

DAILY LOG BOOK

MISSION
NUMBER

2006-18

DATE:

VESSEL:

PROJECT:

From:

to:

Louis S. St LAURENT

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

Captain: _____ First Officer: _____
Second Officer: _____ Third Officer: _____

Mission Participants / Agencies: _____

Scientific Personnel: Name	Party Chief:			
	Watch	Cabin	Name	
_____	_____	_____	_____	Watch Cabin
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Second leg of Mission: Name	Party Chief:			
	Watch	Cabin	Name	Watch Cabin
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Data logging computer: _____

Data acquisition program: _____
CTD deck unit make: _____ model: _____ serial number: _____

Primary 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: _____ P, S or NO pump?
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: _____ P, S or NO pump?
Other sensors: _____ s/n: _____ P, S or NO pump?
Other sensors: _____ s/n: _____ P, S or NO pump?
Other sensors: _____ s/n: _____ P, S or NO pump?
Other sensors: _____ s/n: _____ P, S or NO pump?

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: _____ P, S or NO pump?
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: _____ P, S or NO pump?
Other sensors: _____ s/n: _____ P, S or NO pump?
Other sensors: _____ s/n: _____ P, S or NO pump?
Other sensors: _____ s/n: _____ P, S or NO pump?
Other sensors: _____ s/n: _____ P, S or NO pump?

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

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

Manufacturer:

Volume of bottles (litres): _____

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:

ents:

meter: make: _____ model: _____ serial number: _____

Comments: _____

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: _____ Winch: _____

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

At cable end: _____ 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:

Guide to cable terminations:

Date of cable termination: _____

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

At cable end:

1. _____ at 5 metres: 1. _____
2. _____ 2. _____
3. _____ 3. _____

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Evergrip helical Rods:

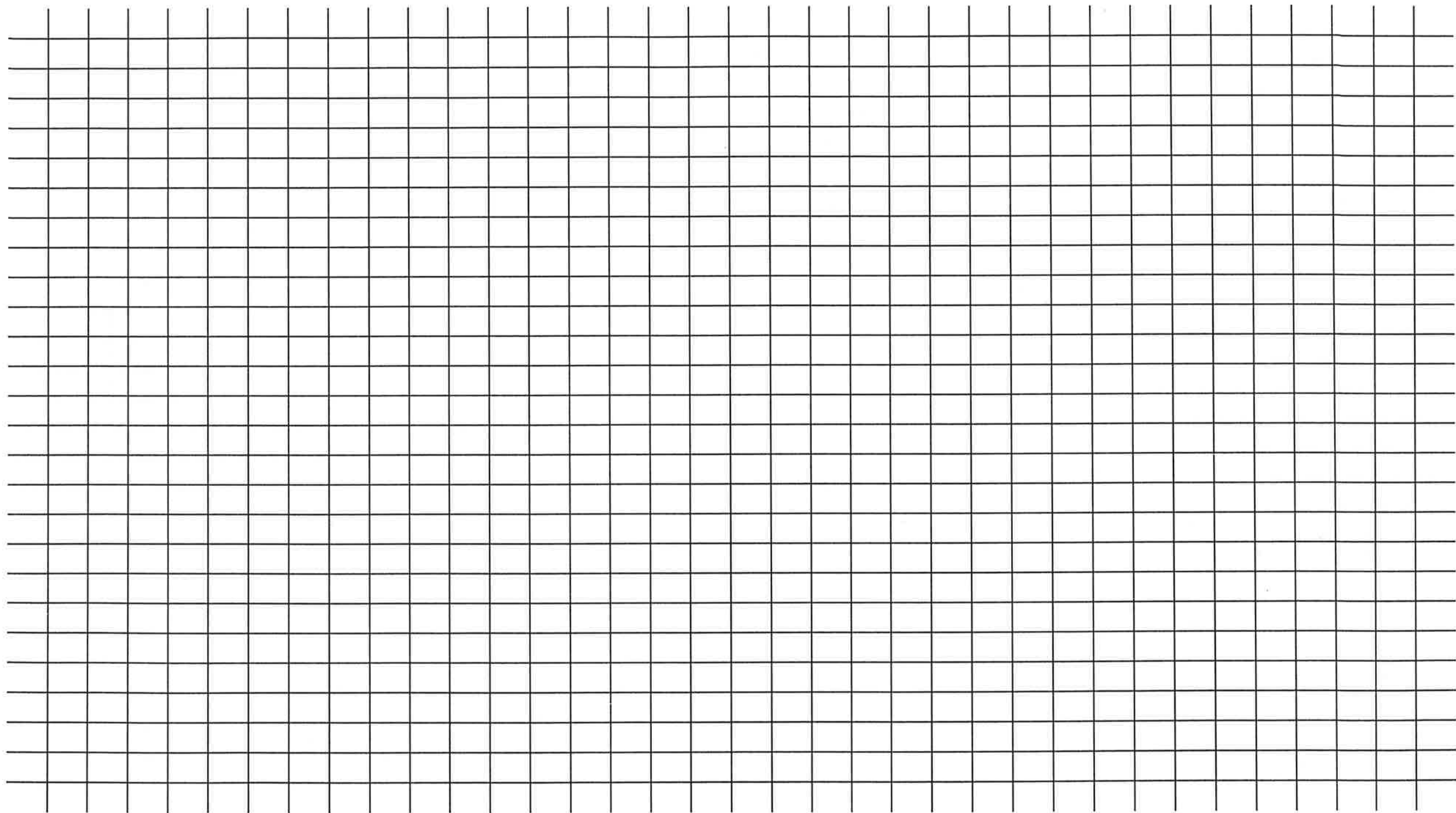
The part number is 9005-9002 and covers left hand lay cables of diameter range .309" to .333".

