DAILY SCIENCE LOG BOOK

MISSION NUMBER 2016 - 10

DATE: From: SEP 22 2016 To: SEP 26 2016

VESSEL: VECTOR

PROJECT(S): STRAIT OF GEORGIA / JUAN DE FUCA

WATER PROPERTIES SURVEY

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

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEP | **Year** 2016 | **Vessel** VECTOR | **Cruise ID** 2016-10

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude N	Longitude W	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
1	SI	22	23:33	BE	NET		48° 39.11	123° 30.02	180		-		RC	☐☐	1/2 m s⁻¹ down
			23:38	BO			°39.10	°30.01		170	-		NH	☐☐	1 m s⁻¹ up
			23:41	EN			°39.10	°30.01			-			☐☐	
			:				° .	° .			-			☑☐	
2	SI	22	23:59	BE	ROS	US	48° 39.11	123° 30.01	180		1 - 9		RC	☐☐	bit station
			24:02	BO			°39.11	°29.99		100	-			☐☐	100 m
			24:10	EN			°39.12	°30.03			-			☐☐	
			:				° .	° .			-			☐☐	
3	58	23	01:56	BE	ROS		48° 43.00	123° 14.35	336		-		RC	☑☐	
			02:04	BO			°43.01	°14.35		336	-			☐☐	
			02:10	EN			°42.95	°14.30			-			☐☐	
			:				° .	° .			-			☐☐	
4	57	23	02:50	BE	ROS		48° 41.03	123° 8.10	157		-		RC	☑☐	
			02:54	BO			°44.05	° 8.15		153	-			☐☐	
			02:57	EN			°44.05	° 8.16			-			☐☐	
			:				° .	° .			-			☐☐	
5	56	23	03:54	BE	ROS	US	48° 46.45	123° 1.60	207		-		RC	☑☐	
			03:59	BO			°46.48	° 1.52		205	-			☐☐	
			04:11	EN			°46.51	° 1.55			-			☐☐	

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
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Notes: _____

depart jetty 1600, test station in Saanich Inlet, 1st rod cast to bottom ~10 m
2nd rosette cast to 100 m (9 bottles)

- weather front expected at entrance to JdF Friday morning - set course for three stations in Boundary Pass (58, 57, 56) + head north to Malaspina Strait station 22 - eta 0500 Friday morning

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6	22	23	12:11	BE	ROS	US	49° 40.20	124° 16.28	355	347	25-27	3	SR	☑ ☐	
			12:18	BO			° 40.20	° 16.33			-			☐ ☐	
			12:27	EN			° 40.21	° 16.31			-			☐ ☐	
7	22	23	12:46	BE	NET		49° 40.19	124° 16.32	350		-		NN	☐ ☐	
			12:57	BO			° 40.140	° 16.358		340	-			☐ ☐	
			13:03	EN			° 40.130	° 16.367			-			☐ ☐	
8	20	23	14:22	BE	ROS		49° 47.19	124° 32.32	312		/	/	SR	☑ ☐	
			14:28	BO			° 47.19	° 32.32		309	-			☐ ☐	
			14:33	EN			° 47.18	° 32.30			-			☐ ☐	
9	19	23	16:32	BE	ROS		50° 1.17	124° 52.92	272		/	/	SR	☑ ☐	
			16:37	BO			° 1.15	° 52.94		271	-			☐ ☐	
			16:42	EN			° 1.15	° 52.96			-			☐ ☐	
10	18	23	17:18	BE	ROS		49° 59.23	124° 58.92	147		-		SR	☑ ☐	
			17:22	BO			° 59.22	° 58.92		143	-			☐ ☐	
			17:24	EN			° 59.22	° 58.91			-			☐ ☐	
11	QU39	23	18:05	BE	ROS		50° 1.86	125° 5.56	273		/	/	SR	☑ ☐	
			18:10	BO			° 1.86	° 5.60		267	-			☐ ☐	
			18:14	EN			° 1.85	° 5.63			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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→ no headspace provided for DIC - used a stopper.

