DAILY SCIENCE LOG BOOK

MISSION NUMBER 2008-04

DATE: From: 27 September to: October

VESSEL: CCGS SIR WILFRID LAURIER

PROJECT(S): Canada's 3 Oceans

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
Sidney, BC, Canada

WaterProperties.ca

Captain: _____ First Officer: _____
Second Officer: _____ Third Officer: _____
Fishing Master: _____

Mission Participants / Agencies: _____

Scientific Personnel: Chief Scientist: B.W.H

Name	Watch	Cabin	Name	Watch	Cabin

Second leg of Mission: Chief Scientist: H.M.

Name	Watch	Cabin	Name	Watch	Cabin

Data logging computer: _____
Data acquisition program: _____
CTD deck unit make: _____ model: 11+ serial number: 11P 20434-0508
PYLON 0633 / 32

Primary CTD
Make: _____ model: _____ serial number: 0585
Primary temperature serial number: 032374
Primary conductivity serial number: 041764
Secondary temperature serial number: 032710
Secondary conductivity serial number: 042676
Transmissometer: _____ Model: _____ s/n: CST-1050 DR
Fluorometer: Model _____ Cable gain: _____ s/n: SCF 2841 **P, S or NO pump?**
Oxygen sensor: _____ Model: 43 s/n: 43/0052 **P, S or NO pump?**
S PAR sensor: _____ Model: QSR2200 s/n: 20281
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?**

Secondary CTD (25)
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?**
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Other sensors: _____ s/n: _____ **P, S or NO pump?**

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

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Month SEP / OCT **Year** 2008 **Ship** Sir Wilfrid Laurier **Cruise ID** 2008-04

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
30	Libbon Isl	2131	BE	ROS	US	1	68° 51.600	114° 23.295	111 m	106	None Kept	12	RF	×	Test
30	Liston Is	2058				2	68° 51.591'	114° 23.251'	113	100			KY/BM		Bongo from 100 m.
2	BF08	0435	BE	ROS	UN	3	70° 32.694'	122° 54.440'	655	641	1-20	20	RF	✓	Geochem rosette
2	BF08	0510				4	70° 32.61'	122° 53.72'		200			KY/BM		Bongo
2	BF08					5	70° 32.61'	122° 53.72'		200			KY/BM		Bongo
2	BF08	0555				6	70° 32.61'	122° 53.72'		100			KY/BM		Bongo
2	BF08	0645	BE	ROS	US	7	70° 32.720'	122° 53.688'	648	77	21-32	12	RF	×	Biology rosette
3	BF07a	0516	BE	ROS	US	8	71° 34.900	133° 44.490	1240	27	56-57	2	RF	✓	Bio Ros
3	BF07a	0530	BE	NET		9	71° 34.756	133° 44.591	1235	100			KY/BM		Bongo
3	BF07a	0555	BE	ROS	UN	10	71° 34.820	133° 45.337	1241	1010	33-55	23	RF	×	Geochem Ros

Cast Type:
BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set
USW = Sea Water Loop
MOR = Mooring
NET = Plankton 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

Notes: _____

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

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100
60
30
15
10
5

Lower limit of detection ≈ 0.6

Forgot Pumps on first cast so re-surfaced + re-dropped. Stopped for 1 minute @ each bottle depth

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Month OCT **Year** 2008 **Ship** Sir Wilfred Laurier **Cruise ID** 2008-04

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
3	BF07	0942	BE	ROS	UN	11	71° 19.987'	133° 45.188'	1004	977	58-80	23	RF	✓	GeoChem Ros
															Nets Before Rosette
3	BF07	0857	BE	NET		12	71° 19.987'	133° 45.188'	1004				KY/BM		Bongo Net
3	BF07c	1301	BE	ROS	UN	13	71° 01.818'	133° 45.159	208	202	81-91	11	RF	✓	GeoChem
3	BF07c	1325	BE	ROS	UN	14	71°01.818	133° 45.159	208	76	92-103	12	RF	x	Bio
3	BF07c	1400	BE	NET		15	71° 01.818	133° 45.159	208	100			KY/BM		Bongo - tax/gen
3	BF07c	1420	BE	NET		16	71° 01.818	133° 45.159	208	200			KY/BM		Bongo - FA/ST NO 2nd cast
3	DYH08-2	1708	BE	CTD		17	70° 59.163	133° 45.531	106	101			RF		Mooring CTD
3						18									Bongo
3	BF07d	1922	BE	ROS		19	70° 40.220	133° 46.358	68	64	104-109	6	RF	x	GeoChem
4	BF07f	1302	BE	ROS	UN	20	70° 02.985'	133° 45.171	25	26	110-112	3	RF	✓	GeoChem

