

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2013 - 13

DATE:

From: 27 JUNE 2013 To:

VESSEL:

CCGS 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

WaterProperties.ca

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 1 of

180
K00
6/28/2013
2:06 PM

Month <u>JUNE</u>			Year <u>2013</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2013-13</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
1	SI	28	02:02	BE	ROS	US	48° 39.80	123° 30.10	171		1 - 9		PC	<input checked="" type="checkbox"/>	Test cast @ SI
			02:04	BO			° 39.80	° 30.10		108	-	9		<input type="checkbox"/>	Fired all bottles
			02:15	EN			° 39.77	° 30.10			-			<input type="checkbox"/>	for testing
2	58	28	03:46	BE	ROS		48° 43.00	123° 14.28	330		-		R	<input checked="" type="checkbox"/>	
			03:55	BO			° 42.97	° 14.17		319	-			<input type="checkbox"/>	
			04:03	EN			° 42.97	° 13.90			-			<input type="checkbox"/>	
3	59	28	04:53	BE	ROS	US	48° 37.82	123° 14.58	233		10 - 23			<input checked="" type="checkbox"/>	air temp 11°C
			04:58	BO			° 37.82	° 14.56		233	-	14		<input type="checkbox"/>	
			05:12	EN			° 37.92	° 14.54			-			<input type="checkbox"/>	
4	60	28	05:49	BE	ROS		48° 33.89	123° 12.79	294		-		PC	<input checked="" type="checkbox"/>	cast aborted
			:	BO			° .	° .			-			<input type="checkbox"/>	ship need to
			:	EN			° .	° .			-			<input type="checkbox"/>	reposition
5	60	28	06:08	BE	ROS		48° 33.84	123° 12.57	280		-		PC	<input type="checkbox"/>	
			06:13	BO			° 33.85	° 12.55		275	-			<input type="checkbox"/>	
			06:17	EN			° 33.85	° 12.50			-			<input type="checkbox"/>	
6	61	28	07:02	BE	ROS		48° 29.17	123° 9.23	285		-		R	<input checked="" type="checkbox"/>	
			07:08	BO			° 29.17	° 9.24		284	-			<input type="checkbox"/>	
			07:13	EN			° 29.18	° 9.24			-			<input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/>	

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
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Bottle Firing Method:
 US = Up / Stop (default)
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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
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Notes:

depart. Pol Bay - clear & calm depart 18h22 local

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month <u>June</u>			Year <u>2013</u>			Vessel <u>Vector</u>			Cruise ID <u>2013-13</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
7	101	28	14:48	BE	ROS		48°25.52	124°45.03	240		-	/	SR	<input checked="" type="checkbox"/>	Pressure on deck
			14:53	BO			°25.54	°45.02		243	-			<input type="checkbox"/>	is 1.00
			14:57	EN			°25.58	°44.99			-			<input type="checkbox"/>	
8	102	28	15:33	BE	ROS	US	48°29.99	124°43.98	254		24-37	14	SR	<input checked="" type="checkbox"/>	
			15:38	BO			°29.95	°43.96		253	-			<input type="checkbox"/>	
			15:54	EN			°29.93	°43.92			-			<input type="checkbox"/>	
9	103	28	16:29	BE	ROS	US	48°32.94	124°42.94	120		/	/	SR	<input checked="" type="checkbox"/>	
			16:32	BO			°32.95	°42.94		120	-			<input type="checkbox"/>	
			16:34	EN			°32.95	°42.93			-			<input type="checkbox"/>	
10	76	28	17:34	BE	ROS		48°31.43	124°29.94	84		/	/	SR	<input checked="" type="checkbox"/>	
			17:36	BO			°31.44	°29.93		80	-			<input type="checkbox"/>	
			17:37	EN			°31.45	°29.93			-			<input type="checkbox"/>	
11	75	28	18:07	BE	ROS		48°28.22	124°32.82	223		38-50	13	SR	<input checked="" type="checkbox"/>	
			18:11	BO			°28.17	°32.86		220	-			<input type="checkbox"/>	
			18:28	EN			°27.99	°33.08			-			<input type="checkbox"/>	
12	74	28	18:55	BE	ROS		48°25.12	124°35.65	184		-		R	<input checked="" type="checkbox"/>	
			18:59	BO			°25.11	°35.66		181	-			<input type="checkbox"/>	
			19:03	EN			°25.10	°35.69			-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	

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Produced by the Water Properties Group, IOS
 WaterProperties.ca
 Version: 14 February 2013

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Ocean Sciences Division, Institute of Ocean Sciences

