

**** 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: WP Gamer laptop (acer)

Data acquisition program: Seasave

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

Primary CTD

Make: SBE model: 9+ serial number: 506

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: 3X s/n: 3949 P S or NO pump?

Fluorometer: Model _____ Cable gain: _____ s/n: 1119 P, S or NO pump?

Oxygen sensor: SBE Model: 43 s/n: ~~0117~~ P, S or NO pump?

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

Other sensors: Valport Altimeter s/n: 76341 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?

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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)

Jordy

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Month <u>May</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-017</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	SI	30	01:50	BE	CTD		48° 39.020	123° 29.909	178		-		SR	☐ ☐	
			01:55	BO			° 39.036	° 29.918		150	-			☐ ☐	
			01:58	EN			° 39.049	° 29.924			-			☐ ☐	
4	Swiftsure ISZ	30	19:23	BE	CTD		48° 33.204	125° 00.408	36		-		CM	☐ ☐	
			:24	BO			° 33.204	° 00.403		31	-			☐ ☐	
			:25	EN			° 33.205	° 00.401			-			☐ ☐	
2	Swiftsure ISZ	30	16:39	RE	MOR		48° 33.120	125° 00.436	41		-		CO	☐ ☐	
3	Swiftsure ISZ	30	18:31	DE	MOR		48° 33.121	125° 00.431	39		-		CO	☐ ☐	
5	La Perouse	30	23:07	RE	MOR		48° 23.085	125° 48.326	151		-		CO	☐ ☐	
6	La Perouse	31	01:57	DE	MOR		48° 23.069	125° 48.294	151		-		CO	☐ ☐	
7	La Perouse	31	02:24	BE	CTD		48° 23.032	125° 48.244	152		-		SR	☐ ☐	
			02:27	BO			° 23.042	° 48.230		147	-			☐ ☐	
			02:30	EN			° 23.046	° 48.209			-			☐ ☐	
8	LPB 1	31	03:39	BE	CTD		48° 24.763	125° 34.081	133		-		SR	☐ ☐	
			03:42	BO			° 24.755	° 34.022		128	-			☐ ☐	
			03:44	EN			° 24.748	° 33.973			-			☐ ☐	
9	LPB 2	31	04:50	BE	CTD		48° 26.674	125° 20.168	170		-		SR	☐ ☐	
			04:54	BO			° 26.683	° 20.117		16	-			☐ ☐	
			04:56	EN			° 26.700	° 20.072			-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
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ROS = CTD in Rosette
SET = Fish Set

LOOP = Sea Water Loop

MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter
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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>May</u>				Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-017</u>					
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10	LPB3	31	06:00	BE	CTD		48°28.184	125°6.479	184		-		SR	☐ ☐	
			06:04	BO			°28.177	°6.404		184	-			☐ ☐	
			06:07	EN			°28.163	°6.360			-			☐ ☐	
11	Swiftsure1	31	07:20	BE	CTD		48°33.107	125°00.538	43		-			☐ ☐	
			07:22	BO			°33.095	°00.576		38	-		SR	☐ ☐	
			07:23	EN			°33.088	°00.607			-			☐ ☐	
12	JDF1	31	08:36	BE	CTD		48°33.220	124°49.021	123		-		SR	☐ ☐	
			08:38	BO			°33.254	°49.050		118	-			☐ ☐	
			08:41	EN			°33.301	°49.058			-			☐ ☐	
13	JDF2	31	09:57	BE	CTD		48°31.265	124°36.092	173		-		SR	☐ ☐	
			10:00	BO			°31.271	°36.071		170	-			☐ ☐	
			10:04	EN			°31.298	°36.067			-			☐ ☐	
14	JDF3	31	11:14	BE	CTD		48°28.535	124°24.901	155		-		SR	☐ ☐	
			11:17	BO			°28.542	°24.932		151	-			☐ ☐	
			11:20	EN			°28.549	°24.971			-			☐ ☐	
15	Swiftsure MEQ	31	15:30	RE	MOR		48°30.981	124°56.062	72		-		CM	☐ ☐	
16	Swiftsure MEQ	31	17:51	DE	MOR		48°30.924	124°56.180	73		-		CM	☐ ☐	
17	Sooke	01	20:00	RE	MOR		48°17.370	123°39.203	166		-		CM	☐ ☐	
18	Sooke	01	21:44	DE	MOR		48°17.358	123°39.090	163		-		CM	☐ ☐	

