

**** The following 3 pages are VERY IMPORTANT as they document equipment and settings used on board ****

These pages are to be completed by the CTD Technician setting up the equipment, the Watch Leader on board, and the Chief Scientist MUST verify that all relevant sections are completed prior to leaving the vessel. *Any mid-cruise changes to be noted by watch leader in the notes.*

Data logging computer:

IDS!
Dell Optiplex 755 WtBC10S101655

Data acquisition program:

Seabird Seavare 7.22.5

CTD deck unit make:

SBE model: 11+ serial number: 0800

Primary CTD

Make: SB model: 9+ serial number: 941

Primary temperature serial number: 5048

Primary conductivity serial number: 3579

Secondary temperature serial number: 5073

Secondary conductivity serial number: 3581

Transmissometer: Wet Labs Model: _____ s/n: CST-1050-10 R

Fluorometer: _____ Model: _____ s/n: _____

Fluorometer: Model Seapoint Cable gain: 3X s/n: SCF 2745 P S or NO pump?

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P S or NO pump?

Oxygen sensor: SBE 43 Model: _____ s/n: 1117 P S or NO pump?

PAR sensor: Biospherical Model: QS s/n: 70123 Surface PAR? Y / N

Other sensors: Altimeter s/n: 40853 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: SBE model: 25 serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model _____ Cable gain: _____ s/n: _____ P S or NO pump?

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: _____ Surface PAR? Y / 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): _____

This also includes the bottle location above the CTD on non-rosette casts (e.g., W.E. Ricker)

*plan to have but
as of today its
cable is still under
repair.*

Rosette Setup:

Number of bottles: 24
Manufacturer: _____
Volume of bottles (litres): 10

Winches:

1. Make: _____	Model: _____	Serial #: _____	Used for: _____
2. Make: _____	Model: _____	Serial #: _____	Used for: _____
3. Make: _____	Model: _____	Serial #: _____	Used for: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Salinometer:

Make: _____ Model: _____ Serial Number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Oxygen Kit(s):

Make: _____ Model: _____ Kit Number: _____
Make: _____ Model: _____ Kit Number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Thermosalinograph System (SBE21):

Program: SBE40 3274 Version: _____
Sampling interval (seconds): 5
Fluorometer sensor serial number: 3275

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

ADCP Setup:

Computer time zone: _____	User Exits: _____	Name: _____	Exit points: _____
Sampling interval (sec): _____		Name: _____	Exit points: _____
Bin Length: (2 ^{xx}): _____		Name: _____	Exit points: _____
Pulse Length: _____		Work File: _____	
Buffer (bytes): _____			
Gyro Offset: _____			

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

CTD Test Cast Information

Test Cast along side? Yes ☐ No ☐

Comments _____

Test Cast in Saanich Inlet or other location? Yes ☐ No ☐

Comments _____

CTD pressure reading on deck (db), before cast: _____ after cast: _____

Pumps working? Yes ☐ (0011) No ☐ (0010)

Secondary Temp – Primary Temp: _____
(Average from the mixed region)

Secondary Salinity – Primary Salinity: _____
(Average from the mixed region)

Additional Comments:

