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 Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
13	XCTD	4:48		XCTD			79°16.67	150° 2.61	3828	1100			M.I		
13	CB11	7:05	BE	ROS	UN	63	78° 59.97	150° 01.83	3822+9		1246 – 1264	19	JE/MD/HD/R	✓	
		7:35	BO				78°59.94	150° 1.72		1000					
		8:02	EN				78°59.93	150° 1.69	3822+9						
13	XCTD	1034	BE	XCTD			7840.45	150 02.66	3832+9	209					guidance cable broke in prop wash clearing ice
13	XCTD	1304	BE	XCTD			78°19.49	150°02.77	3827+9	1100					
	CB-9		DE	MOR											WHOI-B
															Mooring deployed
	CB-9		BE	CTD 19+											Hand lower
															SBE19+ from
															ship
	Ice camp		DE												Jenny's 3
															buoys

Cast type:
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USW = sea water loop
MOR = mooring
NET = net haul
DRF = drifter

bottle firing method:
US = up/stop
UN = up/no stop
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Time Code
BE = beginning time of cast
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Transmissometer to be cleaned for each cast, do not use Ammonia products

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Additional commemts

Bottles 5, 19 & 21 – sticky spiggots. Removed and honed bore.

DAILY LOG

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13	Ice camp Zoom														Multi-Buoy Deployment: ITP, IMBB, Heat Flux
14	Ice camp Zoom	0:58		CTD	—	64	78° 2.314'N	149°14.444'W	3817+9m						Scan=3/6
	(CB-9a)	1:20					78°2.399'N	149°14.580'W		1000 m	NA	NA			
	CB-9a	1:42					78°2.513'N	149°14.773'W	3817+9m						
		0:55		ADCP			78°2.314'N	149°14.444'W							
		1:52					78°02.559'N	149°14.855'W							
14	XCTD	4:12		XCTD			77°54.14'N	148°19.00'W							
14	CB-12	0648	BE	ROS	US	65	77 42.12	146 48.39	3806+9		1265-1288	24	JE/RN/HD	✓✓	Cs/I
		0711	BO				77 42.48	146 48.72		1000					
		0735	EN				77 42.60	146 49.11							

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Additional commemts

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month AUGUST **Year** 2007 **Ship** LOUIS ST LAURENT **Cruise ID** 2007-20

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
14	CB-12	0806	BE	ROS	UN	66	77 42.80	146 49.40	3807+9		1289 - 1312	24	JE/MD/HD/KW	VV	
		0926	BO				77 43.29	146 49.52		3803+8					
		1036	EN				77 43.67	146 50.06							
14	CB-12	0824	BE	ADCP			77 42.91	146 49.56							
		0944	EN				77 43.40	146 49.99							
14	CB-12	1042		DRIF			77°43.40	146° 49.99			267 - 269				Danny, Mike, Neil
14	XCTD	1334	BE	XCTD			77°29.753	145°02.88	3802+9	1100					
14	CB13	16:29	BE	ROS	UN	67	77 18.449	143 14.36	3779+9		1313-1336	24	JE/MD/HD/RN	KB	stop @ bottom for 10 min for WHOI release test
		1747	BO				77 19.063	143 15.515		3771+11	Release test aft. 10 min Down to	3783+8	cast (1755)		
		19=07	EN				77° 19.735	143° 15.841	3780+9						
14	CB13	1647	BE	ADCP			77 18.815	143 15.148					MD		
		19=10	EN				77° 19.574	143° 15.832							

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Additional commemts

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15	CB-15	1:35	BE	ROS	US	68	76°59.899	140°11.200	3725+9m		1337-1341	4	? 5 bottles?		Prod
										5m					
		1:42	EN				76°59.910	140°11.210	3725+9m				3.5nm @	342° 11hr	
15	CB-15	1:25	BE	ADCP			76°59.903	140°11.204							
		0808	EN												
15	CB-15	1:54	BE	ROS	US	69	76°59.938	140°11.243'W	3725+9m		1342-1363	22			DNA/RNA - Prod.
										1000					
		3:06	EN				77°00.177	140°11.611 W							
15	CB-15	Pumping for sediment traps @ 3920 m													
			EN												
15	CB-15	0831	BE	ROS	UN	70	77 01.95	140 14.82	3728+9		1364-1387	24	JE/MDIHN/RJ	vv	Cs/I cast
		0859	BO				77 02.13	140 14.99		1001					
		0923	EN				77 02.27	140 15.11							

