

DAILY SCIENCE LOG BOOK

CRUISE
NUMBER

2017-03

DATE:

From: April 14th/2017

To:

VESSEL:

Vector

PROJECT(S):

Baynes Sound

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

WaterProperties.ca

**** 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 Laptop

Data acquisition program: Seasave

CTD deck unit make: SBE model: 11+ serial number: 0508

Primary CTD

Make: SBE model: 9+ serial number: 0550

Primary temperature serial number: 4054

Primary conductivity serial number: 1766

Secondary temperature serial number: 4484

Secondary conductivity serial number: 3531

Transmissometer: Wetlabs Model: C-STAR s/n: 1185DR

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model Seapoint Cable gain: 3X s/n: 3685 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: Biophenical Model: QSP200L45 s/n: 4565 Surface PAR? Y/N

Other sensors: pt SBE 18 s/n: 0691 P, S or NO pump?

Other sensors: A-Himeter s/n: 62355 P, S or NO pump?

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

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

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____ s/n: _____

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)

DAILY SCIENCE LOG

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Month <u>APRIL</u>				Year <u>2017</u>			Vessel <u>VECTOR</u>				Cruise ID <u>2017-03</u>				
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
001	BS 2A	15	14:41	BC	ROS	U.S.	49° 38. 39	124° 53.67	36		1 - 7	7	H.M.	☒ ☒	
			14:43	BC			49° 38. 39	124° 53.66		31	-			☐ ☐	
			14:51	CM			49° 38. 39	124° 53.66			-			☐ ☐	
002	BS 2A	15	15:20	BC	NET		49° 38. 39	124° 53.66	30		—		NET	☐ ☐	SCORE NET
003	BS 2B	15	16:06	BC	ROS	U.S.	49° 38. 39	124° 53.67		31	8 - 14		H.M.	☒ ☒	
			16:07	BO			49° 38. 39	124° 53.67			-			☐ ☐	
			16:11	CM			49° 38. 39	124° 53.67			-			☐ ☐	
004	BS 2C	15	17:06	BC	ROS	U.S.	49° 38. 39	124° 53.67	36		15 - 21		H.M.	☒ ☒	
			17:08	BO			49° 38. 39	124° 53.67		30	-			☐ ☐	
			17:13	CM			49° 38. 39	124° 53.67			-			☐ ☐	
	BS 2C	15	17:25	BC	NET		49° 38. 39	124° 53.67	36	30	-	—	H.M.	☐ ☐	SCORE NET
005	BS 2D	15	18:07	BC	ROS	U.S.	49° 38. 39	124° 53.67	36		22 - 28		H.M.	☒ ☒	
			18:09	BO			49° 38. 39	124° 53.67		30	-			☐ ☐	
			18:14	CM			49° 38. 39	124° 53.67			-			☐ ☐	
006	BS 2E	15	20:04	BC	ROS	U.S.	49° 38. 39	124° 53.67	35		29 - 35	7	H.M.	☒ ☒	NO SAMPLES
			20:06	BO			49° 38. 40	124° 53.74		30	-			☐ ☐	
			20:12	CM			49° 38. 40	124° 53.74			-			☐ ☐	
007	BS 2E	15	20:25	BC	NET	—	49° 38. 40	124° 53.74	35	30	—		H.M.	☐ ☐	SCORE NET
			:				°	°			-			☐ ☐	

