

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2019-067

DATE:

From: May 30th / 2019 To: June 2nd / 2019

VESSEL:

Vector

PROJECT(S):

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

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: Seatem

CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: SBE model: 25 serial number: 334

Primary temperature serial number: 4484

Primary conductivity serial number: 2128

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: SBE Model: 43 s/n: 1483 P, S or NO pump?

PAR sensor: _____ Model: _____ s/n: _____ Surface PAR? Y / N

Other sensors: pressure SBE 29 s/n: 0482 P, S or NO pump?

Other sensors: Turbidity 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: 9+ serial number: 1222

Primary temperature serial number: 2374

Primary conductivity serial number: 4395

Secondary temperature serial number: 4883

Secondary conductivity serial number: 3184

Transmissometer: Wetlab 3 Model: C-Star s/n: 953DR

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model Seapoint Cable gain: 3X s/n: 3642 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: Bio-spherical Model: QSP200L 45 s/n: 4565 Surface PAR? Y / N

Other sensors: pH s/n: 0691 P, S or NO pump?

Other sensors: Altimeter s/n: 432-81 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>May</u>				Year <u>2019</u>		Vessel <u>Vector</u>				Cruise ID <u>67</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							
1	Swiftsure	30	15:54	DE	mooring CTD		48° 30.894	124° 56.139'	75m		-		coi LP	☐	mooring deployment
2	Swiftsure	30	16:40	BE	CTD CTD		48° 30.9376	124° 56.0554	74m	70m	-	Ø	coi LP	☒	CTD cast
		30	16:42	BO	CTD bottom		48° 30.933	124° 56.049		70m	-		coi LP	☐	
		30	16:45	EN	CTD end		48° 30.933	124° 56.084			-		coi LP	☐	
3	Port Renfrew	30	20:09	DE	mooring CTD		48° 30.259	124° 30.954	167m		-		coi LP	☐	
4	Port Renfrew	30	20:47	BE	CTD CTD		48° 30.246	124° 30.827	165m		-	Ø	coi LP	☐	
		30	20:50	BO	CTD bottom		48° 30.242	124° 30.820		160m	-		coi LP	☐	
		30	20:53	EN	CTD end		48° 30.224	124° 30.831			-		coi LP	☐	
5	Jordan River	30	23:37	DE	mooring CTD		48° 23.772	124° 08.026	120m		-		coi LP	☐	
6	Jordan River	31	00:48	BE	CTD		48° 23.701	124° 08.126	122m		-	Ø	coi LP	☐	
		31	00:50	BO			48° 23.697	124° 08.148		117m	-		coi LP	☐	
		31	00:52	EN			48° 23.711	124° 08.161			-		coi LP	☐	
7	Trans 1	31	03:05	BE	CTD		48° 23.269	124° 06.452	123		-		SR	☐	
			03:08	BO			° 23.250	° 06.484		118	-			☐	
			03:10	EN			° 23.223	° 06.519			-			☐	
8	Trans 2	31	05:08	BE	CTD		48° 23.539	124° 06.895	118		-			☐	
			05:10	BO			° 23.557	° 06.909		113	-			☐	
			05:12	EN			° 23.556	° 06.914			-			☐	
			:				°	°			-			☐	