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Month <u>July</u>				Year <u>2013</u>		Vessel <u>SV/L</u>				Cruise ID <u>2013-05</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
1		5	21:00		UCTD		49° 26.49	128° 9.27	7200	400m	-		SV	☐ ☐	July 5 - 1. asc
2		5	21:00		XCTD		49° 26.49	128° 9.27		1019	-		SV	☐ ☐	July 5 - edf
3		6	03:00		UCTD		49° 50.83	124° 31.83		400	-		SV	☐ ☐	July 6 - 1. asc
4			09:00		UCTD		50° 16.83	131° 04.48		400	-		SV	☐ ☐	July 6 - 2. asc
5		6	15:00		UCTD		50° 45.69	132° 45.86		400	-		SV	☐ ☐	July 6 - 3. asc
6		6	15:55		ARGO		50° 49.822	132° 59.763			-		SV	☐ ☐	Lat - A1
7		6	21:00		UCTD		51° 12.39	134° 21.43		400	-		SV	☐ ☐	July 6 - 4. asc
8		6	21:20		XCTD		51° 12.39	134° 21.43		1100	-		SV	☐ ☐	July 6 - edf
9		7	03:00		UCTD		51° 35.005	134° 04.925		400	-		SV	☐ ☐	July 7 - 1. asc
10		7	03:15		ARGO		51° 35.005	134° 04.925			-			☐ ☐	Lat - A2
11		7	09:00		UCTD		51° 31.84	137° 21.22		400	-		SV	☐ ☐	July 7 - 2. asc
12		7	15:00		UCTD		51° 10.29	139° 22.09		400	-		SV	☐ ☐	July 7 - 3. asc
13		7	21:00		UCTD		52° 11.96	140° 59.86		400	-		SV	☐ ☐	July 7 - 4. asc
14		7	21:00		XCTD		52° 21.96	140° 59.86		1100	-		SV	☐ ☐	July 7 - edf
15		8	00:30		ARGO		52° 38.730	142° 01.064			-		SV	☐ ☐	Lat - A3
16		8	03:00		UCTD		52° 46.04	142° 41.70		400	-		SV	☐ ☐	July 8 - 1. asc
17		8	09:00		UCTD		53° 03.85	144° 25.81		400	-		SV	☐ ☐	July 8 - 2. asc
18		8	09:15		ARGO		53° 04.61	144° 30.12			-		SV	☐ ☐	Lat - A4
19		8	15:00		UCTD		53° 16.76	146° 15.44		400	-		SV	☐ ☐	July 8 - 3. asc

Event Type:

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 SET = Fish Set

LOOP = Sea Water Loop

MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter

Bottle Firing Method:

US = Up / Stop (default)
 UN = Up / No stop
 DN = Down / No stop

Notes:

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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Rough Seas +30 knot winds

UCTD - Underway CTD system deployed at 1600 hrs. Max depth 2400m

XCTD - Repetitive CTD deployed every 24 hours across the NE Pacific
to extend the depth coverage

ARGO - Argo floats deployed for Howard Freeland along the
great circle route. Measured NOVA floats

Rough Seas

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Month 24				Year 2013		Vessel SWL				Cruise ID 2013-05					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
20		7	14:55		ARGO		53° 22.293	146° 57.790			-		SV	☐	Lev-A5
21		8	21:00		UCTD		53° 25.56	147° 59.71	7200	400	-		SV	☐	July 8-4.ase
22		8	21:01		UCTD		53° 25.56	147° 59.71		1100	-		SV	☐	July 8. edf
23		9	01:15		ARGO		53° 33.741	149° 32.314			-		SV	☐	Lev-A6
24		9	01:00		UCTD		53° 34.76	149° 41.48		400	-		SV	☐	July 9. 1.ase
25		9	08:30		UCTD		53° 45.3	151° 39.69		400	-		SV	☐	July 9-2.ase
26		9	14:50		ARGO		53° 52.337	153° 29.76			-		SV	☐	Lev-A7
27		9	16:00		UCTD		53° 55.54	153° 48.8		400	-		SV	☐	July 9-3.ase
28		9	22:00		UCTD		54° 02.29	155° 34.98		400	-		SV	☐	July 9-4.ase
29		9	22:00		UCTD		54° 02.29	155° 34.98		1400	-		SV	☐	July 9. edf
30		9	22:00		ARGO		54° 02.29	155° 34.98			-		SV	☐	Lev-A8
31		10	04:01		UCTD		54° 02.46	157° 27.54		800	-		SV	☐	July 10-1.ase
32		10	10:00		UCTD		54° 04.65	159° 07.99		400	-		SV	☐	July 10-2.ase
33		10	16:00		UCTD		54° 05.2	160° 58.55		400	-		SV	☐	July 10-3.ase
34		12	14:15		BOTTLES		54° 6.174	161° 12.625			-			☐	PSS-26-45
35		12	16:05		BOTTLES		54° 18.051	163° 02.625			-			☐	PSS-26-45
			:				°	°			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	

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At midnight on July 9 the clocks on board were set
back 1 hour.

