

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month				Year			Ship			Cruise ID						
August				2005			LOUIS S. 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								
16	CB10b	1923	BE	CTD	/	35	78°10.64'N	152°51.13'W	3123	3095(45)	—	0	JE/DS/RN/MT	✓	st scan: 8700	
								new slushy ice on surface							air press 00/-0.04	
								data spike	~358m	sal, DO.						
	CB10b	2122	EN			35	78°09.84'N	152°52.73'W								
17	XCTD 25	0031	BE	XCTD-3			77°59.053	151°28.230	3840	1100					ship stopped.	
17	CB-9	1708 10:23	BE	ROS	UN	36	78°58.84 7	150°03.41	~3800	1580	553-572	20	WW	✓	Intrusion Cast	
17	XCTD															
17	XCTD-26	2230	BE	XCTD-3			77°51.380	148°22.726	3800+	1100					ship stopped.	
18	CB12	0202	BE	ROS	UN	37	77°42.13'N	146°42.12'W	3812	3802 19	573-596	24	JE/DS/JC/HM	✓	intrusion + full	
18	XCTD 27	0913	BE	XCTD-3			77 27 68	145 02 96	3800+	1100					SHIP STOPPED	
18	CB13	18:20	BE	ROS	UN	38	77 18,88	143°22,15	3182	3776	597-620	24				

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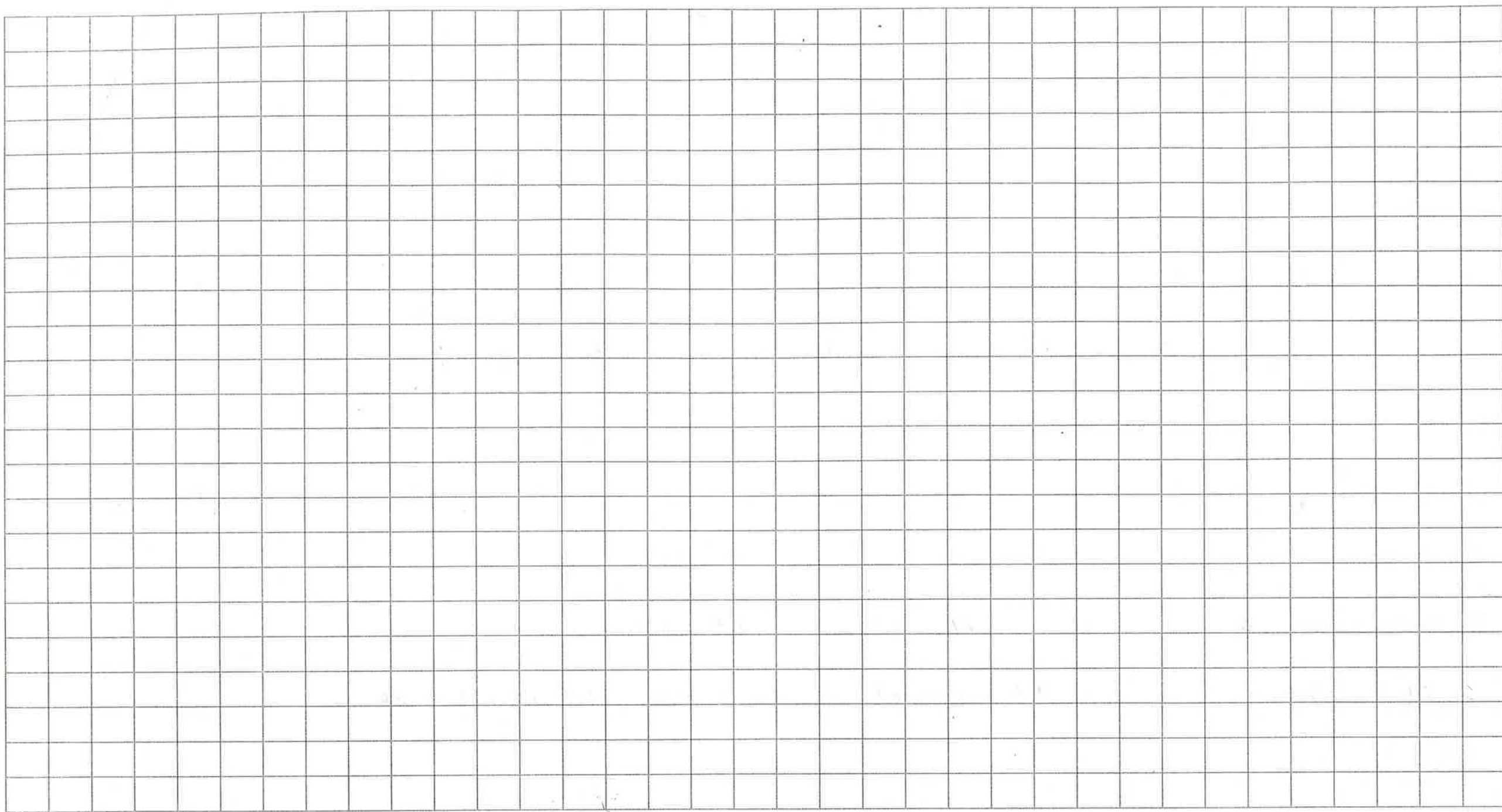