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

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>APRIL</u>				Year <u>2017</u>		Vessel <u>VECTOR</u>			Cruise ID <u>2017-03</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
							Latitude	Longitude							
008	BS2-F	15	21:59	BE	ROS	V.S.	49° 38.40	124° 53.74			36 - 42	7	U.M.	☒ ☒	
			22:01	BO			49° 38.41	124° 53.74			-			☐ ☐	
			22:08	EN			49° 38.40	124° 53.75			-			☐ ☐	
009	BS2-G	15	23:03	BE	ROS	V.S.	49° 38.40	124° 53.74	33		43 - 49	7	H.M.	☒ ☒	
			23:04	BO			49° 38.39	124° 53.74		30	-			☐ ☐	
			23:11	EN			49° 38.39	124° 53.74			-			☐ ☐	
010	BS2-G	15	23:30	BE	NET	-	49° 38.39	124° 53.74	33	30	-	-	H.M.	☐ ☐	
011	BS2-H	15	00:59	BE	ROS	V.S.	49° 38.41	124° 53.73	33		50 - 56	7	H.M.	☒ ☒	SCORE NET
			01:01	BO			49° 38.41	124° 53.73		28	-			☐ ☐	
			01:07	EN			49° 38.41	124° 53.73			-			☐ ☐	
012	BS2-H	15	:	BE	NET	-	49° 38.	124° 53.	33	28	-	-	H.M.	☐ ☐	
013	BS2-H	15	01:30	BE	GRAB	-	49° 38.	124° 53.			-		T.S.	☐ ☐	SMITH MAC
			:				.	.			-			☐ ☐	
014	BS17-A	16	15:54	BE	ROS	V.S.	49° 29.08	124° 46.19	53		57 - 63	7	H.M.	☒ ☒	
			15:55	BO			49° 29.08	124° 46.19		50	-			☐ ☐	
			16:03	EN			49° 29.08	124° 46.20			-			☐ ☐	
015	BS17-A	16	:	BE	NET	-	49° 29.	124° 46.		50	-			☐ ☐	SCORE NET
			:				.	.			-			☐ ☐	
			:				.	.			-			☐ ☐	

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Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
016	BS17-B	16	17:03	BC	ROS	U.S.	49° 29.08	124° 46.21	55	50	64 - 70	7	H.M.	☒ ☒	
			17:05	BO			49° 29.08	124° 46.21			-			☐ ☐	
			17:12	EN			49° 29.08	124° 46.21			-			☐ ☐	
017	BS17-C	16	19:01	BC	ROS		49° 29.08	124° 46.21	55	50	71 - 77	7	H.M.	☒ ☒	
			19:03	BO			49° 29.08	124° 46.21			-			☐ ☐	
			19:10	EN			49° 29.08	124° 46.20			-			☐ ☐	
018	BS17-C	16	19:20	BC	NET		49° 29.08	124° 46.20		50	-	-	H.M.	☐ ☐	SCOR NET
019	BS17-D	16	20:05	BC	ROS	U.S.	49° 29.08	124° 46.21	54		78 - 84	7	H.M.	☒ ☒	
			20:06	BO			49° 29.08	124° 46.21		50	-			☐ ☐	
			20:13	EN			49° 29.08	124° 46.21			-			☐ ☐	
020	BS17-E		21:01	BC	ROS	U.S.	49° 29.05	124° 46.20	53	50	85 - 91	7	H.M.	☒ ☒	
			21:03	BO			49° 29.05	124° 46.20			-			☐ ☐	
			21:10	EN			49° 29.05	124° 46.20			-			☐ ☐	
021	BS17-E		21:20	BC	NET		49° 29.05	124° 46.20		50	-		H.M.	☐ ☐	SCOR NET
			:				°	°			-			☐ ☐	
022	BS17-F		22:04	BC	ROS		49° 29.05	124° 46.20	52		92 - 98	7	H.M.	☒ ☒	
			22:07	BO			49° 29.05	124° 46.20		48	-			☐ ☐	
			22:13	EN			49° 29.05	124° 46.20			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Month <u>APRIL</u>				Year <u>2017</u>			Vessel <u>VECTOR</u>				Cruise ID <u>2017-03</u>				
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
023	BS 17 G	16	23:02	BE	ROS	U.S.	49° 29.05	124° 46.19			98-104	7	H.M.	☒ ☒	
			23:04	BO			49° 29.05	124° 46.18			-			☐ ☐	
			23:11	EN			49° 29.05	124° 46.20			-			☐ ☐	
024	BS 17 G	16	23:20	BE	NET	-	49° 29.05	124° 46.20			-			☐ ☐	
025	BS 17 H	17	01:04	BE	ROS	U.S.	49° 29.05	124° 46.20	52		105-111	7	H.M.	☒ ☒	
			01:06	BO			49° 29.05	124° 46.20		48	-			☐ ☐	
			01:14	EN			49° 29.05	124° 46.19			-			☐ ☐	
026	BS 17 H	17	01:20	BE	NET	-	49° 29.05	124° 46.19	52	45	-			☐ ☐	SCOR NET
027	BS 91	17	14:18	BE	ROSS	-	49° 28.62	124° 45.23	94		-	-	H.M.	☐ ☐	DEEP BASIN
			14:20	BE			49° 28.62	124° 45.23		90	-			☐ ☐	CTD
			14:22	EN			49° 28.62	124° 45.23			-			☐ ☐	
028	BS 23 A	17	17:02	BE	ROS	U.S.	49° 27.77	124° 39.99	59	55	112-118	7	H.M.	☒ ☒	
			17:03	BO			49° 27.77	124° 39.99			-			☐ ☐	
			17:08	EN			49° 27.77	124° 39.99			-			☐ ☐	
029	BS 23 A	17	17:20	BE	NET		49° 27.77	124° 39.99	53	55	-			☐ ☐	SCOR NET
030	BS 23 B	17	18:00	BE	ROS	U.S.	49° 27.78	124° 39.99	59		119-125	7	H.M.	☒ ☒	
			18:01	BO			49° 27.78	124° 39.99		55	-			☐ ☐	
			18:08	EN			49° 27.78	124° 39.99			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Month <u>APRIL</u>				Year <u>2017</u>			Vessel <u>VECTOR</u>				Cruise ID <u>2017-03</u>				
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031	BS 23 C	17	19:00	BE	ROS	US	49° 27.78	124° 39.99	59	55	126-132	7	H.M.	☒ ☒	
			19:03	BO			49° 27.78	124° 39.99			-			☐ ☐	
			19:09	EN			49° 27.78	124° 39.99			-			☐ ☐	
032	BS 23 C	17	19:20	BE	NET	—	49° 27.78	124° 39.99	59	55	-			☐ ☐	SCOR NET
033	BS 23 D	17	19:55	BE	ROS	US	49° 27.78	124° 39.98	59		133-139	7	H.M.	☒ ☒	
			19:57	EN			49° 27.78	124° 39.97		55	-			☐ ☐	
			20:04	BO			49° 27.78	124° 39.97			-			☐ ☐	
034	BS 23 E	17	21:00	BE	ROS	US	49° 27.77	124° 39.97	59	55	140-146	7	H.M.	☒ ☒	
			21:03	BO			49° 27.77	124° 39.97			-			☐ ☐	
			21:09	EN			49° 27.77	124° 39.97			-			☐ ☐	
035	BS 23 E		21:20	BE	NET	—	49° 27.77	124° 39.97	59	55	-			☐ ☐	SCOR NET
036	BS 23 F		22:01	BE	ROS	US	49° 27.79	124° 40.03	56		147-153	7	H.M.	☒ ☒	
			22:02	BO			49° 27.79	124° 40.03		50	-			☐ ☐	
			22:09	EN			49° 27.79	124° 40.03			-			☐ ☐	
037	BS 23 G		23:03	BE	ROS	US	49° 27.79	124° 40.04	56		154-160	7	H.M.	☒ ☒	
			23:04	BO			49° 27.79	124° 40.03		50	-			☐ ☐	
			23:11	EN			49° 27.79	124° 40.04			-			☐ ☐	
038	BS 23 G		23:20	BE	NET		49° 27.79	124° 40.04	56	50	-			☐ ☐	SCOR NET
			:				°	°			-			☐ ☐	