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12	17	23	18:39	BE	ROS		49° 58.78	125° 4.41	269		/	/	SR	☑ ☐	
			18:45	BO			° 58.77	° 4.50		267	-			☐ ☐	
			18:51	EN			° 58.77	° 4.65			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
13	21	23	19:45	BE	ROS		50° 2.03	125° 13.62	78		-		PC	☑ ☐	
			19:46	BO			° 2.03	° 13.62		78	-			☐ ☐	
			19:48	EN			° 2.03	° 13.62			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
14	16	23	20:38	BE	ROS	US	49° 57.69	125° 8.83	157		28 - 39	12	PC	☑ ☐	
			20:41	BO			° 57.69	° 8.85		153	-			☐ ☐	
			20:51	EN			° 57.70	° 8.86			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
15	15	23	21:46	BE	ROS		49° 51.63	125° 1.59	129		-		PC	☑ ☐	
			21:49	BO			° 51.64	° 1.59		127	-			☐ ☐	
			21:51	EN			° 51.63	° 1.52			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
16	14	23	22:17	BE	NET		49° 53.00	124° 59.66	315		-		KS	☐ ☐	
			22:19	BO			° 52.99	° 59.66		305	-		"	☐ ☐	
			22:22	EN			° 52.98	° 59.64			-			☐ ☐	

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17	14	23	22:34	BE	ROS	US	49 ° 53.04	124 ° 59.64	315		40 - 55	16	PC	☑ ☐	
			22:43	BO			° 53.03	° 59.64		305	-			☐ ☐	
			22:58	EN			° 53.01	° 59.48			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
18	13	23	23:26	BE	ROS		49 ° 55.27	124 ° 55.23	235		-		PC	☑ ☐	
			23:31	BO			° 55.32	° 55.21		230	-			☐ ☐	
			23:35	EN			° 55.34	° 55.18			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
19	10	24	01:14	BE	ROS		49 ° 40.68	124 ° 47.29	94		-		PC	☑ ☐	
			01:15	BO			° 40.68	° 47.29		88	-			☐ ☐	
			01:17	EN			° 40.68	° 47.31			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
20	11	24	01:45	BE	ROS		49 ° 42.40	124 ° 43.45	266		-		PC	☑ ☐	depth report from bridge in error 266 & 296
			01:52	BO			° 42.43	° 43.60	296	296	-			☐ ☐	
			01:57	EN			° 42.43	° 43.63			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
21	11	24	02:01	BE	NET		49 ° 42.41	124 ° 43.64	296		-		KS	☐ ☐	1901 local time
			02:09	BO			° 42.40	° 43.64		286	-			☐ ☐	1908
			02:12	EN			° 42.40	° 43.64			-			☐ ☐	1912

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22	12	24	02:34	BE	ROS	US	49 °43.60	124 °40.88	357		56-72	17	R	☑ ☐	bottle 12 fired
			02:40	BO			°43.60	°40.87		351	-			☐ ☐	but no water
			02:57	EN			°43.63	°40.81			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
23	8	24	03:46	BE	ROS		49 °39.33	124 °33.05	337		-		R	☑ ☐	
			03:54	BO			°39.33	°33.06		335	-			☐ ☐	
			03:58	EN			°39.32	°33.01			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
24	9	24	04:36	BE	ROS	US	49 °35.53	124 °38.31	165		73-85	13	R	☑ ☐	no oxygen
			04:39	BO			°35.52	°38.32		164	-			☐ ☐	samples required
			04:43	EN			°35.51	°38.32			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
25	BS17	24	06:28	BE	NET		49 °29.03	124 °45.98	60		-		KS	☐ ☐	23:28 local time
			06:29	BO			°29.03	°45.98		50	-			☐ ☐	23:29
			06:30	EN			°29.03	°45.98			-			☐ ☐	23:30
			:				° .	° .			-			☐ ☐	
26	BS17	24	06:40	BE	ROS	US	49 °29.03	124 °46.01	60		-			☑ ☐	
			06:47	BO			°29.03	°45.99		57	-			☐ ☐	
			06:49	EN			°29.03	°45.98			-			☐ ☐	

