

DAILY LOG BOOK

MISSION
NUMBER

2007-02
- 28
- 03

DATE:

VESSEL:

PROJECT:

From: VICTORIA 2 JULY to: BARRROW ALASKA 22 JULY
CCGS "SIR WILFRID LAURIER"
C30 / IPY
LEG 1 , LEG 2 , LEG 3

INSTITUTE OF OCEAN SCIENCES
OCEAN SCIENCES AND PRODUCTIVITY DIVISION
SIDNEY, BC, CANADA

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>July</i>				Year <i>2007</i>			Ship <i>Laurier</i>				Cruise ID <i>2007-02</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							
3	NP2	1820	BO	ROS	UN	2	49 48 14	128 57 87	1000+						
		1824	BO				49 48 24	128 59 93		1000	1-12	12	DA		
		1829	EN				49 48 33	129 00 10							
4	NP3	0719	BE	ROS	UN	3	50 38 93	132 12 86	1000+						
		0734	BO				50 38 88	132 12 99		2928 1000	13-24	12	DA	✓	NMEA TIME OUT?
		0754	EN				50 38 84	132 13 03							
5	NP4	0202	BE	ROS	UN	4	51 15 74	135 04 08	1000						
		0221	BO				51 18 30	135 04 27		3466	25-36	12	DA	NO	Trans. misoperation lenses not accessible
		0239	EN				51 18 34	135 04 45							
5	NP5	1433	BE	ROS	UN	5	51 54 79	138 09 54	3645						Pressure sensor read
			BO				51 54 83	138 09 55			37-48	12	DA	NO	about 15 sec drop at 200 m →
			EN												
6	NP6	0123	BE	ROS	UN	6	52 19 25	140 31 14	3714						
		0152	BO				52 19 31	140 30 02		1000	49-60	12	DA	NO	Pressure spike Sensave 7?
		0209	EN				52 19 34	140 31 01							
6	NP8	0119	BE	ROS	UN	7	53 07 63	146 44 20	3914	1000					2007-02-SWL-C09.11ex
		0135	BO				53 07 62	146 44 19			61-72	12	DA	NO	Pressure spike at 50m
		0153	EN												when winch slowed 990m

Cast type:

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6800 m Pressure sensor

Wire Out

CTD

Pressure

300

313

500

517

1600

1620

2809

2851

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7	NP9	14:24	BE	ROS		8	53° 26.868	150° 26.546	4541				MJ		pressure spike at 500m
		15:16	BO				53° 26.857	150° 26.518	4540	4000	73-84	12			
		15:58	EN				53° 26.854	150° 26.526	4540						
8	NP10	01:16	BE	ROS		9	53° 36.547	153° 2.489	4693						pressure spike @ 600m
			BO				53° 36.553	153° 2.504	4692	1000	85-96	12			pressure-spike @ 800m (w/ up)
			EN				53° 36.552	153° 2.489	4693						@ 300m
9	NP11		BE	ROS		10	53° 43.094	156° 45.407	4463				MJ		all vents on bottles
			BO				53° 43.105	156° 45.343	4464	1000		12			were open during cast
			EN				53° 43.049	156° 45.289							
9	NP12	01:09	BE	ROS		11	53° 43.991	159° 59.093	5415				N.B.		
			BO				53° 43.991	159° 59.306	5400	1000	109-120	12			pressure spike @ 700m (upcast)
			EN				53° 43.972	159° 59.378	"						
10	UN08		BE	ROS		12	53° 38.354	163° 47.954	1750			12	MJ		spikes: 950m
			BO				53° 38.266	163° 48.181	1720	1740					
			EN				53° 38.	163° 48.							
10	UN07		BE			13	53° 44.042	163° 55.914	1324				MJ		spikes 400, 900
			BO				53° 44.044	163° 55.967	1316	1300					
			EN				53° 44.033	163° 55.986	1317						

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							Latitude	Longitude								
9	UN6	9:19	BE	ROS		14	53 48.454	164 3.725	91	80m						
		9:22	BO				53 48.451	164 3.716	91		145-150	6				
		9:27	EN				53 48.450	164 3.697	90.50							
9	UN5	10:15	BE	ROS		15	53 53.016	164 11.618	81.50							
		10:18	BO				53 53.028	164 11.604	80.50		151-156	6				
		10:23	EN				53 53.018	164 11.581	81.00							
9	UN4	11:19	BE	ROS		16	53 57.414	164 19.852	110m							
		11:22	BO				53 57.407	164 19.853	110m		157-163	7				
		11:27	EN				53 57.416	164 19.853	110m							
10	UN3	00:18	BE			17	54 2.436	164 27.810	100m							
		00:20	BO				54 2.442	164 27.816	100m		164-170	7				
		00:24	EN				54 2.440	164 27.805	100m							
10	UN2	01:18	BE			18	54 6.790	164 35.704	89m							
		01:21	BO				54 6.785	164 35.706	89m		171-176	6				
		01:25	EN				54 6.796	164 35.696	89m							
10	UN1	02:12	BE			19	54 11.263	164 43.672	70m							
		02:13	BO				54 11.263	164 43.666	70m		177-182	6				
		2:16	EN				54 11.270	164 43.650	70m							