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Month <u>April</u>				Year <u>2017</u>			Vessel <u>VECTOR</u>				Cruise ID <u>2017-03</u>				
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
039	BS23-H	17	23:57	BE	ROS	U.S	49°27.79	124°40.04	56		161-167	7	H.M	☒ ☒	
			23:59	BO			49°27.81	124°40.03		50	-			☐ ☐	
			00:08	EN			49°27.81	124°40.03			-			☐ ☐	
040	BS23 I	18	01:02	BE	ROS	US	49°27.81	124°40.03	56		168-174	7	H.M	☒ ☒	
			01:04	BO			49°27.80	124°40.04		50	-			☐ ☐	
			01:13	EN			49°27.79	124°40.04			-			☐ ☐	
041	BS23 I	18	01:15	BE	NET		49°27.80	124°40.03	56	50	-			☐ ☐	SCOR NET
042	BS23 I	18	01:35	BE	GRAB		49°27.80	124°40.04	57		-		TS	☐ ☐	SMITH MAC
043	BS17H	17	01:30	BE	GRAB		49°29.05	124°46.20	53		-		TS	☐ ☐	SMITH MAC (LATE ENTRY)
044	BS23	18	14:11	BE	ROS	/	49°27.78	124°39.94	60		/		H.M	☒ ☒	
			14:13	BO			49°27.78	124°39.93		55	-			☐ ☐	
			14:15	EN			49°27.78	124°39.93			-			☐ ☐	
045	BS22	18	14:31	BE	ROS	/	49°28.28	124°41.73	44		/		H.M	☒ ☒	
			14:33	BO			49°28.29	124°41.76		40	-			☐ ☐	
			14:34	EN			49°28.30	124°41.78			-			☐ ☐	
046	BS 21 20	18	14:53	BE	ROS	/	49°28.33	124°44.82	41		/		H.M	☒ ☒	FILG NEEDS
			14:54	BO			49°28.33	124°44.82		35	-			☐ ☐	REHAWING
			14:55	EN			49°28.33	124°44.82			-			☐ ☐	
			:				.	.			-			☐ ☐	

