

DAILY LOG BOOK

MISSION
NUMBER

2007-02
- 28
- 03

DATE:

VESSEL:

PROJECT:

From: VICTORIA 2 JULY to: BARROW 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

Captain: N Thomas First Officer: _____
Second Officer: _____ Third Officer: _____

Mission Participants / Agencies:

Scientific Personnel:

Name	Watch	Cabin	Name	Watch	Cabin
			Party Chief: <u>Bill Williams / Jackie Grebner</u>		

Name	Watch	Cabin	Name	Watch	Cabin

Second leg of Mission:

Name	Watch	Cabin	Name	Watch	Cabin
Party Chief: _____					

Name	Watch	Cabin	Name	Watch	Cabin
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Data logging computer:

Data acquisition program: _____

CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer: _____ Model: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____

Oxygen sensor: _____ Model: _____ s/n: _____

PAR sensor: _____ Model: _____ s/n: _____

Other sensors:	s/n:
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Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number:

Primary conductivity serial number:

Secondary temperature serial number: _____

Secondary conductivity serial number:

Transmissometer: _____ Model: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____

Oxygen sensor: _____ Model: _____ s/n: _____

PAR sensor: _____ Model: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

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

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Month		SEPT		Year		2007		Ship					LAURIER					Cruise ID		2007-28	
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 N	Longitude W													
12	01CG	02:57	BE	ROS	US	01	68 04.45	114 19.345	204	194	1-6	6			SAMPLED BOT#: 1-4-7-10-11-12						
12	02CG	14:23	BE	ROS	—	02	68 37.643 13.779	114 13.779	29	26	—	0			CORONATION GULF						
12	03DU	14:55	BE	ROS	—	03	68 46.111	114 34.577	30	27	—	0			DELPHIN & UNION STRAIT (750M LOCAL)						
12	04DU	16:30	BE	ROS	US	04	68 46.668	114 28.818	62	59	7-9	3			*NO UPGRADE LIVE DATA BOTTLES CLOSED ON WIRE OUT - INTERNAL DATA FOR UPGRADE MESSY BUT DOWNCAST BAD DATA UPGRADE LOOKS OK						
12	05DU	18:20	BE	ROS	—	05	68 47.348	114 18.766	59	53	—	0	jm								
12	06DU	19:34	BE	ROS	US	06	68 48.103	114 05.582	68	64	10-15	6	jm		SBE-19						
12	07DU	21:27	BE	ROS	—	07	68 48.445	113 53.816	55	52	—	0	jm								
12	08DU	23:24	BE	ROS	US	08	68 48.641	113 46.682	50	47	16-19				Problem with water samples						
12	08DU	23:07	BE	ROS	US	09	68 48.591	113 46.768	50	44			jm								
13	09DU	01:20	BE	ROS	—	10	68 48.911	113 41.741	18	15	—	0	jm								

Cast type:
BOT = bottle cast, no CTD

USW = sea water loop
MOR = mooring

bottle firing method:
US = up/cast

Time Code

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
BO = bottom time of cast
EN = end time of cast

DE = deployment time
MR = messenger release time
RE = recover mooring time

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

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Month <i>Sept</i>			Year <i>2007</i>				Ship <i>LAURIER</i>				Cruise ID <i>2007-28</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 <i>N</i>	Longitude <i>W</i>							
13	10	02:40	BE	ROS	-	11	68 37.801	113 29.253	27		-	-			
															SBE25 WAS LEFT ON
13	11 CG	04:35	BE	ROS	-	12	68 27.335	113 14.659	27	24	-	-	<i>JS</i>		IN NW of COR. GULF LOCAL TIME 10:30 PM (ALSO SBE19 CAST)
13	12 CG	05:29	BE	ROS	-	13	68 24.940	113 10.093	115	107	-	-	<i>JS</i>		Chl max @ 54 m LOCAL 23:30
13	13 CG	06:25	BE	ROS	US	14	68 23.039	113 07.089	230	220 ^{= 3m above bot}	-	12	<i>JS</i>		
13	14 CG	08:55	BE	ROS	-	15	68 16.650	113 00.372	253	249	-	-	<i>JS</i>		
13	15 CG	12:06	BE	ROS	-	16	68 10.689	112 40.888	155	146	-	-	<i>JS</i>		SBE19
13	16 CG	14:05	BE	ROS	-	17	68 03.830	112 41.090	265	256	-	-	<i>JS</i>		
13	17 CG	17:46	BE	ROS	-	18	68 54.664	112 39.100	200		-	-			
13	18 CG	18:45	BE	ROS	-	19	67 51.050	112 38.952	278	264 ^{= 2.6m above bottom}	-	-	<i>JS</i>		
13	19 CG	20:11	BE	ROS	-	20	67 46.973	112 39.524	231	219 ^{4m above}	-	-	<i>JS</i>		(local 14:11)
13	20 CG	21:07	BE	ROS	-	21	67 44.432	112 39.565	205	20	-	-	<i>JS</i>		