Finally good weather. Beautiful sunny and calm. High at 1000.

BOTTLES - Drift bottles prepared by schools in
Siberia. PSS - Portland Secondary School.

Finally UCTO under. We're close to below 4000 since we
are getting close to Unimak Pass.

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Month <u>July</u>				Year <u>2013</u>		Vessel <u>SWL</u>		Cruise ID <u>2013-05</u>							
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							Latitude	Longitude							
36	SLIP-1	14	04:05	BE	ROS	US	62° 0.600	175° 3.570	80	75.5	1-10	10		☒	6000 sea
37	SLIP-1	14	:		NETS		° .	° .			-			☐	
38	SLIP-1	14	:		MUDXS		° .	° .			-			☐	
39	SLIP-2	14	06:04	BE	ROS	US	62° 3.010	175° 12.593	81		11-17	7		☒	12500
			06:09	BO	ROS		62° 3.030	175° 12.610		76	-			☐	
			06:20	EN			62° 3.016	175° 12.6			-			☐	
40			:		NETS		° .	° .			-			☐	
41			:		MUDXS		° .	° .			-			☐	
42		14	06:56		Bottom		62° 3.043	175° 12.584			-		SV	☐	SE 1-24
43		14	07:22		SVP DRIFTER		62° 3.012	175° 12.514			-			☐	#109428
44	SLIP-2B	14	08:40	BE	CTD		62° 13.2	174° 52.59	78		-			☒	6300 sea
	SLIP-2B	14	08:46	BO	CTD		62° 13.193	174° 52.610		73	-			☐	
	SLIP-2B	14	08:49	EN	CTD		62° 13.2	174° 52.620			-			☐	
45	SLIP-3	14	10:17	BE	ROS	US	62° 23.440	174° 34.234	75		18-23	6		☒	sea 16800
			10:21	BO			62° 23.440	174° 34.240		68	-			☐	
			10:31	EN			62° 23.440	174° 34.230			-			☐	
46			:		NET		° .	° .	71		-			☐	
47			:		MUDXS		° .	° .			-			☐	
48	SLIP-3B	14	12:58	BE	CTD		62° 23.020	174° 4.98	71		-			☒	8030 sea

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Notes:

This page is for any notes or observations

Rough Seas 25-30 knot winds

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Month 7/7				Year 2013				Vessel 506				Cruise ID 2013-05																			
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments																
							Latitude	Longitude																							
48	SLIP-33	14	12:02	Bo	CTD		62° 28.087	174° 4.994	71	65	-			☒ ☐																	
	SLIP-38		13:05	BN	CTD		62° 28.087	174° 4.994			-			☐ ☐																	
49		14	13:10		SUP BRIDGE		62° 28.427	174° 02.709			-			☐ ☐	# 10 9424																
50	SLIP-5	14	14:38	BE	ROS	US	62° 33.607	173° 32.990	63	63	24-29	6		☒ ☐																	
			14:43	Bo			62° 33.607	173° 32.990			-			☐ ☐																	
			14:51	BN			62° 33.6	173° 33.0			-			☐ ☐																	
51			:		NET		° .	° .			-			☐ ☐																	
52			:		MUDXS		° .	° .			-			☐ ☐																	
53	SLIP-5B	14	17:05	BE	CTD		62° 47.274	173° 30.031	71	64	-			☒ ☐	Sens 10700																
			17:09	Bo			62° 47.281	173° 30.010			-			☐ ☐																	
			17:11	BN			62° 47.287	173° 29.998			-			☐ ☐	10700 0.2																
54	SLIP-4	14	18:42	Bo	ROS		63° 1.824	173° 27.580	71	66	30-48	19		☒ ☐																	
			18:49	Bo			° .	° .			-			☐ ☐																	
			19:00	BN			63° 1.828	173° 27.592			-			☐ ☐																	
55			:		NET		° .	° .			-			☐ ☐																	
56			:		MUDXS		° .	° .			-			☐ ☐																	
57	SLIP-4B	14	21:27	BE	CTD		63° 16.799	173° 4.824	66	64.4	-			☒ ☐	P2 0.2 Sens 10500																
			21:32	Bo			63° 16.814	173° 4.806			-			☐ ☐																	
			21:34	BN			63° 16.819	173° 4.825			-			☐ ☐	P2 0.2																

