

Captain:

Dustin F. Jahr

First Officer: Thomas Bonfai

Second Officer:

Rachel Winchester

Third Officer:

Fishing Master:

King Master: Mike
Basur Petrie

Chief Engineer:

Result

Mission Participants / Agencies:

DfD

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

1st Leg Scientific Personnel:

Chief Scientist: Cathlin O'Neill

Name

Watch Cabin

Name

Watch Cabin

Peter Van Buren

Day Part

Christie Morrison

Day
St. Fru

Danielle Caleb

Stoff Night

Catlin Oneil

Day Chc

2nd Leg Scientific Personnel:

Chief Scientist:

Name

Watch Cabin

Name

Watch Cabin

**** 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: Laptop - FC9JJD4A Vector ASUS
~~Senseless 6.7267.121~~

Data acquisition program: Sesave V.720.7.121

CTD deck unit make: SBE model: 11 serial number: S08

Primary CTD

Make: SBE model: 9 serial number: S06

Primary temperature serial number: 2374

Primary conductivity serial number: 3184

Secondary temperature serial number: 4883

Secondary conductivity serial number: 4395

Transmissometer: _____ Model: _____ s/n: _____

Transmissometer: _____ Model: _____ s/n: _____

Fluorometer: Model Seapoint Cable gain: 10x s/n: 3982 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: _____ Model: _____ s/n: _____ Surface PAR? Y / N

Other sensors: Water part s/n: 15321 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?

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)

Rosette Setup:

Number of bottles: _____
Manufacturer: _____
Volume of bottles (litres): _____

Winches:

1. Make: Swan Model: 329 Serial #: 1413 Used for: CTD
2. Make: _____ Model: _____ Serial #: _____ Used for: _____
3. Make: _____ Model: _____ Serial #: _____ Used for: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Salinometer:

Make: _____ Model: _____ Serial Number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Oxygen Kits:

Make: _____ Model: _____ Kit Number: _____
Make: _____ Model: _____ Kit Number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Thermosalinograph System (SBE21): SBE 21 SN 3363

Program: _____ Version: _____
Sampling interval (seconds): _____
Fluorometer sensor serial number: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

ADCP Setup:

Computer time zone: _____	User Exits:	Name: _____	Exit points: _____
Sampling interval (sec): _____		Name: _____	Exit points: _____
Bin Length: (2 ^{dx} x): _____		Name: _____	Exit points: _____
Pulse Length: _____		Work File: _____	
Buffer (bytes): _____			
Gyro Offset: _____			

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

CTD Test Cast Information

Test Cast along side? Yes ☐ No ☒

Comments _____

Test Cast in Saanich Inlet or other location? ☒ Yes ☐ No

Comments _____

CTD pressure reading on deck (db), before cast: 1.7 after cast: _____

Pumps working? Yes ☒ (0011) No ☐ (0010)

Secondary Temp – Primary Temp: 0.001
(Average from the mixed region)

Secondary Salinity – Primary Salinity: -0.006
(Average from the mixed region)

Additional Comments:

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Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>Oct</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-018</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 CTD	7	05:28	BE	CTD	/	48° 39.361	123° 29.335	97		-			☐ ☐	comm errors
			05:30	BO			° 39.358	° 29.336		94	-			☐ ☐	
			05:32	EN			° 39.355	° 29.336			-			☐ ☐	
2	Swiftsure MEQ	7	18:08	RE	MOR		48° 30.924	124° 56.180	73		-		CM	☐ ☐	
3	Swiftsure MEQ	7	20:45	DE	MOR		48° 30.937	124° 56.170	75		-		CM	☐ ☐	
4	Swiftsure MEQ	7	21:16	BE	CTD		48° 31.010	124° 56.000	74		-		CM CO	☐ ☐	
			21:18	BO			° 31.015	° 55.990		68	-			☐ ☐	
			21:19	EN			° 31.016	° 56.002			-			☐ ☐	
5	Swiftsure Shelf	8	01:06	RE	MOR		48° 33.739	124° 49.379	91		-		CM	☐ ☐	
6	Swiftsure Shelf	8	02:11	DE	MOR		48° 33.742	124° 49.383	90		-		CM	☐ ☐	
7	Swiftsure Shelf	8	02:45	BE	CTD		48° 33.739	124° 49.643	90		-		DC	☐ ☐	
			02:47	BO			48° 33.750	124° 49.612		79	-			☐ ☐	
			02:49	EN			48° 33.758	124° 49.694			-			☐ ☐	
8	Swiftsure Canyon	8	15:08	RE	MOR		48° 30.851	124° 49.783	216		-		CM	☐ ☐	
9	Swiftsure Canyon	8	16:43	DE	MOR		48° 30.845	124° 49.786	215		-		CM	☐ ☐	
10	Swiftsure Canyon	8	17:14	BE	CTD		48° 30.865	124° 49.759	219		-		CM CO	☐ ☐	inconsistent descent rate
			17:19	BO			° 30.896	° 49.770		206	-			☐ ☐	
			17:24	EN			° 30.968	° 49.864			-			☐ ☐	
11	Swiftsure ICZ	8	19:21	DE	MOR		48° 33.125	125° 00.432	43		-		CM	☐ ☐	

Event Type:

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SET = Fish Set

LOOP = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
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Bottle Firing Method:

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Time Code:

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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 OCTOBER				Year 2021			Vessel VECTOR			Cruise ID 2021-018						
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/Fl Cleaned	Comments	
							Latitude	Longitude								
12	Swiftsure 152	8	19:47	BE	CTD		48° 33.272	125° 00.653	43		-		CM Co	☐		
			19:48	BO			° 33.295	° 00.686		40	-			☐		
			19:49	EN			° 33.318	° 00.720			-			☐		
13	Swift-13	8	20:43	RE	MOR		48° 29.575	124° 57.096	93		-			☐		
14	Swift-12	8	21:10	RE	MOR		48° 30.306	124° 56.608	84		-			☐		
15	Swift-10	8	21:37	RE	MOR		48° 32.930	124° 54.926	71		-			☐		
16	Swift-11	8	22:05	RE	MOR		48° 32.049	124° 55.483	70		-			☐		
17	Swift-9	8	22:31	RE	MOR		48° 33.669	124° 54.501	72		-			☐		
18	Swift-8	8	22:51	RE	MOR		48° 34.462	124° 54.088	71		-			☐		
19	Swift-7	8	23:12	RE	MOR		48° 35.217	124° 53.551	73		-			☐		
20	Swift-6	8	23:31	RE	MOR		48° 35.977	124° 53.161	65		-			☐		
21	Swift-5	8	23:49	RE	MOR		48° 36.702	124° 52.711	57		-			☐		
22	Swift-4	9	00:42	RE	MOR		48° 37.522	124° 52.362	51		-			☐		
23	Swift-3	9	01:00	RE	MOR		48° 38.253	124° 51.867	45		-			☐		
24	Swift-2	9	01:21	RE	MOR		48° 39.044	124° 51.428	23		-			☐		
25	Swift-1	9	01:39	RE	MOR		48° 39.551	124° 50.968	17		-			☐		
26	Nitrat	9	02:21	BE	CTD		48° 36.252	124° 55.870	61		-		DC	☐		
			02:22	BO			° 36.257	° 55.874		54	-			☐		
			02:24	EN			° 36.257	° 55.882			-			☐		
CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products																