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27	5	24	07:57	BE	ROS		49° 27.41	124° 30.85	321		-		SR	☑ ☐	
			08:03	BO			°27.43	°30.86		311	-			☐ ☐	
			08:08	EN			°27.46	°30.87			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
28	CPF2	24	08:18	BE	NET		49° 27.475	124° 30.875	315		-		NN	☐ ☐	Lots of fish
			08:28	BO			°27.514	°30.899			-			☐ ☐	feeding
			08:34	EN			°27.530	°30.910			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
29	6	24	08:57	BE	ROS	US	49° 30.61	124° 27.81	192		-		SR	☑ ☐	still lots of
			09:02	BO			°30.62	°27.80		189	95-108	14		☐ ☐	fish @ surface
			09:15	EN			°30.62	°27.80			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
30	7	24	09:49	BE			49° 34.40	124° 24.16	352		-		SR	☑ ☐	
			09:56	BO			°34.42	°24.11		348	-			☐ ☐	
			10:02	EN			°34.44	°24.08			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
31	3	24	11:06	BE			49° 26.60	124° 20.16	317		109-125	17	SR	☑ ☐	bottle 12 didn't
			11:13	BO			°26.60	°20.15			-			☐ ☐	trip, the mech-
			11:32	EN			°26.60	°20.15			-			☐ ☐	anism was changed

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Page _____ of _____

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32	4	24	11:57	BE	ROS		49°24.54	124°22.10	344		-	-	SR	☑ ☐	
			12:04	BO			°24.56	°22.10		341	-			☐ ☐	
			12:10	EN			°24.57	°22.09			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
33	1	24	13:04	BE	ROS		49°20.32	124°12.17	245		-	-	SR	☑ ☐	
			13:09	BO			°20.33	°12.17		242	-			☐ ☐	
			13:13	EN			°20.34	°12.15			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
34	CPF1	24	13:55	BE	NET		49°21.996	124° 5.139	245		-	-	NN	☐ ☐	
			14:03	BO			°21.983	° 5.138		235	-			☐ ☐	
			14:07	EN			°21.980	° 5.124			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
35	CPF1	24	14:13	BE	ROS		49°21.98	124° 5.08	242		126-128		SR	☑ ☐	
			14:17	BO			°21.96	° 5.07		239	-			☐ ☐	
			14:24	EN			°21.98	° 5.04			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
36	2	24	14:54	BE	ROS	US	49°24.13	124° 4.29	279		129-144		BR	☑ ☐	
			15:00	BO			°24.15	° 4.33		273	-			☐ ☐	
			15:16	EN			°24.13	° 4.34			-			☐ ☐	

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Page _____ of _____

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37	25	24	15:53	BE	ROS		49° 27.68	124° 7.50	295		-	✓	SR	☑ ☐	
			15:59	BO			° 27.68	° 7.45		294	-			☐ ☐	
			16:04	EN			° 27.73	° 7.42			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
38	24	24	16:32	BE	ROS	US	49° 30.31	124° 6.04	427		145-146		SR	☑ ☐	
			16:39				° 30.33	° 6.05			-			☐ ☐	
			16:49				° 30.34	° 6.12			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
39	24	24	16:51	EN	ROS		49° 30.34	124° 6.12	427		147-147			☐ ☐	Just to trip
			:				° .	° .			-			☐ ☐	bot 3 from
40	24	24	17:10		NET		49° 30.34	124° 06.145	427		-			☐ ☐	event 38
			17:22				° 30.317	° 06.173		417	-			☐ ☐	
			17:27				° 30.300	° 06.190			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
41	28	24	19:04	BE	NET		49° 24.14	123° 45.36	133		-			☐ ☐	1204 local
			19:07	BO			° 24.15	° 45.36		123	-			☐ ☐	
			:09	EN			° .15	° .35			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
			:				° .	° .			-			☐ ☐	