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
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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>May</u>				Year <u>2019</u>			Vessel <u>Vector</u>				Cruise ID <u>2019</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
9	Trans 3	31	07:10	BE	CTD		48°24.896	124°12.302	120		-		8P	☐ ☐	
			07:12	BO			°24.899	°12.285		115	-			☐ ☐	
			07:15	EN			°24.888	°12.286			-			☐ ☐	
10	Trans 4	31	09:05	BE	CTD		48°23.770	124°07.355	114		-			☐ ☐	Winch stopped
			09:08	BO			°23.754	°07.356		109	-			☐ ☐	@10m on up
			09:10	EN			°23.743	°07.364			-			☐ ☐	cast by accident
11	Trans 5	31	11:11	BE	CTD		48°23.027	124°04.039	117		-			☒ ☐	
			11:13	BO			°23.026	°04.040		112	-			☐ ☐	
			11:15	EN			°23.031	°04.040			-			☐ ☐	
12	Sooke	31	16:35	DE	MOR		48°17.415	123°39.305	166		-		coilP	☐ ☐	
13	Sooke	31	17:06	BE	CTD		48°17.471	123°39.366	168		-		coilP	☐ ☐	
			17:09	BO			°17.491	°39.355		163	-			☐ ☐	
			17:12	EN			°17.517	°39.379			-			☐ ☐	
14	Haro Strait	31	21:55	DE	MOR		48°29.735	123°11.587	229		-		coilP	☐ ☐	
15	Haro Strait	31	22:31	BE	CTD		48°29.723	123°11.488	231		-		coilP	☐ ☐	
			22:35	BO			°29.734	°11.578		226	-			☐ ☐	
			22:39	EN			°29.726	°11.753			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Month <u>June</u>			Year <u>2019</u>			Vessel <u>Vector</u>			Cruise ID <u>2019-067</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
16	Trans 6	01	02:09	BE	CTD		48°17.345	123°43.712	174		-		SR	☒	
			02:11	BO			°17.328	°43.743		169	-			☐	
			02:14	EN			°17.318	°43.757			-			☐	
17	Trans 7	01	03:59	BE	CTD		48°17.562	123°43.790	175		-		SR	☒	
			04:02	BO			°17.545	°43.819		170	-			☐	
			04:05	EN			°17.520	°43.865			-			☐	
18	Trans 8	01	06:21	BE	CTD		48°17.344	123°37.533	184		-		SR	☒	
			06:25	BO			°17.319	°37.508		179	-			☐	
			06:28	EN			°17.314	°37.504			-			☐	
19	Trans 9	01	08:02	BE	CTD		48°17.703	123°39.357	157		-			☐	
			08:05	BO			°17.652	°39.330		152	-			☐	
			08:07	EN			°17.635	°39.319			-			☐	
20	Turn Point	01	14:31	DE	MOR		48°42.099	123°16.654	193		-		COILP	☐	
21	Turn Point	01	15:06	BE	ROS		48°42.063	123°16.5399	204		-		CP	☒	2019-67-001.tex
			15:10	BO			48°41.977	123°16.550		199	-			☐	
			15:14	EN			48°41.939	123°16.561			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	

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22	Boundary Pass	01	17:33	BE	MOR		48° 43.995	123° 09.130	180		-		COILP	☐ ☐	
23	Boundary Pass	01	18:02	BE	ROS		48° 44.020	123° 9.335	185		-		LP	☒ ☒	Forgot to Archive until 10 meters 4P
			18:05	BO			48° 44.012	123° 9.436		175	-			☐ ☐	
			18:09	EN			48° 44.014	123° 9.463			-			☐ ☐	
24	Trans 10	01	23:18	BE	ROS		48° 29.414	123° 12.489	170		-			☒ ☒	Forgot to Archive Rejected Cast.
			23:22	BO			48° 29.417	123° 12.481		150	-			☐ ☐	on a slope chasing Bottom 4P
			23:	EN			48° 29.414	123° 12.492			-			☐ ☐	
25	TRANS 11	02	01:18	BE	ROS		48° 33.138	123° 12.996	260		-			☒ ☒	Temp Sensors are 0.3 out. 4P
			01:23	BO			48° 33.148	123° 12.973		252	-			☐ ☐	
			01:27	EN			48° 33.162	123° 12.961			-			☐ ☐	
26	Trans 12	02	03:13	BE	ROS		48° 29.803	123° 11.910	215		-		SR	☒ ☐	
			03:18	BO			° 29.796	° 11.960		213	-			☐ ☐	
			03:21	EN			° 29.808	° 11.960			-			☐ ☐	
27	Trans 13	02	05:05	BE	ROS		48° 33.660	123° 12.802	304		-		SR	☒ ☐	
			05:11	BO			° 33.646	° 12.752		302	-			☐ ☐	
			05:16	EN			° 33.630	° 12.763			-			☐ ☐	
28	Trans 14	02	07:18	BE	ROS		48° 32.436	123° 12.190	253		-		SR	☒ ☐	
			07:23	BO			° 32.450	° 12.212		252	-			☐ ☐	
			07:28	EN			° 32.490	° 12.228			-			☐ ☐	

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29	Trans 15	02	08:14	BE	ROS		° .014	° .662			-		SR	☐	Test cast after
			08:16	BO			° .	° .			-			☐	Service. Swapped
			08:20	EN			° .	° .			-			☐	out pump cable
30	Trans 16	02	09:03	BE	ROS		48° 31.640	123° 12.109	221		-		SR	☐	SR
			09:08	BO			° 31.675	° 12.109		218	-			☐	
			09:12	EN			° 31.696	° 12.104			-			☐	
31	Trans 17	02	10:09	BE	ROS		48° 31.214	123° 12.199	221		-		SR	☒	Swapped out the
			10:14	BO			° 31.208	° 12.270		219	-			☐	CTD Fath this
			10:17	EN			° 31.	° .			-			☐	Cast
			:				° .	° .			-			☐	1222 to 443
			:				° .	° .			-			☐	
			:				° .	° .			-			☐	
			:				° .	° .			-			☐	
			:				° .	° .			-			☐	
			:				° .	° .			-			☐	
			:				° .	° .			-			☐	
			:				° .	° .			-			☐	
			:				° .	° .			-			☐	

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