

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2016-4~~5~~6

DATE:

From: 22 June 2016 To: 29 June 2016

VESSEL:

CCGS Vector

PROJECT(S):

Baynes Sound Ecosystem Study

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

1 of 2

WaterProperties.ca

Captain: _____

First Officer: _____

Second Officer: _____ Third Officer: _____

Fishing Master: _____ Chief Engineer: _____

Mission Participants / Agencies:

**** Chief Scientist to complete section below OR cut and tape from cruise plan ****

1st Leg Scientific Personnel: Chief Scientist: Perri Sutherland

Name	Watch	Cabin	Name	Watch	Cabin
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Menu Scozzese 0700-1900

Seven Poles

Robbyn Pearce 0700-1900

Kate McIlwain 0700-1900

Krista Sandberg 0700-1900

Downloaded from <http://ajphaphysocpharm.sagepub.com> at National Archive Publishing Co on June 11, 2015

[illegible][illegible]

2nd Leg Scientific Personnel: **Chief Scientist:** _____

Name	Watch	Cabin	Name	Watch	Cabin
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[illegible][illegible][illegible][illegible]

[illegible][illegible]

**** 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: Vector^{CTD} Laptop

Data acquisition program: Seasave

CTD deck unit make: SBE model: 11+ serial number: 508

Primary CTD

Make: SBE model: 9+ serial number: 550

Primary temperature serial number: 4484

Primary conductivity serial number: 1766

Secondary temperature serial number: 4054

Secondary conductivity serial number: 3531

Transmissometer: Wetlabs Model: CSTAR s/n: 1396DR

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model Seapoint Cable gain: 3X s/n: 3865 P, S or NO pump?

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

Oxygen sensor: SBE Model: 43 s/n: 1119 P, S or NO pump?

PAR sensor: Biospherical Model: QSP20045 s/n: 4565 Surface PAR? Y/N

Other sensors: Biospherical SPAR s/n: 20518 P, S or NO pump?

Other sensors: ptt SBE 18 s/n: 0692 P, S or NO pump?

Other sensors: Attometer s/n: 1252 P, S or NO pump? 1252

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: _____

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?

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): _____

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

* Salt water pump was not working from beginning of trip. They performed some unrelated repairs to main engine and crane and could not get the pump to operate since then.

* TSG system left off due to pump failure.

* Used the fire hose connection ^{Near the starboard forward winch.} for rinsing Smith-Mac grab and zooplankton net.

* Nets hauls performed on starboard forward winch due to limitations relating to starboard aft winch and grab.

* Everything was named as 2016-47 but it should have been 2016-46. 2016-47 was the LaPerouse cruise.

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Month <u>June</u>			Year <u>2016</u>		Vessel <u>Nector</u>		Cruise ID <u>2016-4746</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
1	Test (8815)	23	17:04	BE	ROS	UN	49° 30.637	124° 48.020	25		-	0	KS	☒	→
			17:05	BO			49° 30.643	124° 48.973		20	-			☐	
			17:06				49° 30.644	124° 48.963			-			☐	
			17:07	EN			49° 30.644	124° 48.963			-			☐	
			:				°	°			-			☐	
2	BS15	23	17:13	BE	ROS	UN	49° 30.623	124° 48.962	25		-			☐	- started archiving
			17:14	BO			49° 30.617	124° 48.967		22	-		KS	☐	before 10 m soak
			17:14	EN			49° 30.613	124° 48.967			-			☐	LED not turn on
			:				°	°			-			☐	pump
			:				°	°			-			☐	
3	BS15	23	17:16	BE	ROS	UN	49° 30.607	124° 48.968	25		-			☐	
			17:17	BO			49° 30.606	124° 48.968		22	-		KS	☐	
			17:18	EN			49° 30.605	124° 48.972			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	
4	BS15	23	17:19	BE	GRAB		49° 30.607	124° 48.968			-			☐	
			17:19	BO			49° 30.606	124° 48.968			-			☐	
			17:19	EN			49° 30.605	124° 48.972			-			☐	
			:				°	°			-			☐	
5	BS11	23	17:41	BE	ROS	US	49° 31.063	124° 48.690	47		1-7	7	KS	☒	→
			17:43	BO			49° 31.072	124° 48.669		45	-			☐	
			17:54	EN			49° 31.090	124° 48.672			-			☐	

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
GRAB = Smith-Mac

Bottle Firing Method:

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

Notes:

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
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RE = Recover Mooring Time

Produced by the Water Properties Group, IOS

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Version: 20 April 2016

Event 1

- Sounder was not working. Relied on bridge for station depths.
- Reconnected sea cable prior to first cast. Powered deck unit on and confirmed communication with instrument.
↳ ~~File 2016-47-0001 but will overwrite with actual cast file~~
- Test cast to confirm CTD operation after reconnection of sea cable. Fired all bottles to confirm proper operation of trip mechanism.

