

DAILY SCIENCE LOG BOOK

CRUISE
NUMBER

2018 - 30

DATE:

From: 11 JUN 2018 To: 16 JUN 2018

VESSEL:

CCGS VECTOR

PROJECT(S):

SOG / JdF WATER PROPERTIES SURVEY

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division

WaterProperties.ca

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month				Year		Vessel			Cruise ID						
JUNE				2018		VECTOR			2018-30						
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
1	WAIN RR	12	01:14	DE	MOR		48° 41.11S	123° 30.066	109		-		LP/DS/SP	☐ ☐	ANCHOR SCOOPED
2	81	12	02:37	BE	ROS	US	48° 40.339	123° 30.330	151		1 - 9	9		☐ ☐	
			02:38	BO			° 40.338	° 30.334		100	-		RESR	☒ ☐	
			02:49	EN			° 40.333	° 30.325			-			☐ ☐	
3	59	12	05:03	BE	NET	-	48° 37.806	123° 14.555	232		-		KV	☐ ☐	
			05:11	BO			° 37.752	° 14.616		217	-			☐ ☐	
			05:14	EN			° 37.734	° 14.642			-			☐ ☐	
4	59	12	05:29	BE	ROS	US	48° 37.879	123° 14.640	230		10 - 23	14	PC	☒ ☐	
			05:34	BO			° 37.894	° 14.684		228	-			☐ ☐	
			05:48	EN			° 38.010	° 14.784			-			☐ ☐	
5	60	12	06:31	BE	ROS		48° 33.741	123° 12.707	290		-		R	☒ ☐	
			06:38	BO			° 33.746	° 12.714		292	-			☐ ☐	
			06:44	EN			° 33.726	° 12.730			-			☐ ☐	
6	61	12	07:24	BE	ROS		48° 29.196	123° 9.220	285		-		R	☒ ☐	
			07:31	BO			° 29.226	° 9.185		282	-			☐ ☐	
			07:37	EN			° 29.250	° 9.148			-			☐ ☐	
7	101	12	15:08	BE	ROS		48° 25.387	124° 45.265	210		-		SR	☒ ☐	
			15:13	BO			° 25.392	° 45.338		204	-			☐ ☐	
			:	EN			° 25.403	° 45.433			-			☐ ☐	

Event Type:

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

LOOP = Sea Water Loop

MOR = Mooring
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DRF = Drifter

Bottle Firing Method:

US = Up / Stop (default)
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Produced by the Water Properties Group, IOS

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Notes:

depart Pat Bay 1700, clear, light wind

- wireless transmission to centre CTD which very delayed ~5s - instal remote readout of pressure direct from CTD computer
- for net tow the 'wire out' showed -13.0m at surf, perhaps not zeroed at start - may have stopped 23m off bottom, not 10m
- fire all bottles for testings (15-22)

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Month <u>June</u>			Year <u>2018</u>			Vessel <u>Vector</u>			Cruise ID <u>2018-30</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
8	102	12	16:01	BE	ROS		48° 30.084	124° 44.041	255		24 - 37	14	SR	☒	
			16:07	BO			° 30.126	° 44.196			-			☐	
			16:27	EN			° 30.194	° 44.558			-			☐	
9	103	12	17:12	BE	ROS		48° 33.082	124° 42.966	119		-		SR	☒	
			17:15	BO			° 33.076	° 42.973		113	-			☐	
			17:17	EN			° 33.071	° 42.979			-			☐	
10	76	12	18:28	BE	ROS		48° 31.428	124° 30.006	89		-		SR	☐	
			18:30	BO			° 31.432	° 29.996		84	-			☐	
			18:32	EN			° 31.432	° 29.981			-			☐	
11	75	12	19:14	BE	ROS	US	48° 28.138	124° 32.482	220		38 - 51		R	☐	Δ.3 mm
			19:21	BO			° 28.126	° 32.413		218	-			☐	
			19:34	EN			° 28.129	° 32.092			-			☐	
12	74	12	20:07	BE	ROS		48° 24.937	124° 35.167	182		-		R	☐	Δ.3 mm
			20:11	BO			° 24.919	° 34.964		184	-			☐	
			20:15	EN			° 24.889	° 34.758			-			☐	
13	73	12	22:26	BE	ROS		48° 14.870	124° 6.602	160		-		RE	☐	
			22:29	BO			° 14.857	° 6.503		156	-			☐	
			22:32	EN			° 14.848	° 6.428			-			☐	
			:				° .	° .			-			☐	

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Month <u>JUNE</u>				Year <u>2018</u>		Vessel <u>VECTOR</u>		Cruise ID <u>2018-30</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
14	72	12	23:04	BE	NET		48° 18.533	124° 03.753	189		-		R	☒	
			23:10	BO			° 18.448	° 03.563		183	-			☐	
			23:13	EN			° 18.420	° 03.440			-			☐	
15	72	12	23:26	BE	ROS	US	48° 18.641	124° 04.028	190		52 - 64	13	R	☒	
			23:30	BO			° 18.578	° 04.882		186	-			☐	
			23:41	EN			° 18.385	° 03.492			-			☐	
16	71	13	00:37	BE	ROS		48° 22.123	123° 59.378	109		-		R	☒	
			00:40	BO			° 22.111	° 59.278		106	-			☐	
			00:42	EN			° 22.103	° 59.210			-			☐	
17	70	13	01:53	BE	ROS		48° 19.124	123° 43.366	152		-		R	☒	
			01:56	BO			° 19.100	° 43.417		150	-			☐	
			01:59	EN			° 19.079	° 43.457			-			☐	
18	69	13	02:31	BE	ROS	US	48° 15.588	123° 43.430	177		65 - 76	12	R	☒	
			02:35	BO			° 15.606	° 43.434		174	-			☐	
			02:47	EN			° 15.643	° 43.507			-			☐	high surface fluorescence
19	68	13	03:19	BE	ROS		48° 12.262	123° 48.859	144		-		R	☐	
			03:21	BO			° 12.277	° 42.850		138	-			☐	
			03:24	EN			° 12.295	° 42.868			-			☐	
			:				°	.			-			☐	