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Month <u>October</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-018</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
27	JDF27	9	05:15	BE	CTD		48°30.800	124°48.358	220		-		de	☐ ☐	
			05:20	BO			°30.878	°48.431		214	-			☐ ☐	
			05:24	EN			°30.884	°48.498			-			☐ ☐	
28	JDF28	9	06:30	BE	CTD		48°30.486	124°39.684	230		-		de	☐ ☐	
			06:35	BO			°30.500	°39.804		225	-			☐ ☐	
			06:39	EN			°30.516	°39.858			-			☐ ☐	
29	JDF29	9	07:39	BE	CTD		48°30.241	124°31.183	171		-		de	☐ ☐	
			07:43	BO			°30.247	°31.201		164	-			☐ ☐	
			07:46	EN			°30.256	°31.208			-			☐ ☐	
30	JDF30	9	08:48	BE	CTD		48°27.497	124°21.852	142		-		DC	☐ ☐	
			08:51	BO			°27.475	°21.854		140	-			☐ ☐	
			08:53	EN			°27.452	°21.864			-			☐ ☐	
31	JDF31	9	09:46	BE	CTD		48°24.965	124°12.367	120		-		DC	☐ ☐	
			09:48	BO			°24.956	°12.341		111	-			☐ ☐	
			09:50	EN			°24.946	°12.316			-			☐ ☐	
32	JDF32	9	10:51	BE	CTD		48°22.169	124°1.231	120		-		DC	☐ ☐	
			10:53	BO			°22.166	°1.175		114	-			☐ ☐	
			10:55	EN			°22.162	°1.124			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Month <u>October</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-018</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							
33	JDF33	9	11:43	BE	CTD		48°20.027	124°51.650	143		-		DC	☐ ☐	
			11:46	BO			°19.991	°51.605		135	-			☐ ☐	
			11:48	EN			°19.973	°51.581			-			☐ ☐	
34	JDF34	9	12:48	BE	CTD		48°17.587	123°39.386	163		-		DC	☐ ☐	
			12:51	BO			°17.602	°39.311		157	-			☐ ☐	
			12:53	EN			°17.626	°39.222			-			☐ ☐	
35	Port Renfrew	9	15:47	RE	MOR		48°30.279	124°31.044	168		-		CM	☐ ☐	
36	Port Renfrew	9	19:16	DE	MOR		48°30.281	124°31.057	168		-		CM	☐ ☐	
37	Port Renfrew	9	19:42	BE	CTD		48°30.455	124°31.100	161		-		CM CO	☐ ☐	
			19:45	BO			°30.458	°31.115		152	-			☐ ☐	
			19:48	EN			°30.456	°31.122			-			☐ ☐	
38	Jordan River	9	21:59	RE	MOR		48°23.792	124°08.036	120		-		CM	☐ ☐	
39	Jordan River	9	23:48	DE	MOR		48°23.789	124°08.031	120		-		CM	☐ ☐	
40	Jordan River	10	00:05	BE	CTD		°23.707	°08.107	124		-		CM	☐ ☐	
			00:08	BO			°23.688	°08.102		117	-			☐ ☐	
			00:10	EN			°23.674	°08.096			-			☐ ☐	
41	JDF41	10	01:00	BE	CTD		48°24.821	124°12.804	128		-		CM CO	☐ ☐	
			01:02	BO			°24.814	°12.815		121	-			☐ ☐	
			01:05	EN			°24.812	°12.833			-			☐ ☐	

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

Event Type:

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Notes:

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Month <u>OCTOBER</u>				Year <u>2021</u>		Vessel <u>Vector</u>				Cruise ID <u>2021-018</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							
42	JDF42	10	02:17	BE	CTD		48° 21.805	124° 0.368	122		-		DC	☐ ☐	
			02:19	BO			° 21.798	° 0.371		115	-			☐ ☐	
			02:22	EN			° 21.796	° 0.372			-			☐ ☐	
43	JDF43	10	03:30	BE	CTD		48° 19.699	123° 49.410	160		-		DC	☐ ☐	
			03:33	BO			° 19.706	° 49.475		153	-			☐ ☐	
			03:36	EN			° 19.721	° 49.540			-			☐ ☐	
44	JDF44	10	04:51	BE	CTD		48° 17.058	123° 37.568	185		-		DC	☐ ☐	
			05:00	BO			° 17.092	° 37.655		177	-			☐ ☐	
			05:04	EN			° 17.122	° 37.760			-			☐ ☐	
45	JDF45	10	07:33	BE	CTD		48° 20.632	123° 22.747	40		-		DC	☐ ☐	Missed previous CTD cast due to weather.
			07:34	BO			° 20.634	° 22.756		33	-			☐ ☐	
			07:35	EN			° 20.632	° 22.787			-			☐ ☐	
46	JDF46	10	09:08	BE	CTD		48° 23.317	123° 11.173	72		-		DC	☐ ☐	
			09:09	BO			° 23.299	° 11.176		64	-			☐ ☐	
			09:10	EN			° 23.274	° 11.186			-			☐ ☐	
47	HS47	10	10:33	BE	CTD		48° 30.625	123° 9.797	282		-		DC	☐ ☐	
			10:38	BO			° 30.630	° 9.772		274	-			☐ ☐	
			10:42	EN			° 30.654	° 9.766			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Month <u>October</u>				Year <u>2021</u>			Vessel <u>Vector</u>				Cruise ID <u>2021-018</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
48	HS48	10	12:11	BE	CTD		48° 38.411	123° 12.712	234		-		DC	☐ ☐	
			12:15	BO			° 38.410	° 12.696		222	-			☐ ☐	
			12:19	EN			° 38.447	° 12.733			-			☐ ☐	
49	BP49	10	13:35	BE	CTD		48° 43.886	123° 6.222	150		-		DC	☐ ☐	data archive
			13:37	BO			° 43.924	° 6.175			-			☐ ☐	station "HS49"
			13:39	EN			° 43.912	° 6.121			-			☐ ☐	Corrected to BP49
50	BP50	10	14:14	BE	CTD		48° 46.531	123° 3.514	118		-		PVB	☐ ☐	
			14:16	BO			° 46.564	° 3.496		115	-			☐ ☐	
			14:18	EN			° 46.574	° 3.448			-			☐ ☐	
51	East Point	10	14:45	RE	MOR		48° 46.560	123° 04.161	85		-		CM	☐ ☐	
52	East Point	10	17:12	DE	MOR		48° 46.587	123° 04.179	84		-		CM	☐ ☐	
53	East Point	10	17:31	BE	CTD		48° 46.441	123° 04.148	128		-		CM CO	☐ ☐	depth jumped to 182m paused at 124m
			17:36	BO			° 46.405	° 04.238	182	186	-			☐ ☐	until 17:35:10 & then started descent again
			17:39	EN			° 46.378	° 04.297			-			☐ ☐	
54	Boundary Pass	10	18:10	RE	MOR		48° 44.019	123° 08.717	174		-		CM	☐ ☐	
55	Boundary Pass	10	21:05	DE	MOR		48° 44.025	123° 08.724	175		-		CM	☐ ☐	
56	Boundary Pass	10	21:43	BE	CTD		48° 44.866	123° 09.018	133		-		CM CO	☐ ☐	
			21:46	BO			° 44.814	° 09.131		130	-			☐ ☐	
			21:48	EN			° 44.902	° 09.209			-			☐ ☐	