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Event 39 was created to trip bottle 3 of Event 38 as it was missed. SR

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Page _____ of _____

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42	28	24	19:19	BE	ROS	US	49 °24.17	123 °45.31	133		165-167	3	R	☑ ☐	bottle data
			19:22	BO			°24.18	°45.31		132	-			☐ ☐	discarded - vents
			19:26	EN			°24.19	°45.32			-			☐ ☐	left open
			:				° .	° .			-			☐ ☐	
43	275	24	19:50	BE	ROS		49 °21.84	123 °46.55	105		-		R	☑ ☐	
			19:53	BO			°21.88	°46.52		103	-			☐ ☐	
			19:55	EN			°21.89	°46.51			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
44	27	24	20:22	BE	ROS	US	49 °19.13	123 °48.06	347		148-164	17	R	☑ ☐	
			20:29	BO			°19.16	°48.02		343	-			☐ ☐	
			20:44	EN			°19.17	°48.01			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
45	265	24	21:27	BE	ROS		49 °16.67	123 °49.48	412		-			☑ ☐	
			21:34	BO			°16.70	°49.50		409	-			☐ ☐	
			21:40	EN			°16.73	°49.42			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
46	26	24	22:01	BE	ROS		49 °14.28	123 °50.25	245		-			☑ ☐	
			22:05	BO			°14.30	°50.21		243	-			☐ ☐	
			22:09	EN			°14.31	°50.76			-			☐ ☐	

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

Time Code:
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Notes: _____

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Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month SEP **Year** 2016 **Vessel** VECTOR **Cruise ID** 2016-10

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
47	GEO 1	24	22:38	BE	ROS	US	49° 15.03	123° 44.93	404		168 - 170	3		☑ ☐	
			22:45	BO			° 14.99	° 44.83		399	-			☐ ☐	
			22:53	EN			° 15.00	° 44.70			-			☐ ☐	
			:				° .	° .			-			☑ ☐	1557 bral
48	GEO 1	24	22:57	BE	NET		49° 15.02	123° 44.69	403		-			☐ ☐	
			23:05	BO			° 15.05	° 44.60		393	-			☐ ☐	1611 bral
			23:11	EN			° 15.06	° 44.53			-			☐ ☐	
			:				° .	° .			-			☑ ☐	1730 bral
49	40	25	00:30	BE	NET		49° 08.61	123° 36.84	141		-			☐ ☐	
			00:33	BO			° 08.63	° 36.84		131	-			☐ ☐	
			00:36	EN			° 08.63	° 36.83			-			☐ ☐	
			:				° .	° .			-			☑ ☐	
50	40	25	00:43	BE	ROS		49° 08.63	123° 36.82	137		-			☐ ☐	
			00:46	BO			° 08.63	° 36.82		135	-			☐ ☐	
			00:48	EN			° 08.63	° 36.82			-			☐ ☐	
			:				° .	° .			-			☑ ☐	replace grease nut on main sheave
51	39	25	01:11	BE	ROS	US	49° 09.81	123° 33.01	366		171 - 192	22		☐ ☐	
			01:17	BO			° 09.83	° 32.97		371	-			☐ ☐	
			01:34	EN			° 09.87	° 32.85			-			☐ ☐	

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lower bracket of altimeter missing fastener - Kenny repaired with nut/bolt

5 depths - particle sampling dedicated to Niskin

0-5
100
50
20
Sfc

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month SEP | **Year** 2016 | **Vessel** VECTOR | **Cruise ID** 2016-10

