+	1100					ship stop

Cast type:

BOT = bottle cast, no CTD
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* correction made 18 Sept 05, sz, samples for nets + rosette ~~are~~ still have 'CB5' listed. Original Rosette log sheet ~~corrected~~. CTD files corrected. was correct

②

Transmissometer, LADCP, altimeter not collecting data on this cast.

Oxygen sensor data are still low.

~~Frame~~ 3 releases on frame. Tested @ 3750 all opened successfully.

We suspect the altimeter was interfering w/ the release test yesterday which is why it and the LADCP were turned off. Frequency's are much different but...?

Cast started on deck but first record is at 10 db??

Ship maintenance after CB-6. We shut down for ~8 hrs, then steamed back to mooring site for a.m. deployment. (Deployed 6 min after same cast last yr).

← bottle 7 did not close. It was fired 2x from lab w/ confirmation on second attempt, but clearly did not let go.

Transmissometer did not have any of its prior spikes @ 300-400m. Repositioning has worked! Sensitive to $\pm$ gradient? Optical properties A?

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month AUGUST				Year 2005			Ship LOUIS S. ST. LAURENT			Cruise ID 2005-04					
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	CB-8	1921	BE	ROS	UN	27	76°59.34'N	150°00.95'W	3830	3800	434-457	24	JE/DS/HM RN	✓	Bottle 8 replaced before cast.
															Altimeter off.
14	XCTD-18	00:40	BE	XCTD-3			77°19.712	150°01.969	3800*	1100					Ship stop
14	XCTD-19	03:44	BE	XCTD-3			77°38.447	150°03.440	3800*	1100					ship stop
* 14	CB-9	06:50	BE	NET		N7	78°00	149°50.6		100			HM		Formulex cast
14	CB-9	07:20	BE	NET		N8	78°0.045	149°50.478		100			HM		extruded cast
14	CB-9	07:40	BE	ROS	UN	28	78°0.12	149°50.21 W	3824	3816	458-481	24			scan 9500
14	CB-9		RE	MOR											
14	XCTD-20	21:36	BE	XCTD-3			78°19.420	150°00.807	3800*	1100					ship stop
15	XCTD-21	00:58	BE	XCTD-3											