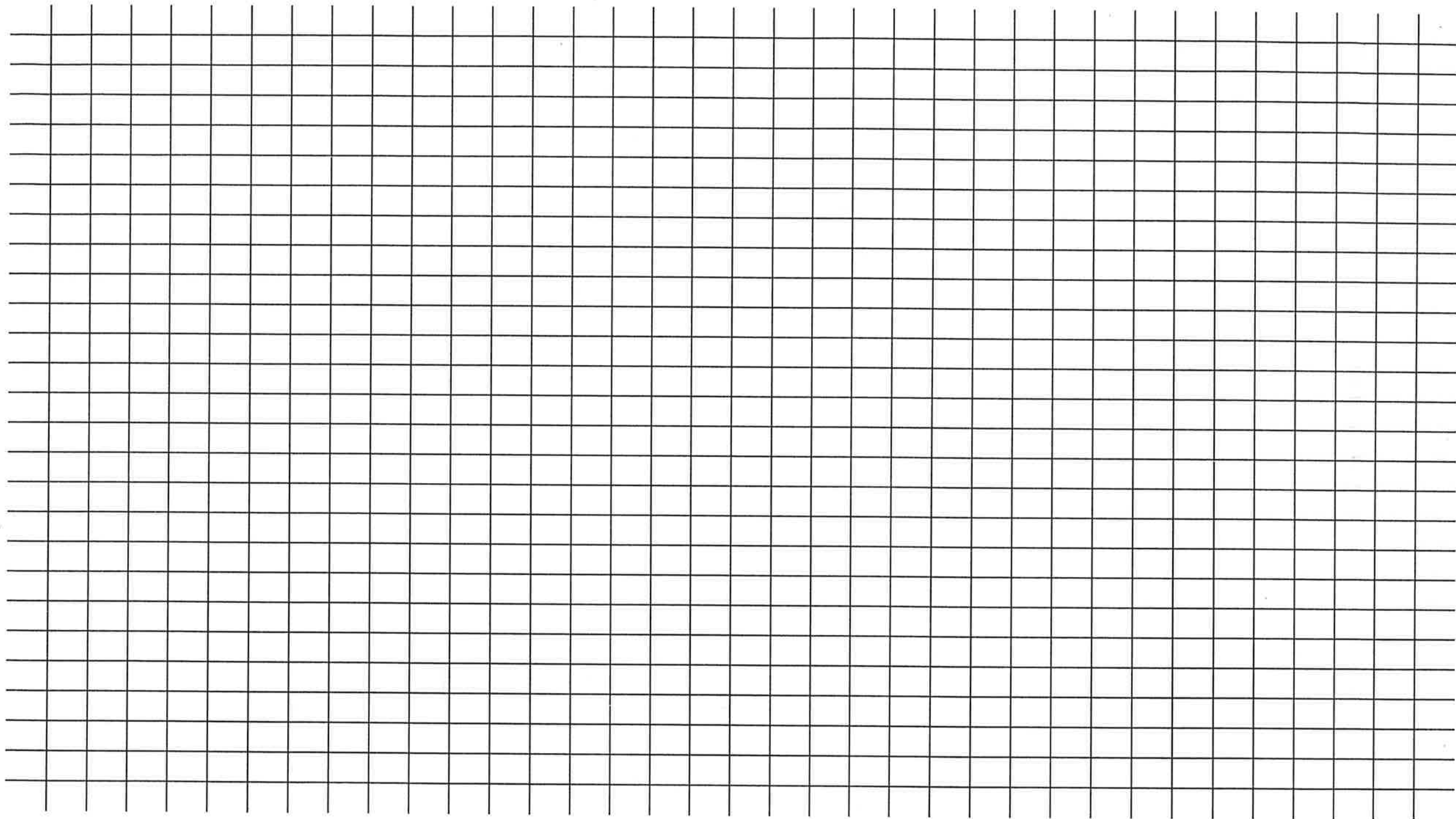
Presence of grit on inner surface (yes / no) _____

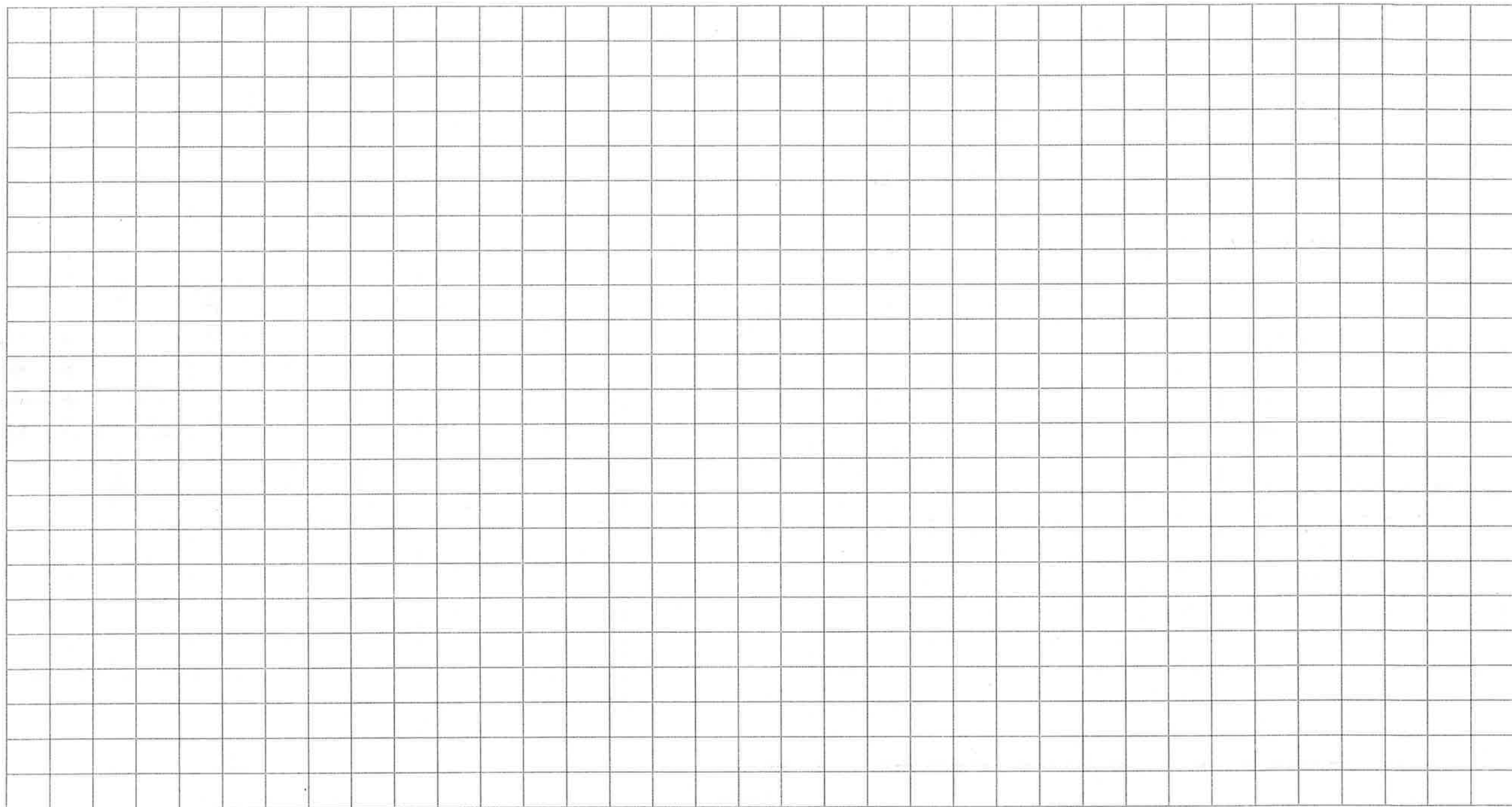
Condition of wires (damaged ends?) _____

