

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>October</u>		Year <u>2009</u>		Ship <u>LSSL</u>		Cruise ID <u>2009-07</u>									
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
03	CB-11b	20:51	BE	ROS	UN	036	80 18.877	152 0.503	3811 ^K		754-763	10	MC	✓	Shallow cast for Mison
		20:58	BO				80 18.880	152 0.290		100					
		21:03	EN				80 18.894	152 0.094							
				EM OUT											
		20:49		PRR		PRR-15	80 18.890	151 59.764		120			JZ		
	CB-11b	21:27	BE	NETS	-	Nets 44	80° 18.902' N	151° 58.973' W	3811	100	-	-	LW/HM		
	CB-11b	21:40	BE	NETS	-	Nets 45	80° 18.920' N	151° 58.616' W	3811	100	-	-	LW/HM		
	CB-11b	22:15	BE	NETS	-	Nets 46	80° 19.003' N	151. 57.259' W	3805	500	-	-	LW/HM		
	CB-11b	22:54	BE	NETS	-	Nets 47	80° 19.109' N	151° 55.900' W	3811	1000	-	-	LW/HM		
				EM IN											
	CB-11	18:21		PRR		PRR-6	79 00.217	150 20.543		113			JZ		
	CB-11	17:05	BE	ROS	UN	037	79 0.074	150 31.51	3826		763-787	24	SC/101 MD/101	✓	Stop @ 100m on cups Downcast & Upcast
		18:25	BO				79 0.185	150 26.792		3808					
		19:46	EN				79 0.228	150 21.400							waited 2 hrs before deploy, wind, ice & current problem.
	CB-11	1932	EN	ADCP			79 0.224	150 22.422							
	CB-11	1946	BE	TURBO			79 0.228	150 21.402							

Cast Type:

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DRF = Drifter

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Bottle Firing Method:

US = Up / Stop
UN = Up / No stop
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Notes: _____

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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 06 March 2008

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036 no noise or cross talk seen on v7 This page is for any notes or observations

TSUS ~~For~~ $z=100m$.

no noise or cross talk seen on v7

→ add de-icer @ 2458 ; stopped @ 594m on upcast to remove.

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Month			Year		Ship			Cruise ID								
OCT			2009		LSSL			2009-20								
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments	
							Latitude	Longitude								
05	CB-12b	07:25	BE	ROS		038	77 33-77	145 09-146	3795				EF/MD/KY/SC	X	add de-icer on 2982 (stopped)	
		08:41	BO				77 33-83	145 07-273		3789	788-811	24			stopped e2456 to check de-icer.	
		10:08	EN				77 33-86	145 05-064							stopped at 440 m to take de-icer off	
65	CB-12b	7:36		ADCP			77 33-77	145 8-885								
		12														
05	CB-9	10:00	Local	PMR? out												
		16:20	:	PMR? in												
							→ Renamed	200920-039-Fail.*								
06	CB-16	15:19	BE	ROS		639	77 58-658	140 2-538	3753		812-835	24	EF/MD/KY/SC	X	ISUS ON	
			BO							1000					★ FAILED CAST★	
			EN												Fuse blown.	
	CB-16		BE	CTD			200920 - short test 2a.* in water but no scale time. Don't use this data.									
				NET						100				KY/SC		
				NET						100						
				NET						500						
				NET						1000						

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IMS deploy credit @ 350m

ADCP winch wire fouled - No ADCP cast.

- Deck unit problem, stop at 4680, possible electrical problem
0.5A fuse blown.

on deck: w/ new fuse, test w/ chentec cable all ok, test w/ senable wire and all is still ok. All connectors resented. None show a problem

- shot test cast, to 460m, e:\2009-20\CTD raw\200920 - short test 2a.hox (Oct 6, 2009, 18:12)

- during test cast ISUS (V7) showed 0.5V although no sensor attached
re wired CTD to allow cDOM on V6, V7 vacant and ISUS on V4
or Rinko DO on V4 and Rinko T on V5. No changes to con file. Rinko still mounted
but dummed off. MUST make note in log which sensor being used on cast