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TSC display blank - no signal from TSC laptop - reset + worked temporarily (~ 30 min)

restart TSC @ ~ 0100 13 JUN (UTC) 1800 local

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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
20	105	13	05:14	BE	ROS		48° 10.980	123° 19.064	88		-		12	☒ ☐	
			05:16	BO			° 10.969	° 19.049		82	-			☐ ☐	
			05:18	EN			° 10.960	° 19.042			-			☐ ☐	
21	ADCP	13	05:50	BE	ROS	US	48° 13.990	123° 18.016	125		77-86	10	12	☒ ☐	
			05:52	BO			° 13.991	° 18.046		118	-			☐ ☐	
			06:01	EN			° 13.961	° 18.216			-			☐ ☐	
22	104	13	06:50	BE	ROS		48° 20.015	123° 17.831	90		-		12	☒ ☐	
			06:52	BO			° 20.017	° 17.819		84	-			☐ ☐	
			06:54	EN			° 20.022	° 17.808			-			☐ ☐	
23	67	13	07:17	BE	ROS		48° 22.844	123° 18.012	105		-		SR	☒ ☐	
			07:19	BO			° 22.859	° 17.990		100	-			☐ ☐	
			07:21	EN			° 22.868	° 17.980			-			☐ ☐	
24	66	13	07:55	BE	ROS		48° 19.338	123° 14.090	104		-		SR	☒ ☐	
			07:57	BO			° 19.342	° 14.090		99	-			☐ ☐	
			07:59	EN			° 19.350	° 14.088			-			☐ ☐	
25	65	13	08:33	BE	ROS	US	48° 15.894	123° 9.793	129		-		SR	☒ ☐	
			08:37	BO			° 15.891	° 9.784		124	-			☐ ☐	
			08:48	EN			° 15.888	° 9.775			-			☐ ☐	
			:				°	°			-			☐ ☐	

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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/Fl Cleaned	Comments
26	64	13	09:23	BE	ROS		48° 12.779	123° 5.807	114		-	-	SR	☒	
			09:25	BO			° 12.781	° 5.782		109	-	-		☐	
			09:28	EN			° 12.802	° 5.759			-	-		☐	
27	63	13	10:11	BE	NET		48° 14.557	122° 58.579	160		-	-	TF	☐	
			10:16	BO			° 14.575	° 58.499		150	-	-		☐	
			10:19	EN			° 14.605	° 58.477			-	-		☐	
28	63	13	10:34	BE	ROS	US	48° 14.639	122° 58.519	154		97-99	3	SR	☒	
			10:37	BO			° 14.628	° 58.489		149	-	-		☐	
			10:43	EN			° 14.614	° 58.448			-	-		☐	
29	62	13	12:01	BE	ROS	US	48° 22.765	123° 2.648	149		100 - 110	11	SR	☒	
			12:05	BO			° 22.764	° 2.646		145	-	-		☐	
			12:17	EN			° 22.751	° 2.659			-	-		☐	
30	54		14:07	BE	ROS		48° 26.575	122° 44.314	82		-	-	SR	☒	
			14:11	BO			° 26.417	° 44.280		77	-	-		☐	
			14:13	EN			° 26.351	° 44.264			-	-		☐	
31	53		15:33	BE	ROS		48° 33.018	122° 45.031	70		-	-	SR	☒	
			15:35	BO			° 32.942	° 45.042		65	-	-		☐	
			15:37	EN			° 32.848	° 45.059			-	-		☐	
			:				° .	° .			-	-		☐	

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Month <u>June</u>			Year <u>2018</u>			Vessel <u>Vector</u>			Cruise ID <u>2018-30</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
32	52	13	17:22	BE	ROS		48° 38.894	122° 43.252	82		-		SR	☒ ☐	
			17:24	BO			° 38.849	° 43.237		77	-			☐ ☐	
			17:25	EN			° 38.784	° 43.211			-			☐ ☐	
33	51	13	18:49	BE	ROS		48° 46.646	122° 51.551	158		-		SR/PC	☒ ☐	
			18:52	BO			° 46.615	° 51.512		151	-			☐ ☐	
			18:55	EN			° 46.591	° 51.493			-			☐ ☐	
34	56	13	20:00	BE	ROS	US	48° 46.391	123° 01.520	217		111 - 124	14	R	☒ ☐	
			20:05	BO			° 46.441	° 01.448			-			☐ ☐	
			20:17	EN			° 46.648	° 01.119			-			☐ ☐	
35	58	13	21:39	BE	ROS		48° 43.044	123° 14.372	335		-		R	☒ ☐	depth change
			21:47	BO			° 43.213	° 14.236	319	309	-			☐ ☐	during downcast
			21:53	EN			° 43.330	° 13.956			-			☐ ☐	
36	57	13	22:18	BE	ROS		48° 44.108	123° 08.114	160		-		R	☒ ☐	depth change
			22:21	BO			° 44.233	° 08.000	147	140	-			☐ ☐	during downcast
			22:24	EN			° 44.333	° 07.895			-			☐ ☐	
37	47	13	23:36	BE	ROS		48° 49.255	123° 6.316	181		-		MB	☒ ☐	
			23:39	BO			° 49.240	° 6.367		176	-			☐ ☐	
			23:42	EN			° 49.229	° 6.378			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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38	48	14	00:15	BE	ROS		48° 51.646	123° 03.346	225		-		R	☒	
			00:19	BO			° 51.619	° 03.391		221	-			☐	
			00:24	EN			48° 51.623	123° 03.402			-			☐	
40	49	14	00:55	BE	ROS		48° 54.984	122° 59.720	138		-		KY	☒	
			00:57	BO			48° 54.996	122° 59.772		130	-			☐	
			01:00	EN			48° 55.012	122° 59.812			-			☐	
41	50	14	01:31	BE	ROS		48° 57.673	122° 56.167	30		-		R	☒	
			01:32	BO			° 57.679	° 56.166		25	-			☐	
			01:32	EN			° 57.682	° 56.167			-			☐	
42	44	14	02:24	BE	ROS		48° 56.720	123° 06.017	122		-		R	☐	
			02:26	BO			° 56.707	° 06.155		115	-			☐	
			02:28	EN			° 56.693	° 06.211			-			☐	
43	45	14	02:57	BE	ROS		48° 53.830	123° 08.262	133		-		PC	☒	
			03:00	BO			° 53.780	° 08.224		126	-			☐	
			03:02	EN			° 53.738	° 08.213			-			☐	
44	46	14	03:27	BE	NET		48° 51.330	123° 10.584	181		-		KY	☐	
			03:33	BO			° 51.287	° 10.416		171	-			☐	
			03:36	EN			° 51.244	° 10.381			-			☐	
			:				°	°			-			☐	