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18	XCTD-28	2020	BE	XCTD-3			77° 31.365	142° 10.731	3700*	1100					ship stopped
19	XCTD-29 Gilligan	2102	BE	XCTD-3			77° 38.409	141° 34.690	3700*	1100					ship stopped. 15m ship
Ship down for shaft bearing + thrust block repair															
5pm 18 August to 943 24 August															
20	Gilligan			Melt pond, snow + ice samples											
		2000	BE	Ice walk			77.6562	141.7465	NA	NA					
21	Gilligan	?	?	Ice walk to ITP deployment => snow + ice samples { This info added 25 Apr 2007 based on Linda's nutrient record sz											
23	Gilligan			melt pond, snow + ice samples											
		1600	BE	Ice walk			77.6001	142.1984	NA	NA					
25	XCTD 30	1540	BE	XCTD-1			77° 17 60	140° 37 17	3700+				H.M.		SHIP STOPPED
	↳ Bucket sample # 3002 Sal, Alk, S, O, Pa one big ice in the bucket														
26	CB-15	0705	BE	ROS	UN	39	76° 59.09	139° 59.21	3725	3719	628-657	24			

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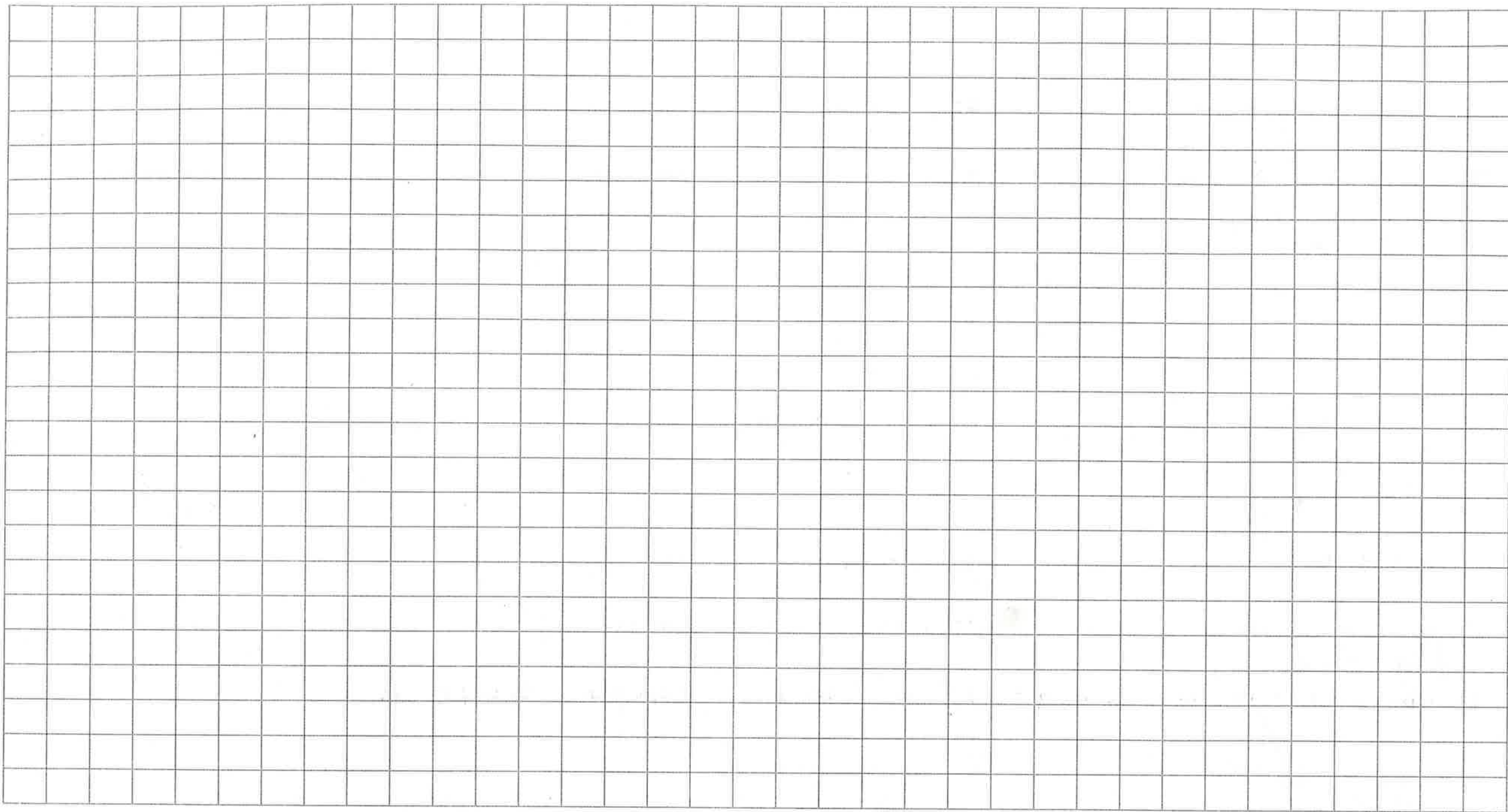