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13	73	28	21:20	BE	ROS		48° 14.95	124° 6.60	160		-		PC	<input checked="" type="checkbox"/> <input type="checkbox"/>	no temp 19°C
			21:23	BO			° 14.92	° 6.57		157	-			<input type="checkbox"/> <input type="checkbox"/>	
			21:26	EN			° 14.91	° 6.56			-			<input type="checkbox"/> <input type="checkbox"/>	
14	72	28	21:59	BE	ROS	US	48° 18.64	124° 3.99	186		51-63		PC	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			22:04	BO			° 18.64	° 4.00		183	-	13		<input type="checkbox"/> <input type="checkbox"/>	
			22:17	EN			° 18.59	° 3.96			-			<input type="checkbox"/> <input type="checkbox"/>	
15	71	28	22:58	BE	ROS		48° 22.14	123° 59.40	110		-		PC	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			22:59	BO			° 22.14	° 59.40		107	-			<input type="checkbox"/> <input type="checkbox"/>	
			23:01	EN			° 22.13	° 59.40			-			<input type="checkbox"/> <input type="checkbox"/>	
16	70	29	00:12	BE	ROS		48° 19.23	123° 43.13	150		-		PC	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			00:15	BO			° 19.25	° 43.12		149	-			<input type="checkbox"/> <input type="checkbox"/>	
			00:18	EN			° 19.27	° 43.09			-			<input type="checkbox"/> <input type="checkbox"/>	
17	69	29	00:58	BE	ROS	US	48° 15.52	123° 43.20	175		64-75			<input checked="" type="checkbox"/> <input type="checkbox"/>	
			01:02	BO			° 15.52	° 43.06		173	-	12		<input type="checkbox"/> <input type="checkbox"/>	
			01:14	EN			° 15.50	° 42.81			-			<input type="checkbox"/> <input type="checkbox"/>	
18	68	29	01:50	BE	ROS		48° 12.21	123° 42.89	137		-			<input checked="" type="checkbox"/> <input type="checkbox"/>	more fluorescence
			01:52	BO			° 12.23	° 42.69		136	-			<input type="checkbox"/> <input type="checkbox"/>	on south side of
			01:55	EN			° 12.25	° 42.59			-			<input type="checkbox"/> <input type="checkbox"/>	Strait
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	

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JUNE			2013			VECTOR			2013-13						
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							Latitude	Longitude							
19	105	29	03:20	BE	ROS		48° 10.99	123° 18.90	85		-		PC	<input checked="" type="checkbox"/>	
			03:23	BO			° 11.02	° 18.89		83	-			<input type="checkbox"/>	
			03:24	EN			° 11.00	° 18.86			-			<input type="checkbox"/>	
20	ADCP	29	03:53	BE	ROS	US	48° 14.00	123° 17.96	120		76-85		PC	<input checked="" type="checkbox"/>	air temp 13°C
			03:56	BO			° 14.02	° 17.95		118	-	10		<input type="checkbox"/>	
			04:05	EN			° 14.14	° 17.80			-			<input type="checkbox"/>	
21	104	29	04:51	BE	ROS		48° 20.05	123° 17.97	83		-		PC	<input checked="" type="checkbox"/>	
			04:54	BO			° 20.01	° 17.97		82	-			<input type="checkbox"/>	
			04:55	EN			° 20.01	° 17.97			-			<input type="checkbox"/>	
22	67	29	05:22	BE	ROS		48° 22.79	123° 18.16	106		-		PC	<input checked="" type="checkbox"/>	
			05:26	BO			° 22.78	° 18.13		105	-			<input type="checkbox"/>	
			05:28	EN			° 22.77	° 18.11			-			<input type="checkbox"/>	
23	66	29	06:03	BE	ROS		48° 19.30	123° 14.08	101		-		PC	<input checked="" type="checkbox"/>	
			06:06	BO			° 19.29	° 14.06		97	-			<input type="checkbox"/>	
			06:07	EN			° 19.28	° 14.05			-			<input type="checkbox"/>	
24	65	29	06:42	BE	ROS	US	48° 15.88	123° 9.81	125		-		PC	<input checked="" type="checkbox"/>	
			06:45	BO			° 15.90	° 9.82		122	-			<input type="checkbox"/>	
			06:55	EN			° 15.92	° 9.88			-			<input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/>	