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Month July				Year 2013				Vessel SWL				Cruise ID 2013-05														
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments											
							Latitude	Longitude																		
58	SLIP-4C	14	20:50	BE	CTD		63° 36.271	172° 05.396	35	51	-	0		☒	pr 0.3 Scan 9670											
			20:55	BO			°	°			-			☐												
			20:57	EN			63° 36.270	172° 05.426			-			☐												
59	BCL-6A	15	02:09	BE	ROS	US	63° 35.207	172° 5.921	54	48	49-53	5		☐	pr 0.3											
			02:13	BO			63° 35.211	172° 5.820			-			☒												
			02:19	EN			63° 35.242	172° 5.891			-			☐												
60	Net													☐												
61	BCL-6B	15	04:57	BE	CTD		64° 17.442	171° 29.796	48	44	-			☐	pr 0.3											
			05:02	BO			64° 17.504	171° 29.797			-			☒	pr 0.3 Scan 10600											
			05:05	EN			°	°			-			☐												
62	BCL-6C	15	07:56	BE	CTD		64° 40.202	170° 38.717	49	46	-			☐												
			08:00	BO			64° 40.246	170° 38.719			-			☒	pr 0.3 Scan 111900											
			08:02	EN			64° 40.249	170° 38.744			-			☐												
63	UTBS-5	15	09:57	BE	ROS		64° 40.258	169° 55.253	49	44	54-58	5		☐												
			10:03	BO			64°	°			-			☒	pr 0.3 Scan 19700											
			10:08	EN			°	°			-			☐												
64			:		NET		°	°			-			☐												
65			:		MUD #5		°	°			-			☐												
66	UTBS-4	15	12:38	BE	ROS		64° 57.756	169° 53.311	50	45	59-63	5		☐												
			12:43	BO			°	°			-			☒	Scan 16000											

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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use

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Notes:

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RUS = CTD in Rosette
SET = Fish Set

This page is for any notes or observations

It is cold and foggy
Definitely is Anadys coral

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Month <u>July</u>			Year <u>2013</u>			Vessel <u>Swan</u>			Cruise ID <u>2013-05</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
66	UTBS-4	15	12:50	BE	ROS		64° 57.762	169° 53.305			-			☐	pr 0.3
67			:		NET		° .	° .			-			☐	
68			:		MUDXS		° .	° .			-			☐	
69	UTBS-1	15	15:24	BE	ROS	US	64° 59.510	169° 8.352	49	45	64-79	16	(34)	☒	
			15:31	BO			° .	° .			-			☐	
			15:41	EN			64° 59.556	169° 8.375			-			☐	pr 0.3
70			:		NET		° .	° .			-			☐	
71			:		MUDXS		° .	° .			-			☐	
72	UTBS-2	15	18:18	BE	ROS	US	64° 40.978	169° 6.277	46	41	80-84	5	130	☒	pr 0.3
			18:22	BO			64° 40.991	169° 6.274			-			☐	
			18:29	EN			64° 40.990	169° 6.270			-			☐	pr 0.4
73			:		NETS		° .	° .			-			☐	
74			:		MUDXS		° .	° .			-			☐	
75	UTBS-2B	15	20:00	BE	CTD		64° 40.642	169° 33.035	46	42	-			☒	pr 0.3 Scout # 8500
			20:04	BO			° .	° .			-			☐	
			20:06	EN			64° 40.629	169° 33.056			-			☐	pr 0.3
76		16	02:25				65° 0.574	169° 27.211	51		-			☐	Axys Wave buoy Deployment
77	BRS-5	16	15:20	BE	ROS		65° 43.013	168° 53.580	49	44	94-98	5	(33)	☒	pr 0.3 Scout # 8900
			15:25	BO			65° 43.030	168° 53.575			-			☐	

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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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 MR = Messenger Release Time
 RE = Recover Mooring Time

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They swapped DRS-5 and DRS-7 on the left wheel