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							Latitude	Longitude							
26	CB15	12:34	BE	ROS	US	40	76°58.87	139°58.73	3725	800	652-667	20			
26	CB15	13:01	BE	NET		N9	76 58 98	139 59 78	3725	100			H.M.		2 BONGOS → 100m
26	CB15	2158	BE	ROS	UN	41	76°57.93'N	139°57.69'W	3725	600	672-691	20	JE/DS/MH/SC	✓	Intrusion cast.
27	XCTD-31	0319	BE	XCTD-1			76°39.903	140°04.250	3500*	1100					ship stopped.
	↳ Bucket sample #3003 slush ice in the Bucket														
27	XCTD-32	0650	BE	XCTD-1			76 22 28	139 50 23	3500*				H.M.		SHIP STOPPED
	Bucket sample #3004														
27	CB17	11:08	BE	ROS	UN	42	75°58.87	138°47.10	3700	1000	682-715	24			
27	XCTD-33	1612	BE	XCTD-1			75 39 79	140°25'38"	3500*	1042			H.M.		SHIP STOPPED
	Bucket #3005														
27	XCTD-39	19:04	BE	XCTD-1			75°20.054	141°00.117	3500*	1100					ship stopped.
	Bucket #3006														
27	CB18	2159	BE	ROS	UN	43	75°03.80'N	140°22.38'W	3660	3644	716-739	24	JE/DS/SC/MH	✓	+Small injector

