

DAILY LOG BOOK

MISSION
NUMBER

2004-13

DATE:

From: 8 JULY '04

to: 22 JULY '04

VESSEL:

CCGS "SIR WILFRID LAURIER"

PROJECT:

JWACS

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

Captain: Mark Taylor First Officer: _____
Second Officer: _____ Third Officer: _____

Mission Participants / Agencies: _____

Scientific Personnel:

Party Chief:

Bon van Hardenberg

Name	Watch	Cabin	Name	Watch	Cabin
<u>Jackie Grebmeier</u>					
<u>Arianne Balsam</u>					
<u>Rebecca Little-Lay</u>					
<u>Alicia Clark</u>					
<u>Betty Cavallas</u>					
<u>Peter Lee</u>					
<u>Sarah Thornton</u>					
<u>Bill Floering</u>					
<u>Brian Page</u>					
<u>Peter van Hardenberg</u>					

Second leg of Mission:

Party Chief:

Name	Watch	Cabin	Name	Watch	Cabin

Data logging computer:

Dell PC

Data acquisition program:

Seasave

CTD deck unit make:

Seabird

model:

SBE38

serial number:

0293

Primary CTD

Make:

Seabird

model:

SBE25

serial number:

0293

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer:

SeaTech

Model:

s/n:

#139

Fluorometer: Model

Seapoint

Cable gain:

s/n:

2336

P, S or NO pump?

Oxygen sensor:

Seabird

Model:

SBE43

s/n:

0052

P, S or NO pump?

PAR sensor:

Model:

s/n:

Other sensors:

Touchdown Switch

s/n:

P, S or NO pump?

Other sensors:

s/n:

P, S or NO pump?

Other sensors:

s/n:

P, S or NO pump?

Other sensors:

s/n:

P, S or NO pump?

Secondary CTD

Make:

model:

serial number:

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer:

Model:

s/n:

Fluorometer: Model

Cable gain:

s/n:

P, S or NO pump?

Oxygen sensor:

Model:

s/n:

P, S or NO pump?

PAR sensor:

Model:

s/n:

Other sensors:

s/n:

P, S or NO pump?

Other sensors:

s/n:

P, S or NO pump?

Other sensors:

s/n:

P, S or NO pump?

Other sensors:

s/n:

P, S or NO pump?

CTD calibration bottle location (height above CTD in metres): _____

Rosette Setup:

Number of bottles:

Manufacturer: SEABIRD

(Ocean Test Equip., General Oceanics, IOS)

Volume of bottles (litres): 81

Winches:

1. Make: HAUBOLDT model: _____ serial #: _____ used for: _____
2. Make: _____ model: _____ serial #: _____ used for: _____
3. Make: _____ model: _____ serial #: _____ used for: _____
4. Make: _____ model: _____ serial #: _____ used for: _____
5. Make: _____ model: _____ serial #: _____ used for: _____
6. Make: _____ model: _____ serial #: _____ used for: _____
7. Make: _____ model: _____ serial #: _____ used for: _____
- nts: _____

Comments:

Salinometer: make: _____ model: _____ serial number: _____
Comments: _____

Comments:

Thermosalinograph System:

Program: _____ Version: _____

Sampling interval (seconds):

Fluorometer sensor serial number: _____

Comments: _____

ADCP Setup:

Computer time zone: _____ User Exits: Name: _____ Exit points: _____
Sampling interval (sec): _____

Sampling interval (sec): _____

Bin Length: (2^x): _____

Pulse Length: _____ Name: _____ Exit points: _____

Buffer (bytes): _____ WORK FILE: _____

Gyro Offset: _____

Comments: _____

Comments:

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Month JULY					Year 2004			Ship LAURIER				Cruise ID 2004-13			
Day	Station Name	Time (UTC)	Cast type	Firing Method	Event Number	Position		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch keeper	Trans. cleaned	Comments	
						Latitude N	Longitude W								
9	KD-1	23:45	CTD/B	US	001	57 31.9	152 01.3	68	63					Bongo (note: all bottles fired as test no samples taken)	
10	KD-2	00:46	CTD		002	57 30.312	151 56.756	102	97						
10	KD-3	01:30	CTD		003	57 28.450	151 50.895	75	69.5						
10	KD-4	02:21	CTD		004	57 25.840	151 42.634	68	63						
10	KD-5	03:16	CTD/B		005	57 23.189	151 33.357	73	73.69					Bongo	
10	KD-6	04:16	CTD		006	57 20.544	151 24.672	142	136					CHLOR-max ~ 20 m	
10	KD-7	05:08	CTD		007	57 17.794	151 16.054	148	143					lost touchdown weight during out-of-water	
10	KD-8	06:17	CTD		008	57 13.978	151 03.065	128	126					closed 2 bottles @ bottom (Sal) + BONGO (BOT#1)	
10	KD-9	07:20	CTD/B		009	57 09.625	150 50.328	887	600	SAL 102					
12	UN-8	05:18	ROS/B	US	010	53 38.377	163 48.085	1753	600	SAL 3	1-5			Bongo shot for DHS, 1 for SAL 1 TE cleaned SBE43 pins & Y cable CHANGED CONFIG ON SIGNAL ONLY IN DEPT	
12	UN-7	06:58	ROS	US	011	53 43.968	163 55.692	1343	600	SAL 4	6-10				
12	UN-6	08:06	ROS	US	012	53 48.382	164 03.765	93	85	SAL 5	1-4				
12	UN-5	09:13	ROS	US	013	53 52.988	164 11.867	82	73	SAL 6	1-3				
12	UN-4	10:07	ROS	US	014	53 57.501	164 19.791	110	101	SAL 6	1-4			Bongo ON STOP WINCH MOVES A BIT: REDUCED HOOK LOAD FROM 1500 TO 400 KG (SCAFFOLD) HAD TO REBOOT PC TO GET DATA	
12	UN-3	11:30	ROS	US	015	54 02.378	164 27.844	102	95	SAL 7					
12	UN-2	12:47	ROS	US	016	54 06.787	164 35.859	88	81	SAL 8					
12	UN-1	13:45	ROS/B	US	017	54 11.182	164 43.808	68	64	SAL 9				Bongo	

Cast type:

BOT = bottle cast, no CTD
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ROS = Rosette plus CTD

USW = sea water loop

MOR = mooring
NET = net haul
DRF = drifter

• bottle firing method:

• US = up / 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

22 March 2002

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						Latitude	Longitude							
13	BS-1	1625	ROS/B	US	018	56 18.781	172 49.425	1715	600	SAL-10	12	Am		OXY STILL BAD, 1 st Hg sample
13	BS-2	1803	ROS	US	019	56 24.990	172 47.766	1396	602	XXXXXX	12			(4 @ 5-33 for 5G, 1 for 10G) + 1 @ SFC (50)
13	BS-3	1918	ROS	US	020	56 28.335	172 46.985	834	600	SAL-11	12			LOST TOUCHDOWN WT (LINE BROKE)
13	BS-4	2028	ROS	US	021	56 32.723	172 45.348	242	235		3			CHL MAXED SFC SFC + DEEP WTR
13	BS-5	2126	ROS	US	022	56 38.691	172 43.893	132	128	SAL-12	12			
14	BS-6	1330	ROS/B	US	023	59 19.300	173 30.091	109	105	SAL-13	12			* mistured? bottle depths!!
15	BSP-SA	0148	ROS/B	US	024	59 54.056	171 42.407	72	65	SAL-14	12			HAD TO REDO CAST → ELECTRONICS FROZE!
15	SLIP1	1730	ROS/B	US	025	62 00.787	175 03.356	82	77	SAL-15	12			DOUBLE TRIP @ 15m?! NO SM
15	SLIP2	2031	ROS/B	US	026	62 03.030	175 12.428	83	77	SAL-16	12			REDUCED HOOK LOAD 400 → 250 KG BEFORE CAST
15	03SL-1A	2250	ROS	US	027	62 04.978	175 00.534	81	77	—	12			
16	04SL-1A	0251	ROS/B	US	028	62 11.418	174 51.412	78	74	SAL-17	12			
16	SLIP3	0844	ROS/B	US	029	62 23.615	174 34.189	74	70	SAL-18	12			
16	SLIP5	1322	ROS/B	US	030	62 33.793	173 33.364	69	65	SAL-19	12			HAD TO RESART SEASAVE DURING UPCAST FROM ~50m
16	SLIP4	1730	ROS/B	US	031	62 01.717	173 27.413	75	70	SAL-20	12			→ TRIPPED 3BT @ DOWNCAST FIVE