Cast type:

BOT = bottle cast, no CTD
 CTD = CTD without Rosette
 ROS = Rosette plus CTD

USW = sea water loop

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 NET = net haul
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bottle firing method:

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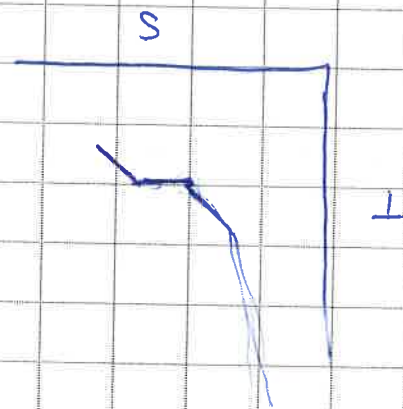
Time Code

BE = beginning time of cast
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 RE = recover mooring time

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

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DAILY LOG

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Month <u>SEPTEMBER</u>				Year <u>2007</u>				Ship <u>SWL (LAURIER)</u>				Cruise ID <u>2007-28</u>			
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
13	21 CG	22:23	BE	ROS	-	22	67 41.948	112 39.524	58	51 ^{2.5}	-	0	J		also SBE 19 on ROS
14															
14	22 PE	02:04	BE	ROS		23	64.44.079	111 56.487	37		-		ju		
14	23	04:17	BE	ROS	-	24	67 48.390	111 49.746	315	301 ^{3m above bottom}	-	0	A		(max=28.5)
14	24 CG	06:31	BE	ROS	US	25	67 54.189	111 19.601	406	388 ^{4m off}	059-050 051-062	12	J		
14	25 CG	14:07	BE	ROS	-	26	67 58 520	111 17.692	286	274	081-082				
14	26 CG	15:13	BE	ROS	US	27	68 05.103	111 16.422	307	293	051-062	12	ju		
14	27 CG	17:18	BE	ROS	-	28	68 11.334	111 18.559	144	137	-	-	an		
14	28 CG	18:45		ROS	US	29	68 15.252	111 14.843	161	150	63-71	9			comm. failure at 50m - Restart Turned Deck Unit OFF → ON
14	29 CG	22:47	BE	ROS	-	30	68 21.432	111 12.202	134	123	-	-	J		Tripped 5 bottles took rosette up to 40m tripped #6 etc.
15	30 CG	00:	BE	ROS	US	31	68 27.44	111 15.975	230	215	72-83	12	J		

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Month		Year		Ocean Sciences and Productivity Division		Ship		Cruise ID		INSTITUTE OF OCEAN SCIENCES					
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
15	31 CG	9:01	BE	ROS	-	32	68 16.513	110 28.792	355	~ 50	-	-	jm		Bud data below Thermo-cine
15	31 CG	9:12	BE	ROS	-	33	68 16.481	110 28.833	353	~ 48	-	-	jm	✓	Flushed CT cell SBE 19 ON Fluorometer + trans had to about 30m on Down C Inspected Flo + trans connector - OK
15	32 CG	11:18	BE	ROS	-	34	68 12.532	110 05.834	363	345	-	-	jm		
15	33 BI	13:46	BE	ROS	US	35	68 05.231	109 46.969	138		-	-	jm		All sensors had inspect + test cables
15	33 BI	15:27	BE	ROS	US	36	68 05.256	109 46.950	139	3m	-	4	BH		Pressure cable mat at A/D end - Dry and clean for also SBE 19 - water for Nelson
15	34 BI	18:10	BE	ROS	-	37	68 01.943	110 02.152	283	4m	-	-	J		deep trans shows layers
15	35 BI	21:25	BE	ROS	US	38	67 54.037	109 36.733	249	236	-	12	J		
16	36 BI	02:31	BE	ROS	-	39	67 44.998	108 50.332	235	225 3m	-	0	J		
16	37 BI	05:13	BE	ROS	US	40	67 41.296	108 13.462	358	341 +35	96-107	12	J		
16	38 BI	10:46	BE	ROS	-	41	67 20.742	107 54.249	101	101	-	-	jm		- Difficulty connecting slid switch 3 times

type:
OT = bottle cast, no CTD
TD = CTD without Rosette

USW = sea water loop
MOR = mooring
NET = net haul

bottle firing method:
US = up/stop
USW = down

Time Code
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DE = end time of cast

