

CB-18: Three releases (2x edgetech for CABOS mooring, 1x oceanic to test deck unit from the Amundsen) attached to outside of frame.

0201 01165 8:54pm Aug 24th
73 56 26021 140 00 803 W

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								
24	CB-20			NETS												
				NETS												
24	CB-20	13:41	BE	ROS	UN	37/163	74°15-06'N	142°24-62'W	3640 sounding		629-652		Bill			
		15:10	BO				74°15-17'N	142°23-99'W	3666-7	4-3						
			EN													
			DE	DRF		164	74°14-92'N	142°22-210'W							Bottle # 217, 218, 219	
24		19:02		XCTD		165	#102									
24	CB-21	22:38	BE	ROS	UN	38/166	73°56.26'N	139°59.23'W	3450+7m - sounder				MoToYo		Big Spike in Oz	
		23:57	BO				73°55.93'N	140°0.84'W	3482+4.2m/11m		653-676				around 1300 dbar	
		01:34	EN				73°56.02'N	140°2.57'W	3548dbar							
			DE	DRF		169					220,221,222					

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CB-20 • Bad wraps on the winch beginning ~ 1500 m. Numerous stops with some backtracking.

• DO₂ sensor bad on downcast between 500 & 1500 m. ~~Engineers~~ jumps to lower DO₂ values

CB 21 Oceanic Release attached to frame for testing Tom Mewhouse's^{sp?} deck unit

at 3538 dbar, 2990 dbar, 1974 dbar, 978 dbar.

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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							
24-8	CB-21	22.05	BE	Net		/167	73°56.44	139°58.82							
		22.11	EN	Net											
24-8	CB-21	22.21	BE	Net		/168	73°56.352	139°58.989							
		22.26	EN	Net											
25		04:15		XCTD's		/170-171									#103 + 104
25	CB-22	20:23	BE	ROS		39/	73°23.54'N	137°10.11'W	3069+7m -	saunders	13	Motoyo			Site A shallow cast
		20:36	BO				73°23.55'N	137°10.18'W		305r					
		20:45	EN				73°23.54'N	137°10.27'W			677-689				
25	CB-22	20:37	BE	Nets			73°23.555	137°10.168		100					
		20:57	BE				73°23.545	137°10.342		100					
25	CB-22(2)	22:41	BE	ROS		40/	73°23.49'N	137°10.15'W	3063+7m -	saunders	690-713				oxygen spike around 800 bar
		23:52	BO				73°23.50'N	137°9.64'W							
26		00:51	EN				73°23.36'N	137°9.36							
				DRE				137°5.			223,224,225				

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03:35

XCTD

Event

#

#105-106

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							
26	CB-23 STATION A	09:43	BE	ROS	UN	41	72°59.34'N	134°5.08'W	2520 sounding		714-737		Bill		
		09:42	BO				72°59.18'N	134°4.93'W	2537.3 (CTD+ALTIMETER)						
		10:30	BN				72°59.04'N	134°4.77'W	2532.2m						
26	STATION A			DRF			72°59.03'N	134°05.146'W							Bottle #226, 227, 228
				MOR	MR										
					RE										
26	CB 23	9:54	BE	NETS			72°59.106	134°04.927							
		10:13	BE	NETS			72°59.090	134°04.808							
26		14:40		XCTDS											#107 & 108
26	CB-24	22:16	DE				74°27.682	133°59.841							
		22:31	BE	NETS			74°27.670	133°59.826							
26	CB-24	22:57	BE	ROS	UN	42	74°27.61'N	133°59.61'W	3115+7m-sounder				MoToYo		Winch has Trouble.
27		00:02	BO				74°27.49'N	133°59.00'W			738-761				CTD stay 50m above 20m from the bottom.
		01:48	BN				74°27.17'N	133°57.80'W	3139+4.5m		3196dbar				
				DRF			74°26.2'N	134°10'5'W			229, 232, 231				
27	OS-30-			XCTDS											#109

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Cast #41 Bottle #2 fired at 2250 dbar rather than 2500 dbar.
Noise in DO sensor on the way down at about 500 dbar.

After cast Doug Sieberg removed several Niskin bottles to check oxygen ^(SBE 42) probe connectors. He found water leak + corrosion on the CTD bulkhead connector to the SBE 43 cable. He cleaned connection and replugged. If problem persists he will change out the bulkhead connector.

Cast #42 Oxygen looks fine

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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							
27	CB-25	09:15	BE	ROS	UN	43	74° 15.49'N	137° 03.87'W	3280	sounding	162-785		Bill		Reset by jellyfish!
		10:29	BO				74° 15.36'N	137° 02.81'W	3302.5	+4.7 =	3307.2				
		11:35	EN				74° 15.24'N	137° 01.74'W	CTD	Alt					
			DE	DRIF			74° 12.36'N	137° 06.605'W							
															Bottle #s 232, 233, 234
	CB-25	11:49	BE	Nets			74° 15.220	137° 01.487		106					
		12:06	BE				74° 15.180	137° 01.202		100					
				Nets											
				ICAD-FRE											
				Recovering											
				ROS											
27	STATION A CB-26	18:44	BE	ROS		44	73° 28.4'N	137° 29.5'W	3100	+7m - sounder			MOTOYO		
		19:53	BO				73° 28.02'N	137° 25.7'W	3117.8	+4.6 CTD					
		22:13	EN				73° 27.83'N	137° 1.42'W		3117.8					
				DRF			73° 27.250'N	137° 05.113'W			237, 236, 235				

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- Cast 43
- Bottle # 9 mistakenly fired at 700 db rather than 600 db.
 - No glitches in DO₂ data

SZ 03 Mar 05 : Pressure v. time plot shows package stopped 3 times b tw 500m and surface on up-trace.