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Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
25	64	29	07:36	BE	ROS		48° 12.80	123° 5.81	110		/	/	SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			07:39	BO			° 12.79	° 5.80		107	-			<input type="checkbox"/> <input type="checkbox"/>	
			07:40	EN			° 12.77	° 5.81			-			<input type="checkbox"/> <input type="checkbox"/>	
26	63	29	08:26	BE	ROS		48° 14.59	122° 58.55	154		/	/	SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			08:28	BO			° 14.61	° 58.57		152	-			<input type="checkbox"/> <input type="checkbox"/>	
			08:31	EN			° 14.63	° 58.60			-			<input type="checkbox"/> <input type="checkbox"/>	
27	62	29	09:42	BE	ROS	US	48° 22.80	123° 2.59	147		96-106	11	SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			09:45	BO			° 22.79	° 2.58		145	-			<input type="checkbox"/> <input type="checkbox"/>	
			09:56	EN			° 22.80	° 2.58			-			<input type="checkbox"/> <input type="checkbox"/>	
28	54	29	11:37	BE	ROS		48° 26.57	122° 44.33	79		/	/	SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			11:39	BO			° 26.57	° 44.33		76	-			<input type="checkbox"/> <input type="checkbox"/>	
			11:40	EN			° 26.56	° 44.33			-			<input type="checkbox"/> <input type="checkbox"/>	
29	53	29	12:38	BE	ROS		48° 33.21	122° 45.00	61		-		SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			12:39	BO			° 33.20	° 45.00		56	-			<input type="checkbox"/> <input type="checkbox"/>	
			12:40	EN			° 33.20	° 45.00			-			<input type="checkbox"/> <input type="checkbox"/>	
30	52	30	13:27	BE	ROS		48° 38.92	122° 43.27	84		-		SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			13:29	BO			° 38.92	° 43.27		78	-			<input type="checkbox"/> <input type="checkbox"/>	
			13:30	EN			° 38.92	° 43.27			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/> <input type="checkbox"/>	

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Month <u>June</u>			Year <u>2013</u>			Vessel <u>Vector</u>			Cruise ID <u>2013-13</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
31	51	29	14:43	BE	ROS		48° 46.68	122° 51.63	163		-	/	SR	<input checked="" type="checkbox"/>	
			14:47	BO			° 46.66	° 51.63		158	-			<input type="checkbox"/>	
			14:50	EN			° 46.63	° 51.62			-			<input type="checkbox"/>	
32	57	29	16:14	BE	ROS		48° 44.03	123° 8.06	157		-	/	SR	<input checked="" type="checkbox"/>	
			16:17	BO			° 44.04	° 8.09		151	-			<input type="checkbox"/>	
			16:20	EN			° 44.04	° 8.11			-			<input type="checkbox"/>	
33	56	29	16:58	BE	ROS	US	48° 46.43	123° 1.63	206		107-120	14	SR	<input checked="" type="checkbox"/>	
			17:02	BO			° 46.44	° 1.62		204	-			<input type="checkbox"/>	
			17:18	EN			° 46.44	° 1.61			-			<input type="checkbox"/>	
34	47	29	18:06	BE	ROS		48° 49.30	123° 6.18	185		-	/	SR	<input checked="" type="checkbox"/>	
			18:09	BO			° 49.31	° 6.16			-			<input type="checkbox"/>	
			18:13	EN			° 49.33	° 6.15			-			<input type="checkbox"/>	
35	48	29	18:37	BE	ROS		48° 51.70	123° 3.16	223		-	/	SR	<input checked="" type="checkbox"/>	
			18:41	BO			° 51.70	° 3.11		218	-			<input type="checkbox"/>	
			18:44	EN			° 51.70	° 3.07			-			<input type="checkbox"/>	
36	49	29	19:17	BE	ROS		48° 54.99	122° 59.58	130		-		RE	<input checked="" type="checkbox"/>	air temp 19°C
			19:20	BO			° 55.00	° 59.59		128	-			<input type="checkbox"/>	
			19:22	EN			° 54.98	° 59.58			-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	