Cast type:

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- AOCF Layer shows dramatic shift during cast change in up and down O₂ + T max

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Month <u>SEPTEMBER</u>		Year <u>2007</u>		Ship <u>LAURIER</u>		Cruise ID <u>2007-28</u>									
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
14	39 BI	12:19	BE	ROS	-	42	67 19.203	107 51.036	142	135	108-		Jr		
15	40 BI														
15	40 BI	15:43	BE	ROS	US	43	66 57.131	107 47.250	63	57	108-113	6	Jr		0.5m/sec up/down changed CTD Batteries after cast
17	40 BI 42 BAC BIDIPY	01:07	BE	ROS	-	44	66 21.82	107 12.777	67	62 ^{2m}	-	0	Jr		→ Do 4m of 13-bottle 1.1L
17	42 BI	05:38	BE	ROS	US	45	66 32.42	107 27.694	92	85 ^{3m}	114-116	3	Jr		
17	41 BI	11:28	BE	ROS	US	46	66 48.34	107 53.47	197	186		4	Jr		4 Bottles for growth expt.
18	43 BI	01:15	BE	ROS	-	47	67 37.521	107 53.430	315	306 ^{2m}	-	0	Jr		removed SBE19 preparing for ISUS noise on fluorom. signal
18	44 BI	03:52	BE	ROS	US	48	67 50.902	108 17.300	188	177 ^{3m}	117-125	9	Jr		
18	45 BI	05:53	BE	ROS	-	49	67 59.323	108 35.462	235	222 ^{3m}	-	0	Jr		
18	46 BI	07:59	BE	ROS	-	50	68 13.288	108 55.451	143	133 ^{3m}	-	0	Jr		
18	47 DS	09:40	BE	ROS		51	68 24.271	108 47.605	73		-	-	Jr		

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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							
18	48DS	10:26	BE	ROS	US	52	68 28.173	108 50.045	107	95	126-132	7	Jn		
18	49DS	12:01	BE	ROS	-	53	68 33.756	108 50.888	132	119	-	-	Jn		
18	50DS	13:03	BE	ROS	-	54	68 37.281	108 51.373	140	133	-	-	Jn		
18	51DS	14:03	BE	ROS	US	55	68 40.342	108 53.124	124	113	133-139	7	Jn		
18	52DS	15:15	BE	ROS	US	56	68, 43.54	108 54.29	100		Growth				(50) (30) (10) (5)
18	53DS	23:58	BE	ROS	-	57	68 58.661	107 22.554	44	37 ^{3.5}	-	0	Jn		
19	54DS	01:23	BE	ROS	US	58	68 53.652	107 14.586	62	55 ^{4.3}	140-145	6	Jn		ISUS on SBE19
19	55DS	03:12	BE	ROS	-	59	68 48.251	107 05.623	52	44 ^{5m}	-	0	Jn		ISUS on SBE19 → data?
19	CAA13	06:52	BE	ROS	US	60	68 55.928	105 45.055	109	101 ^{4m}	146-152	7	Jn		ISUS on SBE19
19	56QH	08:20	BE	ROS	-	61	68 50.382	105 36.724	44	38 ^{4.3}	-	0	Jn		ISUS not powered up (ADCP? (not started))

Cast type:
ROS = bottle cast, CTD

USW = sea water loop
MOP

bottle firing method:

Time Code

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Ocean Sciences and Productivity Division															INSTITUTE OF OCEAN SCIENCES						
Month		September		Year			2007			Ship			LAURIER			Cruise ID			2007-28		
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Position		Latitude	Longitude	Bottom Depth	Max Depth	Sample Numbers	#of Bottles	Watch Keepers	Trans. Cleaned	Comments				
19	57 AM	09:01	BE	ROS	-	62	68	51.678	105	32.141	57	52 ⁺⁴	-	0	Bu						
19	58 AM	09:46	BE	ROS	US	63	68	52.729	105	24.843	66	54.4	153-159	6	Ju						
19	59 AM	11:26	BE	ROS	-	64	68	54.563	105	18.484	78	70	-	-	Ju		No comm with CTD Pulled plugs wiped pins Re established comm				
19	60 AM	12:00	BE	ROS		65	68	55.267	105	13.770	49	45	-	-			3 beer bottles				

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