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						Latitude	Longitude								
17	BGS6	0038	ROS/B	US	032	63 50.959	172 23.984	58	54	SAL-21	2				
17	UTBS5	039	ROS/B	US	033	64 40.007	169 55.287	49	47	SAL-22	12			rebooted to start 2x!	
17	UTBS2	1108	ROS/B	US	034	64 46.986	169 05.984	47	44	SAL-23	11				
17	UTBS4	1530	ROS/B	US	035	64 57.531	169 52.953	50	47	SAL-24 & 25	12				
17	UTBS1	1844	ROS/B	US	036	64 59.531	169 08.084	50	47	SAL-26	11				
18	BRS5	0132	ROS/B	US	037	65 42.993	168 53.974	50	48	#1-#7	11			IOS: BOT 1,3,5,7,8,9,11 # 1-2,3,4,5,6,7	
18	BRS4	0500	ROS	US	038	65 41.991	168 43.047	52	49	#8-14	11				
18	BRS3	0549	ROS	US	039	65 41.017	168 34.208	54	50	#15-21	11				
18	BRS2	0642	ROS	US	040	65 40.140	168 24.116	54	50	#22-28	11			*DEEPER THAN PREVIOUS YR - POSITION?	
18	BRS1	0730	ROS	US	041	65 39.299	168 13.307	41	38	#29-35	9			DECK UNIT RELUCTANT TO SHOW DATA STREAM	

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ROS/B = " + bongo

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Laurier

PACKING LIST
BOX DETAILS

Leg I

Box #:

W 14

ITEM #	DESCRIPTION
55	Salinity bottles
72	glass & 72 plastic nutrient tubes
28	.0-18 glass + 28 plastic scint. vials
2	test-tube racks
BRS:	5 stns - 28 ³⁵ (0-18 & Ba) vials → 5 or 6 depths 7 nts: 72 glass + 72 plastic nts 7 depths Sal: 55 for total 50 stns → ?
	5 depths
	Jackie: Sample @
	1
	5
	10
	15
	20
	25
	30
	35 -
	40 = bott BRS1
	45 = bott BRS2
	bottom = 47 @ BRS3, 4, 5

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						Latitude	Longitude								
18	UTN-1	1325	ROS/B	US	042	66 42.58	168 23.953	35	32		9			SLOW TO SYNC AGAIN	
18	UTN-2	1700	ROS/B	US	043	67 03.017	168 43.966	47	45	SAL-27	11				
18	UTN-3	2008	ROS/B	US	044	67 20.011	168 59.802	52	48	SAL-28	12			CHANGED BOTTOM LANYARD ON BOT#5 (LENGTHENED)	
19	UTN-4	0705	ROS/B	US	045	67 30.119	168 54.659	52	49	SAL-29	12				
19	UTN-5	0925	ROS/B	US	046	67 40.182	168 57.497	52	49	SAL-30	12				
19	UTN-6	1201	ROS/B	US	047	67 44.177	168 26.382	51	48	SAL-31	12				
19	UTN-7	1510	ROS/B	US	048	67 59.918	168 55.957	60	57	SAL-32	12			DISPLAY FROZE → RESTART DATA ACQ FOR UPCAST (NO BOT#40, 2 BOT#35 ML)	
20	BD-6	0128	ROS/B	US	049	69 11.900	166 08.945	32	29	SAL-33	7				
20	CKS-1	1543	ROS/B	US	050	70 37.020	161 05.592	35	32	SAL-34	8				
20	BD-7	2200	ROS/B	US	051	71 09.531	158 24.081	49	46	SAL-35	10			Last cast → wash system remove CTD cage & DO probe	

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NOTE

~~CTD~~

INTERNAL CLOCK CHECK AFTER CAST 48 SHOWS TIME=15:52

THIS IS 11 MINUTES AHEAD OF GPS TIME SHOWN ON NAV SCREEN
(AND MY WATCH)