Event 2

- Redid cast due to no pump

Event 3 - Did not archive! My goodness. Will have to revisit → See event 40 for valid cast.

Event 4

- Coordinates for grab taken from previous rosette cast.

Event 5

- Cable went slack. It looks as though the rosette touched the bottom. Had winchman bring it up 2m and held for 30s or so before firing.
- Files originally named - 0604_hex etc.
- CTD →
- Fluorometer trace looks a bit jagged on down and up casts.

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Month <u>June</u>			Year <u>2016</u>		Vessel <u>Vector</u>		Cruise ID <u>2016-46</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
6	BS14	23	:	BE	NET	UN	°	°			-			☐	missed location.
			20:53	BO			49° 31.0831	124° 48.6711	47	37	-			☐	
			20:54	EN			49° 31.0835	124° 48.6725			-			☐	
			:				°	°			-			☐	
7	BS14	23	21:00	BE	GPAB		49° 31.0757	124° 48.6421			-			☐	
			21:01	BO			49° 31.0786	124° 48.6549			-			☐	
			21:	EN			49° 31.0590	124° 48.6580			-			☐	did not hear when was up. Inaccurate GPS
			:				°	°			-			☐	
8	BS13	23	21:29	BE	ROS	US	49° 31.330	124° 48.502	47		-			☒	
			21:31	BO			49° 31.342	124° 48.502		45	-	0		☐	No bottles
			21:32	EN			49° 31.342	124° 48.504			-			☐	May not have archived.
			:				°	°			-			☐	
9	BS13	23	:	BE	GRAB		°	°			-			☐	
			:	BO			°	°			-			☐	
			:	EN			°	°			-			☐	
			:				°	°			-			☐	
10	BS8	23	22:09	BE	ROS	US	49° 31.148	124° 51.548	45		8-14	7	KS	☒	
			22:11	BO			49° 31.158	124° 51.528		43	-			☐	
			22:20	EN			49° 31.154	124° 51.546			-			☐	

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 DRF = Drifter
 GRAB = Grab

Bottle Firing Method:

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 DN = Down / No stop

Notes:

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Event 8 - Incorrect event # in CTD files

→ Will revisit station if we have time. It was archived but as *0006.hex, etc. ~~Changed filenames to~~
~~2016-47-0008.hex, etc.~~ → Did not change file names. → bad idea.

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Month <u>June</u>				Year <u>2016</u>		Vessel <u>Vector</u>		Cruise ID <u>2016-47 46</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
11	BS8	23	22:23	BE	GRAB		49° 34.132	124° 51.520			-		KS	☐	
			:	BO			49° 34.132	124° 51.520			-			☐	
			:	EN			49° 34.133	124° 51.510			-			☐	
			:				°	°			-			☐	
12	BS8	23	23:25	BE	NET	UN	49° 34.1697	124° 51.5592			-			☐	
			23:26	BO			49° 34.1741	124° 51.5545	43	37	-		KS	☐	
			23:27	EN			49° 34.1727	124° 51.5539			-			☐	
			:				°	°			-			☐	
13	BS3	24	00:47	BE	ROS	UN	49° 37.916	124° 54.566	21		-		KS	☒	No bottles
			00:48	BO			49° 37.916	124° 54.568		23	-			☐	
			00:49	EN			49° 37.916	124° 54.571			-			☐	
			:				°	°			-			☐	
14	BS3	24	00:	BE	GRAB		49°	124°			-			☐	
			:	BO			49°	124°			-			☐	
			:	EN			49°	124°			-			☐	
			:				°	°			-			☐	
15	BS2	24	01:11	BE	ROS	US	49° 38.420	124° 53.698	36		15-21	7	KS	☒	
			01:12	BO			49° 38.419	124° 53.699		34	-			☐	
			01:20	EN			49° 38.432	124° 53.694			-			☐	

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Notes:

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Month <u>June</u>				Year <u>2016</u>		Vessel <u>Vector</u>			Cruise ID <u>2016-49 46</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
16	BS 2	23	01:28	BE	GRAB		49° .	124° .			-			☐ ☐	Didn't get location - Grab down too quickly (similar to CTD loc.)
			01:	BO			49° .	124° .			-			☐ ☐	
			01:	EN			49° .	124° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
17	BS2	23	01:38	BE	NET	UN	49° 38.4353	124° 53.6801			-			☐ ☐	
			01:39	BO			49° 38.4303	124° 53.6890	35	30	-			☐ ☐	
			01:40	EN			49° 38.4186	124° 53.7434			-			☐ ☐	net was up, didn't notify. Maybe in mooring
			:				° .	° .			-			☐ ☐	
18	BS1	24	01:59	BE	ROS	UN	49° 38.928	124° 52.846			-			☐ ☐	No bottles
			02:01	BO			49° 38.929	124° 52.843			-			☐ ☐	
			02:01	EN			49° 38.928	124° 52.840			-			☐ ☐	
19	BS1	24	02:09	BE	GRAB		49° 38.9114	124° 52.7891			-			☐ ☐	
			02:09	BO			49° 38.9122	124° 52.7887	18		-			☐ ☐	sandy bottom 3 attempts
			02:10	EN			49° 38.9113	124° 52.7891			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
20	BS4	24	14:33	BE	ROS	UN	49° 36.216	124° 50.418	26		-		KS	☒ ☒	No bottles
			14:34	BO			49° 36.220	124° 50.422		24	-			☐ ☐	
			14:35	EN			49° 36.223	124° 50.425			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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Month				Year			Vessel		Cruise ID						
June				2016			Nedcor		2016-47 46						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
21	B54	24	14:38	BE	GRAB		49 ° 36.2343	124 ° 50.4439			-			☐ ☐	
			14:39	BO			49 ° 36.2366	124 ° 50.4502	24		-			☐ ☐	
			14:40	EN			49 ° 36.2389	124 ° 50.4596			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
22	B55	24	15:04	BE	ROS	US	49 ° 35.845	124 ° 51.563	45		22 - 28	7	KS	☒ ☒	
			15:06	BO			49 ° 35.844	124 ° 51.557		42	-			☐ ☐	
			15:15	EN			49 ° 35.861	124 ° 51.529			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
23	B55	24	15:31	BE	GRAB		49 ° 35.8404	124 ° 51.5655			-			☐ ☐	
			15:33	BO			49 ° 35.8464	124 ° 51.5572	43		-			☐ ☐	
			15:	EN			49 ° 35.8490	124 ° 51.5493			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
24	B56	24	15:49	BE	ROS	UN	49 ° 35.682	124 ° 52.571	32		-		KS.	☒ ☒	No bottles
			15:51	BO			49 ° 35.682	124 ° 52.567		30	-			☐ ☐	
			15:52	EN			49 ° 35.681	124 ° 52.566			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
25	B56	24	15:53	BE	GRAB		49 ° 35.6783	124 ° 52.5666			-			☐ ☐	
			15:55	BO			49 ° 35.6763	124 ° 52.5658	30		-			☐ ☐	
			15:56	EN			49 ° 35.6751	124 ° 52.5602			-			☐ ☐	

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Month <u>June</u>			Year <u>2016</u>			Vessel <u>Nector</u>			Cruise ID <u>2016-4246</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
26	BS7	24	16:27	BE	ROS	UN	49° 34.021	124° 52.332	2428		-		KS	☒ ☒	No Bottles
			16:29	BO			49° 34.024	124° 52.331		26	-			☐ ☐	
			16:30	EN			49° 34.026	124° 52.332			-			☐ ☐	
			:				°	°			-			☐ ☐	
27	BS7	24	16:32	BE	GRAB		49° 34.0300	124° 52.3330			-			☐ ☐	
			16:33	BO			49° 34.0315	124° 52.3333	27		-			☐ ☐	
			16:34	EN			49° 34.0339	124° 52.3340			-			☐ ☐	
			:				°	°			-			☐ ☐	
28	BS5	24	16:52	BE	NET	UN	49° 35.8410	124° 51.5770	43		-		KS	☐ ☐	Flow meter 15460-15682
			16:54	BO			49° 35.8397	124° 51.5757		37	-			☐ ☐	
			16:55	EN			49° 35.8389	124° 51.5731			-			☐ ☐	
			:				°	°			-			☐ ☐	
29	BS9	24	17:21	BE	ROS	UN	49° 34.349	124° 50.978	28		-		KS	☒ ☒	No bottles.
			17:22	BO			49° 34.348	124° 50.983		26	-			☐ ☐	
			17:24	EN			49° 34.348	124° 50.990			-			☐ ☐	
			:				°	°			-			☐ ☐	
30	BS9	24	17:32	BE	GRAB		49° 34.3583	124° 51.0146			-			☐ ☐	
			17:34	BO			49° 34.3634	124° 51.0235	30		-			☐ ☐	
			17:35	EN			49° 34.3688	124° 51.0273			-			☐ ☐	