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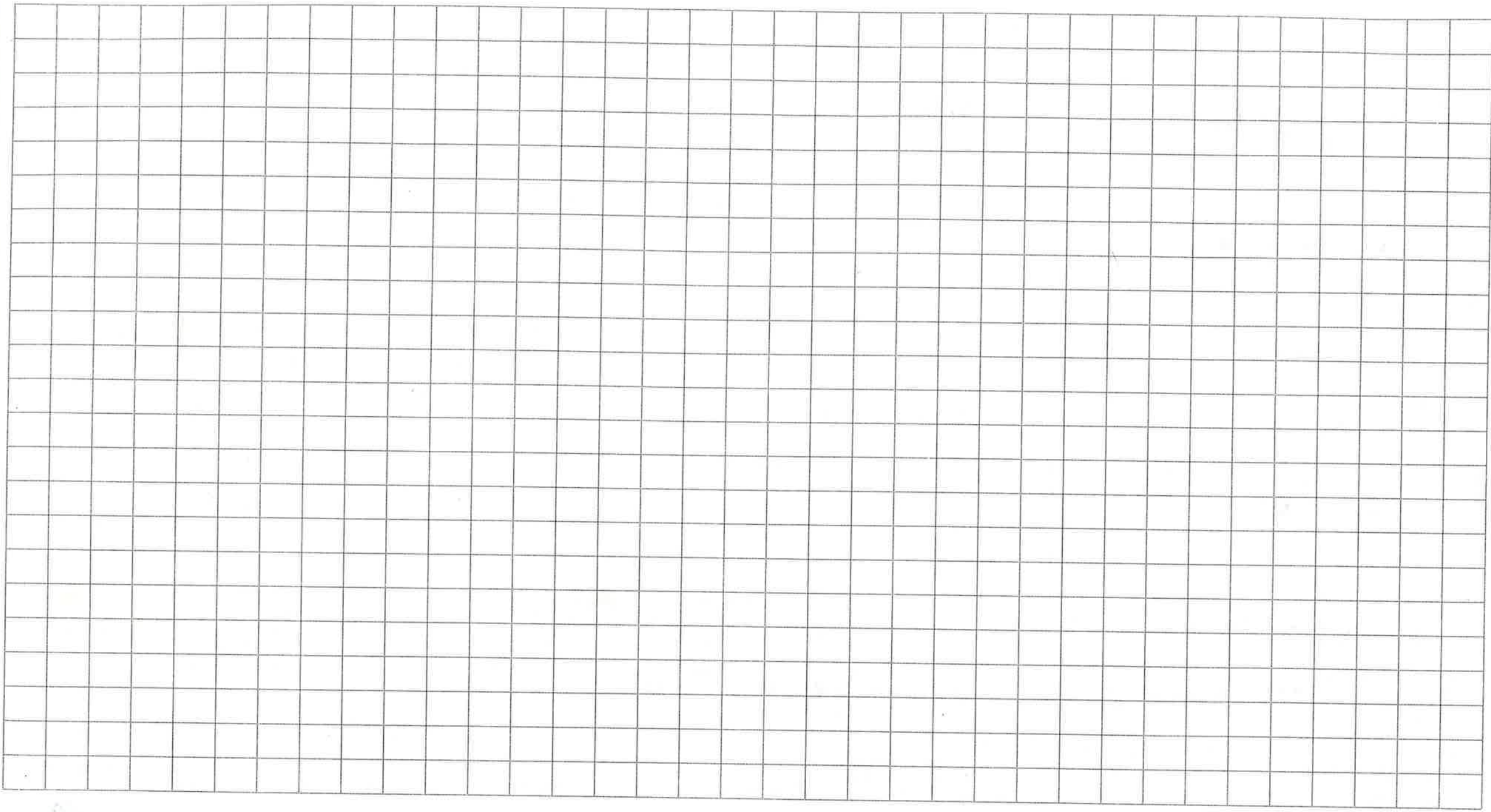
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							Latitude	Longitude							
28	XCTD-35	0504	BE	XCTD-1			74°40.342	140°25.721	3600*	1100					Ship Stopped
	bucket #	3007													
28	XCTD-36	07-7	BE	XCTD-1			74°20'42"	140°21'63"	3500+	1100					SHIP STOPPED
	BUCKET #	3008													
28	CB21	11:05	BE	ROS	UN	44	74°02.06	140°00.33	3520	3514	740-763	24			
28	XCTD-37	23:53	BE	XCTD-1			73°39.937	140°05.404	3400*	1100					ship stopped
	Bucket #	3008													
29	XCTD-38	02:30	BE	XCTD-1			73°18.908	140°11.592	3300*	755					ship stopped by ^{wire cut} sample rope
	XCT-39	02:37	BE	XCTD-1			73°18.898	140°11.645	3300*	1100					Ship stopped
	No Bucket sampling														
29	CB27	0516	BE	ROS	UN	45	73°00'42"N	139°59.92'W	3234	2000	764-787	24	just about every time	✓	Cups squeeze
29	XCTD 40	0930	BE	XCTD-1			72 39 83	140 23 98	2900	1100					SHIP STOPPED
	BUCKET #	3012(?)													