Are the wires rusted? _____

Comments:







DAILY LOG

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[illegible]

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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RE = recover mooring time

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

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July 23 Test cast

On deck - secondary DO sensor reporting -1.3, -1.48, primary is 8-10.

- look at config - has DO on A/D 4#5 - looks like should be 647 from cabling on CTD.

- pull in from 200618 200504 altimeter calib Datasonic PSA-19D #1161
31 Mar '05
Scale factor 15
Offset 0

secondary DO 0435 3.038 e-1
0
- 0.495
0.0016
1.35 e-4

primary DO 0820 - same calos 0435 for now

- change config file, save as 200618-0724-16 jul 023 can
looks much better - both DO 2.9-3.2, altimeter 9815.

see over →
for cast comments

Scunder acct operator / Knudsen

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- The two DO sensors disagree entirely - primary looks reasonable, Secondary slowly ramped from reasonable agreement with primary to 99.0.
- Forgot to turn pump on until 147m.
- Bottle 3, 10 did not close. 6, 15, 22 slow leaks with spigot only open.
 - (3 was triggered but latch went when joggled
10 did not trigger)
- Pylm & bottles were rinsed with fresh water

July 24

Hooked up spare JAMSTEC DO sensor in place of 435. It showed same unstable signal (on deck). Moved it to the primary DO spot on A/D 6 and its signal was fine. Looks like either the split cable or the A/D channel are causing the problem.

Secondary DO, A/D 7

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Month JULY			Year 2006				Ship LOUIS ST-LAURENT				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							
25	XCTD1	0346	BE	XCTD1		XCTD001	64 00.06	55 00.06		1100			JE		Ser# 06037325
													file		XCTD-200618-001
	XCTD2	0538	BE	XCTD1		XCTD002	64 19.92	55 32.72	1060	1060			JE		06037324
													file		XCTD-200618-002
	XCTD-3	0729	BE	XCTD1		XCTD003	64 39.97	56 04.78	900	900			JE		06037326
													file		XCTD-200618-003
	XCTD-4	0921	BE	XCTD1		XCTD004	64 59.94	56 38.01	676	676			JE		06037323
													file		XCTD-200618-004
	XCTD-5	1102	BE	XCTD1		XCTD005	65 19.93	57 11.05	610	610			RP		06037322
													file		XCTD-200618-005
	XCTD-6	1245	BE	XCTD1		XCTD006	65 40.11	57 43.77	580	580			RP		06037321
													file		XCTD-200618-006, PAU
	XCTD-7	1420	BE	XCTD1		XCTD007	66 00.63	58 15.21	560	560			RP		06037316
													file		XCTD 200618-007
	XCTD-8	1619	BE	XCTD1		XCTD008	66 19.26	58 49.71	630	630			RP		06037320
															XCTD 200618-008
	XCTD-9	1819	BE	XCTD1		XCTD009	66 39.97	59 21.19	890	630			RP		06037319
									↑						

Cast type:

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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

