

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>September</i>				Year <i>2006</i>			Ship <i>LOUIS ST-LAURENT</i>			Cruise ID <i>200618</i>					
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							
				BE											
03	CB12	06:38	BE	ROS	US	58	77° 42.355'N	146° 48.644'W	3807	1000	889-912	24	SN		
		07:02	BO				77° 42.389'N	146° 48.240'W	3807						
		07:38	EN				77° 42.451'N	146° 47.533'W	3806						
03	CB12	08:40	BE	ROS	UN	59	77° 42.576'N	146° 46.090'W	3806		913-936	24	SN		CHECK BLOCK →
		10:00	BO				77° 42.726'N	146° 44.126'W	3807	3803+8.5					
		11:15	EN				77° 42.858'N	146° 41.946'W	3806						
03	CB12	11:22	BE	DRIF			77° 42.859'N	146° 41.367'W	3807		158, 159, 160		AS		ICE CHUMMIES

Cast type:

BOT = bottle cast, no CTD
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MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:

US = up / stop
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Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

62

- BLOCK SEEMS TO HAVE A STICKY SPOT (ICE?) TENSION IS CYCLING UP & DOWN - MAY BE LANTOLIN JAM UP - NEEDS SERVICING & CLEANING

- BLOCK SEEMS TO HAVE A STICKY SPOT (ICE?) TENSION IS CYCLING UP & DOWN - MAY BE LANTOLIN JAM UP - NGAS SERVICING & CLEANING

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							Latitude	Longitude							
3	CB-13	18:24	BE	ROS	UN	60	77°19.474'N	143°30.493'W	3782m	3777	937-960	24	MD/JB/DT	✓	both cleaned? yes
		19:38	BO				77°20.580'N	143°29.670'W							(~1.5% difference)
		20:54	EN				77°21.964'N	143°27.265'W							Meter block
3	CB-14	18:57	BE	PRR	/	/	77°19.931'N	143°30.200'W	3782m		/	/	MD	/	
4	XCTD78	0143	BE	XCTD3	-	XCTD78	77°38.71'N	141°40.17'W	3764m	450m	-	-	JE	-	SW 06026810 wire broke @ 450 strong wind
04	CB-16	6:38	BE	ROS	UN	61	77°55.130'N	140°05.088'W	3746m		961-984	24	SN		
		7:56	BO				77°54.187'N	140°03.530'W	3744	3739+9					
		9:12	EN				77°53.376'N	140°03.944'W	3741						
4	CB-16	11:48	BE	ROS	UN		77°52.008'N	140°07.867'W	3741		985-1001	17	SN		
		-	BO				-	-	-						
		15:19	EN				77°52.822'N	140°07.016'W	3743						
4	CB-16	15:28	BE	DRIF			77°52.82'N	140°07.25'W	3743		161, 162, 163		AS		ICE CHUMMIES

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64

Additional comments

~ 33° Fwd wire angle
20° Stbd wire angle } Wind 41kts gusting 49

on up cast, BOT Meter suddenly speeded up + went from reading 20m deeper than CTD to the same in the course of ~ 390 - 360 m cable art. Continued reading faster uptake, at CTD 211, Bot read 160. At end of cast was reading -82.

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[illegible]

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66

A large grid of graph paper, consisting of 20 columns and 30 rows. The rows are shaded in a repeating pattern: the 1st, 3rd, 5th, 7th, 9th, 11th, 13th, 15th, 17th, 19th, 21st, 23rd, 25th, 27th, 29th, and 31st rows are shaded gray, while the 2nd, 4th, 6th, 8th, 10th, 12th, 14th, 16th, 18th, 20th, 22nd, 24th, 26th, 28th, and 30th rows are white. The grid is used for graphing or drawing.

