

DAILY SCIENCE LOG BOOK

CRUISE
NUMBER

2017-56

DATE:

From: June 27/2017 To:

VESSEL:

Vector

PROJECT(S):

BAYNES SOUND SHELLFISH PROJECT

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: 550

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: 1396DR

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model Serpaint Cable gain: 3X s/n: 3685 P 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: QSP200L48 s/n: 4565 Surface PAR? Y / N

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

Other sensors: Altimeter s/n: 62355 P, S or NO pump?

Other sensors: pH s/n: 0691 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)

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Month <u>JUNE</u>				Year <u>2017</u>			Vessel <u>VECTOR</u>				Cruise ID <u>2017-56</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
01	BS 2 A	28	14:20	BE	ROS	U.S.	49° 38.375	124° 53.66	35		1 - 7	7	H.M.	☒ ☒	
			14:21	BO			49° 38.38	124° 53.66		30	-			☐ ☐	
			14:27	EN			49° 38.37	124° 53.66			-			☐ ☐	
02	BS 2 B	28	15:10	BE	ROS	U.S.	49° 38.37	124° 53.66	35		8 - 14	7	H.M.	☒ ☒	
			15:12	BO			49° 38.37	124° 53.67		30	-			☐ ☐	
			15:17	EN			49° 38.37	124° 53.67			-			☐ ☐	
03	BS 2 C	28	16:00	BE	ROS	U.S.	49° 38.38	124° 53.67	35		15 - 21	7	H.M.	☒ ☐	
			16:01	BO			49° 38.37	124° 53.67		30	-			☐ ☐	
			16:07	EN			49° 38.38	124° 53.67			-			☐ ☐	
04	BS 2 D	28	17:05	BE	ROS	U.S.	49° 38.37	124° 53.68	36		-			☐ ☐	
			17:07	BO			49° 38.37	124° 53.68		30	22 - 28	7	H.M.	☒ ☐	
			17:12	EN			49° 38.38	124° 53.70			-			☐ ☐	
05	BS 2 E	28	18:01	BE	ROS	U.S.	49° 38.37	124° 53.70	35		29 - 35	7	H.M.	☒ ☐	
			18:02	BO			49° 38.37	124° 53.71		30	-			☐ ☐	
			18:07	EN			49° 38.37	124° 53.70			-			☐ ☐	
06	BS 2 F	28	20:01	BE	ROS	U.S.	49° 38.38	124° 53.71	35		36 - 42	7	H.M.	☒ ☐	
			20:03	BO			49° 38.38	124° 53.70		30	-			☐ ☐	
			20:11	EN			49° 38.37	124° 53.71			-			☐ ☐	
			:				°	°			-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
 CTD = Standalone 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

Notes:

Time Code:

BE = Beginning Time of Cast
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

DE = Deployment Time
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Month <u>JUNE</u>				Year <u>2017</u>		Vessel <u>VECTOR</u>				Cruise ID <u>2017-56</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/Fl Cleaned	Comments
07	BS2G	28	20:59	BE	ROS	US	49 ° 38.37	124 ° 53.71	35		43 - 49	7	H.M.	☒	
			21:00	BO			49 ° 38.37	124 ° 53.71		30	-			☐	
			21:05	CM			49 ° 38.37	124 ° 53.71			-			☐	
08	BS1	29	14:00		GRAB		49 ° 38.9	124 ° 52.28	19	19	—	—	TS	☐	
09	BS2	29	15:06		GRAB		49 ° 38.43	124 ° 53.70	35	35	-			☐	
10	BS3	29	15:37		GRAB		49 ° 37.96	124 ° 54.57	22	22	-			☐	
11	BS4	29	16:06		GRAB		49 ° 36.21	124 ° 50.39	24		-			☐	
12	BS5	29	16:28		GRAB		49 ° 35.84	124 ° 51.58	48		-			☐	
13	BS6	29	16:58				49 ° 35.63	124 ° 52.61	27		-			☐	
14	BS7	29	17:35				49 ° 34.29	124 ° 52.31	27		-			☐	
15	BS8	29	18:00				49 ° 34.15	124 ° 51.58	45		-			☐	
16	BS9	29	18:18				49 ° 34.33	124 ° 50.91	23		-			☐	
17	BS10	29	19:23				49 ° 31.96	124 ° 50.91	24		-			☐	
18	BS11	29	19:50				49 ° 32.19	124 ° 50.42	47		-			☐	
19	BS12	29	20:10				49 ° 32.38	124 ° 50.10	38		-			☐	
20	BS13	29	20:22				49 ° 31.29	124 ° 48.44	38		-			☐	
21	BS14	29	21:16				49 ° 31.08	124 ° 48.73	47		-			☐	
22	BS15	29	21:36				49 ° 30.61	124 ° 48.93	26		-			☐	
23	BS16	29	22:00				49 ° 29.23	124 ° 45.76	44		-		TS	☐	