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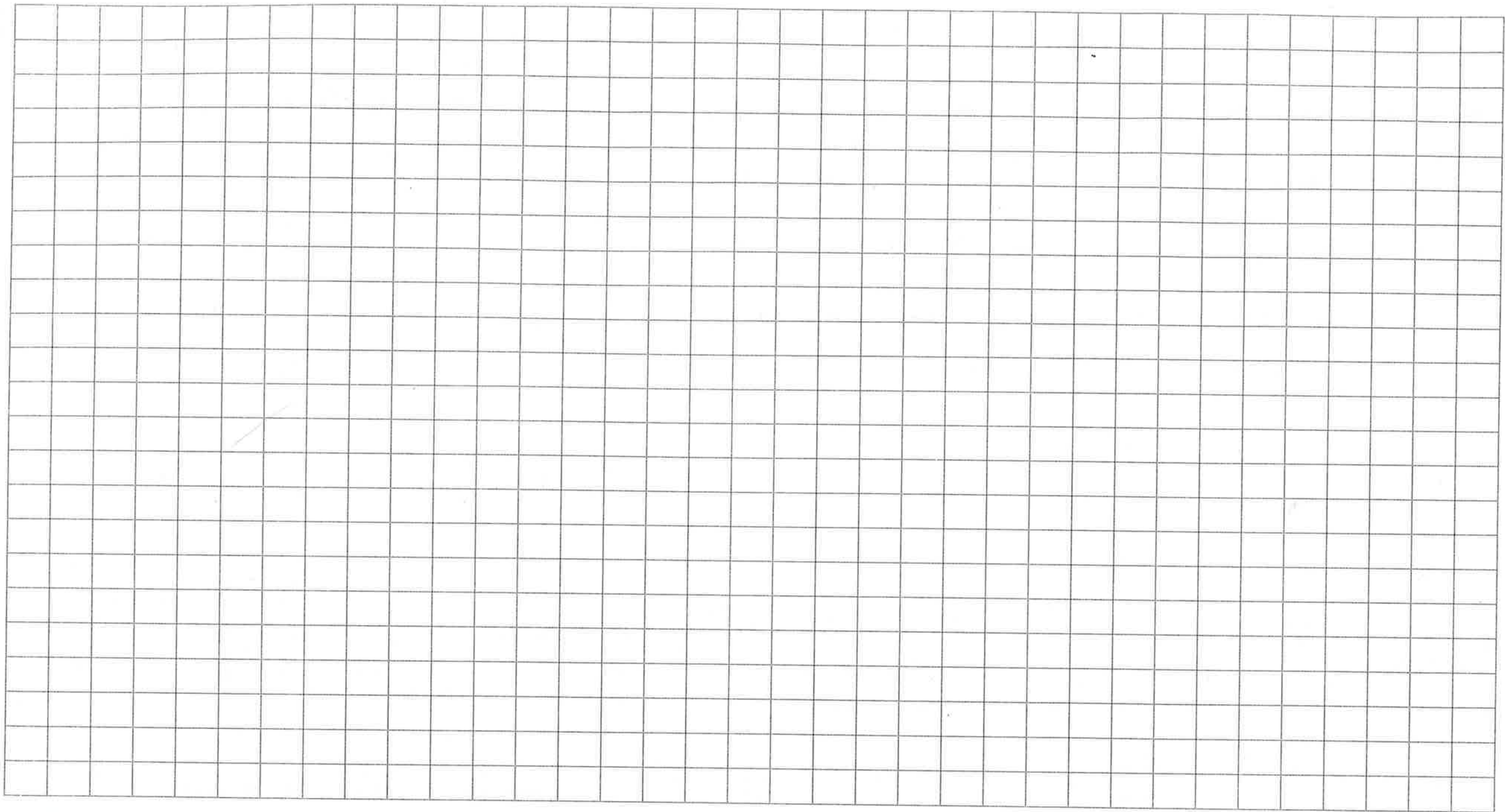
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(24)

100% success rate
was correct



DAILY LOG

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Month				Year			Ship			Cruise ID					
August				2005			LOUIS ST. LAURENT			2005-04					
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							
15	CB11	0336	BE	ROS	US ^{2min}	29	78°58.34N	149°59.67'W	3831	800	481-492	12	JE/OS/ M/H/R	✓	Cesium cast → SSCAN 10000
15	CB11	0453	BE	ROS	UN	30	78°58.51N	149°59.71'W	3831	3812 +6	493-516	24	JE/OS/MH/ RN	✓	
15	Ice floe	10:18	BE	CTD	—	31	78°51.842	150°28.276W	3830	3810	—	—			deck pressure 0.0 9500 scan -0.1
16	XCTD-22	02:17	BE	XCTD-3			78°42.65	151°06.50	3825	1100					ship stop
16	XCTD-23	04:46	BC	XCTD-3			78°34.192	151°46.840	3835	1100					ship stop
16	XCTD 24	06:58	BE	XCTD-3			78 25 27	152 36 66	3840	1100					SHIP STOPPED
16	CB10	08:55	BE	ROS	US	32	78°17.242	153°14.90W	2450	800	517-528	12			Cesium cast
16	CB10	10:21	BE	ROS	UN	33	78°17.107	153°15.142W	2504	2496	529-552	24			
16	CB10a	16:10	BE	CTD	—	34	78 15.685	153°56.898	346	937	—	—			Rollset 0.0 scan 3400
17															

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Cast 29 - First sample is 481, duplicate with last sample # on cast 28, but
only sample taken was Cs137, identical with sample # 482.