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							Latitude	Longitude									
10	BCL-1	12:41	BE	ROS		20	54 10.644	166 40.788	1247						pressure spike at 130m		
		12:57	BO				54 10.614	166 40.662		1000m	183-194				transmissometer spike at 200m		
			EN				54 10.632	166 40.537									
11	BCL-2	13:22	BE	ROS		21	55° 26.192	169° 35.506	1246				178		deep pressure sensor on deck		
		13:39	BO				55° 26.203	169° 35.555		1000							
		14:02	EN				55° 26.219	169° 35.528	1245								
12	BS0	01:43	BE	ROS		22	56 01 43	172 57 47	3150						NMEA data entered manually in header		
		02:35	BO				56.01 43	172 57 45		3140					Using seaseave V-7 =>		
		08:35	EN				56 01 42	172 57 44									
12	BS1	5:35	BE	ROS		23	56 18.75	172 49.39	1627								
		6:01	BO				56 18 73	172 49.47		1645							
			EN				56 18 78	172 49 27									
13	BS2	7:42	BE	ROS		24	56 25.133	172 42.61	1379				178				
		8:07	BO				56 25.129	172 42.591	1380								
		8:36	EN				56 25.125	172 42.614	1380								
13	BS3	10:54	BE	ROS		25	56° 28.52	172 46.988	815				178		switched back to 1000m pressure sensor =>		
		11:09	BO				56 28.51	172 46.981		820					communications problems =>		
		11:28	EN				56 28.55	172 46.979									

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Sesare 7: In an effort to improve data quality, Sesare V-7 is being used to acquire data. It doesn't recognize the NMEA string, so this GPS position data is being entered manually. Doug

* Switched to pressure sensor 0541 1000 db. Communications problems with ORD initially at BS3.

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	BS3a	12:00	BE	ROS		26	56 31.349	172 45.861	395				MJ		no bottles, only profile
		12:08	BO				56 31.337	172 45.867	395	385					Headw says BS 4,
		12:15	EN				56 31.329	172 45.855	396						needs to be changed
	BS4	14:00	BE	ROS		27	56 32.719	172 45.376	240				MJ		
		14:09	BO				56 32.736	172 45.351	241	226					
		14:18	EN						240						
	BS5			ROS		28	56 38.769	172 43.918	132				MJ		
							56 38.762	172 43.85		126					
							56 38.741	172 43.852	132						
	BCL-3	23:11	BE	ROS		29	57 57.62	173 05.69	115				MJ		
		23:14	BO				57 57.63	173 05.68	115	110	264-272	8			
		23:20	EN				57 57.65	173 05.68	115						
	BCL-4		BE	ROS		30	59 19.199	173 29.974	110	105	273-284		MJ		
			BO												
			EN												
	BCL-5	3:08	BE	ROS		31	60 38.890	174 09.101	90	87	285-296	12	MJ		
			BO												
			EN												

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							Latitude	Longitude							
13	SLIP 1	23:18	BE	ROS	US	32	62 00.84	175 03.39	81.5m						Internal recording stopped due to low voltage
		23:20	BO				62 00.85	175 03.40	81.5	77	297-308	12			-1.50°C on bottom
		23:26	EN				62 00.86	175 03.42	81.5						
14	SLIP 2	01:37	BE	ROS	US	33	62 03.04	175 12.30	83						
		01:40	BO				62 03.07	175 12.28	83	77	309-320	12			
		01:49	EN				62 03.07	175 12.25	83						
14	SLIP 3	05:46	BE	ROS	US	34	62 23.64	175 34.16	74						
		05:49	BO				62 23.63	175 34.15	74	70	321-332				-1.6°C
		05:57	EN				62 23.63	175 34.10	74						
15	SLIP 5	10:49	BE	ROS	US	35	62 33.787	173 33.243	67	67			178		
			BO								333-344				
		11:01	EN				62 33 79	173 33 24							
15	SLIP 4	14:50	BE	ROS	US	36	63 01.74	173 27 39	74						
			BO							68	345-356				
		15:02	EN				63 01 74	173 27 35							
	ANS-2	22:07	BE	ROS	US	37	63 51 02	171 52 85	36						
		22:11	BO				63 51 02	171 52 84		32	357-362	6			
		22:16	EN				63 51 03	171 52 82							

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⇒ 2007-02-SWL-0032.hex in the internal recording was stopped by low voltage. CTD was left on after 2007-02-SWL-0031.hex and the batteries were run down. Between 0032.hex and 0033.hex batteries were changed.