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Produced by the Water Properties Group, IOS

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Event 28

Revisited station after salt water feed was repaired. One net haul performed

Event 29

CTD data files named as event 28 but should be event 29.

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Month				Year			Vessel			Cruise ID					
June				2016			Vector			2016-44 46					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
31	BS12	24	18:07	BE	ROS	UN	49° 32.383	124° 50.081	38		-			☒ ☒	No bottles
			18:08	BO			49° 32.375	124° 50.075		36	-		KS	☐ ☐	
			18:10	EN			49° 32.363	124° 50.069			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
32	BS12	24	18:17	BE	GRAB		49° 32.3899	124° 50.0843			-			☐ ☐	
			18:18	BO			49° 32.3908	124° 50.0854	31		-			☐ ☐	
			18:19	EN			49° 32.3873	124° 50.0842			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
33	BS11	24	19:43	BE	NET		49° 32.1603	124° 50.4998	42		-			☐ ☐	
			19:44	BO			49° 32.1597	124° 50.5020			-			☐ ☐	
			19:45	EN			49° 32.1593	124° 50.5016			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
34	BS11	24	19:56	BE	GRB		49° 32.1919	124° 50.5278	39		-			☐ ☐	
			19:57	BO			49° 32.2061	124° 50.5255			-			☐ ☐	
			19:58	EN			49° 32.2125	124° 50.5253			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
35	BS11	24	20:10	BE	ROS		49° 32.174	124° 50.453	45		29-35	7	KS	☒ ☒	
			20:11	BO			49° 32.170	124° 50.452		43	-			☐ ☐	
			20:19	EN			49° 32.161	124° 50.495			-			☐ ☐	

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
 GRAB = Smith Mac

Bottle Firing Method:

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

Notes:

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

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DAILY SCIENCE LOG

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Month <u>June</u>			Year <u>2016</u>		Vessel <u>Vector</u>		Cruise ID <u>2016-071 46</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
36	BS18	24	22:18	BE	ROS	UN	49° 28.961	124° 46.499	28		-		KS	☒ ☒	No bottles
			22:20	BO			49° 28.961	124° 46.500		26	-			☐ ☐	
			22:21	EN			49° 28.958	124° 46.504			-			☐ ☐	
			:				°	°			-			☐ ☐	
37	BS18	24	22:22	BE	GRAB		49° 28.929	124° 46.512	28		-			☐ ☐	Used
			22:23	BO			49° 28.920	124° 46.504			-			☐ ☐	
			22:24	EN			49° 28.916	124° 46.499			-			☐ ☐	
			:				°	°			-			☐ ☐	
38	BS16	24	22:40	BE	ROS	UN	49° 29.222	124° 45.736	44		-		KS	☒ ☒	No bottles
			22:41	BO			49° 29.222	124° 45.740		43	-			☐ ☐	
			22:42	EN			49° 29.219	124° 45.743			-			☐ ☐	
			:				°	°			-			☐ ☐	
39	BS16	24	22:44	BE	GRAB		49° 29.202	124° 45.735	45.		-			☐ ☐	
			22:45	BO			49° 29.204	124° 45.739		45	-			☐ ☐	
			22:46	EN			49° 29.207	124° 45.736			-			☐ ☐	
			:				°	°			-			☐ ☐	
40	BS15	24	23:14	BE	ROS	UN	49° 30.641	124° 48.968	28		-			☐ ☐	- Station redo
			23:15	BO			49° 30.638	124° 48.973		26	-			☐ ☐	due to not
			23:16	EN			49° 30.635	124° 48.977			-			☐ ☐	archiving previously

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
 GRAB = Smith Mac

Bottle Firing Method:

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

Notes:

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

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Month <u>June</u>			Year <u>2016</u>		Vessel <u>Vector</u>		Cruise ID <u>2016-42 46</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
41	BS10	25	14:08	BE	ROS	UN	49° 31.993	124° 50.953	23		-			☒	No bottles
			14:09	BO			49° 31.993	124° 50.954		21	-			☐	
			14:10	EN			49° 31.992	124° 50.956			-			☐	
			:				°	°			-			☐	
42	BS10	25	14:20	BE	GRAB		49° 31.9846	124° 50.9406	21		-			☐	11 attempts
			14:21	BO			49° 31.9831	124° 50.9388			-			☐	
			14:23	EN			49° 31.9804	124° 50.9363			-			☐	
			:				°	°			-			☐	
43	BS17	25	15:10	BE	NET	UN	49° 28.9789	124° 46.1506	51		-			☐	
			15:12	BO			49° 28.9639	124° 46.1417		46	-			☐	
			15:13	EN			49° 28.9574	124° 46.1293			-			☐	
			:				°	°			-			☐	
44	BS17	25	15:26	BE	GRAB		49° 29.0349	124° 46.1993	51		-			☐	11 attempts
			15:29	BO			49° 29.0282	124° 46.1870			-			☐	
			15:31	EN			49° 29.0269	124° 46.1784			-			☐	
			:				°	°			-			☐	
45	BS17	25	15:35	BE	ROS		49° 29.023	124° 46.176	53		36-42	7	KS	☒	
			15:37	BO			49° 29.017	124° 46.172		53	-			☐	
			15:46	EN			49° 28.991	124° 46.169			-			☐	

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
 GRAB = Smith-Mac

Bottle Firing Method:

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

Notes:

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

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Month				Year			Vessel			Cruise ID					
June				2016			Vector			2016-46					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
46	BS21	25	16:03	BE	GRAB		49° 28.598	124° 45.213	91		-		KS	☐ ☐	
			16:06	BO			49° 28.597	124° 45.206			-			☐ ☐	
			16:09	EN			49° 28.591	124° 45.191			-			☐ ☐	
			:				°	°			-			☐ ☐	
47	BS21	25	16:42	BE	ROS	UN	49° 28.603	124° 45.202	88		-			☐ ☐	No bottles →
			16:45	BO			49° 28.592	124° 45.202		86	-			☐ ☐	
			16:48	EN			49° 28.583	124° 45.209			-			☐ ☐	
			:				°	°			-			☐ ☐	
48	BS19	25	17:00	BE	ROS	UN	49° 28.109	124° 45.172	52		-			☐ ☐	No bottles
			17:03	BO			49° 28.111	124° 45.186		50	-			☐ ☐	
			17:05	EN			49° 28.115	124° 45.190			-			☐ ☐	
			:				°	°			-			☐ ☐	
49	BS19	25	17:05	BE	GRAB		49° 28.113	124° 45.180	51		-			☐ ☐	
			17:08	BO			49° 28.110	124° 45.173			-			☐ ☐	
			17:10	EN			49° 28.106	124° 45.164			-			☐ ☐	
			:				°	°			-			☐ ☐	
50	BS20	25	17:19	BE	NET	UN	49° 28.328	124° 44.820	39		-			☐ ☐	
			17:20	BO			49° 28.330	124° 44.814		34	-			☐ ☐	
			17:21	EN			49° 28.329	124° 44.808			-			☐ ☐	

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
 GRAB = Smith-Mac

Bottle Firing Method:

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

Notes:

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

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→ Event 47

Named old data files as event 46. Should be event 47.

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Month <u>June</u>			Year <u>2016</u>			Vessel <u>Vector</u>			Cruise ID <u>2016-04 46</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
51	BS20	25	17:40	BE	ROS	US	49° 28.320	124° 44.833	43		43 - 49	7	KS	☒	
			17:42	BO			49° 28.316	124° 44.828		41	-			☐	
			17:51	EN			49° 28.306	124° 44.807			-			☐	
			:				°	°			-			☐	
52	BS20	25	17:55	BE	Grab		49° 28.286	124° 44.7753	40		-			☐	
			17:56	BO			49° 28.286	124° 44.7753			-			☐	
			17:58	EN			49° 28.286	124° 44.7550			-			☐	
			:				°	°			-			☐	
53	BS22	25	18:18	BE	GRB		49° 28.248	124° 41.695	40		-			☐	
			18:19	BO			49° 28.240	124° 41.680			-			☐	
			18:20	EN			49° 28.226	124° 41.663			-			☐	
			:				°	°			-			☐	
54	BS22	25	19:05	BE	NET		49° 28.248	124° 41.663	40		-			☐	
			19:06	BO			49° 28.242	124° 41.642			-			☐	
			19:07	EN			49° 28.236	124° 41.629			-			☐	
			:				°	°			-			☐	
55	BS22	25	19:22	BE	ROS	US	49° 28.283	124° 41.718	44		50 - 56	7	KS	☒	
			19:24	BO			49° 28.286	124° 41.711		42	-			☐	
			19:31	EN			49° 28.265	124° 41.627			-			☐	