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Evan

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Month <u>May June</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021 - 017</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							
19	Sooke	01	22:27	BE	CTD		48° 17.413	123° 39.012	160		-		CM, CO	☐ ☐	
			:30	BO			° 17.408	° 39.016		159	-			☐ ☐	
			:34	EN			° 17.406	° 39.010			-			☐ ☐	
20	JDF20	01	23:41	BE	CTD		48° 18.870	123° 45.948	170		-		CM, CO	☐ ☐	
			:44	BO			° 18.865	° 45.944		169	-			☐ ☐	
			:48	EN			° 18.858	° 45.934			-			☐ ☐	
21	JDF21	02	00:55	BE	CTD		48° 21.326	123° 57.097	125		-		CM, CO	☐ ☐	
			:58	BO			° 21.332	° 57.132		122	-			☐ ☐	
			01:00	EN			° 21.332	° 57.143			-			☐ ☐	
22	JDF22	02	02:08	BE	CTD		48° 23.863	124° 8.170	120		-		SR	☐ ☐	
			02:10	BO			° 23.870	° 8.148		118	-			☐ ☐	
			02:13	EN			° 23.876	° 8.171			-			☐ ☐	
23	JDF23	02	03:19	BE	CTD		48° 26.768	124° 18.808	121		-		SR	☐ ☐	
			03:22	BO			° 26.761	° 18.803		120	-			☐ ☐	
			03:25	EN			° 26.750	° 18.776			-			☐ ☐	
24	JDF24	02	04:31	BE	CTD		48° 29.706	124° 29.153	168		-		SR	☐ ☐	
			04:35	BO			° 29.680	° 29.140		169	-			☐ ☐	
			04:	EN			° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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Notes:

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Evan

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Month <u>June</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-017</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
25	JDF25	02	05:46	BE	CTD		48°30.929	124°40.702	217		-		SR	☐ ☐	
			05:51	BO			°30.888	°40.751		216	-			☐ ☐	
			05:56	EN			°30.839	°40.752			-			☐ ☐	
26	JDF26	02	07:12	BE	CTD		48°30.823	124°55.397	80		-		SR	☐ ☐	
			07:14	BO			°30.800	°55.427			-			☐ ☐	
			07:16	EN			°30.778	°55.460			-			☐ ☐	
27	JDF27	02	08:38	BE	CTD		48°32.978	125°2.624	67		-		SR	☐ ☐	
			08:39	BO			°32.952	°2.664			-			☐ ☐	
			08:41	EN			°32.922	°2.711			-			☐ ☐	
28	JDF28	02	09:55	BE	CTD		48°33.294	124°50.789	113		-		SR	☐ ☐	
			09:58	BO			°33.300	°50.832			-			☐ ☐	
			10:01	EN			°33.304	°50.879			-			☐ ☐	
29	JDF29	02	11:16	BE	CTD		48°31.920	124°39.546	163		-		SR	☐ ☐	
			11:20	BO			°31.962	°39.612		157	-			☐ ☐	
			11:24	EN			°32.005	°39.673			-			☐ ☐	
30	JDF30	02	12:30	BE	CTD		48°30.593	124°32.852	176		-		SR	☐ ☐	
			12:34	BO			°30.594	°32.894		175	-			☐ ☐	
			12:39	EN			°30.594	°32.929			-			☐ ☐	
31	Swiftsure canyon	02	14:51	RE	MOR		48°30.846	124°49.784	219		-		CM	☐ ☐	