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
52	38	25	02 : 23	BE	ROS		49 ° 11 . 98	123 ° 26 . 45	306		-		PC	☑ ☐	
			02 : 29	BO			° 11 . 98	° 26 . 45		304	-			☐ ☐	
			02 : 34	EN			° 11 . 98	° 26 . 45			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
53	38	25	02 : 39	BE	NET		49 ° 11 . 98	123 ° 26 . 43	310		-		JW	☐ ☐	1938 local
			02 : 45	BO			° 11 . 97	° 26 . 42		300	-			☐ ☐	
			02 : 49	EN			° 11 . 97	° 26 . 42			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
54	37	25	03 : 27	BE	ROS		49 ° 13 . 57	123 ° 20 . 71	210		-		PC	☑ ☐	
			03 : 31	BO			° 13 . 58	° 20 . 70		208	-			☐ ☐	
			03 : 35	EN			° 13 . 59	° 20 . 70			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
55	108	25	04 : 40	BE	ROS		49 ° 4 . 41	123 ° 19 . 11	87		-		PC	☑ ☐	
			04 : 42	BO			° 4 . 39	° 19 . 13		90	-			☐ ☐	
			04 : 44	EN			° 4 . 38	° 19 . 15			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
56	41	25	05 : 04	BE	ROS		49 ° 3 . 29	123 ° 22 . 31	241		-		PC	☑ ☐	
			05 : 09	BO			° 3 . 31	° 22 . 31		240	-			☐ ☐	
			05 : 13	EN			° 3 . 31	° 22 . 32			-			☐ ☐	

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Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month SEP | **Year** 2016 | **Vessel** VECTOR | **Cruise ID** 2016-10

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
57	41	25	05:17	BE	NET		49 °03.31	123 °22.31	241		-		KS	☐☐	2217 local start time
			05:22	BO			°03.30	°22.31		231	-			☐☐	
			05:26	EN			°03.31	°22.31			-			☐☐	
			:				° .	° .			-			☐☐	
58	42	25	05:55	BE	ROS	US	49 ° 1.80	123 ° 26.22	315		193-209	17	RC	☑☐	
			06:00	BO			° 1.75	° 26.14		317	-			☐☐	
			06:15	EN			° 1.81	° 26.05			-			☐☐	
			:				° .	° .			-			☐☐	
59	43	25	07:03	BE	ROS		49° 0.27	123 °30.09	207		—	—	SR	☑☐	
			07:07	BO			° 0.28	°30.08			-			☐☐	
			07:11	EN			° 0.28	°30.07			-			☐☐	
			:				° .	° .			-			☐☐	
60	106	25	08:23	BE			49° 0.99	123° 13.19	79		-		SR	☑☐	
			08:24	BO			° 0.99	° 13.19		74	-			☐☐	
			08:26	EN			° 0.99	° 13.19			-			☐☐	
			:				° .	° .			-			☐☐	
61	107		09:02	BE			48°58.42	123° 18.00	182		-			☐☐	
			09:05	BO			°58.42	° 18.00		178	-			☐☐	
			09:08	EN			°58.42	° 18.00			-			☐☐	

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Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month	Year	Vessel	Cruise ID

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
62	46	25	10:10	BE	NET		48°51.393	123°10.775	175		-		NN	☐☐	
			10:17	BO			°51.388	123°10.789			-			☐☐	
			10:20	EN			°51.392	123°10.791			-			☐☐	
			:				° .	° .			-			☐☐	
63	46	25	10:23	BE	ROS	45	48°51.40	123°10.78	178		210-222	13	SR	☑☐	
			10:27	BO			°51.39	°10.78		175	-			☐☐	
			10:40	EN			°51.40	°10.79			-			☐☐	
			:				° .	° .			-			☐☐	
64	45	25	11:12	BE	ROS		48°53.91	123°8.40	127		-		SR	☑☐	
			11:15	BO			°53.90	°8.39		124	-			☐☐	
			11:17	EN			°53.88	°8.39			-			☐☐	
			:				° .	° .			-			☐☐	
65	44	25	11:44	BE	ROS		48°56.82	123°5.99	120		-		SR	☑☐	
			11:46	BO			°56.82	°5.99		117	-			☐☐	
			11:48	EN			°56.82	°5.996			-			☐☐	
			:				° .	° .			-			☐☐	
66	50	25	12:33	BE	ROS		48°57.70	122°56.10	27		-		SR	☑☐	
			12:33	BO			°57.70	°56.11		23	-			☐☐	
			12:33	EN			°57.70	°56.11			-			☐☐	