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
GRB = Smith Microtype

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

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Notes:

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Month <u>June</u>				Year <u>2016</u>		Vessel <u>Vector</u>		Cruise ID <u>2016-46</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
56	BS23	25	19:58	BE	GRB		49° 27.766	124° 39.894	55		-			☐	
			20:00	BO			49° 27.760	124° 39.901			-			☐	
			20:02	EN			49° 27.756	124° 39.901			-			☐	
			:				.	.			-			☐	
57	BS23	25	20:10	BE	NET		49° 27.788	124° 39.902	55		-		KS	☐	
			20:13	BO			49° 27.771	124° 39.890		50	-			☐	
			20:14	EN			49° 27.768	124° 39.886			-			☐	
			:				.	.			-			☐	
58	BS23	25	21:14	BE	ROS	US	49° 27.809	124° 39.940	58		57-63	7	KS	☒	
			21:16	BO			49° 27.799	124° 39.944		56	-			☐	
			21:23	EN			49° 27.784	124° 39.976			-			☐	
			:				.	.			-			☐	
59	BS27	25	21:45	BE	GRB		49° 26.385	124° 38.036			-			☐	
			21:46	BO			49° 26.389	124° 38.038	51		-			☐	
			21:47	EN			49° 26.388	124° 38.045			-			☐	
			:				.	.			-			☐	
60	BS27	25	21:53	BE	ROS	UN	49° 26.363	124° 38.051	52		-		KS	☒	No bottles
			21:54	BO			49° 26.358	124° 38.048		51	-			☐	
			21:56	EN			49° 26.356	124° 38.045			-			☐	

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

58FB = Smith-Mac

Bottle Firing Method:

US = Up / Stop (default)

UN = Up / No stop

DN = Down / No stop

Notes:

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

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MISSION
NUMBER

2016-4~~7~~6

DATE:

From: 22 June 2016

To: 29 June 2016

VESSEL:

CCGS Vector

PROJECT(S):

Baynes Sound Ecosystem Study

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

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month				Year		Vessel			Cruise ID						
June				2016		Vedoc			2016-46						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
61	BS29	25	22:31	BE	NET		49° 24.688	124° 34.960	52		-			☐ ☐	coordinates taken from Ozi Explorer
			22:32	BO			49° 24.684	124° 34.954		47	-			☐ ☐	
			22:33	EN			49° 24.680	124° 34.948			-			☐ ☐	
			:				°	°			-			☐ ☐	
62	BS29	25	22:36	BE	GRAB		49° 24.718	124° 34.922			-			☐ ☐	
			22:38	BO			49° 24.727	124° 34.907	56		-			☐ ☐	
			22:39	EN			49° 24.728	124° 34.896			-			☐ ☐	
			:				°	°			-			☐ ☐	
63	BS29	25	22:50	BE	ROS	US	49° 24.698	124° 34.972	55		64-70	7	KS	☒ ☐	
			22:52	BO			49° 24.696	124° 34.960		54	-			☐ ☐	
			23:00	EN			49° 24.688	124° 34.894			-			☐ ☐	
			:				°	°			-			☐ ☐	
64	BS29	25	23:07	BE	ROS	US	49° 24.689	124° 34.944		surface	-	1	→	☐ ☐	Back in to fire
			:	BO			°	°			-			☐ ☐	Niskin 7 →
			:	EN			°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
65	BS40	26	00:35	BE	NET		49° 27.091	124° 28.343			-			☐ ☐	
			00:47	BO			49° 27.161	124° 28.413			-			☐ ☐	
			00:52	FI			49° 27.190	124° 28.474			-			☐ ☐	

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
GRAB = Smith-Mac

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

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Notes:

This page is for any notes or observations

Event 63

Niskin 7 did not fire

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Month <u>June</u>				Year <u>2016</u>			Vessel <u>Nedbor</u>			Cruise ID <u>2016-1186</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
66	BS40	26	01:01	BE	GRAB		49° 27.135	124° 28.433			-			☐	
			01:09	BO			49° 27.193	124° 28.541	340		-			☐	
			01:17	EN			49° 27.259	124° 28.645			-			☐	
			:				°	°			-			☐	
67	BS40	26	13:56	BE	ROS	US	49° 27.097	124° 28.436	340		71-83	13	KS	☒	
			14:03	BO			49° 27.103	124° 28.478		338	-			☐	
			14:27	EN			49° 27.106	124° 28.492			-			☐	
			:				°	°			-			☐	
68	BS33	26	15:41	BE	NET		49° 30.528	124° 42.796	57		-			☐	
			15:43	BO			49° 30.512	124° 42.819		52	-			☐	
			15:44	EN			49° 30.509	124° 42.829			-			☐	
			:				°	°			-			☐	
69	BS33	26	15:51	BE	GRAB		49° 30.561	124° 42.855			-			☐	
			15:53	BO			49° 30.567	124° 42.870	56		-			☐	
			15:55	EN			49° 30.565	124° 42.881			-			☐	
			:				°	°			-			☐	
70	BS33	26	16:39	BE	ROS	US	49° 30.564	124° 42.818	5760		84-90	7	KS	☒	
			16:41	BO			49° 30.558	124° 42.830		58	-			☐	
			16:50	EN			49° 30.570	124° 42.859			-			☐	

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
 GRAB = Grab-Mac

Bottle Firing Method:

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

Notes:

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

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Month				Year		Vessel				Cruise ID						
June				2016		Vector				2016-46						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments	
71	BS32	26	19:07	BE	NET		49° 33.525	124° 44.414	44		-			☐ ☐		
			19:08	BO			49° 33.514	124° 44.401		39	-			☐ ☐		
			19:09	EN			49° 33.505	124° 44.393			-			☐ ☐		
			:				°	°			-			☐ ☐		
72	BS32	26	19:16	BE	GRAB		49° 33.539	124° 44.422	43		-			☐ ☐		
			19:18	BO			49° 33.534	124° 44.407			-			☐ ☐		
			19:19	EN			49° 33.528	124° 44.398			-			☐ ☐		
			:				°	°			-			☐ ☐		
73	BS32	26	20:00	BE	ROS	US	49° 33.517	124° 44.454	47		91 - 97	7	KS	☒ ☐		
			20:01	BO			49° 33.515	124° 44.450		45	-			☐ ☐		
			20:09	EN			49° 33.479	124° 44.430			-			☐ ☐		
			:				°	°			-			☐ ☐		
74	BS31	26	20:45	BE	NET		49° 37.481	124° 46.800	42		-			☐ ☐		
			20:47	BO			49° 37.482	124° 46.799			-			☐ ☐		
			20:48	EN			49° 37.481	124° 46.796			-			☐ ☐		
			:				°	°			-			☐ ☐		
75	BS31	26	21:00	BE	GRAB		49° 37.467	124° 46.808	43		-			☐ ☐	attempts	
			21:02	BO			49° 37.467	124° 46.790			-			☐ ☐		
			21:03	EN			49° 37.467	124° 46.776			-			☐ ☐		

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
 GRB = Smith McIntyre

Bottle Firing Method:

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

Notes:

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

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Month <u>June</u>			Year <u>2016</u>		Vessel <u>Vedol</u>		Cruise ID <u>2016-47 46</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
76	BS26	26	21:26	BE	NET		49° 38.090	124° 49.810	51		-			☐	
			21:32	BO			49° 38.088	124° 49.815		46	-			☐	coordinates taken from Ozi Explorer
			21:33	EN			49° 38.090	124° 49.821			-			☐	" "
			:				°	°			-			☐	
77	BS26	26	21:39	BE	GRAB		49° 38.108	124° 49.867	46		-			☐	time & coordinates taken from Ozi
			21:41	BO			49° 38.112	124° 49.880			-			☐	"
			21:42	EN			49° 38.112	124° 49.885			-			☐	"
			:				°	°			-			☐	
78	BS25	26	21:51	BE	NET		49° 38.934	124° 50.763	45		-			☐	
			21:52	BO			49° 38.940	124° 50.775		40	-			☐	
			21:53	EN			49° 38.943	124° 50.783			-			☐	
			:				°	°			-			☐	
79	BS25	26	21:59	BE	GRAB		49° 38.980	124° 50.741			-			☐	
			22:02	BO			49° 38.986	124° 50.738			-			☐	
			22:02	EN			49° 38.989	124° 50.743			-			☐	
			:				°	°			-			☐	
80	BS25	26	22:10	BE	ROS	UN	49° 38.944	124° 50.716	53		-		KS	☒	No bottles.
			22:11	BO			49° 38.946	124° 50.724		51	-			☐	
			22:12	EN			49° 38.951	124° 50.732			-			☐	