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Month OCTOBER				Year 2009			Ship LSSL				Cruise ID 2009-20				
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							Latitude	Longitude							
	CB-16	22:31		PRR		PRR-17	77 49.762	140 06.451		117			JZ		
	CB-16			TURBO											
	CB-16			ITP											
	CB-16			ICE CAMP OBS.											
06	CB-16	23:14	BE	ROS	UN	039	77 49.691	140 6.418	3741 ^K		812-835	24	MC	X	Rinko on v5+v6 CDOM v7 (no data)
07		00:37	BO				77 49.375	140 6.434		3730			HM, GC LW		Cup stop at 15m (UTD)
07		01:57	EN				77 49.108	140 6.618							Calibration cast (Yoyo)
	CB-16	01:16		NET		^{Net} 52	77° 49.671N	140° 06.435 W	3741m	200				LW/HM	
							14								
07	PD-7a	13:46	BE	ROS	UN	040	77 3.978	135 28.175	3577		836-859	24	SC/KY/HY BF	✓	After ROS is @ surface
			BO				77 4.057	135 28.085		3564					take it back down 10m
		16:06	EN				77 4.120	135 28.105							to take the ice off.

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→ Something wrong with Fixed Display 1 in Seasave → depth, altimeter + salinity text is shifted down from numbers but data is still being acquired 12:

No radio in CTD shack
(out with ice camp)

BLANK	1880.01
BLANK	98.525
BLANK	34.9670
Depth	
Altimeter	
Salinity	

? (Edmund comment: It's ok, too many plots opened & being updated. Probably cause by video memory limit)

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							Latitude	Longitude							
07	PP-7a	1358	BE	ADCP											
		15:53	EN	ADCP											
07	PP-7a	14:22		NET		Net 53	77 4.016	135 28.037	3564	100			KT/MD		
	PP-7a	14:39		NET		Net 54	77 4.043	135 28.139		100					
	PP-7a	1456		NET		Net 55	77 4.057	135 28.088		200					
07	PP-7a			Ice Camp											
07	PP-7a			TURBO											
07	PP-7a	20:35		PRR		PRR-18	77 04.739	135 27.202		117			J.Z		
07	PP-7a	21:22	BE	ROS	UN	041	77 4.734	135 27.170	3580 ^K		860-882	23	MC	X	ISUS ON V4 →
		21:45	BO				77 4.732	135 27.060		1000			HM, SZ		*De-icer put on @ 950m
		22:14	EN				77 4.722	135 26.953							on down-cast; removed at 35m as up-cast.
08	CB-15	11:10	BE	ROS	UN	042	77 1.032	139 52.835	3727		883-906	24	JC/KY/MD/ET	✓	setup de-icer @ surface
		12:05	BO				77 1.020	139 51.967		3718					take Helium @ surface
		13:37	EN				77 0.996	139 51.332							
08	CB-15	11:53		NET		NET 56	77 1.027	139 52.292	3727	100					
08	CB-15	12:08		NET		NET 57	77 1.025	139 52.133		100					

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Note: In Air Pressure reading after cast is low (-0.032). At start of cast was -0.24 .

CDOM cover not removed during cast! md

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							Latitude	Longitude							
08	CB-15	12:29		NET		NET58	77 1.019	139 51.926	3727	500					
08				SMALL BOAT											Kristina & Jeffrey
08	CB-17/18	19:26	BE	ROS	UN	043	76 32.321	139 58.697	3690 ^K		907-916	10	MC	X	Cast for MiSun
		19:34	BO				76 32.324	139 58.645		100			HM, GC LW		Note → low in air pressure after cast.
		19:43	EN				76 32.334	139 58.586							
08	CB-17	22:44	BE	TURBO			75 59.141	139 59.036	3694 ^K						
08	CB-17	23:26	BE	ROS	UN	044	75 59.137	139 58.932	3694 ^K		917-940	24	MC	X	
09		00:42	BO				75 59.102	139 58.912		3684			HM, GC LW		De-icer added at bottom. Removed at 15m.
		01:51	EN				75 59.068	139 58.946							
08	CB-17	23:20	EN	PRR		PRR-14	75 59.136	139 58.919	3694	125			J.Z.		
08	CB17	23:33	BE	ADCP			75 59.119	139 58.927	3694						
09		01:31	EN												