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Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month	Year	Vessel	Cruise ID

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
67	49	25	13:02	BE	ROS		48° 55.01	122° 59.59	131		-	/	SR	☑ ☐	
			13:05	BO			° 54.99	° 59.57		127	-			☐ ☐	
			13:07	EN			° 54.98	° 59.56			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
68	48	25	13:45	BE	ROS		48° 51.68	123° 3.18	220		-		SR	☑ ☐	
			13:49	BO			° 51.67	° 3.19		216	-			☐ ☐	
			13:52	EN			° 51.65	° 3.21			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
69	47	25	14:17	BE	ROS		48° 49.29	123° 6.24	182		-		SR	☑ ☐	
			14:20	BO			° 49.30	° 6.27		177	-			☐ ☐	
			14:23	EN			° 49.29	° 6.28			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
70	51	25	15:30	BE	ROS		48° 46.70	122° 51.68	163		-		SR	☑ ☐	
			15:33	BO			° 46.70	° 51.70		160	-			☐ ☐	
			15:36	EN			° 46.72	° 51.73			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
71	52	25	16:44	BE	ROS		48° 38.92	122° 43.26	84		-		SR	☑ ☐	
			16:46	BO			48° 38.92	° 43.26		81	-			☐ ☐	
			16:47	EN			° 38.92	° 43.25			-			☐ ☐	

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WaterProperties.ca
Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month SEP **Year** 2016 **Vessel** VECTOR **Cruise ID** 2016-10

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
72	53	25	17:34	BE	ROS		48° 33.23	122° 45.01	63		-		SR	☑ ☐	
			17:35	BO			°33.24	°45.01		59	-			☐ ☐	
			17:36	EN			°33.24	°45.01			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
73	54	25	18:29	BE	ROS		48°26.64	122° 44.35	81		-		SR	☑ ☐	
			18:30	BO			°26.65	°44.36		77	-			☐ ☐	
			18:32	EN			°26.66	°44.37			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
74	62	25	20:10	BE	ROS	US	48°22.84	123° 2.63	147		225-234	12	PR	☑ ☐	
			20:14	BO			°22.84	° 2.64		146	-			☐ ☐	
			20:23	EN			°22.86	° 2.65			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
75	63	25	21:21	BE	ROS	US	48°14.61	122°58.53	152		235-237	3	PR	☐ ☐	
			21:23	BO			°14.60	°58.54		150	-			☐ ☐	
			21:27	EN			°14.60	°58.53			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
76	63	25	21:31	BE	NET		48°14.61	122°58.52	152		-			☐ ☐	1431 back on deck
			21:33	BO			°14.59	°58.52			-			☐ ☐	
			21:35	EN			°14.58	°58.51			-			☐ ☐	

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Version: 14 February 2013

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month SEP **Year** 2016 **Vessel** VECTOR **Cruise ID** 2016-10