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
 GRAB = Shoal Grab

Bottle Firing Method:

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

Notes:

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

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Month <u>June</u>				Year <u>2016</u>		Vessel <u>Vector</u>				Cruise ID <u>2016-47 46</u>					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
81	BS24	26	22:45	BE	NET		49° 39.840	124° 51.155	51		-			☐ ☐	
			22:46	BO			49° 39.832	124° 51.175		46	-			☐ ☐	
			22:47	EN			49° 39.832	124° 51.175			-			☐ ☐	
			:				°	°			-			☐ ☐	
82	BS24	26	22:59	BE	GRAB		49° 39.847	124° 51.146			-			☐ ☐	
			23:00	BO			49° 39.857	124° 51.149	51		-			☐ ☐	
			23:02	EN			49° 39.870	124° 51.154			-			☐ ☐	
			:				°	°			-			☐ ☐	
83	BS35	26	23:31	BE	NET		49° 41.856	124° 47.469	119		-			☐ ☐	
			23:34	BO			49° 41.882	124° 47.469			-			☐ ☐	
			23:36	EN			49° 41.894	124° 47.472			-			☐ ☐	
			:				°	°			-			☐ ☐	
84	BS35	26	23:44	BE	GRAB		49° 41.828	124° 47.438			-			☐ ☐	
			23:46	BO			49° 41.858	124° 47.424	123		-			☐ ☐	
			23:48	EN			49° 41.876	124° 47.418			-			☐ ☐	
			:				°	°			-			☐ ☐	
85	BS36	27	00:38	BE	NET		49° 38.822	124° 43.142	135		-			☐ ☐	
			00:42	BO			49° 38.814	124° 43.101			-			☐ ☐	
			00:45	EN			49° 38.812	124° 43.094			-			☐ ☐	

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
 GRAB = Smith-Mac

Bottle Firing Method:

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

Notes:

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

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Month <u>June</u>			Year <u>2016</u>			Vessel <u>Vedoc</u>			Cruise ID <u>2016-4746</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Pressure	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
86	BS 36	27	00:53	BE	GRAB		49° 38.895	124° 43.148			-			☐ ☐	
			00:57	BO			49° 38.892	124° 43.141	135		-			☐ ☐	
			00:59	EN			49° 38.883	124° 43.133			-			☐ ☐	
			:				°	°			-			☐ ☐	
87	BS 37	27	01:32	BE	NET		49° 35.964	124° 39.204	158		-			☐ ☐	
			01:40	BO			49° 35.963	124° 39.187		153	-			☐ ☐	bottom time may be inaccurate
			01:42	EN			49° 35.961	124° 39.216			-			☐ ☐	
			:				°	°			-			☐ ☐	
88	BS 37	27	01:50	BE	GRAB		49° 35.963	124° 39.227			-			☐ ☐	inaccurate beginning GPS
			01:52	BO			49° 35.963	124° 39.221	159		-			☐ ☐	
			01:55	EN			49° 35.962	124° 39.167			-			☐ ☐	
			:				°	°			-			☐ ☐	
89	BS 34	27	14:06	BE	ROS	US	49° 27.310	124° 35.083	176		105-115	11	KS	☒ ☐	
			14:10	BO			49° 27.305	124° 35.099		173	-			☐ ☐	
			14:26	EN			49° 27.328	124° 35.140			-			☐ ☐	
			:				°	°			-			☐ ☐	
90	BS 34	27	14:40	BE	GRB		49° 27.318	124° 35.184			-			☐ ☐	
			14:44	BO			49° 27.323	124° 35.178	174		-			☐ ☐	
			14:48	EN			49° 27.318	124° 35.167			-			☐ ☐	

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

GRB = Smith McIntyre

Bottle Firing Method:

US = Up / Stop (default)

UN = Up / No stop

DN = Down / No stop

Notes:

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

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