		3011													
29	XCTD 41	1151	BE	XCTD-1			72 20 02	140 10 61	2700						SHIP STOPPED
	Bucket #	3012													

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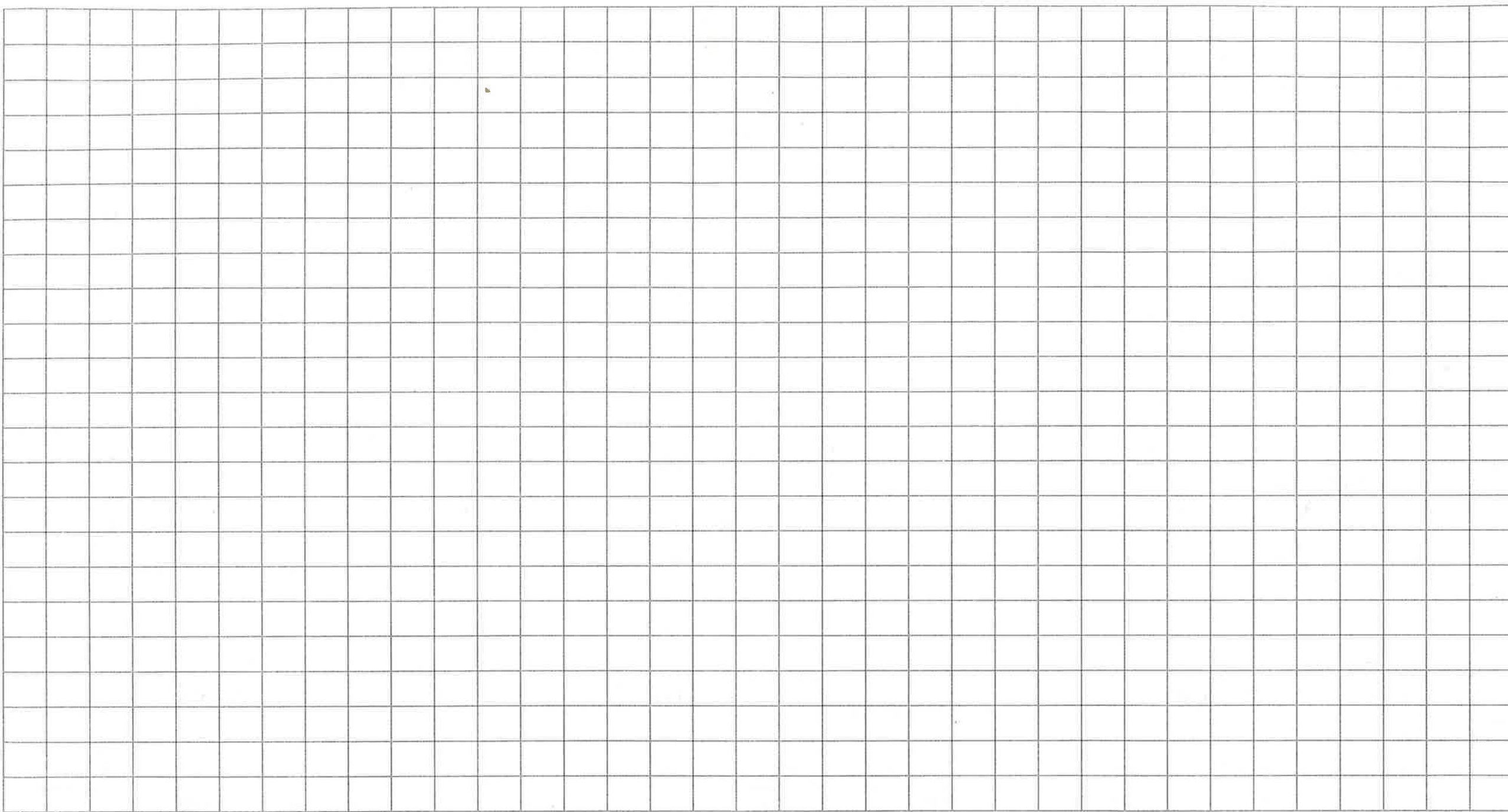
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							Latitude	Longitude							
29	CB-28	15:08	BE	ROS	UN	46	71° 58.9	139° 58.4	2680	2673		24		✓	
29	XCTD-42	20:14	BE	XCTD-3			72° 18.505	138° 38.209	2700	1100					ship stop
	Bucket # 3014														
29	XCTD-43	23:15	BE	XCTD-3			72° 25.584	137° 07.489	2500	1100					ship stop
	Bucket # 3015														
30	CB23a	0339	BE	ROS	UN	47	72° 42.04'N	135° 58.01'W	2654	2624	812-835	24	Je/ps/se/mt	✓	
									↑ Knudsen	+6 altimeter					
30	XCTD-44	0901	BE	XCTD-3			72° 12.88	135° 11.75	2250	1100					SHIP COASTING (NO BUCK)
	BOTTLE # 3016														
30	XCTD-45	11:19	BE	XCTD-3			72° 11.73	134° 16.14	2000	1100					SHIP STOPPED
	BOTTLE # 3017														
30	CB-31a	13:40	BE	ROS	UN	48	72° 06.60	133° 13.801	1767	1761	836-859	24			
30	XCTD-46		BE	XCTD-3					1200	1100					SHIP STOPPED
	BOTTLE # 3018														