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Additional commemts

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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 Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
15	CB-15	0956	BE	ROS	UN	71	77 02.48	140 15.26	3728+9		1388 – 1411	24	JE/MD/HM	✓✓	
		1115	BO				77 02.91	140 15 54		3722+9					
		1220	EN				77 03.20	140 15.85					0.76 @ 350 2.5 hr		
													~~0.83 nm @ 350° 2.5 hrs~~		
15	CB-15	11:15		Net		Net-31	77°03.06	140°15.58		100			~~4.1~~	~~@ 336°~~	
		11:30		Net		Net-32	"	"		100					
	CB15		RE	MOR											MOORING Recovery
16	CB-16	2:51	BE	ROS	UN	72	77° 59.658	140° 0.936	3749+9m		1412 – 1435	24	Hugh, Tim Ten, Motoyo		overflow and bottle fire error at bottom-50,
		4:03	BO			72b	77° 59896	140° 1.375		3742m					stop aquastar and start
		5:13	EN			72b	78° 0.088	140° 1.806	3747m						new file 72up.
															User Input Bottle fire
															was used.
16	CB-16	2:50	BE	ADCP			77° 59.656	140° 00.933							
		5:21					78°00.110	140° 1.864			~~0.7 nm @ 335.5°~~ .47		@ 337°	2.5 hrs	~~2.25 hrs~~
16.	CB-16	3:38		Net		Net-33	77°59.85	140° 01.26		100			HM		
	CB-16	3:50		Net		Net-34	"	"		100			HM.		
	C	0851	BE	XCTD			78° 29.017	140° 01.008	3771	1100					

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~~AFLUX CB-15~~

1.6

1.2 ~~1.9~~

60

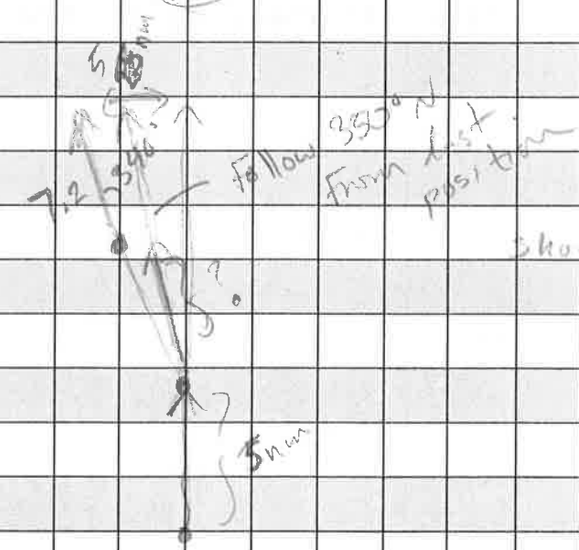
Additional commemts

Drift

CB-15	3.5 nm	342°	11 hr	0.32kt
CB-16	0.76	350	2.5	0.30kt
CB-16N	0.48	337°	2.5	0.20kt

~ 340

48 hr @ ~~340~~ .30 = 14.4 nm



15nm

should see ~ 7.5nm each side

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month August **Year** 2007 **Ship** Louis St Laurent **Cruise ID** 2007-20

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
16	CB-16N	13:01	BE	ROS	UN	73	78°57.09N	139°56.552	3763+9		1436-1459	24	JE/MD/HD/RN	✓✓	remounted primary →
		14:18	BO				78 57.191	139 56.245		3761-18					ice action!
		15:26	EN				78 57.229	139 56.56			0.14nm @ 0°		2.5 hrs		prop + bubblers ship maneuvers.
16.	CB-16N	15:35		DRIF			78°57.2	139°56.6.			251, 253, 270, 273				Aphy broke 251!!
16	CB-16N	20=32	BE	ROS	US	74	78°56.287	139°57.050	3763+9m		1460-1483	24	Hugh, Tim Rick, Motoyo	✓✓	
						74up				1000					Communication error same as Cast 72.
		21=48				74up	78°56.460'	139°57.728	3763+9m						
	CB-16N		DE	BOOY											
	CAMP BEAUTIFUL														
16	TK-1	1=20		ROS		75	78°43.945	138°53.645	3751+9m		1484-1507	24			Sample deep water
	(CB-16E)	2=37				75up	78°44.083	138°54.282'		3747					
		3=46					78°44.214	138°54.875							
				Swapped out CTD acquisition computer for DATA 2 (LSSL #9)											