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047	BS 30	18	15:10	BE	ROS	/	49° 29. 04	124° 46. 18	55		/	-	H.M	☒ ☒	
	17		15:12	BO			49° 29. 05	124° 46. 18		56	-			☐ ☐	
			15:13	EN			49° 29. 05	124° 46. 20			-			☐ ☐	
048	BS 17	18	15:34	BE	ROS	/	49° 31. 09	124° 49. 71	49		/	-	H.M	☒ ☒	
	14		15:35	BO			49° 31. 09	124° 48. 71		45	-			☐ ☐	
			15:37	EN			49° 31. 09	124° 48. 70			-			☐ ☐	
049	BS 14	18	15:52	BE	ROS	/	49° 32. 20	124° 50. 51	45		/	-	H.M	☒ ☒	FILE NEEDS
	11		15:53	BO			49° 32. 20	124° 50. 51		40	-			☐ ☐	RENAMING
			15:55	EN			49° 32. 21	124° 50. 52			-			☐ ☐	
050	BS 11	18	16:27	BE	ROS	/	49° 34. 16	124° 51. 56	50		/	-	H.M	☒ ☒	
	8		16:28	BO			49° 34. 16	124° 51. 56		45	-			☐ ☐	
			16:30	EN			49° 34. 17	124° 51. 56			-			☐ ☐	
051	BE 8	18	17:05	BE	ROS	/	49° 36. 25	124° 51. 59	43		/	-	H.M	☒ ☒	
	5		17:06	BO			49° 36. 25	124° 51. 59		38	-			☐ ☐	
			17:07	EN			49° 36. 25	124° 51. 58			-			☐ ☐	
052	BS 2	18	17:32	BE	ROS	/	49° 38. 42	124° 53. 72	35		/	-	H.M	☒ ☒	
			17:34	BO			49° 38. 42	124° 53. 72		30	-			☐ ☐	
			17:35	EN			49° 38. 42	124° 53. 71			-			☐ ☐	
			:				°	°			-			☐ ☐	

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

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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BS 32.5 33.3 33.6

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>APRIL</u>			Year <u>2017</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2017-03</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Cast Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
053	RH1	18	20:43	BE	ROS	U.S	49 ° 31.30	124 ° 49.22	42		175 - 181	7	H.M	☒ ☒	
			20:44	BO			49 ° 31.30	124 ° 49.22		38	-			☐ ☐	
			20:57	EN			49 ° 31.31	124 ° 49.20			-			☐ ☐	
054	BS 32.5	19	14:20	BE	ROS	U.S	49 ° 31.80	124 ° 43.93			181 - 187	7	H.M	☒ ☒	
			14:21	BO			49 ° 31.80	124 ° 43.94			-			☐ ☐	
			14:27	EN			49 ° 31.86	124 ° 43.94			-			☐ ☐	
055	BS 33	19	14:54	BE	ROS	U.S	49 ° 30.53	124 ° 42.81	59		188 - 194		H.M	☒ ☒	
			14:55	BO			49 ° 30.53	124 ° 42.81		55	-			☐ ☐	
			15:02	EN			49 ° 30.54	124 ° 42.78			-			☐ ☐	
056	BS 33.3	19	15:20	BE	ROS	U.S	49 ° 30.12	124 ° 42.18	70		195 - 201	7	H.M	☒ ☒	
			15:22	BO			49 ° 30.12	124 ° 42.18		65	-			☐ ☐	
			15:29	EN			49 ° 30.10	124 ° 42.19			-			☐ ☐	
057	BS 33.6	19	16:01	BE	ROS	U.S	49 ° 29.20	124 ° 40.60	100		202 - 208		H.M	☒ ☒	
			16:04	BO			49 ° 29.19	124 ° 40.60		95	-			☐ ☐	
			16:12	EN			49 ° 29.20	124 ° 40.50			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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