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Month <u>June</u>			Year <u>2021</u>			Vessel <u>Vector</u>				Cruise ID <u>2021-017</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/Fl Cleaned	Comments
32	Swiftsure Canyon	02	16:55	DE	MOR		48°30.851	124°49.783	216		-		CM	☐ ☐	
33	Swiftsure Canyon	02	17:25	BE	CTD		48°30.859	124°49.868	215		-		CM RB Co	☐ ☐	
			:29	BO			48°30.872	124°49.915		205	-			☐ ☐	
			:33	EN			°30.890	°49.967			-			☐ ☐	
34	Swiftsure Shelf	02	18:13	RE	MOR		48°33.738	124°49.381	91		-		Co	☐ ☐	
35	Bonilla Point	02	19:19	RE	MOR		48°34.231	124°45.076	97		-		CM	☐ ☐	
36	Bonilla Point	02	19:38	DE	MOR		48°34.222	124°45.070	83		-		RB	☐ ☐	
37	Bonilla Point	02	20:15	BE	CTD		48°34.255	124°45.175	84		-		RB	☐ ☐	
			20:16	BO			48°34.267	124°45.187		74	-			☐ ☐	
			20:18	EN			48°34.278	124°45.194			-			☐ ☐	
38	Swiftsure shelf	02	20:45	BE	CTD		48°33.737	124°49.495	90		-		Co RB	☐ ☐	
			20:47	BO			48°33.750	124°49.486	82	82	-			☐ ☐	
			20:48	EN			48°33.760	124°49.478			-			☐ ☐	
39	Swiftsure Shelf	02	22:16	DE	MOR		48°33.739	124°49.379	91		-		CM	☐ ☐	
40	JDF40	02	23:43	BE	CTD		48°31.114	124°53.795	78		-		CM, RB	☐ ☐	
			:45	BO			°31.146	°53.815		72	-			☐ ☐	
			:47	EN			°31.168	°53.825			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Notes:

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Month <u>June</u>				Year <u>2021</u>			Vessel <u>Vector</u>				Cruise ID <u>2021-017</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
41	JDF41	03	00:55	BE	CTD		48° 32.419	125° 03.709	99		-		CM, CO	☐ ☐	
			:57	BO			° 32.432	° 03.688		89	-			☐ ☐	
			:59	EN			° 32.446	° 03.677			-			☐ ☐	
42	JDF42	03	02:04	BE	CTD		48° 33.073	124° 50.542	119		-		SR	☐ ☐	
			02:07	BO			° 33.073	° 50.466		121	-			☐ ☐	
			02:09	EN			° 33.068	° 50.390			-			☐ ☐	
43	JDF43	03	03:14	BE	CTD		48° 31.392	124° 37.578	176		-		SR	☐ ☐	
			03:17	BO			° 31.391	° 37.576		174	-			☐ ☐	
			03:20	EN			° 31.391	° 37.574			-			☐ ☐	
44	JDF44	03	04:27	BE	CTD		48° 28.134	124° 23.729	153		-		SR	☐ ☐	
			04:30	BO			° 28.099	° 23.626		152	-			☐ ☐	
			04:33	EN			° 28.062	° 23.532			-			☐ ☐	
45	JDF45	03	05:52	BE	CTD		48° 23.518	124° 6.814	121		-		SR	☐ ☐	
			05:54	BO			° 23.488	° 6.761		118	-			☐ ☐	
			05:56	EN			° 23.461	° 6.602			-			☐ ☐	
46	JDF46	03	07:09	BE	CTD		48° 20.123	123° 51.776	140		-		SR	☐ ☐	
			07:12	BO			° 20.110	° 51.721		140	-			☐ ☐	
			07:14	EN			° 20.099	° 51.673			-			☐ ☐	
			:				°	°			-			☐ ☐	