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							Latitude	Longitude							
37	50	29	19:53	BE	ROS		48° 51.70	122° 56.06	26		/	/	PC/MG/KS	<input checked="" type="checkbox"/> <input checked="" type="checkbox"/>	
			19:55	BO			48° 57.71	122° 56.05		24	-			<input type="checkbox"/> <input type="checkbox"/>	
			19:56	EN			48° 57.71	122° 56.05			-			<input type="checkbox"/> <input type="checkbox"/>	
38	44	29	20:53	BE	ROS		48° 56.78	123° 5.97	119		/	/	PC/MG/KS	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			20:56	BO			48° 56.70	123° 5.95		117	-			<input type="checkbox"/> <input type="checkbox"/>	
			20:58	EN			48° 56.65	123° 5.90			-			<input type="checkbox"/> <input type="checkbox"/>	
39	45	29	21:35	BE	ROS		48° 53.87	123° 8.37	126				RE	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			21:38	BO			48° 53.87	123° 8.37		125	-			<input type="checkbox"/> <input type="checkbox"/>	
			21:41	EN			48° 53.87	123° 8.37			-			<input type="checkbox"/> <input type="checkbox"/>	
40	46	29	22:06	BE	ROS	US	48° 51.38	123° 16.85	180		121-132		PC/MG/KS	<input checked="" type="checkbox"/> <input type="checkbox"/>	bottle 10
			22:10	BO			48° 51.37	123° 16.87		180	-	12		<input type="checkbox"/> <input type="checkbox"/>	misfire
			22:24	EN			48° 51.28	123° 16.93			-			<input type="checkbox"/> <input type="checkbox"/>	
41	106	29	23:34	BE	ROS		49° 0.98	123° 13.17	75					<input checked="" type="checkbox"/> <input type="checkbox"/>	fine bottle 10
			23:37	BO			° 1.00	° 13.18		72	-			<input type="checkbox"/> <input type="checkbox"/>	test - good!
			23:39	EN			° 1.00	° 13.18			-			<input type="checkbox"/> <input type="checkbox"/>	
42	107	30	00:32	BE	ROS		48° 58.42	123° 18.06	180					<input checked="" type="checkbox"/> <input type="checkbox"/>	
			00:36	BO			° 58.44	° 18.06		177	-			<input type="checkbox"/> <input type="checkbox"/>	
			00:40	EN			° 58.46	° 18.05			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	

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Notes:

- possible interference with sea cable - add extra zap strap to provide more clearance between bottle and sea cable

- test top bottle is - proper operation

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							Latitude	Longitude							
43	43	30	01:38	BE	ROS		49° 0.02	123° 30.03	185		-		RE	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			01:42	BO			° 0.01	° 30.01		178	-			<input type="checkbox"/> <input type="checkbox"/>	
			01:45	EN			° 0.01	° 30.15			-			<input type="checkbox"/> <input type="checkbox"/>	
44	42	30	02:14	BE	ROS	US	49° 1.77	123° 26.23	320		133-148		RE	<input checked="" type="checkbox"/> <input type="checkbox"/>	bottle 20 also
			02:22	BO			° 1.73	° 26.33		316	-	16		<input type="checkbox"/> <input type="checkbox"/>	find at 50 m
			02:40	EN			° 1.74	° 26.36			-			<input type="checkbox"/> <input type="checkbox"/>	
45	SCOR1	30	03:26	BE	NET		49° 03.30	123° 22.37	245		-		HG	<input type="checkbox"/> <input type="checkbox"/>	vertical score
			03:27	BO			° 03.30	° 22.37		50	-			<input type="checkbox"/> <input type="checkbox"/>	haul off at
			03:28	EN			° 03.30	° 22.37			-			<input type="checkbox"/> <input type="checkbox"/>	1.3 min?
46	SCOR1	30	03:34	BE	NET		49° 03.29	123° 22.36	245		-		HG	<input type="checkbox"/> <input type="checkbox"/>	
			03:47	BO			° 03.29	° 22.31		235	-			<input type="checkbox"/> <input type="checkbox"/>	low angle 14-29
			03:53	EN			° 03.27	° 22.28			-			<input type="checkbox"/> <input type="checkbox"/>	
47	41	30	04:11	BE	ROS		49° 3.29	123° 22.20	235		-		RE	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			04:16	BO			° 3.28	° 22.21		235	-			<input type="checkbox"/> <input type="checkbox"/>	
			04:20	EN			° 3.26	° 22.23			-			<input type="checkbox"/> <input type="checkbox"/>	
48	108	30	04:44	BE	ROS		49° 4.03	123° 19.13	114		-		RE	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			04:47	BO			° 4.03	° 19.12		111	-			<input type="checkbox"/> <input type="checkbox"/>	
			04:49	EN			° 4.03	° 19.13			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	

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Notes:

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reposition to avoid fugate discharges dredge spoil