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							Latitude	Longitude							
5	XCTD 79	0415	BE	XCTD3		XCTD 79	77 30.74	140 02 86	3732				SE/JE	NO	S/n 06026809
5	CB-15	10:46	BE	ROS	UN	63	77° 0.662' N	139° 52.714' W	3720		1002 - 1005	24	SN		
		12:00	BO				77° 1.684' N	139° 54.502' W	3725	3717+10					
		13:11	EN				77° 2.776' N	139° 55.025' W	3722						
5	CB15			MOR	recovery	BCOS-C									
6	CB14a	0540	BE	ROS	UN	64	77 10.782	138 52.238	3710		1026 - 1046	20			com file changed →
		0608	BO				77 10.792	138 51.523	3710	1000					200618-Sep05 com
		0627	EN				77 10.782	138 51.085	3709						
6	CB-15	0940	BE	ROS	US	65	77° 1.040' N	139° 56.315' W	3725		1047-1070	24	SN		
		10:09	BO				77° 1.166' N	139° 56.844' W	3723	1000					
		10:41	EN				77° 1.373' N	139° 57.502' W	3726						
6	CB-15			Nets		23-24	77° 01.760' N	139° 58.164' W	3726	100			HM		Contaminated.
6	CB15	1815	BE	PRR			76 59.69	139 53.53	3726						

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68

Additional comments

Before cast 64, CTD configuration: changed to test cause of noise on xmissometer 993 -
 change bulkhead connectors so xmiss 662 - A/D channel 0 - primary (105)
 Fluor - A/D channel 2
 xmiss 993 - A/D channel 3 - secondary (VBC)

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							Latitude	Longitude								
06	CB-15			MOR											Mooring Deployment	
06	CB-15			Nets		^N 25126	76° 59' 38.6	139° 52' 47.6 ^{check}	3726	100			JE, HD Jenny + Pat		redo earlier samples looks ok	
07	CB-17	13:20	BE	ROS	UN	66	75° 57.126' N	140° 5.630' W	3705		1071- 1094	24	SN			
		14:38	BO				75° 57.068' N	140° 4.018' W	3705	3698+9						
		15:53	EN				75° 56.939' N	140° 3.806' W	3705							
07	CB-17	1530	BO	Nets		^N 27128	75° 57.068'	140° 4.018' W	3705	100			Am/HD			
07	CB-17	16:08	BE	DRIF			75° 57.08'	139° 59.97' W	3705		167, 168, 169		AS		ICE CHUMMIES	
08	XCTD80	0131	DE	XCTD80		XCTD80	75° 23.68'	139° 05.09'	3656	1100			JE/MD	NO		
08	CB18	0402	BE	ROS	UN	67	75 01.25	140 01.87	3629		1095-1118	24	SE/MD/SE	W		
		0520	BO				75 00.71	140 02.05	(1480m/s) 3626+7							
		0626	EN				75 00.62	140 02.80	3629							
08	CB18	0635	BE	DRIF			75° 00.60	140° 02.74	3629		170, 171, 172		AS		ICE CHUMMIES	

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Additional comments

CBIS - after cast 65 swapped out power supply on main CTD acquisition computer with that of 'dead' (due to hard drive failure) CTD acquisition computer - power supply fan was noisy.

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							Latitude	Longitude							
08	CB-18	6:30	EN	Nets		N29+30	75°00.61	140°02.61	3629	100			SZ, JE HD, MD		
08	XCTD81	0944	BE	XCTD3		XCTD81	74°30.56	140°03.51	3642	1100			Am, SN		
08	CB-21	1330	EN	MOR	-	-	WHOI-ID (BLOS-ID)		Mooring Recovery						at CB21 WHOI-ID Recovery
08	CB-21	2000	BE	ROS	UN	68	74° 0.767'	140° 8.098'	3523		1119-1142	24	JE, MD + SZ	✓	
		2109	BO				74° 1.176'	140° 10.920'	3532	3518+10					
		2220	EN				74 01.71	140° 13.45							
08	CB-21	2030		PRR			74 01.176	140° 10.92	3532	100			MD.		
08	CB-21	21:50	BE	Nets?		N31	74 01.71	140 13.45	3532	100			Am, JE		2nd tow cancelled due to wind. (30-35kts)
		22:03	EN												