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old files associated with event 43 require attention as the .52 .hdr = .XMLCON
were overwritten during event 45, the hex file is the proper file for this cast
- see Peter Chandler if further information req'd

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45	46	14	03:53	BE	ROS	US	48° 51.284	123° 10.703	181		125 - 136	12	CS	☒ ☒	
			03:54	BO			° 51.219	° 10.558		182	-			☐ ☐	
			04:08	EN			° 51.062	° 10.103			-			☐ ☐	
46	106	14	05:50	BE	ROS		49° 0.973	123° 13.571	91		-			☐ ☐	+ 1/2h route
			05:52	BO			° 0.959	° 13.591		84	-			☐ ☐	
			05:54	EN			° 0.944	° 13.598			-			☐ ☐	
47	107	14	06:30	BE	ROS		48° 58.456	123° 17.968	125		-			☐ ☐	
			06:34	BO			° 58.415	° 17.950		177	-			☐ ☐	
			06:38	EN			° 58.349	° 17.902			-			☐ ☐	
48	43	14	07:40	BE	ROS		49° 0.200	123° 30.084	202		-		SR	☒ ☐	
			07:44	BO			° 0.208	° 30.083		197	-			☐ ☐	
			07:48	EN			° 0.211	° 30.082			-			☐ ☐	
49	42	14	08:17	BE	NET		49° 01.750	123° 26.218	323		-		TF/H	☐ ☐	
			08:28	BO			° 01.746	° 26.222		313	-			☐ ☐	
			08:34	EN			° 01.737	° 26.283			-			☐ ☐	
50	42	14	08:51	BE	ROS		49° 01.705	123° 26.274	324		137 - 152		SR	☒ ☐	
			08:58	BO			° 01.679	° 26.339		319	-			☐ ☐	
			09:18	EN			° 01.673	° 26.462			-			☐ ☐	
			:				°	°			-			☐ ☐	

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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 <i>June</i>			Year <i>2018</i>			Vessel <i>Vector</i>			Cruise ID <i>2018-30</i>						
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
51	41	14	10:05	BE	ROS		49° 3.304	123° 22.216	240		-		SR	☒	
			10:10	BO			° 3.302	° 22.208		235	-			☐	
			10:14	EN			° 3.294	° 22.178			-			☐	
52	41	14	10:29	BE	NET		49° 3.289	123° 22.165	237		-		TF	☐	
			10:37	BO			° 3.274	° 22.164		227	-			☐	
			10:41	EN			° 3.277	° 22.134			-			☐	
53	37	14	12:17	BE	ROS		49° 13.574	123° 20.689	215		-		SR	☒	
			12:21	BO			° 13.564	° 20.692		210	-			☐	
			12:25	EN			° 13.560	° 20.700			-			☐	
54	38	14	13:00	BE	NET		49° 11.966	123° 26.331	305		-		TF	☐	
			13:10	BO			° 11.896	° 26.341		295	-			☐	
			13:16	EN			° 11.855	° 26.363			-			☐	
55	38	14	13:55	BE	ROS		49° 11.872	123° 26.406	350		-		SR	☒	
			14:00	BO			° 11.869	° 26.416		295	-			☐	
			14:07	EN			° 11.866	° 26.434			-			☐	
56	39	14	14:44	BE	ROS	WS	49° 9.818	123° 33.005	378		153-169			☐	
			14:51	BO			° 9.835	° 33.060		373	-			☐	
			15:17	EN			° 9.809	° 33.178			-			☐	
			:				°	°			-			☐	

Event Type:

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

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Bottle Firing Method:

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Month <u>JUNE</u>				Year <u>2018</u>		Vessel <u>VECTOR</u>				Cruise ID <u>2018-30</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/FI Cleaned	Comments
							Latitude	Longitude							
57	40	14	16:00	BE	NET		49° 8.558	123° 36.717	159		-		TF	☐	
			16:05	BO			° 8.530	° 36.718		149	-			☐	
			16:08	EN			° 8.492	° 36.709			-			☐	
58	40	14	16:20	BE	ROS		49° 8.458	123° 36.568	183		-			☐	
			16:26	BO			° 8.399	° 36.414		158	-			☐	
			16:29	EN			° 8.411	° 36.313			-			☐	
59	GE01	14	17:32	BE	ROS		49° 15.071	123° 44.990	402		-		SR	☒	
			17:40	BO			° 15.050	° 45.019		397	-			☐	
			17:50	EN			° 15.049	° 45.010			-			☐	
60	GE01	14	17:54	BE	ROS		° 15.049	123° 45.010	402		186 - 188	3	SR	☒	Event 60 was just
			17:55	EN			° 15.049	° 45.010		3	-			☐	to trip bot 3
			:				° .	° .			-			☐	for event 59
61	GE01	14	18:05	BE	NET		49° 15.076	123° 45.035	402		-		TF	☐	
			18:19	BO			° 15.091	° 45.110		392	-			☐	
			18:26	EN			° 15.096	° 45.141			-			☐	
62	GE01	14	18:37	BE	NET		49° 15.116	123° 45.225	402		-		TF	☐	
			18:50	BO			° 15.119	° 45.361		392	-			☐	
			18:57	EN			° 15.128	° 45.430			-			☐	
			:				° .	° .			-			☐	

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Month				Year		Vessel				Cruise ID						
JUNE				2018		VECTOR				2018-30						
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	
63	26	14	19:27	BE	ROS		49° 14.234	123° 50.687	250		-		PC	☒		
			19:32	BO			° 14.231	° 50.807		240	-			☐	skip station	
			19:37	EN			° 14.232	° 50.880			-			☐	265	
64	27	14	20:17	BE	ROS	US	49° 19.130	123° 47.984	345		170-185	16	PC	☒		
			20:24	BO			° 19.117	° 47.914			-			☐	skip station	
			20:40	EN			° 19.212	° 48.013			-			☐	275	
65	28	14	21:16	BE	ROS		49° 24.100	123° 45.347	135		-		PC	☒		
			21:18	BO			° 24.110	° 45.353		128	-			☐		
			21:21	EN			° 24.127	° 45.364			-			☐		
66	28	14	21:29	BE	NET		49° 24.173	123° 45.368	132		-		KY	☐		
			21:33	BO			° 24.181	° 45.350		122	-			☐		
			21:36	EN			° 24.189	° 45.354			-			☐		
67	24	14	23:12	BE	NET		49° 30.312	124° 05.936	426		-		CS	☐		
			23:25	BO			° 30.374	° 06.002		416	-			☐		
			23:31	EN			° 30.384	° 05.998			-			☐		
68	24	14	23:41	BE	ROS		49° 30.359	124° 05.896	426		-		PC	☒		
			23:49	BO			° 30.329	° 05.819		419	-			☐		
			23:58	EN			° 30.305	° 05.746			-			☐		
			:				° .	° .			-			☐		

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Month <u>JUNE</u>			Year <u>2018</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2018-30</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
69	25	15	00:35	BE	ROS		49° 27.760	124° 07.475	288		-		RC	☒ ☐	note 2 nd flower
			00:41	BO			° 27.764	° 07.430		284	-			☐ ☐	peak @ 50 m
			00:47	EN			° 27.769	° 07.379			-			☐ ☐	
70	2	15	01:20	BE	ROS	US	49° 24.143	124° 09.266	282		186-200	15	RC	☒ ☐	
			01:26	BO			° 24.167	° 09.124			-			☐ ☐	
			01:40	EN			° 24.377	° 09.001			-			☐ ☐	
71	CPF1	15	02:22	BE	NET		49° 21.899	124° 05.013	244		-		KY	☐ ☐	
			02:29	BO			° 21.855	° 05.006		235	-			☐ ☐	
			02:32	EN			° 21.847	° 04.990			-			☐ ☐	
72	CPF1	15	02:42	BE	ROS		49° 21.858	124° 04.981	241		-		RC	☒ ☐	
			02:47	BO			° 21.834	° 04.958		235	-			☐ ☐	
			02:51	EN			° 21.805	° 04.939			-			☐ ☐	
73	1	15	03:32	BE	ROS		49° 20.304	124° 11.923	250		-		RC	☒ ☐	
			03:37	BO			° 20.272	° 11.918		246	-			☐ ☐	
			03:41	EN			° 20.244	° 11.908			-			☐ ☐	
74	4	15	04:39	BE	ROS		49° 24.530	124° 22.145	345		-		RC	☒ ☐	
			04:43	BO			° 24.533	° 22.146		340	-			☐ ☐	
			04:50	EN			° 24.568	° 22.128			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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Month <u>JUNE</u>				Year <u>2018</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2018-30</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
75	3	15	05:10	BE	ROS	US	49° 26.489	124° 20.242	333		201-216	16	PC	☒ ☐	
			05:17	BO			° 26.498	° 20.141			-			☐ ☐	
			05:32	EN			° 26.446	° 19.988			-			☐ ☐	
76	CPF2	15	06:25	BE	NET		49° 27.543	124° 30.680	336		-		W/CS	☐ ☐	
			06:35	BO			° 27.529	° 30.669		326	-			☐ ☐	
			06:41	EN			° 27.527	° 30.674			-			☐ ☐	
77	5	15	06:58	BE	ROS		49° 27.496	124° 30.683	322		-		SR	☒ ☐	
			07:04	BO			° 27.478	° 30.684		318	-			☐ ☐	
			07:10	EN			° 27.456	° 30.684			-			☐ ☐	
78	6	15	07:40	BE	ROS	US	49° 30.516	124° 27.799	194		217-229		SR	☒ ☐	
			07:43	BO			° 30.588	° 27.797		190	-			☐ ☐	
			07:59	EN			° 30.575	° 27.821			-			☐ ☐	
79	7	15	08:43	BE	ROS		49° 34.392	124° 24.227	352		-		SR	☒ ☐	
			08:51	BO			° 34.403	° 24.283		347	-			☐ ☐	
			08:57	EN			° 34.392	° 24.316			-			☐ ☐	
80	8	15	09:50	BE	ROS		49° 39.281	124° 32.982	340		-		SR	☒ ☐	
			09:56	BO			° 39.286	° 32.986		335	-			☐ ☐	
			10:03	EN			° 39.307	° 33.004			-			☐ ☐	
			:				°	°			-			☐ ☐	