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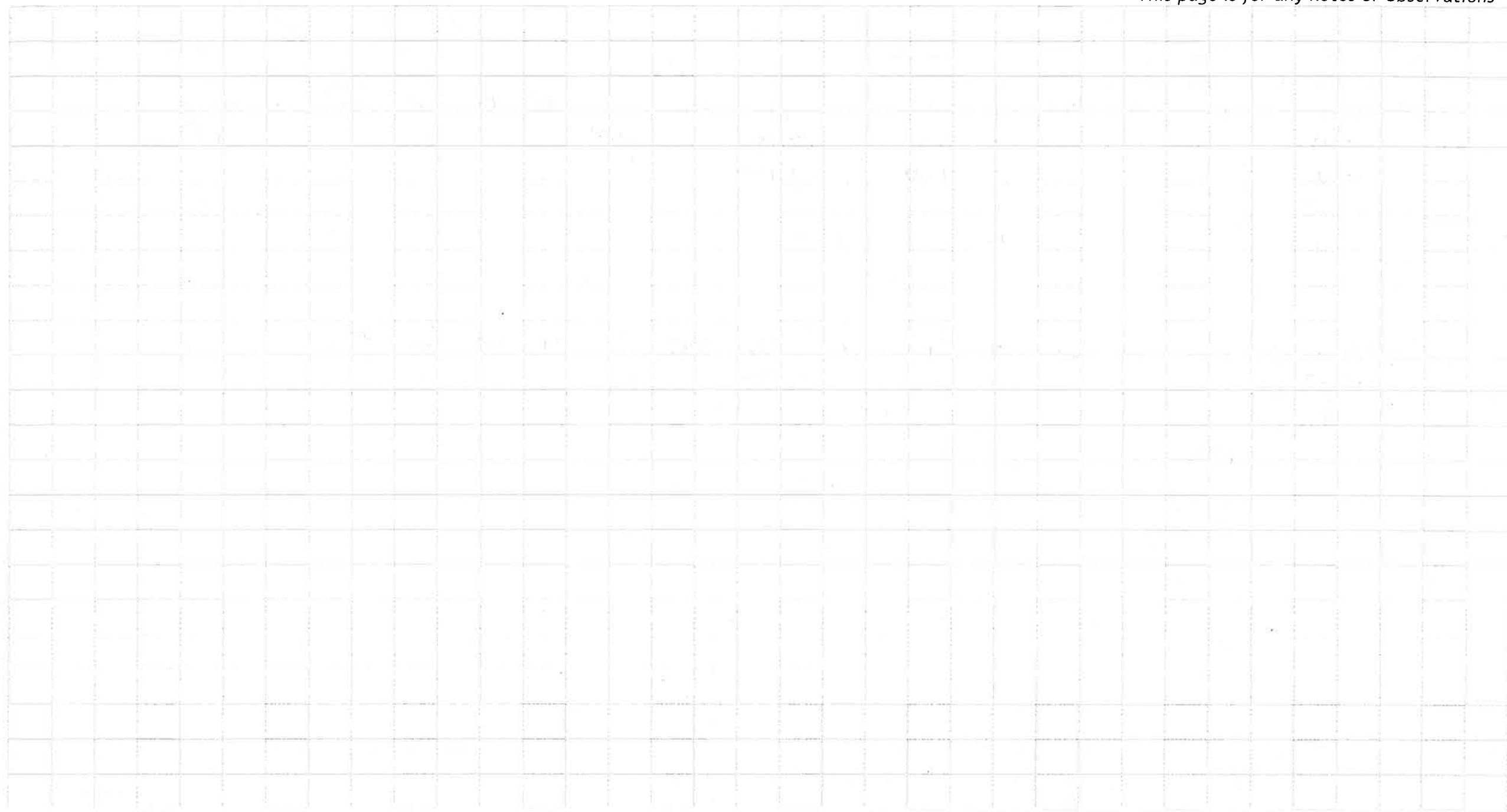
Hugh decided with poker @ 1110m on downcast (no stop).

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							Latitude	Longitude							
09	CB-18	07:32		ROS	UN	045	75 0.257	140 3.613	3632		941-964	24	JC/KY/MD/ET	✓	add de-icer while soaking @ 10m
		08:41					75 0.583	140 4.306		3621					stop @ 10 to take de-icer off
		09:50					75 0.876	140 4.732							missed Ba sample on bottle 14
09	CB-18	07:45	BT	ADCP			75 0.337	140 3.806							
		09:36	CN				75 0.816	140 4.732							
09	CB-21	20:07	RE	ROS	UN	046	74 0.199	140 5.156	3527 ^K		965-988	24	MC, HM, GC, LW	✓	Very windy & difficult to maintain good wire angle
		21:20	BO				74 1.099	140 5.950		3510					
		22:31	EN				74 1.981	140 6.518	3536 ^K						
09	CB-21	20:16	BE	ADCP			74 0.306	140 5.262							
		22:00	EN				74 1.637	140 6.326							
09	CB-21	20:30	BE	PRR-20			74 0.485	140 5.442							
		20:37	EN				74 0.563	140 5.479							
				TURBO											