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							Latitude	Longitude							
09	CB-19	14:53	BE	ROS	UN	69	74°19.202'N	143°10.840'W	3693		1143-1161	19	HM SZ SN HO. AS	✓	
		15:12	BO				74°19.217'N	143°11.365'W		451					
		15:31	EN				74°19.225'N	143°11.804'W	3695						
09	CB-19	15:40	BE	DRIF			74° 19.07'	143° 10.46'W			173, 174, 175	3	AS		ICE CHUNKS
09	XCTD82	18:05	BE	XCTD3		XCTD82	74°08.50'N	141°51.08'W	3642	1100			HM, SN		SN 06026811
10	XCTD83	15:20	BE	XCTD3		XCTD83	74°09.20'N	137°26.06'W	3343	300			HM, SN		SN 06026819 broken at 300m
10	XCTD84	15:25	BE	XCTD3		XCTD84	74°09.20'N	137°26.06'W	3343	1100			HM, SN		SN 06026818
10	GF'06	2146	BE	ROS	UN	70	74 15.10	136 14.27	3222		1162-1185	24	JE/mol/SZ	VV	→
		2252	BO				74 14.85	136 15.94	(1480m)	3206+9					
11		0005	EN				74 14.58	136 18.19							
10	GF'06	2210	BE	PRR			74 15 01	136 14.85							
11		0051	BE	DRIFT			7409 28	136 29.00	3622		176, 177, 178	3	MA		

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Additional comments

replaced black ink cartridge in Canon MP155 printer after it had been indicating low ink for 4 weeks.

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							Latitude	Longitude							
11	CB22	0550	BE	ROS	UN	71	73° 30.536'	137° 50.722'	3175		1186-1209	24	ALL!	✓	
		06:54	BO				73° 30.308'	137° 51.451'	3174	3158+ 8.5'			HM/SN/AS HD		
		757	EN				73° 29.88'	137° 52.41'	3169						
11	CB22	8:05	BE	DRIF			73° 29.79'	137° 53.30'			179,180,181	3	AS		ICE CHUMMERS
11	CB-23a			ROS							1210-1214	5	HM/SN AS/HD		Cancelled
11	XCTD85	13:40	BE	XCTD-3		XCTD85	72° 47.37' N	136° 42.73' W	2721	1100			HM/SN		S/n 06026815
11	XCTD86	1912	BE	XCTD-3		XCTD86	72 06.69	135 56.87	2213	545			MD/SZ	No	S/n 06026812
12	CBMED1	00:15	BE	ROS	UN	72	70°59.909'N	133°45.785'W	139	130+5	1210-1223		MD/JE/ JJ/SZ	✓	
		00:34	EN				70°59.923'N	133°45.731'W							
12	CBMED2	02:02	BE	ROS	UN	73	71°7.970'N	133°44.156'W	480		1224-1247		MD/JE/ JJ	✓	
		02:44	EN				71°8.017'N	133°44.089'W	478	474+6					
12	CBMed2+	0430	BE	DRIF			71 32.48	133 33.52			182,183,184	3	JE		

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Additional comments

Removed 10L Nishin #7. Stopcock ^{was} still sticky after replacing o rings & tetlon spout twice.
Problem probably rough bore on stopcock seal. Fix at IOB. Spare 10L Nishin installed no

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							Latitude	Longitude							
12	CB-31a	08:20	BE	ROS	UN	74	72°6.2000'N	133°15.360'W	1784		1248-1271	24	HM/SH AS/HD	✓	
		09:00	BO				72°6.212	133°15.763		1763.± 8.9					
		09:39	EN				72°6.298	133°16.046	1789						
12	CB-31a			DRIF			72 06.30	133 16.05			185,186,187	3	HD.		
12	CABOS	16:37	BE	ROS	UN	75	71°49.714N	131°45.990'W	1125		1272-1295	24	HM/SH AS/HD		
		17:06	BO				71°49.680'	131°46.372'	1127	1100±5					
		17:31	EN				71°49.505'	131°46.784'	1127						→
12		1715		NET		32	71.49.68	131.46.372	1127	100			HM/HD		
12		1737		NET		33	71.49.68	131.46.372	1127	100			HM/HD		last one!
12				PRR?											
12	CABOS	2220	BE	DRIF			71 49.13	131 42.72			188,189,190	3	JE/LW/KB/JS		Ice chummies

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Additional comments

Rosette rinsed with warm fresh water inside bottles as well as pylon etc
Left open to dry, then closed.