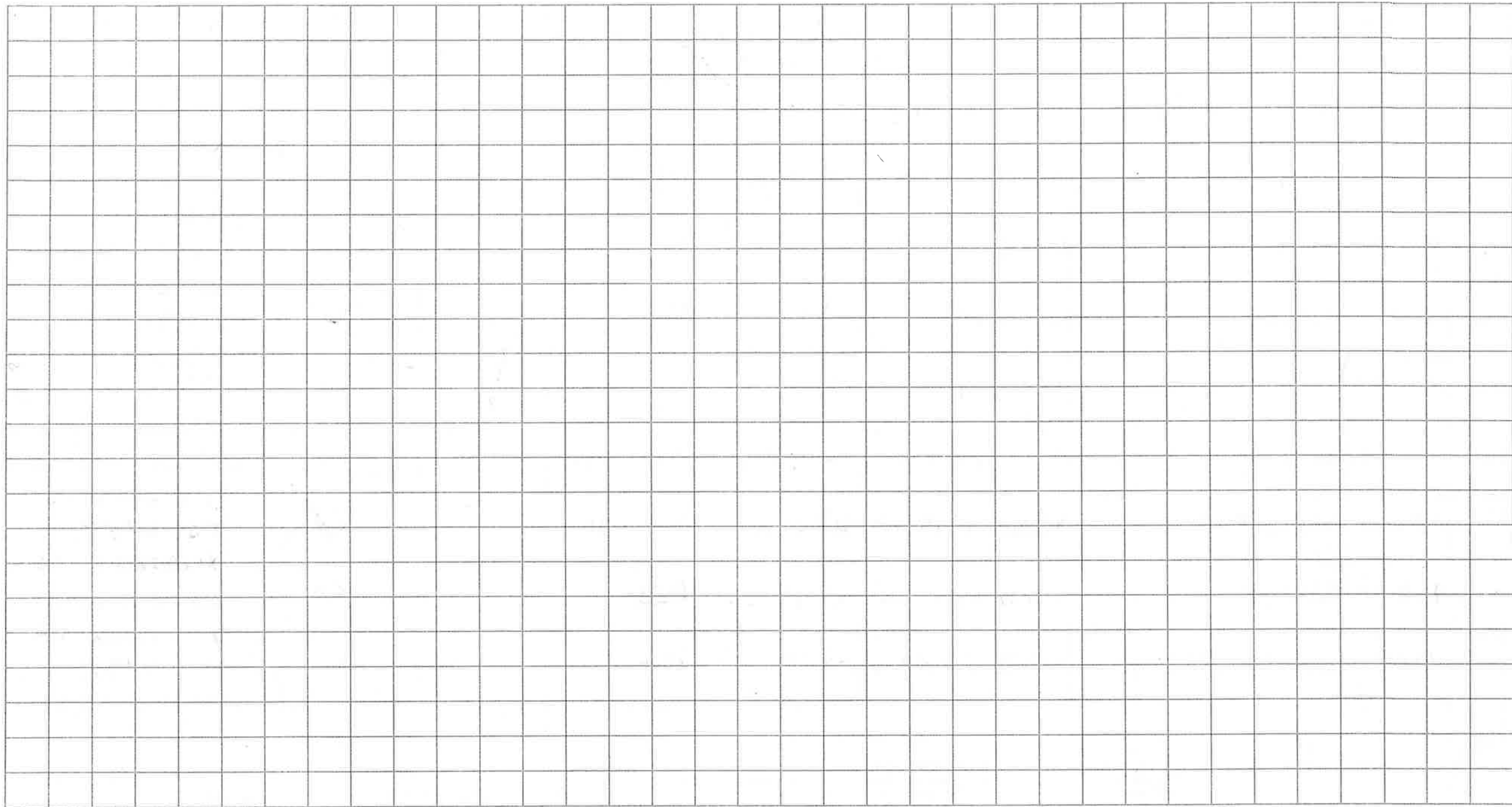
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soundings based on probe max depth

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

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Month <u>June</u>				Year <u>2006</u>			Ship <u>LOUIS S ST-AURENT</u>				Cruise ID <u>2006-18</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	XCTD-10	2015	BE	XCTD1		XCTD-010	66 59.90	59 53.86	939*	—	Sounder, now working		JE		06037317
										940				file	XCTD-200618-010
	XCTD-11	2159	BE	XCTD1		XCTD-011	67 19.98	60 26.99	1045				JE		06037316
										1065					XCTD-200618-011
	XCTD-12	2339	BE	XCTD1		XCTD-012	67 39 90	60 59.63	1517				JE		06037315
										1100				file	XCTD-200618-012
26	XCTD-13	0316	BE	XCTD1		XCTD-013	68 20.54	61 41.29	1730				JE		05032483
										1100					XCTD-200618-013
	XCTD-14	0651	BE	XCTD1		XCTD-014	69 00 03	61 55.36	1851				JE		05032482
										1100				file	XCTD-200618-014
	XCTD-15	11:01	BE	XCTD1		XCTD-015	69 40 07	62 44.86	1970	1100			JE		05032480
															XCTD-200618-015
	XCTD-16	15:24.18	BE	XCTD1		XCTD-016	70 19 99	64 01.62	2077	1100			RP.		05032477
															XCTD 200618-016
	XCTD-17	183521	BE	XCTD1		XCTD-017	71 00 45	64 45 63	2158				RP.		05032474
										1100					XCTD 200618-17
	XCTD-18	2137	BE	XCTD1		XCTD-018	71 40.01	65 29.85	2266				JE		05032479
														file	XCTD-200618-018

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 DRF = drifter

bottle firing method:

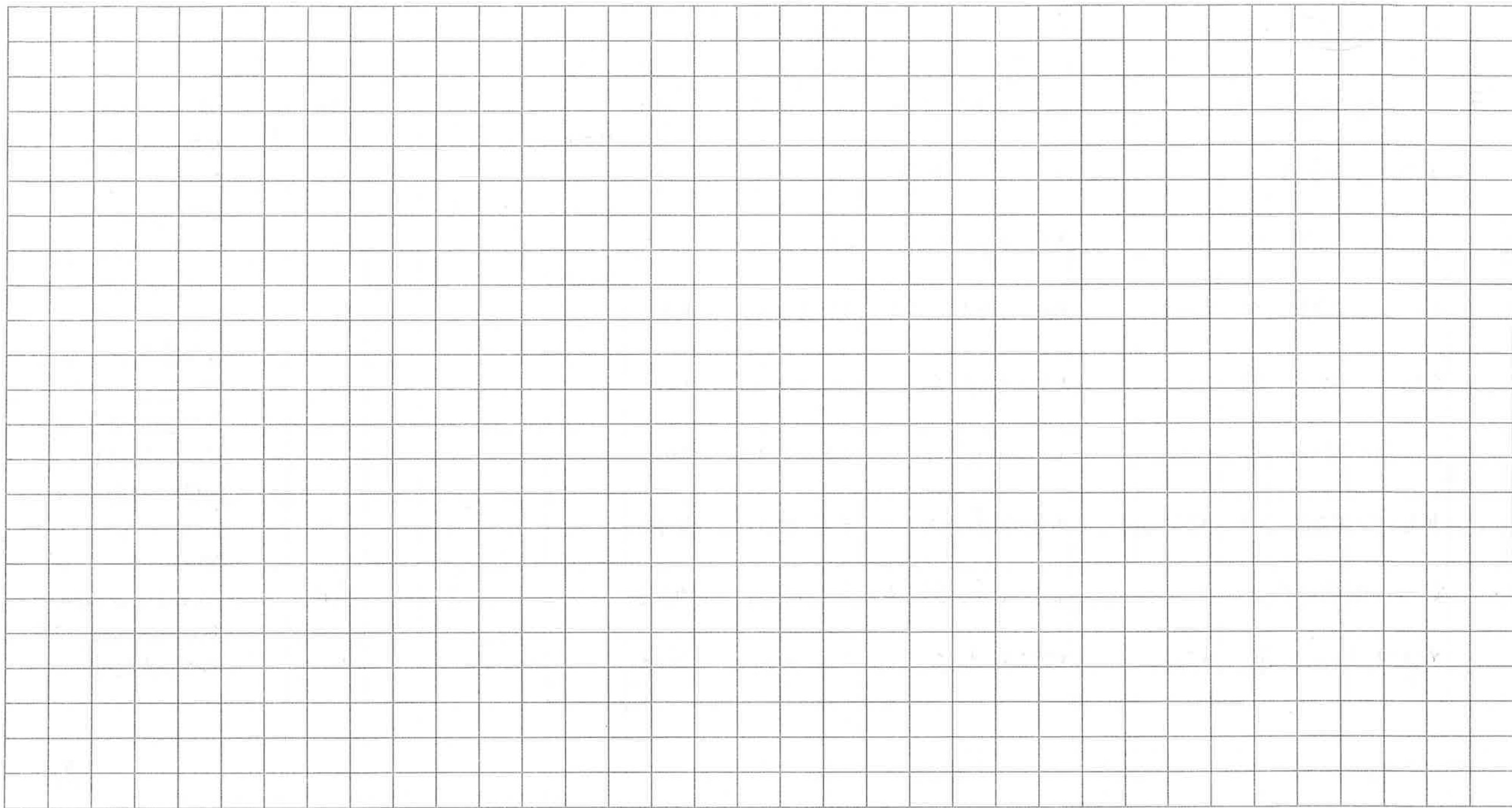
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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Month <u>JULY</u>				Year <u>2006</u>				Ship <u>LOUIS ST-LAURENT</u>				Cruise ID <u>2006-18</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							
27	XCTD-019	0038	BE	XCTD1		XCTD-019	72 20.14	66 17.43	2330				JE	ser#	05032476
										1100				file:	XCTD-200618-019
	XCTD-020	0334	BE	XCTD1		XCTD-020	72 59.90	66 58.59	2346				JE		05032473
										1100					XCTD-200618-020
	XCTD-021	0534	BE	XCTD1		XCTD-021	73 11.39	68 29.35	2329				JE		05032475
										1100					XCTD-200618-021
	XCTD-022	0730	BE	XCTDL		XCTD-022	73 22.45	69 59.41	1686				JE		05032472
										1100					XCTD-200618-022
	XCTD-023	0850	BE	XCTD1		XCTD-023	73 29.96	70 59.45	1217				JE		05032478
															XCTD-200618-023
	XCTD-024	1009	BE	XCTD1		XCTD-024	73 37.35	71 59.42	1089				JE		05032481
															XCTD-200618-024
	XCTD-025	1131	BE	XCTD1		XCTD-025	73 45.13	73 00.01	870				Jm		06037385
															XCTD-200618-025
	XCTD-026	12:48	BE	XCTD1		XCTD-026	73 52.29	74 00.67	833				RP		06037386
															XCTD-200618-026
	XCTD-027	14:03	BE	XCTD1		XCTD-027	73 59.94	74 59.44	813				RP		06037384
															06037383

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bottle firing method:

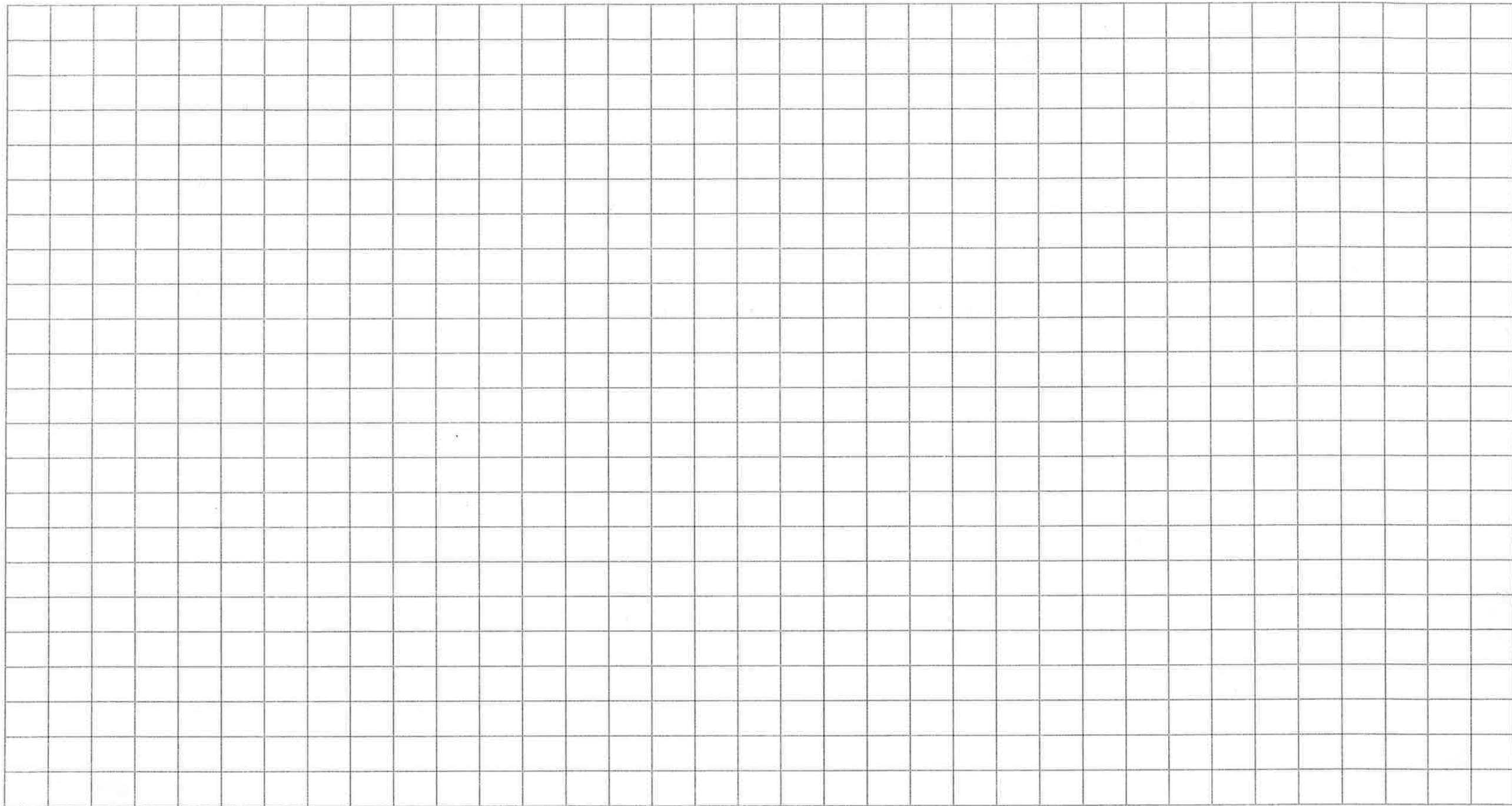
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Month			Year		CAST#		Ship		Cruise ID						
JULY			2006		CAST#		LOUIS ST-LAURENT		2006-18						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keepers	Trans. cleaned	Comments
							Latitude	Longitude							
27	XCTD-028	1947	BE	XCTD1		XCTD-028	74 15.19	77 59.43	815				JE	Ser#	06037383
										808				file	XCTD-200618-028
28	XCTD-029	0135	BE	XCTD1		XCTD-029	74 22.85	84 59.07	536				JE		06037382
										538					XCTD-200618-029
	XCTD-30	0824	BE	XCTD1		XCTD-030	74 19.99	90 00.65	292				JE		06037381
										298					XCTD-200618-030
29	PE1	1242	BE	ROS	UN	001	74 14.57	95 23.09	205		1-8	8	JE/KZ/EC	yes	
			Bo							207					
			EN												
29	PE3	1718	BE	ROS	UN	002	73 42.80	96 05.08	244		9-15	7		NO	#3 did not close
			Bo							235					
			EN												
29	PE5	2304	BE	ROS	UN	003	72 55.57	96 12.48	345		16-28	8		yes	#3 did not close
			Bo							345					
		2321	EN												
30	Ballot	1253	BE	ROS	UN	004	71 58.48	95 01.43	290		24-34	11			Bot 3 at same depth
			Bo							181					
			EN												