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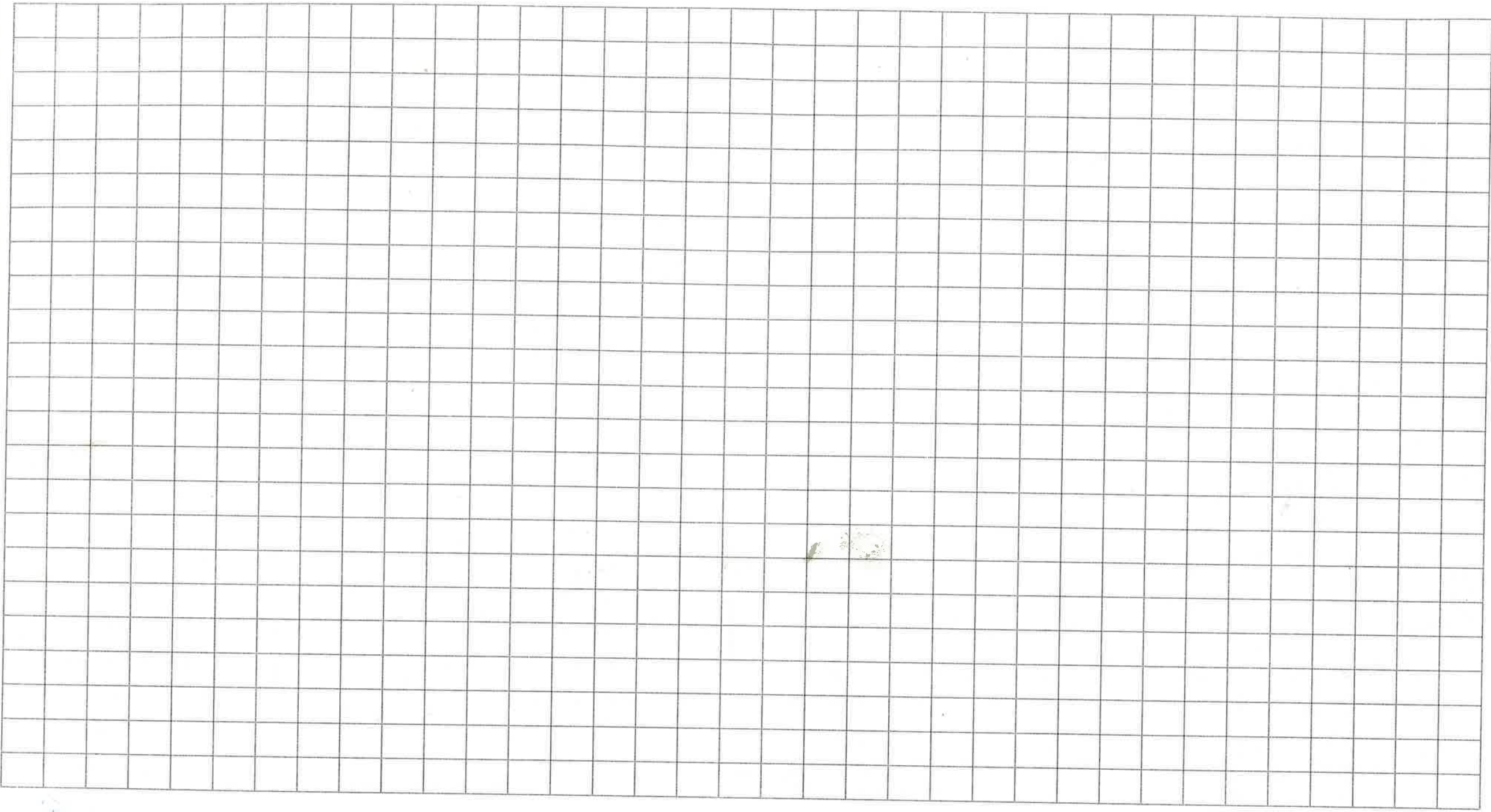
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							Latitude	Longitude									
30	CABOS	1809	BE	ROS	UN	49	71°45.36'N	131° 44.25'W	1083	1055	860-883	24	TE/DS/54 MH	✓			
30	XCTD-47	2229	BE	XCTD-3			71 35 30	131 19 21		+6alt.	No Data				SHIP STOPPED/NO GOOD		
	XCTD-47	2233	BE	XCTD-3	bucket	3019	71 35 27	131 19 10	715	715					HIT BOTTOM		
30	XCTD 48	2333	BE	XCTD-3	bucket	3020	71 30 16	130 57 59	440	440					SHIP STOPPED bottom		
31	CB1a	1213	BE	ROS	UN	50	71 23.63	130 54.14	ELAC 243		884-900	17	TE/DS MH				
31	XCTD 49	0107	BE	XCTD-3			71°20.825	130°44.716	152	152					ship stopped bottom		
	buckets	3021															
31	XCTD 50	0658	BE	XCTD-3			70°35.199	126° 00.555	389	389					ship stopped bottom		
	buckets	3022															
31	XCTD-51	1202	BE	XCTD-3			70°22.413	122° 00.064	455	455					ship stopped bottom		
	buckets	3023															
31	XCTD-52	1850	BE	XCTD-3			69°34.725	118° 00.399	400	400					ship stopped bottom		
	buckets	3024															
Sept																	
1	XCTD-53	0055	BE	XCTD-1			68°51.036	114°29.771	86	86					ship stopped bottom		