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Month <u>OCTOBER</u>				Year <u>2021</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2021-018</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							
57	Swanson Channel	10	22:41	RE	MOR		48°44.358	123°15.453	72		-		CM	☐ ☐	
58	Swanson Channel	11	01:35	DE	MOR		48°44.362	123°15.460	72		-		CM	☐ ☐	
59	Swanson Channel	11	02:01	BE	CTD		48°44.388	123°15.301	73		-		DC	☐ ☐	
			02:02	BO			°44.378	°15.272		71	-			☐ ☐	
			02:04	EN			°44.380	°15.246			-			☐ ☐	
60	SC60	11	02:54	BE	CTD		48°45.985	123°20.077	77		-		DC	☐ ☐	
			02:56	BO			°45.984	°20.059		75	-			☐ ☐	
			02:57	EN			°45.979	°20.032			-			☐ ☐	
61	BP61	11	04:09	BE	CTD		48°44.429	123°7.126	133		-		DC	☐ ☐	
			04:11	BO			°44.438	°7.177		128	-			☐ ☐	
			04:14	EN			°44.454	°7.237			-			☐ ☐	
62	SOG62	11	05:22	BE	CTD		48°48.869	122°59.552	221		-		DC	☐ ☐	
			05:26	BO			°48.841	°59.429		205	-			☐ ☐	
			05:29	EN			°48.865	°59.270			-			☐ ☐	
63	SOG63	11	06:37	BE	CTD		48°51.194	123°8.070	156		-		DC	☐ ☐	
			06:39	BO			°51.174	°8.044		151	-			☐ ☐	
			06:42	EN			°51.144	°8.011			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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>October</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-018</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							
64	SOGS-star 64	11	08:01	BE	CTD		48°55.044	123°18.452	186		-		DC	☐ ☐	
			08:04	BO			°54.994	°18.390		184	-			☐ ☐	
			08:07	EN			°54.918	°18.322			-			☐ ☐	
65	SOGS-star 65	11	09:44	BE	CTD		49°4.250	123°24.368	268		-		DC	☐ ☐	
			09:48	BO			°4.186	°24.330		257	-			☐ ☐	
			09:53	EN			°4.164	°24.324			-			☐ ☐	
66	SOGS-star 66	11	11:02	BE	CTD		48°55.958	123°24.056	105		-		DC	☐ ☐	computer froze
			11:03	BO			°55.964	°24.024		100	-			☐ ☐	needed restart
			11:05	EN			°55.973	°23.986			-			☐ ☐	-docking station needed re-boot
67	SOGS-star 67	11	11:32	BE	CTD		48°56.971	123°26.641	86		-		DC	☐ ☐	
			11:34	BO			°56.950	°26.654		77	-			☐ ☐	
			11:35	EN			°56.929	°26.660			-			☐ ☐	
68	SOGS-star 68	11	13:00	BE	CTD		49°2.563	123°18.276	143		-		DC	☐ ☐	
			13:03	BO			°2.569	°18.269		135	-			☐ ☐	
			13:05	EN			°2.562	°18.268			-			☐ ☐	
69	SOGS-star 69	11	13:53	BE	CTD		48°58.715	123°15.971	158		-		DC	☐ ☐	
			13:56	BO			°58.708	°15.960		150	-			☐ ☐	
			13:59	EN			°58.698	°15.958			-			☐ ☐	
			:				°	°			-			☐ ☐	

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 October			Year 2021			Vessel Vector			Cruise ID 2021-018						
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
70	SOGS-star 70	11	15:23	BE	CTD		48°58.824	123°30.983	67		-		CM	☐	depth recorded as 79 in file - bridge
			15:25	BO			°58.824	°30.979		62	-			☐	was having trouble getting an initial depth reading
			15:26	EN			°58.825	°30.976			-			☐	
71	SOGS-star 71	11	16:01	BE	CTD		49°02.400	123°30.037	300		-		CM	☐	16:03:40 20° lead to port continues w/lead throughout cast
			16:06	BO			°02.384	°29.921		291	-			☐	
			16:11	EN			°02.416	°29.862			-			☐	
72	SOGS	11	17:06	RE	MOR		48°58.800	123°24.258	234		-		CM	☐	
73	SOGS	11	19:59	DE	MOR		48°58.798	123°24.259	245		-			☐	
74	SOGS	11	20:31	BE	CTD		48°58.675	123°24.266	236		-		PUB	☐	
			20:35	BO			°58.608	°24.312		225	-			☐	
			20:39	EN			°58.532	°24.314			-			☐	
75	SOGN	11	22:32	RE	MOR		49°11.573	123°20.802	193		-		CM	☐	
76	SOGN	12	01:13	DE	MOR		49°11.572	123°20.801	193		-		CM	☐	
77	SOGN	12	01:36	BE	CTD		49°11.606	123°20.675	190		-		CM co	☐	
			01:39	BO			°11.603	°20.681		187	-			☐	
			01:43	EN			°11.596	°20.693			-			☐	
78	SOG78	12	02:14	BE	CTD		49°15.053	123°20.488	213		-		DC	☐	
			02:17	BO			°15.064	°20.495		206	-			☐	
			02:21	EN			°15.060	°20.510			-			☐	