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47	JDF47	03	08:26	BE	CTD		48°17.243	123°38.522	185		-		SR	☐ ☐	
			08:29	BO			°17.232	°38.574		182	-			☐ ☐	
			08:32	EN			°17.218	°38.591			-			☐ ☐	
48	JDF48	03	09:40	BE	CTD		48°18.830	123°45.684	172		-		SR	☐ ☐	
			09:44	BO			°18.840	°45.715		170	-			☐ ☐	
			09:46	EN			°18.857	°45.808			-			☐ ☐	
49	JDF49	03	11:09	BE	CTD		48°21.647	123°58.950	121		-		SR	☐ ☐	
			11:11	BO			°21.649	°59.071		121	-			☐ ☐	
			11:13	EN			°21.644	°59.135			-			☐ ☐	
50	JDF50	03	12:24	BE	CTD		48°25.151	124°13.110	118		-			☐ ☐	
			12:26	BO			°25.147	°13.159			-			☐ ☐	
			12:28	EN			°25.138	°13.190			-			☐ ☐	
51	Port Renfrew	03	14:40	RE	MOR		48°30.286	124°31.057	168		-		CO	☐ ☐	
52	Port Renfrew	03	19:19	DE	MOR		48°30.279	124°31.044		168	-		CM	☐ ☐	
53	Port Renfrew	03	19:55	BE	CTD		48°30.262	124°30.923	166		-		CM	☐ ☐	
			19:58	BO			°30.241	°30.984		159	-			☐ ☐	
			20:02	EN			°30.234	°30.974			-			☐ ☐	
			:	BE			°	°			-			☐ ☐	
			:	BO			°	°			-			☐ ☐	

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Month June			Year 2021			Vessel Vector				Cruise ID 2021-017					Page 8 of	
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	
54	Jordan River	03	22:03	BE	CTD		48° 23.755	124° 07.871	120		-		CO, CM	☐ ☐		
			22:05	BO			° 23.752	° 07.861		111	-			☐ ☐		
			22:07	EN			° 23.756	° 07.879			-			☐ ☐		
55	Jordan River	03	22:17	RE	MOR		48° 23.817	124° 07.941	119		-			☐ ☐		
56	Jordan River	03	23:42	DE	MOR		48° 23.792	124° 08.036	120		-		CM	☐ ☐		
57	JDF57	04	02:41	BE	CTD		48° 19.924	123° 50.834	148		-		SR	☐ ☐		
			02:44	BO			° 19.904	° 50.677		145	-			☐ ☐		
			02:47	EN			° 19.876	° 50.503			-			☐ ☐		
58	JDF58	04	03:56	BE	CTD		48° 16.846	123° 35.209	174		-		SR	☐ ☐		
			03:59	BO			° 16.837	° 35.162		171	-			☐ ☐		
			04:02	EN			° 16.838	° 35.173			-			☐ ☐		
59	JDF59	04	05:22	BE	CTD		48° 20.856	123° 24.763	92		-		SR	☐ ☐		
			05:24	BO			° 20.888	° 24.758		86	-			☐ ☐		
			05:26	EN			° 20.905	° 24.734			-			☐ ☐		
60	HS60	04	06:30	BE	CTD		48° 24.150	123° 11.812	78		-		SR	☐ ☐		
			06:32	BO			° 24.152	° 11.802			-			☐ ☐		
			06:34	EN			° 24.170	° 11.782			-			☐ ☐		
			:				°	°			-			☐ ☐		
			:				°	°			-			☐ ☐		

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
DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

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

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Month <u>June</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-017</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
61	HS61	04	07:53	BE	CTD		48°33.535	123°13.900	97		-		SR	☐ ☐	on a steep
			07:55	BO			°33.564	°13.868		110	-			☐ ☐	slope! bottom
			07:57	EN			°33.578	°13.854			-			☐ ☐	depth started @ 85m
62	HS62	04	09:09	BE	CTD		48°40.712	123°16.484	198		-		SR	☐ ☐	
			09:13	BO			°40.706	°16.484		197	-			☐ ☐	
			09:16	EN			°40.698	°16.482			-			☐ ☐	
63	HS63	04	10:29	BE	CTD		48°44.534	123°7.128	117		-		SR	☐ ☐	
			10:31	BO			°44.536	°7.148		122	-			☐ ☐	
			10:33	EN			°44.533	°7.158			-			☐ ☐	
64	HS64	04	11:52	BE	CTD		48°41.296	123°16.555	155		-		SR	☐ ☐	Depth kept
			11:56	BO			°41.285	°16.541		171	-			☐ ☐	increasing during
			11:59	EN			°41.262	°16.493			-			☐ ☐	the cast
65	HS65	04	12:47	BE	CTD		48°35.527	123°14.999	198		-		SR	☐ ☐	
			12:50	BO			°35.512	°14.998		197	-			☐ ☐	
			12:54	EN			°35.498	°14.983			-			☐ ☐	
66	Harv Strait	04	15:52	RE	MOR		48°29.675	123°11.661	229		-		CO	☐ ☐	
67	Harv Strait	04	17:39	DE	MOR		48°29.757	123°11.510	234		-		CO	☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
CTD = Standalone CTD
ROS = CTD in Rosette
SET = Fish Set