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
77	64	25	22:16	BE	ROS		48° 12.81	123° 5.75	106		-		RC	☑ ☐	
			22:20	BO			° 12.81	° 5.76		104	-			☐ ☐	
			22:21	EN			° 12.82	° 5.76			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
78	65	25	22:51	BE	ROS	US	48° 15.93	123° 9.85	124		238-248	11	RC	☑ ☐	Bottle 11 has
			22:55	BO			° 15.94	° 9.84		120	-			☐ ☐	chip in seal
			23:05	EN			° 15.94	° 9.84			-			☐ ☐	bottom
			:				° .	° .			-			☐ ☐	
79	66	25	23:42	BE	ROS		48° 19.26	123° 14.15	102		-		RC	☑ ☐	
			23:44	BO			° 19.26	° 14.17		99	-			☐ ☐	
			23:45	EN			° 19.25	° 14.20			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
80	67	26	00:40	BE	ROS		48° 22.84	123° 18.16	104		-		RC	☑ ☐	
			00:42	BO			° 22.82	° 18.17		102	-			☐ ☐	
			00:43	EN			° 22.81	° 18.17			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
81	104	26	1:07	BE	ROS		43° 20.008	123° 18.121	83		-		JW	☑ ☐	
			1:09	BO			° 20.012	123° 18.222		81	-			☐ ☐	
			:	EN			° 20.014	123° 18.229			-			☐ ☐	

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Version: 14 February 2013

- bottle 4 out of service until Scott examines it

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month SEP | **Year** 2016 | **Vessel** Vector | **Cruise ID** 2016-10

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
82	adcp	26	1:55	BE	ROS	US	48° 14.042	123° 18.101	119		249-259	11	JW	☑ ☐	
			1:57	BO			° 14.06	° 18.18		116	-			☐ ☐	
			2:07	EN			° 14.03	° 18.36			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
83	105	26	02:31	BE	ROS		48° 10.94	123° 19.01	81		-		RE	☑ ☐	
			02:33	BO			° 10.94	° 19.01			-			☐ ☐	
			02:34	EN			° 10.94	° 19.01			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
84	68	26	04:02	BE	ROS		48° 12.19	123° 43.06	138		-		RE	☑ ☐	
			04:10	BO			° 12.20	° 43.05		136	-			☐ ☐	
			04:12	EN			° 12.20	° 43.03			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
85	69	26	04:41	BE	ROS	US	48° 15.64	123° 43.20	178		-		RE	☑ ☐	no bottle 11
			04:43	BO			° 15.64	° 43.20		176	-			☐ ☐	
			04:54	EN			° 15.64	° 43.18			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
86	70	26	05:29	BE	ROS		48° 19.18	123° 43.23	150		-		RE	☑ ☐	
			05:33	BO			° 19.16	° 43.25		149	-			☐ ☐	
			05:36	EN			° 19.15	° 43.24			-			☐ ☐	

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Notes: _____

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14 min 11 CTD 4hrs
20

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEP **Year** 2016 **Vessel** VECTOR **Cruise ID** 2016-10 **Page** _____ of _____

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
87	71	26	06:49	BE	ROS		48° 22.18	123° 59.46	108		-		EC	☑ ☐	
			06:51	BO			° 22.19	° 59.49		107	-			☐ ☐	
			06:53	EN			° 22.19	° 59.50			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
88	72	26	07:28	BE	NET		48° 18.611	124° 4.042	189		-		NW	☐ ☐	
			07:35	BO			° 18.621	° 4.046		177	-			☐ ☐	
			07:38	EN			° 18.645	° 4.049			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
89	72	26	07:46	BE	ROS		48° 18.67	124° 4.09	189		-		SR	☑ ☐	
			07:50	BO			° 18.68	° 4.12		184	-			☐ ☐	
			08:09	EN			° 18.71	° 4.13			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
90	73	26	08:54	BE	ROS		48° 15.03	124° 6.67	162		-		SR	☑ ☐	
			08:57	BO			° 15.04	° 6.68		158	-			☐ ☐	
			08:59	EN			° 15.05	° 6.69			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
91	74	26	11:07	BE	ROS	US	48° 25.17	124° 35.69	186		-		SR	☑ ☐	
			11:10	BO			° 25.19	° 35.80		182	-			☐ ☐	
			11:14	EN			° 25.19	° 35.91			-			☐ ☐	