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Additional commemts

transmissometer blown casts 72 & 73. Lead weights to which trans is attached were loose on frame on one side & may have been torquing the instrument.

- Test fired 3 bottles after reseating connections at back of deck unit & acquisition computer. Sequential fire seemed OK.

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month AUGUST **Year** 2007 **Ship** LOUIS ST LAURENT **Cruise ID** 2007-20

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
18	CB15	0845	BE	Pumping	for	sediment	traps								
		1155													
18	CB 15	1216	BE	Net		Net-35	76°58.0	140° 04.52	3717	(500)					100m VNT taken on x2 wing up.
18	CB15	1253	BE	ROS	Stopped	76	76 58.13	140 04.50	3717		1508-1531	24	JE/MD/HD RN	VV	Prod - RNA/DNA exp.
		1257	EN				"	04.51		6					ice covered site
	XCTD														
19	LS-28	2:10	BE	ROS		77	77°0.726'N	136° 30.811'W	3605-9m		1532-1555	24	Jen, Tim Hugh, Mo	VV	Geochem
		3:26	EN				77°0853'N	136°30.204'W		3630					
		4:32					77° 0.740'N	136°29.444							
	LS-28	2:00	BE	ADCP			77°0.726'N	136° 30.811'W							
		3:59	EN				77° 0.823'N	136°29.810'W							
		~~4:32~~													
19	XCTD-	0701	BE	XCTD		XCTD-	76 42.46	135 52.92	3614						

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Additional commemts

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month AUGUST **Year** 2007 **Ship** LOUIS ST. LAURENT **Cruise ID** 2007-20

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
19	PP-7	10:49	BE	ROS	UN	78	76° 26.294	135° 20.503	3542+9		1556-1575	20	JE/MD	✓✓	salinity 33.1 approx depth
		11:26	BO				76° 26.376	135° 21.466.		1501.8					
		11:59	EN				76° 26.448	135° 21.904	3544+9						
19	~~XCTD~~		~~BE~~	~~XCTD~~	~~/~~	~~XCTD~~									
19	Prod-Ex-Open	14:06	BE	ROS	US	79	76 15.576	133 52.981	3333+9		1576-1599	24	JE/MD HD/RN/KB	✓✓	Prod/RNA/DNA Exp't -
	PP6.5	1415	BO				76 15.544	133 52.698		5m					Open water site
		1417	EN				76 15.541	133 52.661							
19	PP6.5	1430	BE	XCTD		XCTD	76 15.571	133 52.462	3430	1100			MD		
19	PP-6	1716	BE	ROS	UN	80	76 7.39	132 28.919	3030+9m		1600-1623	24	JE/MD HD/RN/KB	✓✓	
		18:26	BO				76° 6.973	132 30.044		3015			Jen, Hugh, Tim, Motoyo		
		19:18	EN				76° 6.824	132° 30.989	3042+9m						
19	PP-6			ADCP											
		19:25	EN				76° 6.823	132° 30.997							

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TRAY = 448

Additional commemts

DAILY LOG

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
				XCTD											
20	PP-4	0:10	UTC	ROS	UN	81	75° 57.205	130° 0.806	198/+9m		1624 – 1647	24	Sarah, Tim, Hugh, Motayo		
		0:52					75° 57.115	130° 1.302		1956					
							75° 57.068	130° 1.986							
20	PP-4	0:06		ADCP			75° 57.200' N	130° 0.812' W							
							75° 57.069	130° 2.011							
20	PP-4	103		Nets		Nt-37*	75° 57.20	130 . 0.81		100			HM(SZ)		Skipped (Nt 36.)*
20	PP-4	123		Nets		Nt-38	"	"		100			HM		
20	PP-4	137		Nets		Nt-39	75° 57.21	130° 0.81		100			HM		
	~~PP~~														
	XCTD														