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>October</u>				Year <u>2021</u>			Vessel <u>Vector</u>				Cruise ID <u>2021-018</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
79	SOG79	12	03:26	BE	CTD		49° 6.593	123° 24.529	243		-		DC	☐ ☐	
			03:30	BO			° 6.553	° 24.586		234	-			☐ ☐	
			03:34	EN			° 6.504	° 24.617			-			☐ ☐	
80	SOG80	12	04:41	BE	CTD		48° 57.827	123° 22.285	218		-		DC	☐ ☐	
			04:45	BO			° 57.811	° 22.232		212	-			☐ ☐	
			04:49	EN			° 57.790	° 22.202			-			☐ ☐	
81	SOG81	12	05:53	BE	CTD		48° 52.342	123° 10.306	145		-		DC	☐ ☐	
			05:56	BO			° 52.301	° 10.278		139	-			☐ ☐	
			05:58	EN			° 52.249	° 10.218			-			☐ ☐	
82	BP 82	12	07:06	BE	CTD		48° 46.750	123° 2.543	198		-		DC	☐ ☐	
			07:10	BO			° 46.781	° 2.528		187	-			☐ ☐	
			07:13	EN			° 46.811	° 2.515			-			☐ ☐	
83	BP 83	12	8:40	BE	CTD		48° 42.461	123° 16.694	140		-		DC	☐ ☐	strong current
			8:42	BO			° 42.464	° 16.793		130	-			☐ ☐	
			8:44	EN			° 42.462	° 16.862			-			☐ ☐	
84	SC 84	12	10:12	BE	CTD		48° 41.362	123° 16.267	276		-		DC	☐ ☐	strong current
			10:16	BO			° 41.302	° 16.354		249	-			☐ ☐	
			10:20	EN			° 41.239	° 16.387			-			☐ ☐	
			:				°	°			-			☐ ☐	

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>October</u>			Year <u>2021</u>		Vessel <u>Vector</u>		Cruise ID <u>2021-018</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							
85	HS85	12	11:25	BE	CTD		48° 31.790	123° 13.393	150		-		DC	☐	
			11:28	BO			° 31.788	° 13.384		141	-			☐	
			11:30	EN			° 31.776	° 13.361			-			☐	
86	HS86	12	12:36	BE	CTD		48° 24.737	123° 13.272	46		-		DC	☐	strong current
			12:36	BO			° 24.734	° 13.247		41	-			☐	
			12:37	EN			° 24.743	° 13.218			-			☐	
87	HS87	12	13:49	BE	CTD		48° 22.886	123° 21.388	95		-		DC	☐	
			13:51	BO			° 22.873	° 21.343		89	-			☐	
			13:52	EN			° 22.862	° 21.290			-			☐	
88	HS88	12	14:59	BE	CTD		° 18.431	° 29.076	113		-		CM	☐	
			15:01	BO			° 18.425	° 29.083		108	-			☐	
			15:03	EN			° 18.414	° 29.069			-			☐	
89	SDF89	12	16:16				48° 17.365	123° 40.045	176		-		PVB	☐	B-10
			16:19				° 17.334	° 39.972		170	-			☐	
			16:22				° 17.302	° 39.899			-			☐	
90	Sooke	12	16:48	RE	MOR		48° 17.358	123° 39.090	163		-		CM	☐	
91	Sooke	12	18:33	DE	MOR		48° 17.359	123° 39.097	164		-		CM	☐	
			:				°	°			-			☐	
			:				°	°			-			☐	