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Event #12 actually occurred <u>before</u> event #11

Geo + Bio chem together in one "Double" cast
(Down, up, Down, up, out)

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month OCT **Year** 2008 **Ship** Sir Wilfrid Laurier **Cruise ID** 2008-04

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
4	BF7c		BE	ROS	UN	21	70° 19.739	133° 44.236	51	49	113-117	5	RF	✓	Geochem
															? One Cast
4	BF7c	1633	BE	ROS	UN	22	70° 19.739	133° 44.236	51	49	118-119	2	RF	✓	Bio
4	BF7c		BE	NET		23	70° 19.739	133° 44.236	51						Bongo
4	BF7c		BE	NET		24	70° 19.739	133° 44.236	51						Bongo
4	BF7c		BE	NET		25	70° 19.739	133° 44.236	51						Bongo
5	DNHOB-11	2058	BE	ROS		26	69° 46.490	137° 03.040	30			0	RF	×	Mooring
6	BF6	0035	BE	ROS	UN	27	70° 19.166	137° 50.271	260	251	120-132	13	RF	✓	Geochem
6	BF5	0503	BE	CTD	UN	28	70° 13.984	140° 00.635	239	230	133-144	12	RF	✓	Geochem
6	BF06	0050	BE	NET		29	70° 19.166	137° 50.271		100			KYBM		Bongo
6	BF05	0528	BE	NET		30	70° 13.984	140° 00.635		200			KYBM		Bongo

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Notes: _____

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Casts 21 + 22 on one file (2008-04-0021) Because Bio Bottles could be done alongside with Geochem

Sample #1115 does not exist

Event #29 actually occurred directly after 27 (Not recorded before labels for 28 were printed)

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Month OCT **Year** 2008 **Ship** Sir Wilfrid Laurier **Cruise ID** 2008-04

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
06	BF05		BE	NET		31	70° 13.984	140° 00.635		200			KY/BM		Bongo
06	BF05		BE	NET		32	70° 13.984	140° 00.635		100			KY/BM		Bongo
06	BF05	0610	BE	ROS	US	33	70° 13.984	140° 00.635	229	175	146-157	12	RF	✓	Bio
06	BF04	1209	BE	ROS	UN	34	70° 38.096	142° 16.039	1009	1000	158-180	23	RF	✓	Bio
06	BF04	1301	BE	NET		35	70° 38.099	142° 15.970					KY/BM		Bongo
07	V	0039	BE	CTD	—	36	70° 37.905	146° 07.691	49	42	—	—	RF	✓	CTD-Mooring
07	BF3a	0828	BE	ROS	UN	37	71° 21.431	145° 45.102	2500	1000	181-203	23	RF	✓	GeoChem
07	BF3a	0930	BE	ROS	US	38	71° 21.431	145° 45.102	2500	21	204-205	2	RF	✓	Bio
07	BF03	1205	BE	ROS	UN	39	71° 01.553	145° 44.780	1018	1000	206-227	22	RF	✓	GeoChem
07	BF03		BE	NET		40	71° 01.528	145° 44.779		100			BM/KY		Bongo

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Notes: _____

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Sample # 145 does not exist

Sounding is unstable but over 1000m

supposed to be 750m deep?