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old cable twisted - check with Mike + Scott

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Month <u>June</u>				Year <u>2018</u>			Vessel <u>Vector</u>			Cruise ID <u>2018-30</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
81	9	15	10:41	BE	ROS		49°35.520	124°38.288			230-241	12	SR	☒	
			10:45	BO			°35.520	°38.303			-			☐	
			11:00	EN			°35.520	°38.340			-			☐	
82	10	15	11:58	BE	ROS		49°40.646	124°47.342	99		-		SR	☒	
			12:01	BO			°40.620	°47.341		94	-			☐	
			12:03	EN			°40.601	°47.334			-			☐	
83	11	15	12:30	BE	ROS		49°42.332	124°43.490	298		-		SR	☒	
			12:37	BO			°42.360	°43.534		293	-			☐	
			12:42	EN			°42.394	°43.595			-			☐	
84	11	15	12:56	BE	NET		49°42.461	124°43.789	294		-		H	☐	
			13:06	BO			°42.422	°43.847		284	-			☐	
			13:11	EN			°42.400	°43.868			-			☐	
85	12	15	13:47	BE	NET		49°43.651	124°40.979	355		-		TF	☐	
			13:59	BO			°43.675	°41.050		345	-			☐	
			14:06	EN			°43.702	°41.122			-			☐	
86	12	15	14:21	BE	ROS	US	49°43.614	124°40.810	358		242-258	17	SR	☒	
			14:29	BO			°43.633	°40.860		353	-			☐	
			14:52	EN			°43.633	°40.987			-			☐	
			:				°	°			-			☐	

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Month <u>June</u>				Year <u>2018</u>		Vessel <u>Vector</u>				Cruise ID <u>2018-30</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
87	13	15	16:32	BE	ROS		49°55.314	124°55.327	237		-		SR	☒	
			16:37	BO			°55.319	°55.390		232	-			☐	
			16:42	EN			°55.325	°55.428			-			☐	
88	14	15	17:08	BE	NET		49°53.002	124°59.620	317		-		TF	☐	
			17:18	BO			°53.003	°59.725		307	-			☐	
			17:24	EN			°52.999	°59.769			-			☐	
89	14	15	17:31	BE	NET		49°53.024	124°59.703			-		TF	☐	
			17:41	BO			°53.045	°59.787			-			☐	
			17:46	EN			°53.057	°59.830			-			☐	
90	14	15	18:00	BE	ROS	US	49°53.027	124°59.560	315		259-273	15	SR	☒	
			18:07	BO			°53.042	°59.632		310	-			☐	
			18:25	EN			°53.021	°59.849			-			☐	
91	15	15	18:58	BE	ROS		49°51.595	125°01.588	131		-		R	☒	
			19:01	BO			°51.607	°01.631		118	-			☐	
			19:03	EN			°51.612	°01.681			-			☐	
92	16	15	19:56	BE	ROS	US	49°57.655	125°08.888	145		274-284	11	DS	☒	
			20:01	BO			°57.651	°09.012		137	-			☐	
			20:12	EN			°57.472	°09.155			-			☐	
			:				°	°			-			☐	

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Month			Year			Vessel			Cruise ID						
JUNE			2018			VECTOR			2018-30						
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							
93	17	15	20:49	BE	ROS		49° 58.772	125° 04.412	267		-		RE	☒ ☐	
			20:54	BO			° 58.762	° 04.439		262	-			☐ ☐	
			20:59	EN			° 58.765	° 04.435			-			☐ ☐	
94	QU39	15	21:27	BE	ROS	US	50° 01.850	125° 05.489	272		285-287	3	RE	☒ ☐	
			21:32	BO			° 01.843	° 05.467			-			☐ ☐	
			21:40	EN			° 01.826	° 05.438			-			☐ ☐	
95	18	15	22:12	BE	ROS		49° 59.194	124° 59.027	147		-		RE	☒ ☐	
			22:15	BO			° 59.189	° 59.041		141	-			☐ ☐	
			22:18	EN			° 59.183	° 59.041			-			☐ ☐	
96	19	15	22:51	BE	ROS		50° 01.171	124° 52.872	270		-		RE	☒ ☐	
			22:57	BO			° 01.166	° 52.854		261	-			☐ ☐	
			23:02	EN			° 01.146	° 52.804			-			☐ ☐	
97	20	16	01:06	BE	ROS		49° 47.208	124° 32.297	312		-		RE	☒ ☐	
			01:12	BO			° 47.225	° 32.272		305	-			☐ ☐	
			01:18	EN			° 47.306	° 32.293			-			☐ ☐	
98	22	16	02:35	BE	ROS	US	49° 40.111	124° 16.340	355		288-290	3	RE	☒ ☐	pathe in fluorometer
			02:42	BO			° 40.114	° 16.364		343	-			☐ ☐	Signal @ 240 m
			02:52	EN			° 40.115	° 16.432			-			☐ ☐	on upcast
			:				° .	° .			-			☐ ☐	