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
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>OCTOBER</u>				Year <u>2021</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2021-018</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
92	Sooke	12	20:11	BE	CTD		48°17.370	123°38.931	167		-		PVB/CM	☐ ☐	
			20:14	BO			°17.356	°38.820		159	-			☐ ☐	
			20:18	EN			°17.338	°38.834			-			☐ ☐	
93	Haro Strait	12	23:48	RE	MOR		48°29.757	123°11.510	234		-			☐ ☐	
94	Haro Strait	13	02:06	DE	MOR		48°29.781	123°11.504	234		-			☐ ☐	
95	Haro Strait	13	02:26	BE	CTD		48°29.980	°11.800	231		-		DC	☐ ☐	
			02:30	BO			°29.154	°11.833		213	-			☐ ☐	
			02:35	EN			°29.358	°11.886			-			☐ ☐	
96	BPstar 96	13	04:15	BE	CTD		48°41.935	123°16.261	233		-		DC	☐ ☐	
			04:19	BO			°41.891	°16.247			-			☐ ☐	
			04:23	EN			°41.813	°16.270		231	-			☐ ☐	
97	BPstar 97	13	05:57	BE	CTD		48°45.650	123°3.761	196		-		DC	☐ ☐	
			06:01	BO			°45.634	°3.805		191	-			☐ ☐	
			06:04	EN			°45.596	°3.863			-			☐ ☐	
98	BPstar 98	13	06:36	BE	CTD		48°43.762	123°8.670	190		-		DC	☐ ☐	
			06:39	BO			°43.733	°8.758		175	-			☐ ☐	
			06:42	EN			°43.660	°8.844			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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
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>October</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-018</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
99	BPstar99	13	07:01	BE	CTD		48° 45.254	123° 9.854	133		-		DC	☐ ☐	
			07:03	BO			° 45.277	° 9.875		125	-			☐ ☐	
			07:04	EN			° 45.300	° 9.899			-			☐ ☐	
100	BPstar100	13	07:28	BE	CTD		48° 45.537	123° 10.325	299		-		DC	☐ ☐	
			07:32	BO			° 45.531	° 10.525		320	-			☐ ☐	
			07:37	EN			° 45.13	° 10.729			-			☐ ☐	
101	BPstar101	13	08:03	BE	CTD		48° 45.284	123° 9.149	105		-		DC	☐ ☐	
			08:04	BO			° 45.296	° 9.152		98	-			☐ ☐	
			08:06	EN			° 45.317	° 9.160			-			☐ ☐	
102	SCstar102	13	08:39	BE	CTD		48° 43.290	123° 13.488	288		-		DC	☐ ☐	
			08:44	BO			° 43.321	° 13.541		280	-			☐ ☐	
			08:48	EN			° 43.357	° 13.622			-			☐ ☐	
103	SCstar103	13	09:30	BE	CTD		48° 45.086	123° 22.169	38		-		DC	☐ ☐	
			09:30	BO			° 45.082	° 22.175		33	-			☐ ☐	
			09:31	EN			° 45.076	° 22.190			-			☐ ☐	
104	SCstar104	13	10:41	BE	CTD		48° 39.200	123° 15.959	114		-		DC	☐ ☐	
			10:42	BO			° 39.187	° 15.932		112	-			☐ ☐	
			10:44	EN			° 39.164	° 15.911			-			☐ ☐	
			:				°	°			-			☐ ☐	

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>October</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-018</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
105	SCstar105	13	11:59	BE	CTD		48° 46.410	123° 21.007	59		-		DC	☐ ☐	
			12:00	BO			° 46.403	° 21.001		52	-			☐ ☐	
			12:01	EN			° 46.393	° 20.994			-			☐ ☐	
106	SCstar106	13	12:44	BE	CTD		48° 43.162	123° 16.600	177		-		DC	☐ ☐	
			12:48	BO			° 43.163	° 16.637		167	-			☐ ☐	
			12:51	EN			° 43.170	° 16.686			-			☐ ☐	
107	BP107	13	14:44	BE	CTD		48° 43.354	123° 11.960	275		-		CM CO	☐ ☐	
			14:48	BO			° 43.363	° 11.879		274	-			☐ ☐	
			14:53	EN			° 43.404	° 11.696			-			☐ ☐	
108	BP108	13	15:44	BE			48° 46.600	123° 03.914	109		-		PVB	☐ ☐	Depth rapidly decreasing
			15:46	BO			° 46.612	° 03.883		89	-			☐ ☐	
			15:47	EN			° 46.624	° 03.857			-			☐ ☐	
109	SOG109	13	17:28	BE			48° 51.370	123° 08.933	156		-		PVB	☐ ☐	B-5
			17:31	BO			° 51.386	° 08.965		152	-			☐ ☐	
			17:33	EN			° 51.408	° 08.994			-			☐ ☐	
110	SOG110	13	18:39	BE	CTD		48° 56.719	123° 19.924	196		-		CM CO	☐ ☐	
			18:42	BO			° 56.707	° 19.992		195	-			☐ ☐	
			18:45	EN			° 56.700	° 20.068			-			☐ ☐	
			:				°	°			-			☐ ☐	