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Month OCT **Year** 2008 **Ship** SIR WILFRID LAURIER **Cruise ID** 2008-04

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
07	BF03		BE	NET		41				200			Ky/Bm		bongo
07	BF03		BE	NET		42				200			Ky/Bm		bongo - JN·5
07	BF03	1447	BE	ROS	US	43	71° 01.495	145° 44.849	1048	73	228-239	12	RF	✓	Bio
07	BF03c	1706	BE	ROS	UN	44	70° 41.505	145° 44.720	52	50	240-244	5	RF	✓	Geochem
08	BF03d	1410	BE	ROS	UN	45	70° 21.503	145° 44.878	28	28	245-247	3	RF	✓	Geochem
08	BF03d	1427		NET		46				25			Ky/Bm		Bongo 25 m
08	Site A	1800	BE	CTD	—	47	70° 21.907	145° 59.543	26	28	—	—	RF	✓	Mooring
09	Site K	0214	BE	CTD	—	48	70° 17.369	145° 18.857	27	28	—	—	RF	✓	Mooring
09	BF02	0929	BE	ROS	UN	49	71° 12.392	148° 17.430	980	943	248-270	23	RF	✓	Geochem
09	BF02	1011	BE	NET		50	71° 12.385	148° 17.480		200			Ky/Bm		Bongo

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Notes: _____

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Took two Bio bottles (Bot 4 & 5) just in case

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Month OCT **Year** 2008 **Ship** SIR WILFRID LAURIER **Cruise ID** 2008-04

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
09	BF02	1030		NET		51	71° 12.385	148° 17.480		200			KY/BM		Bongo
09	BF02	1050		NET		52	71° 12.385	148 17.480		100			KY/BM		Bongo - JN's
09	BF01	1622	BE	ROS	UN	53	71° 19.499	152°. 12.927	63	56	273-277	5	RF	✓	GeoChem
09	BF01	1643	BE	ROS	US	54	71° 19.499	152° 12.927	63	51	278-289	12	RF	✓	Bio
09	BF01			NET		55	71° 19.499	152° 12.927		50			KY/BM		Bongo
09	BF01			NET		56	71° 19.499	152° 12.927		50			KY/BM		Bongo
09	BF01			NET		57	71° 19.499	152° 12.927		50			KY/BM		Bongo - JN's
09	BC04	2219	BE	ROS	UN	58	71° 55.959	154° 53.479	600	584	290-306	17	RF	✓	GeoChem
09	BC04	2252		NET		59	71° 55.957	154 53.466		200			KY/BM		Bongo - discarded due to Jellyfish mess
09	BC04			NET		60	71° 55.957	154 53.466		200			KY/BM		Bongo

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

Notes: _____

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Duplicate Salinity not filled

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Month OCT **Year** 2008 **Ship** SIR WILFRID LAURIER **Cruise ID** 2008-04

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
09	BC04			NET		61	71° 55.957	154° 53.166		200			KY/BM		Bongo
09	BC-04			NET		62	"	"		100			KY/BM		Bongo - JN
10	BF00	0458	BE	ROS	UN	63	72° 47.698	157° 45.330	1178		307-330	24	RF	✓	Geotham
10	BF00			NET		64				200			KY/BM		Bongo
10	BF00			NET		65				200			KY/BM		Bongo
10	BF00			NET		66				100			KY/BM		Bongo - JN
10	AIM06	2240	BE	CTD	—	67	74° 38.818	168° 48.860	183	173	—	—	RF	✓	Mooring
11	(C01 AIM	0146	BE	ROS	UN	68	75° 05.938	168° 59.990	222	214	331-340	10	RF	✓	Geotham
11	(C01AIM	0214	BE	ROS	US	69	75° 05.918	169° 0.018	222	70	341-352	12	RF	✓	Bio
11	(C01AIM			NET		70	"	"		100			KY/BM		Bongo

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Notes: _____

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

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Month Oct **Year** 2008 **Ship** SIR WILFRID LAURIER **Cruise ID** 2008-021