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Month			Year		Vessel			Cruise ID							
JUNE			2018		VECTOR										
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
99	22	16	02:57	BE	NET		49° 40.125	124° 16.451	354		-		ky	☐ ☐	
			03:07	BO			° 40.128	° 16.457		344	-			☐ ☐	
			03:13	EN			° 40.172	° 16.513			-			☐ ☐	
100	22	16	03:18	BE	NET		49° 40.199	124° 16.514	354		-		ky	☐ ☐	
			03:28	BO			° 40.246	° 16.487			-			☐ ☐	
			03:33	EN			° 40.273	° 16.499			-			☐ ☐	
101	BS1	17	15:06	BE	GRB	-	49° 38.914	124° 52.808	17.5		-		TS	☐ ☐	CRAB FARLED
			15:07	BO			49° 38.917	124° 52.818		17.5	-			☐ ☐	
			15:07	EN			49° 38.917	124° 52.818			-			☐ ☐	
102	BS1	17	15:08	BE	GRB	-	49° 38.917	124° 52.817	17.5		-		TS	☐ ☐	
			15:08	BO			49° 38.917	124° 52.817		17.5	-			☐ ☐	
			15:08	EN			49° 38.917	124° 52.817			-			☐ ☐	
103	BS2	17	15:31	BE	GRB		49° 38.435	124° 53.657	34		-		TS	☐ ☐	
			15:32	BO			° 38.435	° 53.656		34	-			☐ ☐	
			15:32	EN			° 38.436	° 53.655			-			☐ ☐	
104	BS-3	17	15:49	BE	GRB		49° 37.918	124° 54.560	20		-		TS	☐ ☐	
			15:50	BO			° 37.918	° 54.560		20	-			☐ ☐	
			15:50	EN			° 37.918	° 54.562			-			☐ ☐	
			:				°	°			-			☐ ☐	

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LOOP = Sea Water Loop

MOR = Mooring
 NET = Plankton Net Haul
 DRF = Drifter
 GRB = GRAB - MUD

Bottle Firing Method:

US = Up / Stop (default)
 UN = Up / No stop
 DN = Down / No stop

Notes:

Time Code:

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LEG 1. FINISHED @ IOS ~ 0700 16 JUN 2019, OFF LOADED SAMPLES, ETC.

LEG 2. STARTED, LEFT IOS @ ~ 1100 16 JUN 2019

CS: TERRE SUTHERLAND	(WEST VAN LAB DFO)	WATCH 7-19
SUPERNUMERARIES: MARK BELTON	(IOS)	7-19
PERREONE	(UVEC)	7-19
DUNCAN	(CHS)	19-7

→ ARRIVED @ BAYNES SOUND OFF QUELUM @ ~ 2030, START O/N MULTIBeam OPERATIONS

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Month <u>JUNE</u>				Year <u>2018</u>		Vessel <u>VECTOR</u>				Cruise ID <u>2018-30</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/FI Cleaned	Comments
							Latitude	Longitude							
105	BS-6	17	16:21	BC	GRB		49° 35.685	124° 52.582	28		-		TS	☐ ☐	
			16:21	BO			° 35.682	° 52.584		28	-			☐ ☐	
			16:22	CO			° 35.681	° 52.584			-			☐ ☐	
106	BS-5	17	16:30	BC	GRB		49° 35.855	124° 51.577	41		-		TS	☐ ☐	
			16:31	BO			° 35.850	° 51.575		41	-			☐ ☐	
			16:32	CO			° 35.849	° 51.575			-			☐ ☐	
107	BS-4	17	16:44	BC	GRB		49° 36.232	124° 50.470	22		-		TS	☐ ☐	
			16:45	BO			° 36.231	° 50.467		22	-			☐ ☐	
			16:45	CO			° 36.229	° 50.465			-			☐ ☐	
108	BS-9	17	17:02	BC	GRB		49° 34.359	124° 51.010	28		-		TS	☐ ☐	
			17:03	BO			° 34.352	° 51.007		28	-			☐ ☐	
			17:04	CO			° 34.349	° 51.003			-			☐ ☐	
109	BS-8	17	17:13	BC	GRB		49° 34.112	124° 51.501	45		-		TS	☐ ☐	
			17:13	BO			° 34.104	° 51.494		45	-			☐ ☐	
			17:14	CO			° 34.103	° 51.493			-			☐ ☐	
110	BS-7	17	17:34	BC	GRB		49° 34.033	124° 52.336	23		-		TS	☐ ☐	
			17:34	BO			° 34.033	° 52.339		23	-			☐ ☐	
			17:35	CO			° 34.033	° 52.339			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Month <u>JUNE</u>				Year <u>2018</u>			Vessel <u>VECTOR</u>				Cruise ID <u>2018-30</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
111	BS-12	17	17:57	BE	GRB	-	49° 32.406	124° 50.112	31		-		TS	☐ ☐	
			17:58	BO			° 32.406	° 50.109		31	-			☐ ☐	
			17:58	EW			° 32.406	° 50.109			-			☐ ☐	
112	BS-11	17	18:09	BE	GRB	-	49° 32.206	124° 50.512	41		-		TS	☐ ☐	
			18:10	BO			° 32.202	° 50.510		41	-			☐ ☐	
			18:11	EW			° 32.200	° 50.509			-			☐ ☐	
113	BS-10	17	18:19	BE	GRB	-	49° 31.998	124° 50.935	21		-		TS	☐ ☐	
			18:20	BO			° 31.998	° 50.935		21	-			☐ ☐	
			18:20	EW			° 31.998	° 50.934			-			☐ ☐	
114	BS-13	17	19:20	BE	GRB	-	49° 31.338	124° 48.516	45		-		TS	☐ ☐	CRAB FAULTED
			19:20	BO			° 31.337	° 48.513		45	-			☐ ☐	
			19:21	EW			° 31.337	° 48.513			-			☐ ☐	
115	BS-13	17	19:34	BE	GRB	-	49° 31.337	124° 48.526	45		-		TS	☐ ☐	
			19:34	BO			° 31.338	° 48.527		45	-			☐ ☐	
			19:35	EW			° 31.339	° 48.528			-			☐ ☐	
116	BS-14	17	19:44	BE	GRB	-	49° 31.078	124° 48.669	45		-		TS	☐ ☐	
			19:45	BO			° 31.078	° 48.670		45	-			☐ ☐	
			19:45	EW			° 31.080	° 48.673			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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Month <u>JUNE</u>			Year <u>2018</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2018-30</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
117	BS-15	17	19:55	BE	GRB	.	49° 30.630	124° 48.949	24		-		TS	☐ ☐	
			19:56	BO			° 30.631	° 48.950		24	-			☐ ☐	
			19:57	EN			° 30.633	° 48.953			-			☐ ☐	
118	BS-16	17	20:27	BE	GRB	.	49° 29.179	124° 45.763	45		-		TS	☐ ☐	
			20:28	BO			° 29.173	° 45.757		45	-			☐ ☐	
			20:29	EN			° 29.169	° 45.752			-			☐ ☐	
119	BS-17	17	20:38	BE	GRB	.	49° 29.010	124° 46.177	48		-		TS	☐ ☐	
			20:39	BO			° 29.007	° 46.177		48	-			☐ ☐	
			20:40	EN			° 29.005	° 46.199			-			☐ ☐	
120	BS-18	17	20:49	BE	GRB	.	49° 28.928	124° 46.497	22		-		TS	☐ ☐	
			20:49	BO			° 28.930	° 46.496		22	-			☐ ☐	
			20:50	EN			° 28.930	° 46.492			-			☐ ☐	
121	BS-19	17	21:10	BE	GRB	.	49° 28.125	124° 45.165	48		-		TS	☐ ☐	
			21:11	BO			° 28.120	° 45.168		48	-			☐ ☐	
			21:12	EN			° 28.118	° 45.169			-			☐ ☐	
122	BS-20	17	21:47	BE	GRB		49° 28.282	124° 44.767	34		-		TS	☐ ☐	
			21:48	BO			° 28.290	° 44.771		34	-			☐ ☐	
			21:50	EN			° 28.298	° 44.775			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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Notes:

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Month <u>JUNE</u>				Year <u>2018</u>		Vessel <u>VECTOR</u>				Cruise ID <u>2018-30</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
123	BS-21	17	22:00	BE	GRB		49° 28.494	124° 44.309	27		-		TS	☐	
			22:01	BO			° 28.494	° 44.308		27	-			☐	
			22:01	EN			° 28.493	° 44.308			-			☐	
124	BS-22	17	22:22	BE	GRB		49° 28.210	124° 41.682	37		-		TS	☐	
			22:23	BO			° 28.211	° .677		37	-			☐	
			22:23	EN			° 28.211	° .676			-			☐	
125	BS-23	17	22:42	BE	GRB		49° 27.759	124° 39.932	54		-		TS	☐	
			22:43	BO			° 27.753	° 39.935		54	-			☐	
			22:44	EN			° 27.745	° 39.939			-			☐	
126	BS-17	17	22:26	BE	ROS	US	49° 29.033	124° 46.240	46		291-298	8	MB	☒	
			22:27	BO			° 29.022	° 46.244		44.7	-			☐	
			22:33	EN			° 29.016	° 46.256			-			☐	
127	BS-17	18	00:35	BE	NET	-	49° 29.080	124° 46.172	52.2		-		MB	☐	
			00:36	BO			° .	° .		46	-			☐	
			00:37	EN			° .	° .			-			☐	
128	BS-2	18	15:02	BE	ROS	US	49° 38.452	124° 53.706	33		299-303	5	MB	☒	BLOCK MOVED So
			15:04	BO			° .	° .		28	-			☐	BROUGHT BACK TO
			15:08	EN			° .	° .			-			☐	10 OFF BOTTOM
			:				° .	° .			-			☐	

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This page is for any notes or observations

