

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	BEW-08	2331		DRF			72 26.732	72 34.601			#205, 206	2			# Phil Soy boyer
23	BEW-07	0258	BE	ROS	UN	83	72 29.956	71 59.742	1050		1364-1385	22	SZ	✓	
		0330					72 29.833	71 59.941	11	1028+6					
		0403					72 29.802	71 59.942	11						
"	"	0405		DRF			72 29.802	71 59.942			207, 208		SZ		Captain Palt - 208 SZ - 207
23	BEW-06	7:56	BE	ROS	UN	84	72°32.327	71°20-706	1226		1386-1410	24	HD	✓	
		8:24	BO				72°32.268	71°20 030		1204+9					
		8:53	EN				72 31 986	71°19.387	1243						
23	BEW-06	9:06		DRF			72 31.82	71°18.39			209, 210		HD		
23	BEW-05	1227	BE	CTD / OX test		85	72°35.226W	70°50.014W	1408				HD		oxygen sensor
		1256	BO							300-	NONE				test cast w/CTD
		1338	EN				7234.936	70 49.979W	1488						at 50m not @ surface test finished

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45

Additional comments

w/c angle max Port 8° + Strbd 25° during cast.

— Waiting w/pump on at 50 m to make decision regarding time of next Ros cast # 86
— Shortage of CFC syringes.

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23	BEW-05	1645	BE	ROS	UN	86	72 34.260	70 49.648	w/1490m/s 1490		1411-1434	24	SZ	✓	
		1720	BO				72 34.062	70 50.261	1488	1464+5					
23	BEW-05	1815		DRF			72 35.982	70 47.023			211, 212				M. Lewis deployed
23	BEW-04	2316	BE	ROS	UN	87	72 37.522	69 46.466	1854		1435-1458		SZ/BS	✓	
		2359	BO				72 37.390	69 45.887	1857	1826+7					
		0045	EN				72 37.396	69 45.485							
24	BEW-04			DRF			72 37.396	69 45.485			#213, #214				Mary Stecker Day deployed
24	BEW-04.5	445	BE	CTD	/	88	72°35.813	70°16.352 W	173411		/	/	ND	NI ☺	Scan #. 12601 - start -
		519	BO				72°35.714	70°16.684		1702+9					
		6:02	EN				72°35.586	70 16 901	1732						
24	BEW-03	8:41	BE	ROS		89	72°39.973	68°59.718	2090		1459-1482	24	ND	✓	Reboot Knudsen 0.00 on display
		926	BO				72 39 97	68 59.544		2052+9.6					
		10:15	EN				72°39.438	68.59.348	2081						

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Additional comments

There is no sample 1410 $\Rightarrow$ Typo in sample # logging means it ~~was~~ was
skipped, btw cast 84 and 86 (some mistake (klu))

Logging using 1490m/s (Knobsa) - Ad gear @ 595m going down & at 603m up. * Pressure is working!

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							Latitude	Longitude							
24	PRW-03	10:23		DRIF			72.39.50	68°59'81	2090		215-216	2	HD		calm sea & wind
24	BEW-02	1645	BE	ROS	UN	80	72 45.013	67 57.895	2304			24	82	✓	
		1735	BO				72 44.816	67 57.671		2273+5	1483-1506				
		1828	EN				72 44.710	67 57.761							
24	BEW-02.5	22:06	BE	CTD	NA	91	72:42.596	68.28.362	2227		N/A	Ø	Ø.5.	✓	NO Drifter churnings
		2256	BO				72 42.758	68 27.720	2226	2213 +7					
		2344	EN				72 43.019	68 26.828							
25	B-01	0209	BE	ROS	UN	92	72 45.125	66 59.969	2397						
		0300	BO				72 45.355	66 00.000		2362+4	1507-1530				
25	B-01	1404	BE	CTD OX test	✓	93	72°45'018"N	67°0.218'W	2396		✓	✓	HD/	✓	oxy test
		1656	BO				72 45.44	67 1.34		2359-8			store		
		1900	EN				72 45.0	67°02'							

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42

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. This creates a checkerboard-like pattern across the entire grid.