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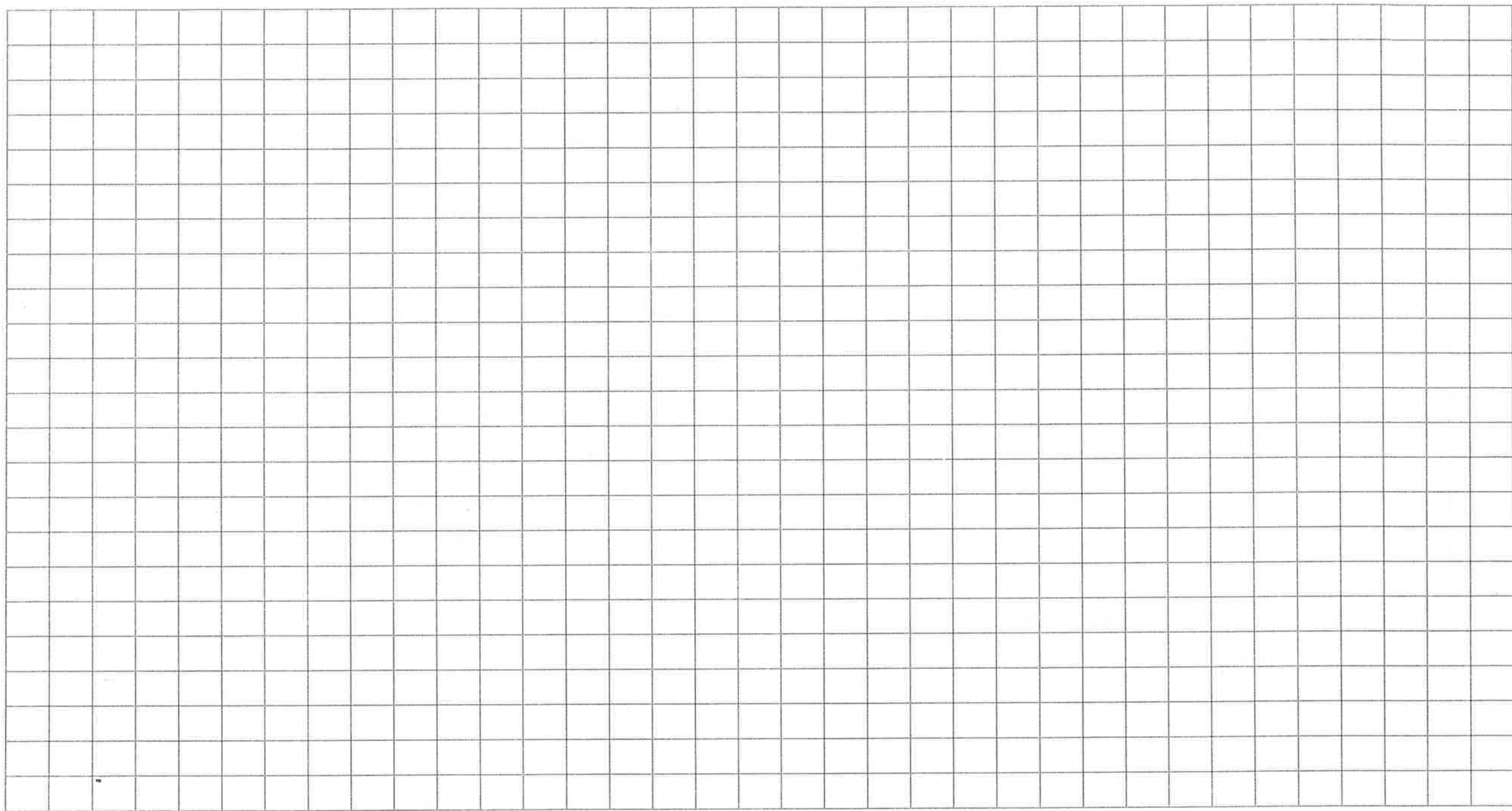
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							Latitude	Longitude							
30	BE3	1717	BE	ROS	UN	005	71 57.40	95 15.42 W	132		35-41	7	JE/SZ	✓	
			BO							125					
		1735	EN				71 57.33	95 15.84							
30	BE3A	1903	BE	ROS	UN	006	71 49.93	96 00.83	427		42-50	9	JE/SZ	✓	Jamtec SBE-19
			BO							422					also deployed →
		1922	EN				71 49.84	96 00.85							
31	7	1242	BE	ROS	UN	007	69 49.28	99 19.69	112		51-55	5	JE/SZ	✓	First down cast made
		1307	EN				69 49.29	99 19.66		106					with pumps off
									50 under hull						start scan 18800
2	QM1	0452	BE	ROS	UN	008	68 52.57	101 51.97	58		56-60	5	JE/SZ	✓	
		0506	EN				68 52.60	101 51.67	1463 m	51+51					CTD depth (m) + altimeter
									1000 m						
2	QM2	0748	BE	ROS	UN	09	68 39.97	103 00.44	119		61-64	4	JE/SZ		
		0757	EN				68 39.94	103 00.66	1463 m	111 (+7)					
									hull						
4	CCG1	1451	BE	ROS	UN	10	68 06.04	114 15.70	215+8		65-70	6			
			EN						1463	24(+5)					
4	Kugaryuak			River+			67 38.9	113 19.19			71-72	2	JE/LF		Shell sample from
	River			Shell											30' above river →

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file name for SBE19 data 200618-006-Sbe19.hex
com

Extra file 200618-sounder.hex .com

is for deployment of SBE-19 on forward winch below a cone so Knudsen sampler
can be calibrated - stops at 100, 150, 200, 250, 300 m.

2006/08/04 - Helicopter flight to shore to observe & sample ripple formations observed
by Eddy Carmack. Flew from I12W to Kugluktuk - no ripples seen.
Stopped at Kugaryuk R about 1m upstream of beach & took
Ba & Nut samples from two spots - one lower flow one fast about
20m apart. Water depth at samples was ~ 60 cm.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <u>AUGUST</u>				Year <u>2006</u>			Ship <u>LOUIS ST-LAURENT</u>				Cruise ID <u>2006-18</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							
7	AGS	1810	BE	ROS	UN	11	70 32.96	122 54.86	642/		73-94	22	everyme	✓	
		1835	BO				70 32.98	122 54.77	1463	635+10					
		1850	EN				70 33.01	122 54.75							
8	CABOS	1910	BE	ROS	UN	12	71 49.055	131 46.534	1112	231	95-109	15	shige	✓	
		X	BO				X	X	1463 m/s						
		1940	EN				71 48.832	131 46.525							
8	CABOS	2056	BE	ROS	UN	13	71° 48.454	131° 46.616	1102	1102-10	110-133	24	shige	✓	
		X	BO				X	X	1463 m/s						
		2208	EN				71° 48.239	131° 46.950							
9	XCTD-31	0440	BE	XCTD1	—	XCTD31	71 29.5	132 57.9	814	814	—	—	SN/JE		Serial 06037380
9	XCTD-32	0904	BE	XCTD1	—	XCTD32	71° 30.07	134 29.86	1456	1100	—	—	HM/MD		s/n 06037379
9	XCTD-33	1312	BE	XCTD1	—	XCTD33	71° 30.32	135 59.96	1803	1100	—	—	HM/MD		s/n 06037378
9	XCTD-34	1755	BE	XCTD1	—	XCTD34	71° 30.47	137° 30.05	2028	1100	—	—	shige		s/n 06037375
9	XCTD-35	2135	BE	XCTD1	—	XCTD35	71° 31.62	138° 54.88	2227	1100	—	—	shige		s/n 06037376
8	CABOS	2300	BE	NET		N1	71° 38.02	131° 47.68	1100	100					BONGO'S X Z
						NZ	"	"							
		2331	BE	ARR			71° 48.45'	131° 46.62'	1100	100					ARR CAST

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8 AGS 1856 BE PRR

70° 32.96' 122° 54.86'

(24)

CTD computer died before cast 12 or 13.