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
11	CS01ATM			NET		71	75° 05.918	169° 8.018		100			KY/TM		Bongo
11	CS01ATM			NET		72	"	"		200			KY/TM		Bongo
11	CS02	0856	BE	ROS	UN	73	74° 40.826	167° 46.175	313	297	353-364	12	RF	✓	Geochem
11	CS03	1140	BE	ROS	UN	74	74° 15.299	167° 31.568	274	265	365-375	11	RF	×	Geochem
11	CS04	14:43	BE	ROS	UN	~~75~~ 9075	73° 49.585	166° 49.305	160		~~376-385~~		HM		Geochem Pump ON
11	CS04			NET		76				100					Bongo's
11	CS04			NET		77				100					lost 1 cod end.
11	CS04			~~NET~~		~~78~~									
11	CS04	1527	BE	ROS	UN	75	73° 49.576	166° 49.392	160		376-385	10	HM		Geochem Pump ON
11	CS05	1820	BE	ROS	UN	78	73° 24.578	166° 07.668	80	72	387-394	6 8	HM		Geochem Pump ON

Cast Type:
BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set
USW = Sea Water Loop
MOR = Mooring
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DRF = Drifter
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Bottle Firing Method:
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"At surface" means rosette does not break surface with roll. ± ½m Pressure reads about 4 dbar.
Bottles failed to close on first drop. Data file renamed 2008-04-9075.

Pressure on-deck 1db; In water "at surface" 4db. Depth here 80m not 120m

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Month OCTOBER **Year** 2008 **Ship** SIR WILFRID LAURIER **Cruise ID** 2008-04

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
11	CS06	21.15	BE	ROS	UN	79	72° 58.479	165° 30.839	65		393-398	6	HM		Geochem. Pump ON
11	CS-06			NET		80				45					Bongos - counter not working
11	CS-06			NET		81				50					Bongos
11	CS-06			NET		82				50					Bongos - counter not working
12	CS07	0034	BE	ROS	UN	83	72° 32.969	164° 54.911	48	47	399-403	5	RF	✓	Geochem
12	CS08	0346	BE	ROS	UN	84	72° 7.085	164° 22.111	35	35	404-409	6	RF	✓	Geochem
12	CS08	0400	BE	ROS	US	85	72° 7.085'	164° 22.111	35	34	410-421	12	RF	✓	Bio
12	CS08	0426	BE	NET		86	72° 7.078	164° 21.882					KM/BM		Bongo
12	CS08			NET		87	72° 7.078	164° 21.882					KM/BM		Bongo
12	CS08			NET		88	72 7.078	164° 21.882					KM/BM		Bongo

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Ia in cell at start. Down to 20 m to flush. Back up

Sample # 1109 Does not exist

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12	LS 09	0725	BE	ROS	UN	89	71° 40.974	163° 49.120	37	36	420-423	4	RF	✓	Geochem
12	CS 10	14:05	BE	ROS	UN	90	71° 14.405	163° 16.801	41+6		425-429	5	HM	✓	Geochem. Pump ON
12	CS11	17:30	BE	ROS	UN	91	70° 48.769	162° 48.131	40+6		430-433	4	HM		Geochem. Pump ON
	CS 11			NET		92				30					Bongo - counter not working
	CS 11			NET		93				33					Bongo
	CS 11			NET		94				35					JN - Bongo
13	CrackerJackA	0228	BE	CTD	—	95	71° 10.1285	166° 45.574	41	39	—	—	RF	✓	Mooring
13	CCL-4	0920	BE	ROS	UN	96	69° 59.927	168° 2.132	43	43	434-438	5	RF	✓	GeoChem
13	CCL 4	0939	BE	ROS	DN/US	97	69° 59.927	168° 2.132	43	43	439-452	14	RF	✓	Chla Max + DIC
13	CCL4			NET		98	69° 59.927	168° 2.132					KY/BM		Bongo

Cast Type:
BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set
USW = Sea Water Loop
MOR = Mooring
NET = Plankton 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

Notes: _____

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

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month	Year	Ship	Cruise ID

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
13	CL2 4			NET		99	69° 59.927	168° 2.132					KY/BM		Bongo
13	CL2 4			NET		100	67 59.927	168° 2.132					KY/BM		Bongo
14	UTN 4	0032	BE	ROS	UN	101	67° 30.39	168° 54.174	45	43	453-458	6	RE	✓	Lockton
14	UTN 4			NET		102	67° 30.303	168° 54.182					KY/BM		Bongo
14	UTN 4			NET		103	67° 30.303	168° 54.182					KY/BM		Bongo
14	UTN 4			NET		104	67° 30.303	168° 54.182					KY/BM		Bongo

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