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Additional commemts

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							Latitude	Longitude							

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Additional commemts

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Month AUGUST **Year** 2007 **Ship** LOUIS ST LAURENT **Cruise ID** 2007-20

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20	PP-2	0521	BE	ADCP											
		0612	EN				75 50.45	128 40.45							
20	PP-2	0521	BE	ROS	UN/US	82	75 50.681	128 38.532	998.5		1648-1670	23	HM/MI & Night watch		TSS/POC +
			BO							995 +4					RNA/DNA Cast
		0628	EN				75 50.40	128 40.98							
20	PP-2	0722	BE	ROS	UN	83	75 50.25	128 42.50	1020 +9		1671-1693	23	JE/MD/HD/RN	✓✓	Geochem
		0801	BO				75 50.15	128 43.92		1025 +8					
		0825	EN				75 50.09	128 44.60						0830	Glass nuts for PP4,
20	XCTD	0942	BE	XCTD			75 49.083	128 15.727	548 +9	551					PP7 found in fridge,
															not frozen — taken
20	PP-1	1040	BE	ROS	UN	84	75 50.78	127 47.57	434 +9		1694-1710	17	JE/MD/HD/RN	✓✓	to freezer.
		1100	BO				75 50.89	127 48.26		436 +7					
		1112	EN				75 50.93	127 48.50							
20	PP-1	1047	BE	ADCP			75 50.82	127 47.80	438 +9						
		1114	EN				75 50.93	127 48.50							

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Additional commemts

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Month	Year	Ship	Cruise ID

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
20	PP1	535		NETS		N(40,41)	75°50.96	127°48.55	438+9	100M			JE/MD		
20	en route	to CB17		FRC out	with	Jenny Hutchings,	Alice Orlich,	Luc Rainville,	Tim Kane &	Toshi			to		collect
	samples of	dirty ice,		hand	CTD	w/ 19+ &	XCP								
		1549	EN				75 45 81	129 50.30	1674						
20	en route	2234					75 41.078	132 38.056				30 min	& science	Flight	
				Helicopter	Flight	to	Film / view		multiyear ice						Yuko, Mutuya, Toshi
				& boundary	btw	old	& younger	ice	and						& Jenny
				new basin	v.	old basin	water								
20	XCTD	2252		XCTD	BE		75°42.145'	132°38.815'	3006	1100			MI		
21	XCTD	0006		XCTD	BE		75°42.351	133°18.873'	3183	1100			MI		
21	XCTD	0106		XCTD	BE		75°45.519'	134°16.875	3379	1100			MI		
21	XCTD	0219		XCTD			75°47.810	135°06.071	3459	1100			MI		
21	XCTD	0416		XCTD	BE		75°53.318	136°40.252	3577	1100			MI		
21	XCTD	0625		XCTD	BE		75°54.911'	138°12.750'	3638	1100			MD		

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Additional commemts

Problems with 1° Xmiss. Large noise 300-400 m on downcast. Cleared up on upcast, but still some small dropouts. Swapped out Xmiss/Fluor Y cable for one used in 2006 with new wetpluggable connector on CTD end. MD ISUS V=12.25

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month AUGUST **Year** 2007 **Ship** LOUIS ST-LAURENT **Cruise ID** 2007-20

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
21	CB-17	9:19	BE	Ros	UN	85	75°59.515	139°58.712	3693+9		1711-1722	12	MD/JE RN/HD	✓✓	POC/TSS w/ SBE19+ on
		9:37	BO				75°59.479	139°58.484		301.1					side of rosette
		9:51	EN				75°59.430	139°58.284	3688+9						
21	CB-17	11:03	BE	Ros	UN	86	75°59.070	139°59.124	3688+9		1723-1746	24	JE/MD RN/HD	✓✓	Bottle 1 misfire —
		12:20	BO				75°58.926	139°57.946		3686+9					did not close, but next firing closed #2
		13:36	EN				75°58.842	139°56.749	3693+9						Bottle 22 did not close
21	CB17-5	15:35	BE	ROS	US	87	75 39.004	139 43.008	3693+9 m		1747-1770	24	JE/MD RN/HD KB	✓✓	PROD/RNA/DNA
		15:43	BO				75 39.038	139 42.950		5m					exp - half ice/half open
		15:46	EN				75 39.026	139 42.892	3694+9 m						
	XCTD	1642	BE				75° 30.736	139°49.377	3673	1100					
21	CB-18	19:55	BE	ADCP			75°0.061	140°0.242							