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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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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
68	Haro Strait	04	19:04	BE	CTD		48° 29.758	123° 11.463	234		-		CO	☐ ☐	
			19:08	BO			° 29.759	° 11.453		225	-			☐ ☐	
			19:12	EN			° 29.766	° 11.442			-			☐ ☐	
69	East Point	04	21:37	RE	MOR		48° 46.575	123° 04.154	84		-		CO	☐ ☐	
70	East Point	04	23:21	DE	MOR		48° 46.560	123° 04.161	85		-		CO	☐ ☐	
71	East Point	04	23:43	BE	CTD		48° 46.594	123° 04.206	83		-		CO	☐ ☐	
			23:44	BO			° 46.592	° 04.211		84	-			☐ ☐	
			23:46	EN			° 46.592	° 04.208			-			☐ ☐	
72	BP 72	05	00:56	BE	CTD		48° 42.008	123° 15.948	268		-		CM, RB	☐ ☐	
			01:01	BO			° 42.006	° 15.914		269	-			☐ ☐	
			01:05	EN			° 42.000	° 15.874			-			☐ ☐	
73	BP 73	05	02:14	BE	CTD		48° 43.870	123° 9.404	198		-		SR	☐ ☐	
			02:18	BO			° 43.895	° 9.421			-			☐ ☐	
			02:22	EN			° 43.922	° 9.402			-			☐ ☐	
74	BP 74	05	03:29	BE	CTD		48° 43.639	123° 13.297	224		-		SR	☐ ☐	
			03:33	BO			° 43.632	° 13.300		227	-			☐ ☐	
			03:36	EN			° 43.630	° 13.292			-			☐ ☐	
			:				°	°		327	-			☐ ☐	
			:				°	°			-			☐ ☐	

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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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
75	BP75	05	04:38	BE	CTD		48° 42.593	123° 14.263	327		-		SR	☐ ☐	
			04:44	BO			° 42.631	° 14.226		318	-			☐ ☐	
			04:49	EN			° 42.660	° 14.212			-			☐ ☐	
76	SC76	05	05:56	BE	CTD		48° 43.878	123° 15.692	114		-		SR	☐ ☐	
			05:58	BO			° 43.877	° 15.698		110	-			☐ ☐	
			06:00	EN			° 43.877	° 15.691			-			☐ ☐	
77	SC77	05	07:09	BE	CTD		48° 48.988	123° 20.696	86		-		SR	☐ ☐	
			07:11	BO			° 48.996	° 20.698		86	-			☐ ☐	
			07:13	EN			° 49.003	° 20.698			-			☐ ☐	
78	SC78	05	08:18	BE	CTD		48° 42.464	123° 22.242	57		-		SR	☐ ☐	
			08:19	BO			° 42.461	° 22.243		57	-			☐ ☐	
			08:20	EN			° 42.458	° 22.243			-			☐ ☐	
79	SC79	05	09:27	BE	CTD		48° 48.011	123° 20.347	134		-		SR	☐ ☐	
			09:30	BO			° 48.037	° 20.368		129	-			☐ ☐	
			09:32	EN			° 48.064	° 20.392			-			☐ ☐	
80	SC80	05	10:38	BE	CTD		48° 44.023	123° 23.962	54		-		SR	☐ ☐	
			10:39	BO			° 44.018	° 23.971			-			☐ ☐	
			10:40	EN			° 44.012	° 23.978			-			☐ ☐	
			:				°	°			-			☐ ☐	