	buckets	3025															
							Finish	Main Leg							but still more samples...		

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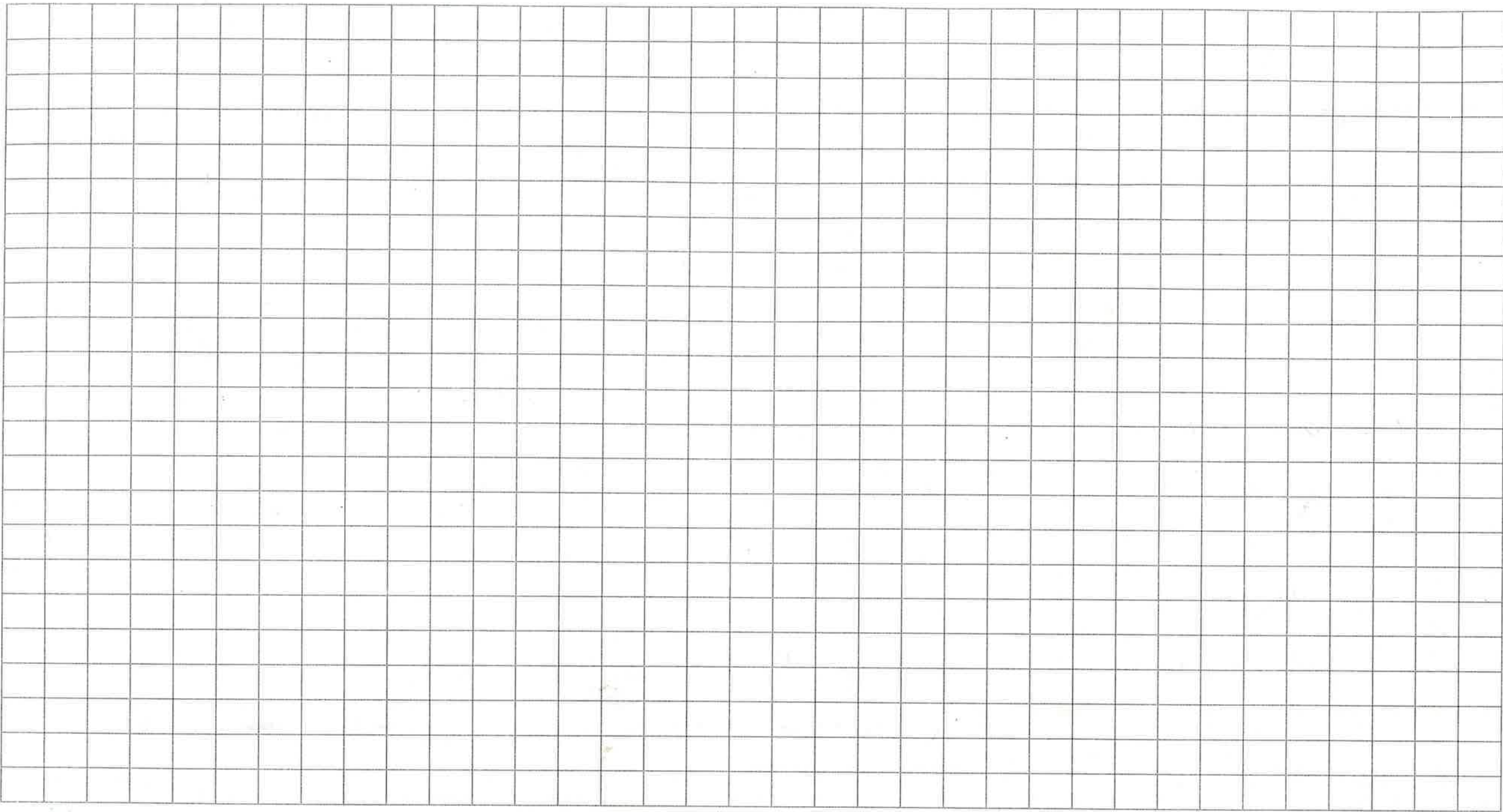
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							Latitude	Longitude							
7	Coppermine River 1	2330		Bucket		B-3032	67 43.236	115 24.657	0.5		3032	1	SZ	NA	above Bloody Falls from sandbar
8	Coppermine River 2	0015		Bucket		B-3033	67 44.972	115 21.496	0.5		3033	1	SZ	NA	below Bloody Falls from sandbar
8	Coppermine River 3	0045		Bucket		B-3034	67 45.615	115 15.920	0.5		3034	1	SZ	NA	~ 6 miles in from ocean from the bank
8	Coppermine River 4	0100		Bucket		B-3035	67 47.682	115 07.446	0.5		3035	1	SZ	NA	~ 1 mile in from ocean from sandbar
4 Samples taken from Coppermine River. Joe + Pierre the pilot + helicopter engineer picked me up from Hug Airport + we flew to the top of Bloody Falls, 9 miles upstream, to a sandbar in the middle of the river for water samples. We then stopped at 3 more spots down to the ocean. The last spot was still quite fresh.															
Duplicate samples were drawn for salt, Nuts, Alkalinity, O18, Barium															
Camps - just a few - were along the river up to the Falls.															
Sample Gap in buckets between 3025 → 3032 due to oversight.															

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3032-3035 All nutrient samples lost. Fresh water ~~cannot~~ freezes too quickly. There was plenty of head space in the tubes, the trouble was that it expanded out, bursting both the glass + plastic tubes. Some tubes Most tubes had been in the freezing blocks, but both those in or not in the blocks cracked open.

 If head space not an issue
broke both the
glass + plastic tubes

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[illegible]

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3036 - 3038: ship stopped during transit for bucket samples. Usually screws turned in reverse to stop the ship - so the water is likely a ~~10m~~ mix of the upper 10m. All ice free.

⇒ 3039: back into ice! ship may not have put on reverse, so water is likely more surface (0-3m) than the prior samples.

sampled Nuts, Sal, Oils, Ba, Alkalinity