

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2020-063

DATE:

From: Sept 10th/2020

to:

VESSEL:

Vector

PROJECT(S):

OPP-MEQ / TMX REC 5/6, 15Z

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

WaterProperties.ca

First Officer: _____
Third Officer: _____

Scientific Personnel:	Chief Scientist:	Watch	Cabin	Name
Name				

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Second leg of Mission:		Chief Scientist:
Name	Watch	Cabin
		Name

Data logging computer: Vector Laptop
Data acquisition program: Seasave
CTD deck unit make: Siemens model: 11+ serial number: 041

Primary CTD

Make: SILC model: 1

Primary temperature serial number: 2374

Primary conductivity serial number: 4395

Secondary temperature serial number: 4883

Secondary conductivity serial number: 3184

Secondary conductivity cell number: _____
Model: _____
Transmissometer: _____

Transmissometer: _____
Fluorometer: Model Sea Point Cable gain: _____

Fluorometer: Model Seapoint
Oxygen sensor: SBE Model: 4

Oxygen sensor: 245 Model: 1

PAR sensor: _____ Model: _____

Other sensors: _____

Other sensors: _____

Other sensors: _____

Other sensors: _____

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>Sept</u>				Year <u>2020</u>			Ship <u>Vector</u>				Cruise ID <u>2020-06</u>				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Con
							Latitude	Longitude							
10	Sooke	23:07	RE	MOR		1									
10	Sooke	01:19	DE	MOR		2	48° 17.365	123° 39.137	166						
11	Sooke3	01:48	BE	CTD	✓	3	48° 17.411	122° 39.163	165				SR	✓	
		01:52	BO				17.414	39.161		162					
		01:55	EN				17.414	39.152							
11	JDF 4	0317	BE	CTD		4	48° 16.608	123° 34.458	163				SR		
		0319	BO				16.592	34.492		159					
		0322	EN				16.567	34.518							
11	JDF 5	0438	BE	CTD		5	48° 18.307	123° 46.360	176				SR		
		0441	BO				18.308	46.378		172					
		0445	EN				18.307	46.385							
11	JDF 6	0551	BE	CTD		6	48° 20.868	123° 57.593	136				SR		
		0553	BO				20.864	57.604		131					
		0556	EN				20.862	57.617							
11	JDF 7	0710	BE	CTD		7	48° 24.062	124° 9.162	123				SR		
		0713	BO				24.082	9.230		119					
		0716	EN				24.100	9.290							

Transmissometer to be cleaned before each cast, d

Cast Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

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

Bottle Firing Method:

US = Up / Stop
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Notes:

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DAILY SCIENCE LOG				OCEAN SCIENCES DIVISION, INSTITUTE OF OCEANOGRAPHY								Cruise ID 2020-063			
Month September				Year 2020				Ship Vector							
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
11	JDF8	0827	BE	CTD		8	48° 27.570	124° 21.590	133				SR		
		0831	BO				27.580	21.684		131					
		0833	EN				27.592	21.791							
11	JDF9	0946	BE	CTD		9	48° 31.241	124° 35.141	163				SR		25° W
		0951	BO				31.291	35.438		158					
		0953	EN				31.309	35.569							
11	JDF10	1107	BE	CTD		10	48° 33.270	124° 50.670	111				SR		
		1110	BO				33.310	50.837		103					
		1112	EN				33.349	50.959							
11	JDF11	1218	BE	CTD		11	48° 33.250	125° 3.826	83				SR		
		1220	BO				33.270	3.878		83					
		1221	EN				33.287	3.913							
11	JDF12	1433	BE	CTD		12	48° 33.126	125° 00.412	39				CO		at Swiftsure
		1434	BO				33.126	00.412		39					
		1435	EN				33.126	00.412							
11	SWIFTSURE 152	1445	RE	MOR		13									
11	SWIFTSURE 152	1629	DE	MOR		14	48 33.120	125 00.432	40						
11	SWIFTSURE MEG	1730	RE	MOR		15									
11	SWIFTSURE MEG	2058	DE	MOR		16	48 30.924	124 56.156	74						