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>June</u>			Year <u>2021</u>			Vessel <u>Vector</u>			Cruise ID <u>2021-017</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
81	SC81	05	11:46	BE	CTD		48° 47.231	123° 20.263	114		-		SR	☐ ☐	
			11:48	BO			° 47.212	° 20.276			-			☐ ☐	
			11:50	EN			° 47.189	° 20.291			-			☐ ☐	
82	SC82		12:48	BE	CTD		48° 45.152	123° 22.182	52		-		SR	☐ ☐	
			12:49	BO			° 45.157	° 22.190	54		-			☐ ☐	
			12:50	EN			° 45.163	° 22.196			-			☐ ☐	
83	Swanson	05	14:11	RE	MOR		48° 44.337	123° 15.334	73		-		CM	☐ ☐	
84	Swanson	05	16:16	DE	MOR		48° 44.358	123° 15.453	72		-		CM	☐ ☐	
85	Swanson	05	16:39	BE	CTD		48° 44.317	123° 15.434	74		-		CM RB	☐ ☐	
			16:41	BO			° 44.324	° 15.436	69		-			☐ ☐	
			16:43	EN			° 44.323	° 15.430			-			☐ ☐	
86	Boundary Pass	05	18:05	RE	MOR		48° 44.030	123° 08.735	176		-		CM	☐ ☐	
87	Boundary Pass	05	21:00	DE	MOR		48° 44.019	123° 08.717	174		-		CM	☐ ☐	
88	Boundary Pass	05	21:06	BE	CTD		48° 44.010	123° 08.810	176		-		CM RB	☐ ☐	
			21:10	BO			° 44.017	° 08.810	171		-			☐ ☐	
			21:13	EN			° 44.018	° 08.807			-			☐ ☐	
89	BPstar 89	05	23:22	BE			48° 45.340	123° 09.947	132	132	-		RB CM	☐ ☐	
			23:25	BO			48° 45.346	123° 09.941	129		-			☐ ☐	
			23:27	EN			48° 45.350	123° 09.940			-			☐ ☐	

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>June</u>				Year <u>2021</u>			Vessel <u>VECTOR</u>				Cruise ID <u>2021-017</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/Fl Cleaned	Comments
90	BPstar90	06	00:58	BE	CTD		48° 43.524	123° 10.493	320		-		CO, CM	☐ ☐	
			01:03	BO			° 43.493	° 10.580		321	-			☐ ☐	
			01:08	EN			° 43.429	° 10.672			-			☐ ☐	
91	BPstar91	06	02:13	BE	CTD		48° 45.730	123° 3.778	193		-		SR	☐ ☐	
			02:17	BO			° 45.700	° 3.904		202	-			☐ ☐	
			02:21	EN			° 45.694	° 4.025			-			☐ ☐	
92	BPstar92	06	03:32	BE	CTD		48° 42.128	123° 16.380	217		-		SR	☐ ☐	
			03:35	BO			° 42.109	° 16.392		212	-			☐ ☐	
			03:39	EN			° 42.103	° 16.394			-			☐ ☐	
93	BPstar93	06	04:41	BE	CTD		48° 45.330	123° 8.874	97		-		SR	☐ ☐	
			04:43	BO			° 45.329	° 8.878		96	-			☐ ☐	
			04:45	EN			° 45.332	° 8.875			-			☐ ☐	
94	SCstar94	06	06:05	BE	CTD		48° 46.464	123° 21.138	63		-		SR	☐ ☐	
			06:06	BO			° 46.468	° 21.145		59	-			☐ ☐	
			06:07	EN			° 46.468	° 21.151			-			☐ ☐	
95	SCstar95	06	07:34	BE	CTD		48° 45.155	123° 22.291	53		-		SR	☐ ☐	
			07:35	BO			° 45.151	° 22.282		51	-			☐ ☐	
			07:36	EN			° 45.149	° 22.284			-			☐ ☐	
			:				°	°			-			☐ ☐	

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
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 EN = End Time of Cast

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

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 MR = Messenger Release Time
 RE = Recover Mooring Time