~~New~~ Chemistry computer brought up from main lab and swapped in.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month August				Year 2006			Ship Louis ST-Laurent				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							
10	CB-28a		BE	ROS	UN	14	70°29.681 N	139°59.923 W	655m		134-146	13	HM JJ	✓	Shallow cast for TSS
10	CB-28a	0245		Net	-	N3	70°30 00	140°00 09	655	100			Jane E. HD		BONGO 1
10	CB-28a	0330		Net	-	N4	70°30 00	140°00 09	655	100			JE/HD		BONGO 2
10	CB-28a	0345		PRR	-	P2	70°30 00	140°00 09	655	100					PRR
10	CB-28a	0904	BE	ROS	UN	15	70°30.083 N	140°00.001 W	655m	+5	147-170	24	HM MD JJ		NOTE! some bottles out of depth order
			BO												
		0932	EN												
10	CB-28a	0900		Drifted			70°31.997	139°59.37							ICE CHUMMIES
	XCTD-36	1125	BE	XCTD		36	70°44.98	135°57.76	1464	1100			HM/MD		XCTD 200618-36
10	CB-28B	1316	GM	XCTD		37	70°59.62	131°59.70	2069	1100			HM/MD		XCTD 200618-37
10	CB 28/29		GM	XCTD		38									XCTD 200618-38
				NO GOOD - HUNG UP - LINE BROKE											

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} ~~ice~~ water is still green! As ice is pushed down
under water, green / yellow

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							
10	28/29 Rec 15T	1630		XCTD	X	139	71° 31.18	139° 59.46	2390	658			HM/M.D		28/29 Rec 15T - 39 LINE BROKE @ 650m
11	CB29	0129	BE	ROS	UN	16	71° 59.903	139° 58.634	2654	2664+10	171-194	24	SN/SE/HM		3 releasers test for WHOI moorings at 50m off the bottom (2600m)
		0236	BO				71° 59.099	139° 58.216							
		0439	EN				71° 59.923	139° 59.360							Water is NO
11	CB29	0303		PRR			71° 59.90'	139° 58.63'	2650						longer green
11	CB29			Drift											
11	CB28bb			Drift			71° 15.09 N	139° 59.00 W							
11	CB28bb	1312	BE	ROS	UN	17	71° 14.890 N	140° 00.290 W	2260	2272+9	195-218	24	JJ/HM/M	✓	
11	CB28bb	1321	BE	PRR			71° 14.88	140° 00.29'	2270						
11	XCTD40	1927	BE	XCTD1	-	X040	71° 32.52	141° 29.99	2694	1100	—	—	SN		SN 06037270
11	XCTD41	2224	BE	XCTD1	-	X041	71° 48.19	142° 47.76	2930	1100	—	—	SN		SN 06037271
12	Sta-A		BE	ROS	UN	18	71° 47.304 N	143° 56.344 W	3142	3146	219-242	24	MD/HM/JJ	✓	3 releasers test for WHOI moorings at 50m off the bottom
			BO												
			EN												
12	STA A	1130	EN	NET		N5	71° 47.40	143° 56.75	3300	100			HM/M.D		BONGO - 100m

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Fixed winch during station CB28bb
(Took ~ 2.5 hours for cast)

→ Wire on drum gets mislaid. Tricky spot due to deep (3800m) mis lay.
Stop pull in + out throughout up cast.

→ slow lowering because of badly ~~laid~~ wrapped wire. stop at each end of lay to shuttle over the worn drive to hold wire keep wire from slipping out of place. Bad stuff removed at end but ~~test~~ deeper mis-lay must be corrected for on next cast (STA-A).

→ Cast 18, STA-A:
Deeper mis-lay of wire on winch drum addressed on this cast.
All in place at finish but wire has taped mark now where there is a tricky spot ~~when~~ ~~at~~ when wire wraps onto drum.

Green water at CB-28a, CB-28bb and slightly at STA-A. But not at CB-29 OR BS-3!

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

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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	STA A	1130	EN	NET		N6	71° 47.40	143° 56.75	3300	100			NM/MD		BONGO - 100
	STA A	1130	EN	NET		N7	↓	↓	3300	500					BONGO - 500
	STA A	1134	EN	PRR		?	71° 47.25	143° 57.41'	3300	100			CHINA		PRR to 100m
12	STA A			Drift			71° 46.66 N	143.57.92							
12	Sta-A		BE	ROS	UN	19a	71 46.68	143 57.95	3147.19		243-266	24		?	Cast
			BO							638					Stopped early due
			EN												to ice cond, use
															19, no bottles
12	Sta-A		BE	ROS	US	19	71 46.02	144 08.4	3136.49		243-266	24	JS/HM/MD/AN?		tripped
			BO							1040					
		16:05	EN	ROS			71 46.07	144 4.129							
		16:13	EN	PRR			71 46.02	144° 00.84'	3140						
12	XCTD-42	20:20	BE	XCTD-1	-	XCTD 42	71 22.51	145 30.14	3137	1100	-	-	SN		S/n 06037272
13	XCTD-43	0:40	BE	XCTD-1	-	XCTD 43	71 22.72	146 59.69	2595	1100	-	-	SN		S/n 06037274
1	XCTD-44	0518	BE	XCTD-1		XCTD 44	71° 22.66	148° 29.86	3033	1100					S/n 06037273
	XCTD-45	1039	BE	XCTD	-	XCTD 45	71° 21.95	149° 57.95	1535	1053			NM/MD		S/n 06037275
1	XCTD-46	1408	BE	XCTD		XCTD 46	71 21.85	151 00.02	224	224			NM/MD		S/n 06037275

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* — AUG 13 - 1:30 PM Loc - CHANGED TRIGGER MECH. ON PYLON - SOAKED OLD ONE IN WARM SOAPY WATER

- FILLED STARBOARD PUMP (O₂ SIDE) UNTIL MQ CAME OUT OVERFLOW OF O₂ SENSOR

PREVIOUSLY NOT ENOUGH MQ STORED IN SYSTEM ∴ O₂ PUMP LEFT DRY BETWEEN CASTS

NEED LARGER VOLUME SYRINGE (200 cc) OR 3x 60cc



After cast 19, before cast 20, Bottle 11 ~~was~~ was regularly not firing
so ~~the~~ water sampler head removed

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[illegible]

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