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Month <u>September</u>			Year <u>2020</u>			Ship <u>Vector</u>			Cruise ID <u>2020-63</u>						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
11	JDF 17	21:39	BE	CTD		17	48° 30.947	124° 56.178	74				CS		At Swiftsure MEQ mooring
		21:40	BO				30.949	56.176		70					
		21:42	EN				30.953	56.170							
11	JDF 18	23:38	BE	CTD		18	48° 33.156	124° 53.269	82				CS/KM		
		23:40	BO				33.156	53.280		77					
		23:43	EN				33.154	53.285							
12	JDF 19	00:55	BE	CTD		19	48° 32.312	124° 43.434	158				CM		
		00:58	BO				48° 32.312	124° 43.434		154					
		01:01	EN				48° 32.317	124° 43.436							
12	JDF 20	0208	BE	CTD		20	48° 30.732	124° 32.846	168				SR		
		0212	BO				30.737	32.837		165					
		0215	EN				30.745	32.831							
12	JDF 21	0324	BE	CTD		21	48° 27.403	124° 21.548	143				SR		Changed the config to a 10x gain cable as 30x was wrong
		0326	BO				27.389	21.552		141					
		0329	EN				27.379	21.552							
12	JDF 22	0439	BE	CTD		22	48° 24.403	124° 10.051	118				SR		
		0442	BO				24.396	10.040		114					
		0444	EN				24.389	10.027							

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Month		Sept		Year			2020			Ship			Vector			Cruise ID			2020-063		
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments						
							Latitude	Longitude													
12	JDF23	0552	BE	CTD		23	48°21.220	123°59.114	132				SR								
		0554	BO				21.209	59.110		130											
		0556	EN				21.178	59.100													
12	JDF24	0721	BE	CTD		24	48°18.185	123°44.574	173				SR								
		0725	BO				18.202	44.606		167											
		0728	EN				18.209	44.639													
12	JDF25	0839	BE	CTD		25	48°16.832	123°35.222	173				SR								
		0842	BO				16.852	35.351		171											
		0846	EN				16.861	35.441													
12	JDF26	0957	BE	CTD		26	48°18.769	123°49.272	177				SR								
		1001	BO				18.762	49.390		172											
		1004	EN				18.755	49.490													
12	JDF27	1122	BE	CTD		27	48°22.234	124°02.990	125				SR								
		1124	BO				22.244	03.084		123											
		1127	EN				22.250	03.166													
12	JDF28	1238	BE	CTD		28	48°25.961	124°15.806	119												
		1241	BO				25.973	15.853		113											
		1243	EN				25.986	15.899													

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Month <u>Sept</u>				Year <u>2020</u>				Ship <u>Vector</u>				Cruise ID <u>2020-063</u>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
12	PORT RENFREW	14:21	RE	MOR		29									
12	PORT RENFREW	16:15	DE	MOR		30	48°30.274	124°31.016'	168m						
12	JDF31	16:38	BE	CTD		31	48°30.053	124°31.046'	171m				CM		at Port Renfrew mooring
		16:42	BO				30.248	31.036		166m					
		16:45	EN				30.242	30.997							
12	JDF32	17:54	BE	CTD		32	48°26.477	124°17.686	116m				CM		
		17:56	BO				26.465	17.652		111m					
		17:58	EN				26.453	17.616							
12	JORDAN RIVER	19:36	RE	MOR		33									
	JORDAN RIVER	21:29	DE	MOR		34	48°23.793	124°07.976	120				CM		at Jordan River mooring
12	JDF35	21:53	BE	CTD		35	48°23.698	124°07.786	120m						
		21:55	BO				48°23.696	124°07.787		117m					
		21:57	EN				23.696	07.788							
12	JDF36	23:11	BE	CTD		36	48°20.242	123°55.157	141m				CM		
		23:14	BO				20.238	55.140		137m					
		23:17	EN				20.238	55.123							
13	JDF37	00:29	BE	CTD		37	48°17.844	123°42.750	173m				CM		
		00:32	BO				17.842	42.754		167m					
		00:36	EN				17.840	42.761							