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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/Fl Cleaned	Comments
96	SCstar96	06	08:56	BE	CTD		48° 39.179	123° 15.773	149		-		SR	☐ ☐	changed to SCstar96 in hex file
			08:58	BO			° 39.163	° 15.774		148	-			☐ ☐	
			09:00	EN			° 39.155	° 15.769			-			☐ ☐	
97	SCstar97	06	10:05	BE	CTD		48° 43.184	123° 16.681	176		-		SR	☐ ☐	
			10:08	BO			° 43.166	° 16.681		172	-			☐ ☐	
			10:11	EN			° 43.146	° 16.670			-			☐ ☐	
98	SCstar98	06	11:19	BE	CTD		48° 43.392	123° 13.427	275		-		SR	☐ ☐	
			11:24	BO			° 43.378	° 13.452		275	-			☐ ☐	
			11:29	EN			° 43.345	° 13.470			-			☐ ☐	
99	BP99	06	12:35	BE			48° 46.175	123° 4.762	188		-		SR	☐ ☐	
			12:39	BO			° 46.177	° 4.758			-			☐ ☐	
			12:42	EN			° 46.194	° 4.742			-			☐ ☐	
100	SOG S	06	16:00	RE	MOR		48° 58.751	123° 24.208	233		-			☐ ☐	
101	SOG S	06	17:32	DE	MOR		48° 58.800	123° 24.258	234		-			☐ ☐	
102	SOG S	06	18:24	BE	CTD		48° 58.735	123° 24.180	235	235	-			☐ ☐	
			18:28	BO			48° 58.738	123° 24.168		233	-		RB, CM	☐ ☐	
			18:32	EN			48° 58.742	123° 24.158			-			☐ ☐	
103	SOG N	06	22:42	RE	MOR		49° 11.572	123° 20.809	195	195	-		CM	☐ ☐	
104	SOG N	07	01:08	DE	MOR		49° 11.573	123° 20.802	193		-		CM	☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
 CTD = Standalone CTD
 ROS = CTD in Rosette
 SET = Fish Set

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 DRF = Drifter
 _____ = _____

Bottle Firing Method:

US = Up / Stop (default)
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Notes:

Time Code:

BE = Beginning Time of Cast
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 EN = End Time of Cast

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Month June				Year 2021			Vessel Vector			Cruise ID 2021-017					
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	SOG N	07	01:39	BE	CTD		49° 11.606	123° 20.678	193		-		CM RB	☐ ☐	
			01:42	BO			° 11.593	° 20.636		181	-			☐ ☐	
			01:46	EN			° 11.575	° 20.588			-			☐ ☐	
106	SOGstarN	07	02:52	BE	CTD		49° 17.436	123° 29.564	175		-		SR	☐ ☐	
			02:55	BO			° 17.435	° 29.573		169	-			☐ ☐	
			02:57	EN			° 17.432	° 29.593			-			☐ ☐	
107	SOGstarN	07	12:17	BE	CTD		49° 5.862	123° 29.648	350		-		SR	☐ ☐	
			12:23	BO			° 5.861	° 29.735		346	-			☐ ☐	
			12:29	EN			° 5.837	° 29.730			-			☐ ☐	
108	SOGNstar	07	14:44	BE	CTD		49° 11.592	123° 33.433	354		-		CO, RB	☐ ☐	
			14:49	BO			49° 11.609	123° 33.445		349	-			☐ ☐	
			14:55	EN			49° 11.598	123° 33.378			-			☐ ☐	
109	SOGSstar	07	16:55	BE	CTD		49° 04.348	123° 24.534	270		-		RB, CM	☐ ☐	
			16:59	BO			49° 04.343	123° 24.616		263	-			☐ ☐	
			17:04	EN			49° 04.309	123° 24.685			-			☐ ☐	
110	SOGSstar	07	18:16	BE	CTD		48° 55.795	123° 24.227	73		-		CM CO	☐ ☐	
			18:17	BO			° 55.793	° 24.217		69	-			☐ ☐	
			18:19	EN			° 55.788	° 24.210			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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
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Bottle Firing Method:

US = Up / Stop (default)
UN = Up / No stop
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Notes:

Time Code:

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Month June				Year 2021			Vessel Vector				Cruise ID 2021-017				
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							
111	SOG Sstar	07	19:23	BE	CTD		49°02.656	123°30.401	307		-		CM, RB	☐ ☐	
		07	:28	BO			49°02.662	123°30.403		300	-			☐ ☐	
		07	:34	EN			49°02.670	123°30.430			-			☐ ☐	
112	SOG Sstar	07	20:59	BE	CTD		49°55.225	123°18.851	188		-		CM RB	☐ ☐	
			21:03	BO			49°55.228	123°18.848		185	-			☐ ☐	
			21:06	EN			49°55.248	123°18.877			-			☐ ☐	
113	SOG Sstar	07	22:41	BE	CTD		49°58.793	123°18.434	187		-		CM, RB	☐ ☐	
			22:45	BO			49°58.818	123°18.484		184	-			☐ ☐	
			22:48	EN			49°58.826	123°18.502			-			☐ ☐	
114	SOG Sstar	07	23:50	BE	CTD		48°58.746	123°31.133	85		-		CM RB	☐ ☐	
			23:51	BO			°58.754	°31.122		85	-			☐ ☐	
			23:53	EN			°58.758	°31.109			-			☐ ☐	
115	SOG Sstar 115	08	01:13	BE	CTD		49°02.993	123°17.542	89		-		CO	☐ ☐	
			01:14	BO			°02.984	°17.544		89	-			☐ ☐	
			01:17	EN			°02.972	°17.539			-			☐ ☐	
116	SOG Sstar 116	08	02:27	BE	CTD		48°56.904	123°26.797	89		-		802	☐ ☐	
			02:29	BO			°56.906	°26.795		88	-			☐ ☐	
			02:31	EN			°56.910	°26.792			-			☐ ☐	
			:				°	°			-			☐ ☐	

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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
117	SOG117	08	03:34	BE	CTD		49° 4.570	123° 25.363	283		-		SR	☐ ☐	
			03:39	BO			° 4.589	° 25.482		282	-			☐ ☐	
			03:44	EN			° 4.610	° 25.547			-			☐ ☐	
118	SOGS118	08	04:54	BE	CTD		48° 57.700	123° 15.805	159		-		SR	☐ ☐	
			04:56	BO			° 57.673	° 15.742		156	-			☐ ☐	
			04:59	EN			° 57.679	° 15.719			-			☐ ☐	
119	SOG119	08	06:08	BE	CTD		48° 50.392	123° 03.349	198		-		SR	☐ ☐	
			06:11	BO			° 50.344	° 03.389		195	-			☐ ☐	
			06:14	EN			° 50.303	° 03.362			-			☐ ☐	
120	BP120	08	07:21	BE	CTD		48° 45.254	123° 7.379	132		-		SR	☐ ☐	
			07:23	BO			° 45.274	° 7.406		122	-			☐ ☐	
			07:25	EN			° 45.281	° 7.436			-			☐ ☐	
121	SL121	08	08:36	BE	CTD		48° 44.870	123° 18.654	98		-		SR	☐ ☐	
			08:38	BO			° 44.866	° 18.642		96	-			☐ ☐	
			08:39	EN			° 44.861	° 18.634			-			☐ ☐	
122	SL122	08	09:45	BE	CTD		48° 47.803	123° 20.639	87		-		SR	☐ ☐	
			09:47	BO			° 47.794	° 20.615		91	-			☐ ☐	
			09:49	EN			° 47.786	° 20.596			-			☐ ☐	
			:				°	°			-			☐ ☐	

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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
123	SC123	08	10:44	BE	CTD		48°42.358	123°21.652	56		-		SR	☐ ☐	
			10:46	BO			°42.349	°21.642		53	-			☐ ☐	
			10:47	EN			°42.337	°21.636			-			☐ ☐	
124	SC124	08	12:00	BE	CTD		48°48.893	123°20.633	93		-		SR	☐ ☐	
			12:02	BO			°48.865	°20.640		89	-			☐ ☐	
			12:04	EN			°48.829	°20.639			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	
			:				°	°			-			☐ ☐	

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