This page is for any notes or observations



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Month <u>October</u>				Year <u>2009</u>			Ship <u>LSSL</u>			Cruise ID <u>2009-20</u>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
10	CB-40	11:21	BE	ROS	UN	047	74 30.487	135 27.608	3263		989-1012	24	SC/KY MD/EF	✓	Windy, add de-icer while soaking @ 10 m.
		12:25	BO				74 31.054	135 27.348		3248					
		13:27	EN				74 31.564	135 27.125							
10	CB-40	11:31	BE	ADCP			74 30.611	135 27.541							
		13:03	EN				74 31.376	135 27.200							
10	CR-40b	16:33	BE	ROS	UN	048	74 33.134	134 48.588	3267		1013-1035	23	SC/KY MD/EF	✓	ZSUS ON
		17:03	BO				74 33.294	134 48.698		1000					After bottle #23 is triggered → down to 10m to take de-icer off
		17:16	EN				74 33.521	134 48.791							
				PRR											
				Ice Camp											
				ITP deploy											
				PRR											
				TURBO											
11	CB-21	12:03	BE	ROS	UN	049	74 0.251	139 52.193	3512		1036-1059	24	SC/KY MD/EF		De-icer added when soaked @ 10 m.
		13:12	BO				74 0.342	139 52.288		3497					
		14:12	EN				74 0.440	139 52.397							

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Bottle Flush test on CB-40. Draw 8 bottles of SAC, 4 just, 4 every end using FZFO.

Too windy, no NETS

Cancel bottle flush test

After ROS reached surface, then down 10m to take de-icer off.

ISUS internally recorded. Rinko DO on V4 MD

After ROS reached surface, then down 10m to take de-icer off

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							Latitude	Longitude							
11	CB-21	12:47		NET			74 0.332	139 52-236	3500	100			MD/KY		
	CB-21	13:02		NET			74 0.317	139 52-262		100					
	CB21	13:15		NET			74 0.344	139 52-302		300					
	CB-21	14:06		NET			74 0.434	139 52-397		200					
	CB-21			Net						1000					
	CB21	1236		ADCP			74 0.315	139 52.231							
12	CB-be	0630	BE	ROS	UN	050	74 21.448	143 24.734	3706 ^K		1060-1083	24	mc	X	Shift change on
		07:44	BO				74 21.942	143 25.454		3697			HM, GC, LW		downcast @ 800 m.
		08:54	EN				74 22.405	143 26.548					EF, MD, JC, KY		! →
	CB-be	0637	BE	ADCP			74 21.316	143 24.732							
		0837	EN												
12	CB-21			Mooring - WHOI											
12	CB-21	21:58	BE	ROS	UN	051	73 59.759	139 59.626	3527		1084-1099	16	(M)	X	Mi Sun
		2210	BO				73 59.788	139 59.532		100			HM, GC		Niskin #3 did not
		2215	EN				73 59.796	139 59.500							close

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- Loss ZMS Display on upcast around 500m. "CTD data" shows ϕ , then increase afterwards.
The data comes in seems O.K.

(Possibly due to salt build-up around seal.)

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13	CB-22	0249	BE	ROS	UN	052	73 31.408	137 54.829	3188 ^K		1100-1123	24	@ HM	X	Ba samples not taken.
		0353	BO				73 31.278	137 54.379		3168			GC, LW		
		0447	EN				73 31.103	137 53.900							
13	CB-22	0317	BE	CTD	Messenger		73 31.357	137 54.638	3188 ^K	100	7001-7006	6	HM/GC		6 Niskins-on-wire from foredeck with SBE19.
		0336	EN				73 31.312	137 54.488							
13	CB-22			FLOW METER	CALIB.				3188	100			LW/HM		Net frame without
		0359			2 ND cast		73 31.265	137 54.326		100			" "		note - flow meter calibration
13	CB-22	0412	BE	EM ^{at}			73 31.226	137 54.235	3188				HM		
14	CABOS	0000		MOORING	- M.D.		71 49.661	131 45.641							
14	CABOS	02:08	BE	ROS	UN	053	71 49.667	131 46.936	1123 ^K		1124-1146	23	(M)	X	ISUS ON
		02:35	BO				71 49.764	131 47.392		1100			HM, GC		
		03:00	EN				71 49.776	131 47.657					LW		
14	CABOS	0212	BE	ADCP			71 49.667	131 46.937	1123						
		0240	EN												

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