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		Sept	13	Joe Illisak and Ian Green											are flown home
		to		Palatuk.											Bowhead Whales welcome them home.
		Sept	14	18 of science party											fly out from Kuglukuk.
				Crew change day.											Captain McNeill & NORTH crew leave,
				Captain Potts and south crew											arrive. Abby Spier comes
				back for the night.											Vern Williams joins science party.
		Sept	15	Abby Spier											flies off.

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A large grid of graph paper, consisting of 20 columns and 20 rows. The rows are alternatingly shaded and unshaded, starting with a shaded row at the top. The grid is used for graphing or drawing.

Start of Leg 4!

Time Zone changed ⁽⁺²⁾ to Eastern
Now UTC = local + 4

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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							
15	Copper River	2030 2000	UTC.	By Hand.		76 ^B A	67° 49.8 N 67° ~ 44 N	115° 02.2 W ~ 115° 22.5 W	1 ft. 4 ft.	10 cm 10 cm	1 RM river mouth 2 BF Bloody fall	) 8+9c	~ 15 m from shore ~ 8' from Wharf		Copper mine River samples
16	Bathurst Inlet Islands														Ripple work Photographed, Taped, video location surveyed w/ transect over ripples measuring wavelength & depth Rock samples + vegetation samples collected
17	Cambridge Bay						~ 69° 03'	105° 13'							Offload to Laurier in Cambridge Bay offload equipment and samples to Laurier program and transit back to Victoria.

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Daily_log_book.doc

42

[illegible]

DAILY LOG

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							Latitude	Longitude							
18			BE	ROS	UN	76									Sea cable fuse →
18	Pellet Work 2030			DRF	✓	✓	71 58.57	95 00.00					SZ		191-194
18	Pellet East 2200			DRF	✓	✓	71 55.30	94°00.76					SZ		Drifter churning 195-198
							72°20.94	94°24.304							
7															
21	LS-1	1806	BE	ROS	UN	77	73 50.992	82 47.482	(12/00) 767	750+5	1296-1307		SZ	✓	
			BO				73 50.984	82 45.961							
22	BEW II	1234	BE	ROS	UN	78	72°20.935	74°24.049	106.		1308-1314		40/57	✓	
		1244	BO							101+5m					
		1252	EN												
22	BEW II	13:05		DRF			72°20.935	74°24.049				2			#199, 200

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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
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

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

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Additional comments

← Slow (replaced 250V) - checked Rosette connection - looked ok.
Tide A'd thus had to move on and abort planned CTD casts. Wind light tide
changed on time - No ice!

Swell in Raffle Bay - thus surface = 1 meter below when positioning Rosette

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							
22	BEW10	1517	BE	ROS	UN	79	72°22.926	73°49.534	150.2		1315-1322	8	HB	✓	↓ 3m is surface.
		1527	BO				72°22.904	73°49.568		148+5.3					due to waves
		1537	EN				72°22.862	73°49.498							
22	BEW10	345 pm		DRIF			72°23.27	73°48.37			201, 202	2			
22	BEW09	1756	BE	ROS CTD	UN	80	72°24.863	73°09.904	690						
			BO				72 24.791	73 10.055	690	673.8+	4.8 1323-	19	SZ	✓	values not closed, RECAST needed!
		1841	EN				27.716	9.689							
22	BEW09	1914	BE	ROS	UN	81	72 24.462	73 08.106	688		1323-1341	19	SZ		
		1938	BO				72 24.470	73 7.469	688	5+695					
		1953	EN				72 24.384	73 06.767	688						
22	BEW09	2003		DRF			72 24.384	73 06.767	688		204, 203-	Don			
22	BEW08	2230	BE	ROS			72 26.858	72° 34.486	(912)						
			BO			82	72°26.852	72° 34.708		892+6	1342-1363	22	SZ	NO	
			EN				72° 26.732	72° 34.601							

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

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BO = bottom time of cast
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[illegible]