Left Port Clarence 1900 ADT 18/7

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Month <u>July</u>				Year <u>2013</u>		Vessel <u>SWL</u>				Cruise ID <u>2013-05</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
77	BRS-5	16	15:32	EN	ROS	US	° .	° .			-			☐ ☐	
78	BRS-3	16	16:04	BE	ROS	US	65° 42.200	168° 46.771	53	48	85-93	9	(34)	☒ ☐	P=0.3 Scn # 8400
		16	16:09	BO			65° 42.218	168° 46.728			-			☐ ☐	
	BRS-3	16	16:16	EN			65° 42.320	168° 46.716			-			☐ ☐	
79			:		NET		° .	° .			-			☐ ☐	
80	UTN-1	19	12:03	BE	ROS	US	66° 42.653	168° 23.921	34	31	99-107	4	(20)	☒ ☐	P=0.4 Scn # 8000
			12:07	BO			° .	° .			-			☐ ☐	
			12:13	EN			66° 42.661	168° 23.920			-			☐ ☐	
81			:		NET		° .	° .			-			☐ ☐	
82			:		MOORS		° .	° .			-			☐ ☐	
83	UTN-2	19	14:53	BE	ROS	US	67° 3.022	168° 43.717	46	42	103-107	5	(34)	☒ ☐	Ht 5.2m
			15:03	EN			67° 3.038	168° 43.768			-			☐ ☐	
84			:		NET		° .	° .			-			☐ ☐	
85			:		MOORS		° .	° .			-			☐ ☐	
86		19	15:40		BOTTLES		67° 3.138	168° 43.693			-			☐ ☐	PSS 1-20
87	UTN-3	19	17:21	BE	ROS	US	67° 19.667	168° 56.534	51	45.5	108-112	5		☒ ☐	Scn 11300
			17:26	BO			° .	° .			-			☐ ☐	
			17:32	EN			67° .	° .			-			☐ ☐	
88			:		NET		° .	° .			-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
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SET = Fish Set

LOOP = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

US = Up / Stop (default)
UN = Up / No stop
DN = Down / No stop

Time Code:

BE = Beginning Time of Cast
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DE = Deployment Time
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Notes:

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Month <u>July</u>			Year <u>2013</u>			Vessel <u>SWL</u>			Cruise ID <u>2013-05</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
89	UTN-3	19	17:32		MUO#5		°	°			-			☐	
90			:				67° 19.667	168° 56.534			-			☐	Tested transducer releases
91	UTN-4	19	19:06	BE	ROS	US	67° 29.995	168° 56.596	51	46	113 - 128	16		☒	
	"	"	19:12	BO			°	°			-			☐	
	"	"	19:21	EN			67° 30.076	168° 56.422			-			☐	
92	"	"	:		NET		°	°			-			☐	
93	"	"	:		MUO#5		°	°			-			☐	
94	SEC-1	19	20:55	BE	ROS	US	67° 40.219	168° 56.585	51	46	129 - 133	5		☒	See 12400
			20:59	BO			°	°			-			☐	
			21:04	EN			67° 40.276	168° 56.512			-			☐	
95			:		NET		°	°			-			☐	
96			:		ROS		°	°			-			☐	C-OPS package
97	UTN-6		:		C-OPS		67° 44.461	168° 26.213			-			☐	Optix package
98	UTN-6	19	22:53	BO	ROS	US	67° 44.501	168° 26.108	51	46	134 - 138	5		☒	
	"	19	22:59	BO			°	°			-			☐	
			23:04	EN			67° 44.604	168° 25.825			-			☐	
99			:		NET		°	°			-			☐	
100			:		MUO#5		°	°			-			☐	
			:				°	°			-			☐	

Event Type:
 BOT = Bottle cast (no CTD)
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 NET = Plankton Net Haul
 DRF = Drifter
 _____ = _____

Bottle Firing Method:
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 UN = Up / No stop
 DN = Down / No stop