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Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month	Year	Vessel	Cruise ID

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
92	75	26	11 :44	BE	ROS	US	48°28.24	124°32.89	223		290-305	16	SR	☑ ☐	
			11 :49	BO			°28.25	°32.96		220	-			☐ ☐	
			12 :05	EN			°28.31	°32.99			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
93	76	26	12 :46	BE	ROS		48°31.43	124°30.02	88		/ -	/	SR	☑ ☐	
			12 :47	BO			°31.43	°30.03		84	-			☐ ☐	
			12 :49	EN			°31.44	°30.03			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
94	103	26	13 :45	BE	ROS		48°33.05	124°43.10	120		/ -	/	SR	☑ ☐	
			13 :47	BO			°33.07	°43.21		117	-			☐ ☐	
			13 :49	EN			°33.09	°43.29			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
95	102	26	14 :16	BE	ROS	US	48°30.02	124°44.08	257		306-321	16	SR	☑ ☐	
			14 :21	BO			°30.08	°44.35			-			☐ ☐	
			14 :33	EN			°30.10	°44.59			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
96	101	26	15 :20	BE	ROS		48°25.36	124°45.27	212		/ -	/	SR	☑ ☐	
			15 :25	BO			°25.32	°45.50		207	-			☐ ☐	
			15 :29	EN			°25.28	°45.64			-			☐ ☐	

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month SEP | **Year** 2016 | **Vessel** VECTOR | **Cruise ID** 2016-10 | Page _____ of _____

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information Latitude	Positional Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
97	61	26	22 :24	BE	ROS		48 ° 29 . 22	123 ° 9 . 30	285		-		RC	☑ ☐	hyst pH
			22 :28	BO			° 29 . 20	° 9 . 31		275	-			☐ ☐	
			22 :33	EN			° 29 . 13	° 9 . 42			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
98	60	26	23 :08	BE	ROS		48 ° 33 . 89	123 ° 12 . 77	293		-		RC	☑ ☐	
			23 :13	BO			° 33 . 92	° 12 . 82		290	-			☐ ☐	
			23 :17	EN			° 33 . 92	° 12 . 80			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
99	59	26	23 :46	BE	NET		48 ° 37 . 79	123 ° 13 . 98	250		-			☐ ☐	bucket 1646
			23 :49	BO			° 37 . 70	° 13 . 96		240	-			☐ ☐	
			23 :52	EN			° 37 . 62	° 13 . 98			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
100	59	27	00 :02	BE	ROS	US	48 ° 37 . 62	123 ° 14 . 02	245		322-337	16		☑ ☐	bottle 11 not
			00 :06	BO			° 37 . 79	° 14 . 00		244	-			☐ ☐	used
			00 :18	EN			° 37 . 86	° 13 . 99			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
101	G101	27	01 :25	BE	ROS		48 ° 45 . 83	123 ° 20 . 51	65		-			☑ ☐	1825 bucket
			01 :26	BO			° 45 . 84	° 20 . 51		64	-			☐ ☐	
			01 :27	EN			° 45 . 84	° 20 . 51			-			☐ ☐	

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This page is for any notes or observations

EVENT #	STN NAME	DAY	TIME	TIME CODE	EVENT TYPE	LAT	LONG	Bottom Depth	Net Pressure	Watch keepers
102	G101	27	0130	BE	NET	48 45.84	123 20.48	65		KS JW
			0131	BO		45.84	20.48		55	
			0132	EN		45.84	20.48			
103	SC-04	27	0203	BE	NET	48 43.51	123 24.98	92		KS JW
			0204	BO		43.51	24.99		82	
			0205	EN		43.50	24.99			
104	SC04	27	0213	BE	ROS	48 43.51	123 25.00	92		KS
			0215	BO		43.51	25.00		29	
			0217	EN		43.52	25.00			