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21	CB-18	19:59	BE	ROS	UN	88	75° 0.065'N	140° 0.252'W	3621+9m		1771-1794	24	[illegible]	vv	
		21:15	BO				75° 0.262'N	140° 1.722'W		3616					
		22:20	EN				75°2.469'N	140° 2.341'W	3626+9m						
21	CB-18	2037		NETs		N42	75° 00 16	140° 01.31		100			HM.		
		2049		NETs		N43	"	"		100					
	CB-18			FRC	(zodiac)		in	water	for	SPE 19+	CTD	casts			
						①	sampling	near ship	+	away	~~close~~	for	'ship effect'		
						②	"	near ice	+	away		for	'ice edge effect'		
22	CB-19W	7:02	BE	ROS	UN	89	74°30.23	144°58.56	3731+9		1795-1818		SE/MD		
		8:12	BO				74°30.51	144°58.49		3729+10					
		9:19	EN				74°30.79	144°59.08	3732+9						
22	CB-19W	0709	BE	ANCP											
		0906	EN				74 30.75	144 58.95							
22	XCTD	1209	BE	XCTD			74°18.34	143°22.74	3704	1100					

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Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month August **Year** 2007 **Ship** Louis St Laurent **Cruise ID** 2007-20

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position Latitude	Position Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments
22	XCTD	1455	BE	XCTD			74°10.42'	141°42.55'	3645	1100			MD		
22	CB-21	22:42	BE	ROS	UN	90	73°58.523'	140° 3.685'	3498+9m		1819-1842	24			
		23:50					73° 59.083	140° 3.197		3494m					
23		00:58					73°59.638	140° 2.734							
	CB-21			Pumps											3000 & 2000 m
															Pump 2 hrs
23	CB-21	0612	BE	ROS	UN	91	73 57.41	140 06.01	3496+9		1843-1866	24	JE/MD/HD/RN	VV	Deep Geochem
		0727	BO				73 57.82	140 04.81		3483+10					
		0825	EN				73 58.13	140 03.85							
23	CB-21	0643		Net		N(44)	73° 57.63	140° 04.93	3493+9	100					
		648		Net		N(45)				100					
23	CB-21		BE	Pumps					3495+9						
23		1145	EN				73 58.97	140 01.77		1000					

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DAILY LOG — Ocean Sciences and Productivity Division — INSTITUTE OF OCEAN SCIENCES

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23	CB-21	1125	BE	ROS	US	92	73 58.89	140 02.04	3507 +9		1867-1886	~~24~~	JE/MD/HD/RN	VJ	Cs/I
		1152	BO				73 58.98	140 01.75		1000		20			4 bottles did not
		1218	EN				73 59.07	140 01.21							fire
	CB-21		BE	ADCP											
			EN												
	—	1245 -	swapped in	deck	unit	0649	to see	if firing	problems	were	deck	unit	related.		
				- still	cannot	fire	bottles	from Seasave,	although	conf.	comes	through	when they are	fired w/	deck unit.
23	CB-21	1300	BE	Ros	St.	93	73 57.90	140 05.75	3491 +9		1887-1890	4	JE/MD/HD/RN	VV	Prod/DNA-RNA
		1306	EN							5					
23	CB-21	1321	BE	Ros	US	94	73 58.02	140 05.28	3494 +9		1891-1912	22	JE/MD/HD/RN	VV	Prod/DNA-RNA
		1347	BO				7358.04	14004.81		1000					
		1427	EN				7358.23	140 04.460	3494 +9						
23	CB-21	1645		change	Knudsen	sound	speed	from 1479	to 1477						

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