Cast 44 • Study of 2300 → 3100 m water. Wait 2 minutes before closing each Niskin bottle.

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03:08

XCTD

/ #110

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							
28	CB27	05:46	BE	ROS	UN	45/	72° 59.35'N	139° 54.00'W	3180	sounding	810-833		Bill		
		06:54	BO				72° 59.63'N	139° 54.36'W	3204.9	+2.5 =	3207.4				
		07:50	EN				72° 59.98'N	139° 54.59'W		3204.9					
		5.53	BE	NETS			72° 59.358	139° 54.003							
		6.10	BE				72° 59.424	139° 54.128							
				NETS											
28	CB27		DE	DRF			73° 00.052'N	139° 53.408'W							Bottle #233, 239, 240
28		09:42		XCTD											#111
28		11:56		XCTD											#112
28	CB28	22:32	BE	Net			71° 19.983	140° 00.303		100					
		22:50	BE				71° 20.015	140° 00.165		100					
28	CB28	22:48	BE	ROS	UN	46/	71° 19.99'N	140° 0.18'W	2309	7m - Sounding			Moto		
		23:40	BO				71° 19.99'N	140° 0.01'W	2355	clbar					
29		00:26	EN				71° 20.01'N	140° 0.08'W	2318	4.4m	CTD				
				DRF					13		193, 194, 195				

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← Cast 46 Pressure v. time plot shows cno brought up to 970db, lowered
back to 1010 then raised, tripping bottle @ 1003. Might
be good spot to observe cno oxygen change? SZ 03/03/05

29

02:58

XCTD

#113

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							
29	CB29	06:55	BE	ROS	UN	47	72° 0.37'N	139° 56.14'W	2660	sounding	858-881		Bill		
		07:36	BO				72° 0.60'N	139° 56.05'W	2670.9	+ 5.0 =	2675.9				
		08:56	EN				72° 0.94'N	139° 55.33'W	CTD	2670.9					
				DRF			72° 01.02'N	139° 54.36'W							Bottle #196, 197, 198
	CB-29	6:59	BE	NETS			72° 00.49'N	139° 56.14'W		100					
		7:31	BE				72° 00.52'N	139° 56.100'W		100					
				NETS											
29		13:49		XCTD's											#114, 115
29	CB-30	23:01	BE	ROS	UN	48	72° 32.67'N	133° 26.32'W	2136+7m	sounding			MOTD		
		23:47	BO				72° 32.09'N	133° 26.13'W	2136+7m	CTD	882-905				
		00:32	EN				72° 31.62'N	133° 26.05'W		2169dbar	CTD				199, 200, 201
		1		DRF			72° 31.15'N	133° 27.02'W							
		23:04	BE	NETS			72° 32.58'N	133° 26.292'W		100					
		23:27	BE				72° 32.346'N	133° 26.187'W		100					
				NETS											

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5A

Cast

047: CTD stopped several times because of ice. Wire angles of 30, 45 & 50 degrees achieved.
Captain brought to the bridge whereupon ice soon receded.

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CAST 49

CAST 50

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	CB31	04:45	BE	CTD		49/	72° 10.33'N	132° 40.03'W	1600 sounding				Bill		CTD only no bottles
		05:24	BO			/	72° 10.16'N	132° 40.14'W	1604.2	3.7 = 1607.9					CAST # 49
		05:50	EN				72° 10.08'N	132° 40.18'W		1604					SCAN = 10600 before descent
	CB31			DRF			72° 10.029'N	132° 40.259'W							Bottle #s 202, 203, 204
30		07:51		XCTD											#115
	CABOS														
30	CB32	1358	BE	CTD		50/	71 46.68'N	131 54.55'W	1128 sounding				52	NO	Lowest at 1m/s from surface
		1426	BO				71 46.49'N	131 54.45'W	1124.15	cm + 12	1126 (1128)				SCAN = 13400
		1453	EN				71 46.31'N	131 54.53'W	1128 sounding						CAST # 50
	CABOS	20:25	BE	NETS			71.46.29	131.49.20	100						
	CABOS MOORING DEPLOYMENT, see next page										52	06 Mar 05			see next page
30		22115-		XCTDS		/									#117 + 118
		23:29													
31		00135-		XCTDS		/									#119 + 120
		02:25													
31		20:11		DRF			70 20.055	122 09.76							Bottle #213

Cast type: BOT = bottle cast, no CTD CTD = CTD without Rosette ROS = Rosette plus CTD
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CAST # 50 : Intrusion at 175db (TT 0x↑) seen on way down + up
At 150m, cable wire snapped is crossing over on drum, +
may be responsible for salinity spike at 150db. Relowered at
0.5 m/s, down to 200m, to remove cross-over and also
revisit intrusion. Then raised at 0.5 m/s to surface. SZ

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							Latitude	Longitude							
30	CABOS/	1525	BE	MOR			71 47.889	131 52.855	1133		Begin deployment				} entered date
	CB32	2001	EN	"			71 46.506	131 52.711	1120		End deployment				
															06 March 05
															SZ

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A large sheet of graph paper with a grid pattern. The grid consists of small squares, with some squares shaded in a light gray color, creating a checkerboard effect. The grid is composed of 20 columns and 20 rows. The shaded squares are located in the following rows: 1, 3, 5, 7, 9, 11, 13, 15, 17, 19. The unshaded squares are located in the following rows: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20.