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14	ANS-3	2246	BE	ROS	US	38	63 53 99	171 58 91	40 42						
		2250	BO				63 53 98	171 58 86		38	363-369	7			
		2254	EN				63 54 04	171 58 72							
14	ANS-4	2329	BE	ROS	US	39	63 57 00	172 05 94	53 55						
		2333	BO				63 57 00	172 05 95		50	370-376	7			
		2338	EN				63 57 00	172 05 89							
15	ANS-5	0025	BE	ROS	US	40	64 00 94	172 11 86	52 55						
		0029	BO				64 00 92	172 11 82		50	377-383	7			
		0036	EN				64 00 93	172 11 58							
15	BCL-6	0134	BE	ROS	US	41	64 01 97	171 49 73	50 53						
		0141	BO				64 01 97	171 49 53		45	384-393	10			Altimeter not picking up bottom well
		0150	EN				64 01 99	171 49 23							
15	KIV1	0423	BE	ROS	US	42	64 13 73	170 51 58	33						
		0427	BO				64 13 74	170 51 55		30	-	0	DA+		
		0428	EN				64 13 74	170 51 53							
	NOM2		BE	ROS		43	64 25.33	170 03.57							
			BO							40					
			EN								-	0			

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	RUS-2	11:30		dry		44	64 39.52	169 57.02	47		394		kg		dry cast altimeter does not respond well near the bottom
	UTBS-5	12:19		ROS		45	64 39.99	169 55.27	47	44			kg		
	UTBS-2			ROS		46	64 40.97	169 05.95	45	42	395-402		kg		
15	UTBS-4	19:22	BE	ROS		47	64 57 56	169 53 07	49		403	1			
		19:25	BO				64 57 55	169 53 08		45			DA+		
		19:35	EN				64 57 56	169 53 09							
15	UTBS-1	22:32	BE	ROS		48	64 59 54	169 08.15	47						Adjusted altimeter →
		22:37	BO				64 59 54	169 08 15			404	1	DA+		Bot temp 2.197
			EN												
16	BRS-12	04:02	BE	ROS		49	65 38 97	168 10 19	23						
			BO				65 38 01	168 10 19		18	405-409	9 *	DA+		* 5- IOS * 4- UT
			EN				65 38 13	168 10 21							

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Altimeter Adjustment: Slightly moved the altimeter position in an attempt to improve bottom detection. DA.

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							Latitude	Longitude							
16	BRS-11	4:36	BE	ROS		50	65 39.13	168 13.05	41						
		4:42	BO				65 39 24	168 13 14		37	410-418	10*			IOS 2-10 UT 1
		4:48	EN				65 39 42	168 13 26							
16	BRS-10	6:04	BE	ROS		51	65 39 71	168 16 44	46						
		6:08	BO				65 39 87	168 16 48			419-428	11*			*IOS 2-11 UT 1
		6:15	EN				65 39 10	168 16 53							
16	BRS-9	6:57	BE	ROS		52	65 39.78	168 20.21	50		429		MR		
			BO												
		7:04	EN				65 39.82	168 20.21							
16	BRS-8	7:26	BE	ROS		53	65 40.16	168 23.96	53		430-439		MR		
			BO							49					
		7:40	EN				65 40.31	168 23.87							
16	BRS-7	8:30	BE	ROS		54	65 40.43	168 28.77	55		440		MR		
			BO							52					
			EN				65 40.47	168 28.74							
16	BRS-6	9:04	BE	ROS		55	65 40.96	168 34.02	53		441-450		MR		
			BO							50					
			EN				65 41.06	168 33.95							

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16	BRS-5	10:25		ROS		56	65 41.39	168 38.66	52	48	451		MJ		use upcast for processing
							65 41.43	168 38.63							
16	BRS-4	11:03		ROS		57	65 41.96	168 42.89	52		452-460		MJ		
										48					
							65 42.01	168 42.98							
16	BRS-3	11:56		DRY		58	65 42.23	168 46.55	53		—		MJ		dry cast
										48					
16	BRS-2	12:26		DRY		59	65 42.60	168 50.32	51		—		MJ		dry cast
										49					
16	BRS-1	12:50		ROS		60	65 42.95	168 53.84	49	49	461-469		MJ		
										46					
							65	168							
16	BRS-0	14:20		DRY		61	65 43.41	168 57.45	46	37			MJ		dry cast