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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
24	BS17	29	22:22		GRAB		49° 29.03	124° 46.21	50		50 -		TS	☐	
25	BS18	29	22:43				49° 28.98	124° 46.58	23		-			☐	
26	BS19	29	23:30				49° 28.11	124° 45.20	48		-			☐	
27	BS20	30	00:36				49° 28.31	124° 44.04	39		-		↓	☐	
28	BS21	30	01:05		GRAB		49° 28.60	124° 44.61	25		-		T.S	☐	
			:				°	°			-			☐	
29	BS17A	30	14:08	BC	ROS	U.S	49° 29.05	124° 46.10	59		50 - 56	7	H.M.	☒	
			14:09	BO			49° 29.05	124° 46.11		50	-			☐	
			14:17	EN			49° 29.05	124° 46.11			-			☐	
30	BS17B	30	14:57	BC	ROS	U.S.	49° 29.04	124° 46.12	57		57 - 63	7	H.M.	☒	
			14:58	BO			49° 29.04	124° 46.13		50	-			☐	
			15:05	EN			49° 29.04	124° 46.12			-			☐	
31	BS17C	30	15:59	BC	ROS	U.S	49° 29.04	124° 46.12	57		64 - 70	7	H.M.	☒	
			16:00	BO			49° 29.04	124° 46.12		50	-			☐	
			16:07	EN			49° 29.04	124° 46.13			-			☐	
32	BS17D	30	16:57	BC	ROS	U.S	49° 29.04	124° 46.13	57		71 - 77	7	H.M.	☒	
			16:58	BO			49° 29.04	124° 46.13		50	-			☐	
			17:05	EN			49° 29.04	124° 46.12			-			☐	
			:				°	°			-			☐	

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Month <u>JUNE</u>				Year <u>2017</u>			Vessel <u>VECTOR</u>				Cruise ID <u>2017-56</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
33	BS17E	30	17:59	BE	ROS	U.S.	49° 29. 04	124° 46. 12	58		78 - 84	7	HM	☒	
			18:00	BO			49° 29. 04	124° 46. 12		50	-			☐	
			18:	EN			49° 29.	124° 46.			-			☐	
34	BS17F	30	20:04	BE	ROS	U.S.	49° 29. 03	124° 46. 10	58		-			☐	
			20:06	BO			49° 29. 03	124° 46. 10		50	84 - 91	7	H.M.	☒	
			20:13	EN			49° 29. 03	124° 46. 10			-			☐	
35	BS17G	30	21:03	BE	ROS	U.S.	49° 29. 03	124° 46. 11	58		92 - 98	7	H.M.	☒	
			21:05	BO			49° 29. 03	124° 46. 11		50	-			☐	
			21:12	EN			49° 29. 03	124° 46. 11			-			☐	
36	BS17H	30	22:02	BE	ROS	U.S.	49° 29. 03	124° 46. 13	58		-	-	H.M.	☐	NO SAMPLES
			22:03	BO			49° 29. 03	124° 46. 13		50	-			☐	
			22:05	EN			49° 29. 03	124° 46. 14			-			☐	
			:				°	°			-			☐	
37	BS 22	30	23:30		GRAB		49° 28. 29	124° 41. 71	42		-		T.S.	☐	
38	BS 23	1	00:30		↓		49° 27. 79	124° 39. 93	58		-		↓	☐	
39	BS 34	1	01:06		↓		49° 27. 31	124° 35. 13	176		-		↓	☐	
40	BS 33	1	01:49		↓		49° 30. 55	124° 42. 86	57		-		↓	☐	
41	BS 32	1	02:17		✓		49° 33. 51	124° 44. 48	46		-		↓	☐	
			:				°	°			-			☐	

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Notes:

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Month <u>JULY</u>				Year <u>2017</u>		Vessel <u>VECTOR</u>				Cruise ID <u>2017-56</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
42	BS23 A	1	14:19	BC	ROS	U.S.	49° 27. 77	124° 38. 94	58		99 - 105	7	H.M	☒ ☐	
			14:21	BO			49° 27. 77	124° 38. 95		50	-			☐ ☐	
			14:27	EN			49° 27. 78	124° 38. 94			-			☐ ☐	
43	BS23 B	1	15:29	BC	ROS	U.S.	49° 27. 82	124° 40. 01	58		106 - 112	7	H.M	☒ ☐	
			15:30	BO			49° 27. 81	124° 40. 01		50	-			☐ ☐	
			15:37	EN			49° 27. 81	124° 40. 01			-			☐ ☐	
44	BS23 C		16:30	BC	ROS	U.S.	49° 27. 80	124° 40. 02	57		113 - 119	7	H.M	☒ ☐	
			16:31	BO			49° 27. 80	124° 40. 02		50	-			☐ ☐	
			16:38	EN			49° 27. 80	124° 40. 02			-			☐ ☐	
45	BS23 D		17:31	BC	ROS	U.S.	49° 27. 80	124° 40. 02	57		120 - 126	7	H.M	☒ ☐	LONGITUDE FROM
			17:32	BO			49° 27. 80	124° 40. 02		50	-			☐ ☐	DASHBOARD
			17:38	EN			49° 27. 80	124° 40. 02			-			☐ ☐	
46	BS23 E		19:43	BC	ROS	U.S.	49° 27. 81	124° 40. 02	57		127 - 133	7	H.M	☒ ☐	
			19:44	BO			49° 27. 81	124° 40. 02		50	-			☐ ☐	
			19:50	EN			49° 27. 81	124° 40. 02			-			☐ ☐	
47	BS23 F		20:32	BC	ROS	U.S.	49° 27. 82	124° 40. 01	57		134 -			☐ ☐	
			20:33	BO			49° 27. 82	124° 40. 01		50	-			☐ ☐	
			20:41	EN			49° 27. 82	124° 40. 02			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Month <u>JULY</u>			Year <u>2017</u>			Vessel <u>VECTOR</u>				Cruise ID <u>2017-56</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
48	BS23G	1	21:30	BE	ROS	U.S.	49° 27.82	124° 40.01	57		141-147	7	H.M	☒ ☐	
			21:31	BO			49° 27.82	124° 40.01		50	-			☐ ☐	
			21:38	EN			49° 27.82	124° 40.01			-			☐ ☐	
49	BS31	1	23:02		GRAB		49° 37.47	124° 46.79	47		-			☐ ☐	
50	BS26	1	23:25		GRAB		49° 38.10	124° 49.87	49		-			☐ ☐	
51	BS25	1	23:42		GRAB		49° 38.95	124° 50.72	53		-			☐ ☐	
52	BS24	1	24:03		GRAB		49° 39.83	124° 51.18	54		-			☐ ☐	
			:				° .	° .			-			☐ ☐	
53	BS2	2	13:53	BE	ROS	U.S.	49° 38.45	124° 53.75	35		—	—	H.M	☒ ☐	
			13:54	BO			49° 38.45	124° 53.75		30	-			☐ ☐	
			13:55	EN			49° 38.45	124° 53.75			-			☐ ☐	
54	BS5	2	14:32	BE	ROS	U.S.	49° 35.83	124° 51.58	42		—	—	H.M	☒ ☐	
			14:33	BO			49° 35.84	124° 51.58		35	-			☐ ☐	
			14:34	EN			49° 35.83	124° 51.59			-			☐ ☐	
55	BS8	2	14:48	BE	ROS		49° 34.13	124° 51.58	46		—	—	H.M	☒ ☐	
			14:50	BO			49° 34.14	124° 51.57		40	-			☐ ☐	
			14:51	EN			49° 34.14	124° 51.57			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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Month <u>July</u>			Year <u>2017</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2017-56</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							
56	BS 11	2	15:11	BE	ROS	—	49° 32. 17	124° 50. 51	42		—	—	H.M	☒ ☐	
			15:12	BO			49° 32. 17	124° 50. 51		35	-			☐ ☐	
			15:13	EN			49° 32. 17	124° 50. 51			-			☐ ☐	
57	BS 14	2	15:49	BE	ROS	—	49° 31. 09	124° 49. 70	49		—	—	H.M	☒ ☐	
			15:50	BO			49° 31. 08	124° 48. 69		40	-			☐ ☐	
			15:51	EN			49° 31. 07	124° 48. 70			-			☐ ☐	
58	BS 17	2	16:10	BE	ROS	—	49° 29. 02	124° 46. 19	52		—	—	H.M	☐ ☐	
			16:11	BO			49° 29. 02	124° 46. 19		45	-			☐ ☐	
			16:13	EN			49° 29. 02	124° 46. 19			-			☐ ☐	
59	BS 20	2	16:23	BE	ROS	—	49° 28. 32	124° 44. 83	39		—	—	H.M	☒ ☐	
			16:24	BO			49° 28. 32	124° 44. 83		35	-			☐ ☐	
			16:25	EN			49° 28. 33	124° 44. 85			-			☐ ☐	
60	BS 22	2	16:57	BE	ROS	—	49° 28. 26	124° 41. 72	41		—	—	H.M	☐ ☐	
			16:58	BO			49° 28. 27	124° 41. 72		35	-			☐ ☐	
			16:59	EN			49° 28. 27	124° 41. 72			-			☐ ☐	
61	BS 23	2	17:12	BE	ROS	—	49° 27. 80	124° 39. 93	58		—	—	H.M	☒ ☐	
			17:13	BO			49° 27. 80	124° 39. 93		50	-			☐ ☐	
			17:15	EN			49° 27. 80	124° 39. 92			-			☐ ☐	
			:				°	°			-			☐ ☐	

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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

Produced by the Water Properties Group, IOS

WaterProperties.ca
Version: 6 December 2016

Notes: _____

Month JULY				Year 2017			Vessel VECTOR			Cruise ID 2017-56					
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/FI Cleaned	Comments
							Latitude	Longitude							
62	BS 27	2	17:30	BE	ROS	—	49°26.35	124°38.06	51		—	—	H.M.	☒ ☐	
			17:31	BO			49°26.34	124°38.06		45	-			☐ ☐	
			17:32	EN			49°26.34	124°38.06			-			☐ ☐	
63	BS 29	2	17:52	BE	ROS	—	49°24.67	124°34.91	56		—	—	H.M.	☒ ☐	
			17:53	BO			49°24.67	124°34.89		50	-			☐ ☐	
			17:55	EN			49°24.66	124°34.88			-			☐ ☐	
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