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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 Version: 20 April 2016

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>October</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-018</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
111	SOG 111	13	19:42	BE	CTD		49° 02.366	123° 27.286	330		-		PVB	☐ ☐	
			19:49	BO			° 02.360	° 27.400		328	-			☐ ☐	
			19:54	EN			° 02.384	° 27.469			-			☐ ☐	
112	SOGN_star 112	13	20:25	BE	CTD		49° 05.926	123° 29.808	349		-		CM	☐ ☐	
			20:33	BO			° 05.962	° 29.963		347	-			☐ ☐	
			20:38	EN			° 05.976	° 30.049			-			☐ ☐	
113	SOGN_star 113	13	22:04	BE	CTD		49° 13.724	123° 18.320	130		-		CM	☐ ☐	
			22:07	BO			° 13.696	° 18.328		127	-			☐ ☐	
			22:09	EN			° 13.660	° 18.320			-			☐ ☐	
114	SOGN_star 114	13	22:33	BE	CTD		49° 11.542	123° 18.743	123		-		CM	☐ ☐	
			22:35	BO			° 11.538	° 18.768		125	-			☐ ☐	
			22:37	EN			° 11.534	° 18.779			-			☐ ☐	
115	SOGN_star 115	13	23:46	BE	CTD		49° 11.662	123° 33.527	353		-		CM	☐ ☐	
			23:52	BO			° 11.746	° 33.580		353	-			☐ ☐	
			23:58	EN			° 11.842	° 33.595			-			☐ ☐	
116	SOGN_star 116	14	00:44	BE	CTD		49° 17.417	123° 29.382	173		-			☐ ☐	
			00:48	BO			° 17.431	° 29.357		165	-			☐ ☐	
			00:50	EN			° 17.437	° 29.335			-			☐ ☐	
			:				°	°			-			☐ ☐	

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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117	SOGN ^{Star} ₁₁₇	14	02:05	BE	CTD		49° 9.988	123° 18.906	123		-		DC	☐ ☐	
			02:06	BO			° 9.983	° 18.901		115	-			☐ ☐	
			02:08	EN			° 9.974	° 18.901			-			☐ ☐	
118	SOGN ^{Star} ₁₁₈	14	03:14	BE	CTD		49° 18.805	123° 20.790	182		-		DC	☐ ☐	
			03:17	BO			° 18.894	° 20.821		174	-			☐ ☐	
			03:21	EN			° 18.857	° 20.021			-			☐ ☐	
119	SOGN ^{Star} ₁₁₉	14	05:07	BE	CTD		49° 4.067	123° 21.050	195		-		DC	☐ ☐	
			05:11	BO			° 4.025	° 21.114		189	-			☐ ☐	
			05:14	EN			° 3.968	° 21.192			-			☐ ☐	
120	SOGS ^{Star} ₁₂₀	14	05:33	BE	CTD		49° 4.382	123° 24.366	272		-		DC	☐ ☐	
			05:39	BO			° 4.529	° 24.626		262	-			☐ ☐	
			05:46	EN			° 4.625	° 24.906			-			☐ ☐	
121	SOGS ^{Star} ₁₂₁	14	06:49	BE	CTD		48° 56.074	123° 23.989	125		-		DC	☐ ☐	
			06:51	BO			° 56.076	° 23.966		125	-			☐ ☐	
			06:53	EN			° 56.081	° 23.942			-			☐ ☐	
122	SOGS ^{Star} ₁₂₂	14	07:53	BE	CTD		49° 2.579	123° 30.209	304		-		DC	☐ ☐	
			07:56	BO			° 2.639	° 30.276		298	-			☐ ☐	
			08:01	EN			° 2.657	° 30.277			-			☐ ☐	
			:				°	°			-			☐ ☐	

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