Time Code:
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Notes: _____

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Month <u>July</u>			Year <u>2010</u>			Vessel <u>Sw2</u>			Cruise ID <u>2010-05</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
101	SEC-2	20	00:04	BE	ROS	US	67° 46.756	168° 36.480	51	46	139 - 143	5		☒ ☐	Sec 8900
	"	"	00:09	BO			° .	° .			-			☐ ☐	
	"	"	00:14	EN			67° 46.854	168° 36.301			-			☐ ☐	
102	"	"	:		NET		° .	° .			-			☐ ☐	
103	"	"	:		MUD*5		° .	° .			-			☐ ☐	
104	SEC-8	20	05:35	BE	ROS	US	68° 17.976	166° 56.840	35	30.5	144 - 147	4	(22)	☒ ☐	Sec 2100
	"		05:40	BO			° .	° .			-			☐ ☐	
	"		05:45	EN			68° 18.052	166° 57.092			-			☐ ☐	
105	"		:		NET		° .	° .			-			☐ ☐	
106	"		:		MUD*1		° .	° .			-			☐ ☐	
107	SEC-7	20	07:08	BE	ROS	US	68° 14.575	167° 7.250	43	38.5	148 - 152	5	(29)	☒ ☐	Sec 10700
			07:18	EN			68° 14.678	167° 7.307			-			☐ ☐	
108			:		NET		° .	° .			-			☐ ☐	
109			:		MUD*2		° .	° .			-			☐ ☐	
110	SEC-6	20	08:25	BE	ROS	US	68° 11.060	167° 18.511	49	45	153 - 157	5	(35)	☒ ☐	Sec 10000
			08:29	BO			° .	° .			-			☐ ☐	
			08:34	EN			68° 11.171	167° 18.616			-			☐ ☐	
111			:		NET		° .	° .			-			☐ ☐	
112			:		MUD*2		° .	° .			-			☐ ☐	

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Notes:

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Drifted off station (SEC-8). Had to recover ABCP/A2CP and
reposition ship.

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Month				Year			Vessel			Cruise ID					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
113	SEC-5	20	09:45	BE	ROS	US	68° 7.646	167° 29.642	51	46	158 - 162	5	(37)	☒ ☐	Sea 8838
			09:50	BO			° .	° .			-			☐ ☐	
			09:54	EN			68° 7.749	167° 29.708			-			☐ ☐	
114			:		NET		° .	° .			-			☐ ☐	
115			:		MUD*1		° .	° .			-			☐ ☐	
116	SEC-4	20	11:32	BE	ROS	US	68° 0.828	167° 52.063	54	49	163 - 167	5	(39)	☒ ☐	
			11:36	BO			° .	° .			-			☐ ☐	
			11:41	EN			68° 0.958	167° 52.139			-			☐ ☐	
117			:		NET		° .	° .			-			☐ ☐	
118			:		MUD*5		° .	° .			-			☐ ☐	
119	SEC-3	20	13:32	BE	ROS	US	67° 53.891	168° 13.936	60	56	168 - 172	5		☐ ☐	Sea 11000
			13:37	BO			° .	° .			-			☐ ☐	
			13:42	EN			67° 53.946	168° 13.913			-			☐ ☐	
120			:		NET		° .	° .			-			☐ ☐	
121			:		MUD*5		° .	° .			-			☐ ☐	
122	UTM-7	20	16:03	BE	ROS	US	67° 59.924	168° 56.437	59	55	173 - 178	6		☒ ☐	Sea 8700
			16:08	BO			° .	° .			-			☐ ☐	
			16:	EN			67° 59.938	168° 56.458			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Notes:

This page is for any notes or observations

Sec 3 is 60m 86-12 80
6 50 Hls

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Month <u>July</u>			Year <u>2013</u>			Vessel <u>SWL</u>			Cruise ID <u>2013-05</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
123	UN-7		:		NET		°	°			-			☐	
124	"		:		MUDXS		°	°			-			☐	
125			:				°	°						☐	
126	DBO-4.6	21	19:57	BE	ROS	US	71° 36.889	163° 47.098	43	37	179-183	5 (29)		☒	1/4 ice.
	"		19:16	EN			71° 36.259	163° 47.029			-			☐	Between floes.
127	"		:		NET		°	°			-			☐	
128	"		:		MUDXS		°	°			-			☐	
129	DBO-4.5A	22	03:21	BE	CTD		71° 33.439	163° 25.705	45	41	-		32)	☒	1/4 ice
			03:25	Bo			°	°			-			☐	Seas 6500
			03:27	EN			71° 33.468	163° 25.623			-			☐	p2 0.4
130	DBO-4.5	22	05:05	BE	ROS	US	71° 29.485	163° 24.205	43	38	184-188		(29)	☒	1/4 ice
	"		05:15	EN			71° 29.474	163° 24.199			-			☐	Seas: 13200
131	"		:		NET		°	°			-			☐	
132	"		:		MUDXS		°	°			-			☐	
133	DBO-4.4A	22	07:29	BE	CTD		71° 25.777	163° 14.036	44	39	-		30)	☐	p2 0.2 Seas: 11000
			07:32	Bo			°	°			-			☐	
			07:34	EN			71° 25.795	163° 13.974			-			☐	1/4 ice
134	DBO-4.4	22	08:53	Bo	ROS		71° 21.620	163° 1.669	45	41	189-201	16		☐	1/4 ice
			09:03	Bo			°	°			-			☐	

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No. ADCP/AZPD on the ship. Two more ice.
Cub was pulled out of ADCP.

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Month <u>July</u>				Year <u>2010</u>			Vessel <u>SW 2</u>			Cruise ID <u>2010-05</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
134	DBO-4.4	22	9:14	EN	ROS	US	71° 21.610	162° 0.766			-			☐	
135			:		NET		° .	° .			-			☐	
136			:		MUD x5		° .	° .			-			☐	
137	DBO-4.3A	22	10:51	BO	CTD		71° 17.692	162° 49.86	48	45	-		(30)	☒	Scan * 5900 p=0.3
			10:54	BO			° .	° .			-			☐	14 loc.
			10:55	EN			71° 17.686	162° 49.669			-			☐	
138	DBO-4.3	22	12:06	BE	ROS	US	71° 13.945	162° 38.416	48	42	202-206	5		☒	Scan 8900 No ADCP
			12:10	BO			° .	° .			-			☐	
			12:15	EN			71° 13.970	162° 37.987			-			☐	
139			:		NET		° .	° .			-			☐	
140			:		MUD x5		° .	° .			-			☐	
141	DBO-4.2A	22	13:43	BE	CTD		71° 10.258	162° 28.034	47	42	-		(30)	☒	p=0.4 Scan: 7000
	"		13:47	BO			° .	° .			-			☐	
	"		13:48	EN			° .	° .			-			☐	
142	DBO-4.2	22	14:36	BE	ROS	US	71° 6.166	162° 16.592	48	43	207-211	5		☒	
	"		14:41	BO			° .	° .			-			☐	
	"		14:46	EN			71° 6.199	162° 16.048			-			☐	
143	"		:		NET		° .	° .			-			☐	
144	"		:		MUD x5		° .	° .			-			☐	

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Notes:

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Month <u>July</u>				Year <u>2010</u>		Vessel <u>SUL</u>				Cruise ID <u>2010-00</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
<u>145</u>	<u>DBO-4.1A</u>	<u>22</u>	<u>16:10</u>	<u>BE</u>	<u>CTD</u>		<u>71° 2.431</u>	<u>162° 5.491</u>	<u>47</u>	<u>42</u>	<u>-</u>		<u>(33)</u>	☒ ☐	<u>P=0.2</u> <u>Scan: 10000</u>
			<u>16:14</u>	<u>BO</u>			<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	
			<u>16:16</u>	<u>EN</u>			<u>71° 2.448</u>	<u>162° 5.287</u>			<u>-</u>			☐ ☐	
<u>146</u>	<u>DBO-4.1</u>		<u>:</u>		<u>C-OPS</u>		<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	<u>Fall apart</u>
<u>147</u>	<u>DBO-4.2</u>	<u>22</u>	<u>17:25</u>	<u>BE</u>	<u>ROS</u>	<u>US</u>	<u>70° 58.767</u>	<u>161° 53.951</u>	<u>47</u>	<u>42</u>	<u>212-216</u>	<u>5</u>	<u>(32)</u>	☒ ☐	
			<u>17:29</u>	<u>BO</u>			<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	
			<u>17:35</u>	<u>EN</u>			<u>70° 58.410</u>	<u>161° 53.611</u>			<u>-</u>			☐ ☐	
<u>148</u>			<u>:</u>		<u>NET</u>		<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	
<u>149</u>			<u>:</u>		<u>Moor #5</u>		<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	
<u>150</u>	<u>BarC-2</u>	<u>23</u>	<u>04:58</u>	<u>BE</u>	<u>ROS</u>	<u>US</u>	<u>71° 17.460</u>	<u>157° 13.916</u>	<u>50</u>	<u>52</u>	<u>281-284</u>	<u>4</u>	<u>(43)</u>	☒ ☐	
			<u>05:02</u>	<u>BO</u>			<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	
<u>151</u>			<u>:</u>		<u>NET</u>		<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	
<u>152</u>			<u>:</u>		<u>Moor #2</u>		<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	
<u>153</u>	<u>BarC-1</u>	<u>23</u>	<u>06:26</u>	<u>BE</u>	<u>ROS</u>	<u>US</u>	<u>71° 14.686</u>	<u>157° 11.212</u>	<u>50</u>	<u>44</u>	<u>285-288</u>	<u>4</u>	<u>(35)</u>	☒ ☐	<u>P=0.7</u> <u>Scan:</u>
			<u>06:31</u>	<u>BO</u>			<u>71° 14.800</u>	<u>157° 10.525</u>			<u>-</u>			☐ ☐	
			<u>06:36</u>	<u>EN</u>			<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	
<u>154</u>			<u>:</u>		<u>NET</u>		<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	
<u>155</u>			<u>:</u>		<u>Moor #3</u>		<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	
			<u>:</u>				<u>° .</u>	<u>° .</u>			<u>-</u>			☐ ☐	

Event Type:

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Bottle Firing Method:

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 UN = Up / No stop
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Notes:

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Month <u>July</u>			Year <u>2013</u>		Vessel <u>SWL</u>		Cruise ID <u>2013-05</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
156	BAC-3	22	08:55	BO	ROS	US	71° 20.077	157° 17.710	95	89	270-280	8		☒ ☐	1/2 ice
			09:01	BO			° .	° .			-			☐ ☐	
			19:09	EN			71° 20.216	157° 16.690			-			☐ ☐	
157			:		NET		° .	° .			-			☐ ☐	
158			:		MUOX2		° .	° .			-			☐ ☐	
159	BAC-4	23	11:33	BO	ROS	US	71° 22.351	157° 24.020	117	109	265-272	8	1901	☒ ☐	1/2 ice
			11:41	EN			71° 22.086	157° 20.212			-			☐ ☐	
160			:		NET		° .	° .			-			☐ ☐	
161			:		MUOX2		° .	° .			-			☐ ☐	
162	BAC-5	23	13:03	BO	ROS	US	71° 24.396	157° 28.315	130	122	248-264	17		☒ ☐	1/2 ice
			13:09	BO			° .	° .			-			☐ ☐	
163			:		NET		° .	° .			-			☐ ☐	
164			:		MUOX5		° .	° .			-			☐ ☐	
165		23	22:17		Bottom		71° 30.292	155° 42.020			-			☐ ☐	PSS-51-70
			:		HE ENVD		° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

Event Type:
 BOT = Bottle cast (no CTD)
 CTD = Standalone CTD
 ROS = CTD in Rosette
 SET = Fish Set

LOOP = Sea Water Loop
 MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter
 _____ = _____

Bottle Firing Method:
 US = Up / Stop (default)
 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

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products
 DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

Notes: _____

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This page is for any notes or observations

Tricky (TD) with 1/2 of 100

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2013-05

DATE:

From: Victoria 4 July 2013 To: 25 July 2013

VESSEL:

CCGS Sir Wilfred Laurier

PROJECT(S):

Canada's Three Oceans

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

WaterProperties.ca