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Month Sept			Year 2020				Ship VECTOR				Cruise ID 2020-063				
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13	JDF38	01:41	BE	CTD		38	48° 17.122	123° 37.584	190m				CM		
		01:45	BO				17.124	37.554		184m					
		01:47	EN				17.125	37.555							
13	JDF39	0259	BE	CTD		39	48° 18.829	123° 49.806	177				SR		
		0302	BO				18.827	49.813		174					
		0306	EN				18.823	49.822							
13	JDF40	0414	BE	CTD		40	48° 21.907	124° 01.228	128				SR		
		0417	BO				21.914	01.214		124					
		0419	EN				21.917	01.196							
13	JDF41	0529	BE	CTD		41	48° 24.504	124° 10.730	121				SR		
		0531	BO				24.506	10.714		118					
		0533	EN				24.511	10.694							
13	JDF42	0712	BE	CTD		42	48° 29.148	124° 27.220	165				SR		
		0715	BO				29.165	27.292		163					
		0718	EN				29.171	27.368							
13	JDF43	0828	BE	CTD		43	48° 31.890	124° 40.495	167				SR		
		0831	BO				31.902	40.630							
		0835	EN				31.909	40.736							

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Month <u>September</u>				Year <u>2020</u>			Ship <u>Vektor</u>			Cruise ID <u>2020-063</u>					
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13	JDF44	0947	BE	CTD		44	48° 33.137	124° 56.092	70				SR		
		0948	BO				33.138	56.154		67					
		0950	EN				33.138	56.215							
13	JDF45	1111	BE	CTD		45	48° 33.205	124° 55.740	71				SR		
		1112	BO				33.205	55.756		68					
		1113	EN				33.225	55.770							
13	JDF46	1229	BE	CTD		46	48° 32.519	124° 45.280	151				SR		
		1233	BO				32.568	45.500		146					
		1236	EN				32.610	45.636							
13	JDF47	14:09	BE	CTD		47	48° 30.433	124° 31.562	166m				CM		
		14:12	BO				30.446	31.598		163					
		14:15	EN				30.461	31.632							
13	JDF48	15:29	BE	CTD		48	48° 27.013	124° 19.874	126				CM		
		15:31	BO				27.998	19.840		124					
		15:34	EN				26.982	19.808							
13	JDF49	16:43	BE	CTD		49	48° 23.590	124° 07.356	120				CM		
		16:46	BO				23.579	07.309		117					
		16:48	EN				23.564	07.256							

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Month SEPT		Year 2020					Ocean Sciences Division, Institute of Ocean Sciences					Page 8 of			
Dr	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
13	JDF50	17:57	BE	CTD		50	48° 19.895	123° 53.984	145				CM		
		18:00	BO				19.883	53.912		141					
		18:03	EN				19.872	53.846							
13	JDF51	19:19	BE	CTD		51	48° 17.653	123° 41.544	175				CM		
		19:24	BO				17.647	41.324		171					
		19:28	EN				17.635	41.080							
13	JDF52	20:39	BE	CTD		52	48° 17.060	123° 38.269	189				CM		
		20:42	BO				17.066	38.243		185					
		20:46	EN				17.074	38.191							
13	JDF53	22:04	BE	CTD		53	48° 18.980	123° 50.170	177	74m			CM		CTD stopped 22:05 & CTD brought on board - needed to be manoeuvrable for a vessel (went down to 74m depth.)
13	JDF54	22:14	BE	CTD		54	48° 18.954	123° 50.172	178m				CM		
		22:17	BO				18.948	50.161		174					
		22:20	EN				18.944	50.143							
13	JDF55	23:24	BE	CTD		55	48° 21.828	124° 01.196	128				CM		
		23:26	BO				21.822	01.206		124					
		23:29	EN				21.814	01.211							
13	JDF56	00:33	BE	CTD		56	48° 25.021	124° 12.557	119				CM		
		00:36	BO				25.009	12.554		115					
		00:38	EN				24.995	12.548							

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Month		Year		Ocean Sciences Division, Institute of Ocean Sciences												Page			
SEPT		2020		Ship VECTOR												Cruise ID 2020-063		9 of	
Stn	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments				
							Latitude	Longitude											
14	JDF57	01:46	BE	CTD		57	48° 28.116	124° 23.394	146m				CM						
		01:49	BO				28.122	23.388		145									
		01:52	EN				28.133	23.398											
14	JDF58	0256	BE	CTD		58	48° 30.996	124° 33.835	164				SR						
		0259	BO				31.004	33.847		162									
		0302	EN				31.012	33.865											
14	JDF59	0414	BE	CTD		59	48° 30.594	124° 32.563	172				SR						
		0417	BO				30.586	32.567		170									
		0420	EN				30.583	32.572											
14	JDF60	0526	BE	CTD		60	48° 27.670	124° 21.874	137				SR						
		0528	BO				27.661	21.884		134									
		0531	EN				27.659	21.890											
14	JDF61	0710	BE	CTD		61	48° 22.470	124° 3.493	126				SR						
		0712	BO				22.446	3.442		123									
		0714	EN				22.429	3.402											
14	JDF62	0828	BE	CTD		62	48° 19.068	123° 50.621	176				SR						
		0831	BO				19.075	50.585		173									
		0834	EN				19.081	50.551											