ALTHOUGH ALTIMETER READ 5 M OFF BOTTOM, ROSETTE LOOKS CLEAN ON RECOVERY

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Month <u>JUNE</u>			Year <u>2018</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2018-30</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
129	BSO.1	18	17:33	BC	GRB	-	49° 39.056	124° 55.065	35		-		TS	☐ ☐	
			17:34	BO			° 39.056	° 55.061		35	-			☐ ☐	
			17:34	EN			° 39.057	° 55.061			-			☐ ☐	
130	BSO.2	18	17:45	BC	GRB	-	49° 39.111	124° 54.647	33		-		TS	☐ ☐	
			17:46	BO			° 39.111	° 54.646		33	-			☐ ☐	
			17:47	EN			° 39.115	° 54.643			-			☐ ☐	
131	BSO.3	18	17:58	BC	GRB	-	49° 39.169	124° 53.814	44		-		TS	☐ ☐	
			17:59	BO			° 39.175	° 53.810		44	-			☐ ☐	
			18:01	EN			° 39.175	° 53.81			-			☐ ☐	
132	BSO.4	18	18:10	BC	GRB	-	49° 39.105	124° 53.772	41		-		TS	☐ ☐	
			18:10	BO			° 39.106	° 53.772		41	-			☐ ☐	
			18:11	EN			° 39.107	° 53.771			-			☐ ☐	
133	BSO.5	18	18:22	BC	GRB	-	49° 39.167	124° 53.766	46		-		TS	☐ ☐	
			18:23	BO			° 39.168	° 53.766		46	-			☐ ☐	
			18:24	EN			° 39.169	° 53.766			-			☐ ☐	
134	BSO.6	18	19:14	BC	GRB	-	49° 38.981	124° 53.324	46		-		TS	☐ ☐	
			19:14	BO			° 38.982	° 53.321		46	-			☐ ☐	
			19:15	EN			° 38.982	° 53.320			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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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
135	BS 1.3	18	19:41	BE	GRB	-	49° 37' . 998	124° 52' . 254	39		-		TS	☐ ☐	
			19:41	BO			° 37' . 998	° 52' . 254		39	-			☐ ☐	
			19:42	EN			° 37' . 998	° 52' . 254			-			☐ ☐	
136	BS 1.4	18	19:54	BE	GRB	-	49° 37' . 410	124° 51' . 699	30		-		TS	☐ ☐	
			19:55	BO			° 37' . 401	° 51' . 701		30	-			☐ ☐	
			19:56	EN			° 37' . 394	° 51' . 705			-			☐ ☐	
137	BS 2.1	18	20:09	BE	GRB	-	49° 36' . 527	124° 52' . 085	35		-		TS	☐ ☐	
			20:09	BO			° 36' . 524	° 52' . 087		35	-			☐ ☐	
			20:10	EN			° 36' . 515	° 52' . 097			-			☐ ☐	
138	BS 2.2	18	20:22	BE	GRB	-	49° 36' . 419	124° 51' . 965	35		-		TS	☐ ☐	
			20:23	BO			° 36' . 418	° 51' . 964		35	-			☐ ☐	
			20:23	EN			° 36' . 419	° 51' . 963			-			☐ ☐	
139	BS 2.3	18	20:30	BE	GRB	-	49° 36' . 351	124° 51' . 913	28		-		TS	☐ ☐	
			20:31	BO			° 36' . 344	° 51' . 908		28	-			☐ ☐	
			20:32	EN			° 36' . 340	° 51' . 905			-			☐ ☐	
140	BS 2.4	18	20:41	BE	GRB	-	49° 36' . 290	124° 51' . 881	24		-		TS	☐ ☐	
			20:41	BO			° 36' . 290	° 51' . 881		24	-			☐ ☐	
			20:42	EN			° 36' . 290	° 51' . 881			-			☐ ☐	
			:				°	°			-			☐ ☐	

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Month <u>JUNE</u>				Year <u>2018</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2018-30</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
141	BS 2.5	18	20:53	BE	GRB		49° 36.171	124° 51.797	27		-		TS	☐ ☐	
			20:54	BO			° 36.171	° 51.797		27	-			☐ ☐	
			20:54	EN			° 36.171	° 51.797			-			☐ ☐	
142	BS 2.6	18	21:01	BE	GRB		49° 36.117	124° 51.752	27		-		TS	☐ ☐	
			21:02	BO			° 36.115	° 51.752		27	-			☐ ☐	
			21:02	EN			° 36.115	° 51.752			-			☐ ☐	
143	BS 2.7	18	21:10	BE	GRB		49° 36.041	124° 51.684	32		-		TS	☐ ☐	
			21:11	BO			° 36.043	° 51.687		32	-			☐ ☐	
			21:11	EN			° 36.048	° 51.			-			☐ ☐	
144	BS 2.8	18	21:23	BE	GRB		49° 35.953	124° 51.591	38		-		TS	☐ ☐	
			21:23	BO			° 35.953	° 51.591		38	-			☐ ☐	
			21:24	EN			° 35.953	° 51.591			-			☐ ☐	
145	BSS	18	22:07	BE	CTD	-	49° 35.855	124° 51.572	38		-		MB	☐ ☐	
			22:08	BO			° 35.856	° 51.572		33	-			☐ ☐	
			22:09	EN			° 35.857	° 51.574			-			☐ ☐	
146	BS 8	18	22:28	BE	CTD	-	49° 34.138	124° 51.529	43		-		MB	☐ ☐	
			22:29	BO			49° 34.138	° 51.529		38	-			☐ ☐	
			22:29	EN			49° 34.136	° 51.530			-			☐ ☐	
			:				°	°			-			☐ ☐	

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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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month				Year			Vessel				Cruise ID				
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
147	BS11	18	22:49	BE	CTD	-	49° 32' 19.6	124° 50' 50.7	410		-		MB	☒ ☐	
			22:50	BO			° 32' 19.5	° 50' 50.7		39	-			☐ ☐	
			22:51	EN			° 32' 19.5	° 50' 50.7			-			☐ ☐	
148	BS14	18	23:10	BE	CTD	-	49° 31' 07.0	124° 48' 62.5	416		-		MB	☒ ☐	
			23:11	BO			° 31' 06.3	° 48' 62.6		43	-			☐ ☐	
			23:12	EN			° 31' 06.0	° 48' 62.6			-			☐ ☐	
149	BS17	18	23:39	BE	CTD	-	49° 29' 03.6	124° 46' 17.7	55		-		MB	☒ ☐	
			23:40	BO			° 29' 04.0	° 46' 18.3		50	-			☐ ☐	
			23:41	EN			° 29' 04.4	° 46' 18.9			-			☐ ☐	
150	BS20	18	00:04	BE	CTD	-	49° 28' 30.3	124° 44' 80.0	412		-		MB	☒ ☐	
			00:05	BO			° 28' 30.2	° 44' 80.1		39	-			☐ ☐	
			00:06	EN			° 28' 30.2	° 44' 81.0			-			☐ ☐	
151	BS22	18	00:41	BE	CTD	-	49° 28' 22.6	124° 41' 67.4	44		-		MB	☒ ☐	
			00:42	BO			° 28' 22.5	° 41' 67.7		42	-			☐ ☐	
			00:43	EN			° 28' 22.5	° 41' 68.1			-			☐ ☐	
152	BS23	18	00:58	BE	CTD	-	49° 27' 76.4	124° 39' 9.7	60		-		MB	☐ ☐	
			00:59	BO			° 27' 75.7	° 39' 9.7		55	-			☐ ☐	
			01:00	EN			° 27' 75.2	° 39' 9.7			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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