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25	B-01	1929	BE	ROS	UN	94	72 44.702	67 02.459	2396	150	1531-1536	6	SZ	NO	(cleared prior to last cast)
		1949	EN				72 44.574	67 2.800							
25	"	1950		DRF			72 44.574	67 2.800	2396	-	217+218	2	SZ		217 + 218 AIF
25	BNS-02	22:11	BE	ROS		95	73 02.98	67 0.05	2392		1537-1560				
										2356+8					
25	BNS-02	~22:30		DRF			73 03.4720	67 01.3850			219 + 220				219 + 220
															'Krishna' Vem
25	BNS-03	4:38	BE	ROS	UN	96	73°22.625	67°1.354W	2377		1561-1584	24	HD	✓	last night ship is Suck
		5:26	BO				73°22.612	67°1.792W		2340+9.1					
		6:16	EN				73°22.628	67°2.324	2376						
25	BNS-04	12:23	BE	ROS	UN	97	73°40.838	66°59.976	2355		1585-1608		HD/S.L	✓	primary transmissometer
		13:11	BO				73°41:06	66°59:99		2320+6					Primary Trans is
		13:56	EN				73°41:182	67°0:139	2354						dumped off to
															leak in CTD
															bulbhead connector

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44

Additional comments

} Cast to sample the last 100m of B-01

} Drifter Chummers by #217 Glenn
#218 AIF

IOS Transmissometer ~~not~~ very spiky on cast 95 and Free voltage on this channel also had voltage instead of ϕ . On deck, examined both ends of cable and yes CTD bulkhead connector ~~to~~ had water inside but no green corrosion. Cleaned connector w/ Q-tip & rubbing alcohol, allowed to dry 1 hr & reconnected.

} primary Trans offset on downcast, better on upcast. But Free voltage channel still shows voltage

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							Latitude	Longitude							
26	BSN-05	1913	BE	ROS	UN	98	73° 57.87	67° 00.56	2264		1609-1632	24	Steve + SZ	✓	only 2nd ^{1st} Trans
		20:00	BO				73° 57.81	67° 0.90		2228+10					is plugged in
		20:42	EN				73° 57.67	67° 1.13	2264						
	B			DRF											
27	BSN-06	0206	BE	ROS	UN	99	74° 16.920	67° 0.437	2232	2198+8		24	SZ	✓	
		0312	BO				74° 16.908	67° 1.061			1633-1656				
		0401	EN				74° 16.882	67° 0.583	2231						
27	BSN-07	1015	BE	ROS	UN	100	74° 33.024	66° 59.651	2155		1657-1680	24	HD	✓	Cups - final batch.
		1104	BO				74° 32.791	66° 59.347		2102+10					
		11:45	EN				74° 32.777	66° 59.370	2156						
27	BSN-07	11:47		DRF			74° 32.748	66° 59.209				2232 2243	HD + Chuck		
27	BSN-075	15:10	BE	CTD	N/AP	101	74° 40.024	66° 59.591	2107		N/AP	N/AP	HD	✓	4801 = Scan #.
		15:52	BO				74° 40.086	67° 00.050		2074+9					pylm →
		16:34	EN				74° 39.99	67° 00.40	2112						

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Additional comments

Stopped @ 20m on way down to attach cyps.

✓
} Bottle II did NOT close again (no water samples, just test fire).
Pylon head swapped out after cast. Deck test is good.

START
16100

601

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							Latitude	Longitude							
27	BSN-08	18:09	BE	ROS	UN	102	74 47.021	67 0.044	1705		1681-1704	24	Stere	✓	New pylon head
		18:50	BO				74° 46.89	67° 0.58		1687.7	+7.3				on water sample
		19:27	EN				74° 46.79	67° 0.88	1725						
															7225 - Stere 2 Drifter
27	BSN-08	19:30		DRF	—	—	74 46.79	67 0.88	—	—	225+226	2	5226 - Glen		chummers
27	BSN-08.5	23:11	BE	CTD	DRF	103	74 52.516	67 0.010	1250	1254+7.5	—	—	Loneli	✓	0.3 in air pressure
			BO						1280						All bottles fired
28		0025	EN				74 52.483	66 39.827							For tests
28	BSN-09	02:14	BE	ROS	UN	104	74 57.989	67 0.028	674		1705-1723	19	SZ	✓	Lg wire angle
		0302	EN				74 58.088	67 0.490		(653)					
28	BSN-09	03:10	BE	DRF	—	—	74 58.088	67 0.490	—	—	227+228	2	SZ	—	227 = AIF
															228 = Stan
28	BNS-10	10:10	BE	ROS	UN	105	75° 8.177'N	66° 59.540'W	566		1725-1742	18	HD		Missile 1724.
		10:31	BO				75° 8.150	66° 59.311		473+9.6					PTO for notes
		10:50	EN				75° 8.243	66 59.416	566						

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(44)

Additional comments

#19 did NOT CLOSE

Pylon head "A" removed & washed with ~~boil~~ hot soapy water & replaced. Tape guide on #19 moved farther over to make better alignment.
 → ~~But~~ couldn't tell because of darkness but it appears one bottle may have closed only after it got to the surface.