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Month		September		Year		2020		Ship			Vector			Cruise ID			2020-063		
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments				
							Latitude	Longitude											
14	JDF63	0948	BE	CTD		63	48° 16.906	123° 36.776	186				SR						
		0951	BO				16.874	36.742		182									
		0955	EN				16.840	36.726											
14	JDF64	1115	BE	CTD		64	48° 17.765	123° 24.493	123				SR						
		1118	BO				17.762	24.499		120									
		1120	EN				17.760	24.514											
14	JDF65	1237	BE	CTD		65	48° 21.996	123° 16.619	86				SR						
		1239	BO				21.965	16.715		82									
		1241	EN				21.936	16.799											
14	JDF66	14:43	BE	CTD		66	48° 29.248	123° 11.245	221				CM		at Haro Strait mooring				
		14:48	BO				29.120	11.209		215									
		14:52	EN				29.029	11.194											
14	BOUNDARY PASS	19:16	RE	MOR		67													
14	BOUNDARY CHANNEL	21:45	RE	MOR		68													
14	BOUNDARY PASS	22:32	BE	MOR		69	48° 44.014	123° 08.741	178										
14	SATURNIA MOORING	23:21	RE	MOR		70													
14	SATURNIA MOORING	23:48	DE	MOR		71	48° 46.566	123° 04.156	86										
15	SWANSON CHANNEL	01:59	DE	MOR		72	48° 44.340	123° 15.340	74										

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month		Sept		Year		2020		Ship		Vector		Cruise ID		2020-063	
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
15	SOG73	0230	BE	CTD		73	48°44.322	123°15.316	78				SR		
		0232	BO				44.322	15.313		74					
		0233	EN				44.321	15.312							
15	SOG74	0321	BE	CTD		74	48°44.112	123°8.767	172				SR		Boundary Pass
		0325	BO				44.077	8.791		171					mooring site
		0329	EN				44.066	8.826							
15	SOG75	0429	BE	CTD		75	48°46.538	123°3.994	132				SR		The cast started
		0431	BO				46.528	3.980		128					at a depth of 107m
		0433	EN				46.517	3.986							
15	SOG76	0608	BE	CTD		76	48°50.704	123°06.964	218				SR		
		0612	BO				50.700	06.960		216					
		0616	EN				50.696	06.961							
15	SOG77	0735	BE	CTD		77	48°57.065	123°20.573	200				SR		
		0739	BO				57.090	20.700		199					
		0743	EN				57.085	20.789							
15	SOG78	0843	BE	CTD		78	49°3.026	123°25.652	300				SR		
		0848	BO				3.030	25.696		296					
		0854	EN				3.035	25.730							

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Page 12 of Month SeptYear 2020Ship VectorCruise ID 2020-063

Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
15	S0679	1013	BE	CTD		79	49° 9.845	123° 20.723	188				SR		
		1016	BO				9.820	20.737		187					
		1019	EN				9.810	20.743							
15	S0680	1140	BE	CTD		80	49° 16.084	123° 21.924	249				SR		
		1145	BO				16.044	21.947		244					
		1149	EN				16.006	21.966							
15	S0681	1247	BE	CTD		81	49° 11.738	123° 20.735	192				SR		
		1250	BO				11.725	20.741		188					
		1253	EN				11.725	20.747							
15	S0682	1408	BE	CTD		82	49° 05.118	123° 21.787	188				CO		
		1412	BO				05.108	21.828		189					2m above seafloor
		1416	EN				05.106	21.890							
15	S0683	15:20	BE	CTD		83	49° 11.930	123° 20.820	192				CM		at Strait of Georgia North mooring
		15:23	BO				11.912	20.887		189					
		15:27	EN				11.896	20.951							
15	S0684	17:06	BE	CTD		84	49° 13.904	123° 20.297	205				CM		
		17:10	BO				13.915	20.282		204					
		17:14	EN				13.924	20.273							

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