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17	UTN-1	4:02	BE	ROS		62	66 42 55	168 23 68	35						2.24°C
		4:07	BO				66 42 55	168 23 66		31	470	8*			1-105 2-8-UT
		4:13	EN				66 42 55	168 23 68							
17	UTN-2	8:04	BE	ROS		63	67 03.06	168 43.84	46				<i>Hz</i>		did 10 m surface soql.
			BO							43	471-478				conductivity sensor
		8:14	EN				67 03.06	168 43.84							needs to be
17	UTN-3	11:02	BE			64	67 20.06	169 00.00	50				<i>Hz</i>		flushed and watched.
			BO							45	479				
		11:17	EN				67 20.09	168 59.99							
17	UTN-4	18:15	BE			65	67 30.03	168 54.46			480		<i>Hz</i>		Noisy salinity
			BO												in top 15 m of downcast
			EN				67 30.08	168 54.51							→
17	UTN-5	20 28	BE			66	67 40 22	168 57 59	51						10 m flush
		20 34	BO				67 40 23	168 57 48		48	481	10*			UT-1 205-2 UT 2-10
		20 43	EN				67 40 23	168 57 49							Bottom Temp: 2.8
17	UTN-6	23 19	BE			67	67 44 15	168 26 25	50						
		23 25	BO				67 44 16	168 26 24		46		10*			* UT-1 205-2 UT 5-10
		23 33	EN				67 44 16	168 26 24							Bot Temp: 2.6
															Sensor Change 7

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

BE = beginning time of cast
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Transmissometer to be cleaned for each cast, do not use Ammonia products

Daily_log_book.doc

* Highy salinity in top 15 m of downcast. Noticed a leak that may have affected flow through the sensors in duct tubing. Changed tubing, re-oriented pump. JA

* Sensor change

Temp & Cond sensor swap

OLD: T- 4115 C- 2607

New: T- 2668 C- 2754

DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month <i>July</i>				Year <i>2007</i>			Ship <i>Lawrier</i>				Cruise ID <i>2007-02</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							
18	UTN-7	2:22	BE	ROS	US	68	67 59 96	168 56 01	58						Bottom Temp: 1.52
		2:29	BO				67 59 98	168 56 05		54		12*			* 1-UT 2-12-103
		2:38	EN				67 59 99	168 56 09							* Using com file 2007-02 SWL 0334.com
18	BCL-7	15:17	BE	ROS		69	70 00.02	168 59.91	36				178		
			BO							33	449-503	8			
		1	EN				70 00.07	168 59.79							
19	BCL-8	1:39	BE	ROS		70	71 05.43	164 39.98	45						
		1:45	BO				71 05 06	164 39 93		41	504-513	10			
		1:52	EN				71 05 07	164 39 94							
19	BC1		BE	ROS		71	71 03.95	159 21.67							
			BO												
			EN												
19	BC2		BE	ROS		72	71 24.76	157 29.61							
19	BC3	2155	BE	ROS	US	73	71 35 36	155 59 04	205						
		2203	BO				71 35 40	155 58 82			537-547	12*			* 1-UT 2-12-103
		2016	EN				71 35 48	155 59 75							
20	BC4	514	BE	ROS	US	74	71 55.80	154 53 17	617						Shallow cast UT - all
		520	BO				71 55 82	154 53 22		150		12	JA		no IOS sampling
		534	EN				71 55 82	154 53 24							

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DAILY LOG

Ocean Sciences and Productivity Division

INSTITUTE OF OCEAN SCIENCES

Month July				Year 2007			Ship SWL					Cruise ID 2007-02				
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								
20	BC-4	06:15	BE	ROS	US	75	71 55.82	154 53.30	612m							
		06:29	BO				71 55.81	154 53.27		597	548-558	12			I like Ice Cream? Me too!	
		06:47	EN				71 55.81	154 53.29	612m							
20	BC-5	13:06	BE	ROS	US	76	72 00.06	154 42.62	895				HR		UT samples only	
		13:11	BO				72 00.10	154 42.68		150					shallow	
		13:24	EN													
20	BC-5	13:57	BE	ROS	US	77	72 00.05	154 42.38	1046				HR		deep	
			BO				72 00.06	154 42.60		1020	559-569					
		14:40	EN				72 00.06	154 42.70	1044							
20	BC-6	21:03	BE	ROS	US	78	72 14.50	154 03.24	2106						ICE FLOWS	
		21:11	BO				72 14.52	154 03.39		250						
		21:24	EN				72 14.55	154 03.44				12	DA		Shallow - UT only sampling	
20	BC-6	22:02	BE	ROS	US	79	72 14.88	154 04.35	2048							
			BO				72 14.93	154 05.29	2070	2042	570-580				wrong T&C sensor cal	
		23:22	EN				72 14.96	154 06.54	2160				W.D.		Deep Cast - Ios Bottom Temp - 0.405C	

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* On BC-6. Data acquired using old deep con file with
T 4115 & C 2607. Will create new con file 2007-02-SWL-0334 deep.con
to be used for processing.