→ Altimeter has been fine, but Free channel w/ altimeter is showing small voltage. This may have been happening earlier - only looked at voltages this cont. SE
 Bottle 20+19 both fired at 5m just in case 19 did not close. 19 DID close, so ignore 20.

BNS-10 cast - SAGA

→ stay at ~65m due to wire angle (now 8° Port) for 10:15 - 10:19 started again when Port 3° angle
 → (transmission spliced @ ~175m) ~2-3ft from hull.

Very large iceberg ~300m on starboard side of ship. We seem to be getting closer to it every minute!

Stopped again on up cast @ 225m. - (10:29 -)
 Iceberg now 200m away.

wire angle 7° port.

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28	BNS-10	16:55	UTC	DRIF	✓	✓	75° 8.162N	66° 59.243W	566		229-230			✓	Captain.
	BNS-10.5	17:12	BE	CTD		106	75° 13.46	66° 59.87	458	1490					0.2 in air
		17:31	BO				75° 13.42	66° 59.88		452+4					START SCAN 14569
		17:46	EN				75° 13.39	66° 59.81	458						0.3 IN AIR
															All bottles tested
															all closed!
	BNS-11	18:26	BE	ROS		107	75° 18.89	67° 0.01	424						0.3 IN AIR
		18:46	BO				75° 18.75	67° 0.13		421+5	1743-1760				
		18:59	EN				75° 18.71	67° 0.16	424		(231-232)				
	BNS-11			DRF			"	"			↓				drifter bottles
	BNS-11.5	21:44	BE	CTD		108	75° 24.95	67° 7.60	428						0.2 IN AIR
		22:01	BO				75° 24.78	67° 7.37		419+5					START SCAN 14617
		22:16	EN				75° 24.70	67° 7.23	425						0.3 IN AIR

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100

Additional comments

Pylon head "B" put back on. Pylon head "A" having trouble each
cast w/ new rislin each time (19, then 3, then 18).
so now just keep eye out for #11 rislin. Deck test goes fine

108 & 107 HAD VOLTAGE 0.09 ± 0.06 ON #5V
ON #108 VOLTAGE @ $\approx$ APPROX 20SM 0.13V @ 45M. GOING UP TO SURFACE

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28	BNS-12	2311	BE	ROS	UN	109	75 31.946	67 00.090	400		1761-1778	18	SZ	not	but last cast
		2328	BO				75 31.793	67 00.450		392+5.5					not long ago.
		2341	EN				75 31.720	67 00.6651	400	4				az	START SCAN 9425 END SCAN 48769
28	BNS-12	2345	DE	DRF	—	—	75 31.720	67 00.665	—	—	233+234	2			Captain + Smith
29	BNS-12	5 0405	BE	ROS		110	75°38.449	67°0.314 W	442.				AD.	✓	
		426	BO	CTD			75°38.460	67°0.456		432+5					Scan # 11329 (stat.)
		4:40	EN				75°38.473	67°0.871.	443.						
29	BNS-13	06:06	BE	ROS		111	75°41.624	67°5.684	436.8		1779-1797	19	AD	✓	11454
		6:25	BO				75°41.644	67°6.196		427+6					
		6:39	EN				75 41.675	67.6.438	435.2						
29	BNS-13	6:52		DRIF	—	—	75.41.69	67.6.65	435.2		235+236	2			Helin:
29	BNS-13.5	1006	BE	CTD		112	75°45.962	66°59.891	389						Start Scan # 11761
		10:24	BO				75°46.033	67°0.471		377+5					Stop Scan 49690
		10:37	EN				75°46.103	67.0.928	382.7						

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102

The sunrise was incredible! Even Ross was moved by it!

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Daily_log_book.doc

104

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