- weather - warm & sunny - $> 20^{\circ}\text{C}$ air temp

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month			Year			Vessel			Cruise ID						
JUN			2013			VECTOR			2013-13						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
49	37	30	05:59	BE	ROS		49° 13.61	123° 20.70	214		-		R	<input checked="" type="checkbox"/> <input type="checkbox"/>	air temp 18°C
			06:03	BO			° 13.62	° 20.69		210	-			<input type="checkbox"/> <input type="checkbox"/>	
			06:07	EN			° 13.62	° 20.68			-			<input type="checkbox"/> <input type="checkbox"/>	
50	38	30	06:39	BE	ROS		49° 12.01	123° 26.37	309		-		PC	<input type="checkbox"/> <input type="checkbox"/>	
			06:45	BO			° 11.95	° 26.32		304	-			<input type="checkbox"/> <input type="checkbox"/>	
			06:51	EN			° 11.93	° 26.29			-			<input type="checkbox"/> <input type="checkbox"/>	
51	39	30	07:29	BE	ROS		49° 9.83	123° 32.99			-		SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			07:37	BO			° 9.84	° 32.97		372	149-165			<input type="checkbox"/> <input type="checkbox"/>	
			07:56	EN			° 9.86	° 32.98			-			<input type="checkbox"/> <input type="checkbox"/>	
52	40	30	08:24	BE	ROS		49° 8.60	123° 36.79	155		-		SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			08:27	BO			° 8.60	° 36.80		150	-			<input type="checkbox"/> <input type="checkbox"/>	
			08:31	EN			° 8.61	° 36.82			-			<input type="checkbox"/> <input type="checkbox"/>	
53	GE01	30	09:47	BO	NET		49° 14.99	123° 44.91	400	50	-		SR	<input type="checkbox"/> <input type="checkbox"/>	
54			09:58	BO	NET		° 14.99	° 44.94			-		SR	<input type="checkbox"/> <input type="checkbox"/>	Lost sample →
55	26	30	10:35	BE	ROS		49° 14.29	123° 50.78	242		-		SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			10:40	BO			° 14.28	° 50.81		240	-			<input type="checkbox"/> <input type="checkbox"/>	
			10:44	EN			° 14.28	° 50.83			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/> <input type="checkbox"/>	

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This page is for any notes or observations

Jelly fish plugged the net completely, lost the sample getting them out.

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <i>June</i>			Year <i>2013</i>			Vessel <i>Vector</i>			Cruise ID <i>2013-13</i>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
56	27	30	11:24	BE	ROS	US	49°19.11	123°47.98	346		166-181	16	SR	<input checked="" type="checkbox"/>	
			11:31	BO			°19.11	°47.98			-			<input type="checkbox"/>	
			11:51	EN			°19.06	°47.95			-			<input type="checkbox"/>	
57	28	30	12:30	BE	ROS		49°24.08	123°45.27	136				SR	<input checked="" type="checkbox"/>	
			12:33	BO			°24.08	°45.27		132	-			<input type="checkbox"/>	
			12:35	EN			°24.08	°45.27			-			<input type="checkbox"/>	
58	24	30	14:14	BE	ROS		49°30.29	124°6.02	426				SR	<input checked="" type="checkbox"/>	
			14:22	BO			°30.29	°6.00		423	-			<input type="checkbox"/>	
			14:30	EN			°30.30	°5.98			-			<input type="checkbox"/>	
59	25	30	14:54	BE	ROS		49°27.70	124°7.52	294				SR	<input checked="" type="checkbox"/>	
			14:59	BO			°27.70	°7.52		287	-			<input type="checkbox"/>	
			15:04	EN			°27.70	°7.51			-			<input type="checkbox"/>	
60	2	30	15:33	BE	ROS	US	49°24.09	124°9.29	276		182-196	15	SR	<input checked="" type="checkbox"/>	
			15:39	BO			°24.11	°9.32			-			<input type="checkbox"/>	
			15:52	EN			°24.16	°9.34			-			<input type="checkbox"/>	
61	CPF1	30	16:37	BO	Net		49°21.99	124°5.81	243	50			SR	<input type="checkbox"/>	
62	CPF1	30	16:48	BO	Net		49°21.98	124°5.04		235			SR	<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/>	

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WaterProperties.ca
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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month <i>June</i>			Year <i>2013</i>			Vessel <i>Vector</i>			Cruise ID <i>2013-13</i>						
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/FI Cleaned	Comments
63	1	30	17:32	BE	ROS		49°20.30	124°12.09	247		/	/	SK	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			17:43	BO			°20.30	°12.09		242	-			<input type="checkbox"/> <input type="checkbox"/>	
			17:48	EN			°20.22	°12.09			-			<input type="checkbox"/> <input type="checkbox"/>	
64	4	30	18:40	BE	ROS		49°24.49	124°22.15	343		/	/	SK	<input checked="" type="checkbox"/> <input type="checkbox"/>	Winch operator
			18:46	BO			°24.48	°22.15		337	-			<input type="checkbox"/> <input type="checkbox"/>	change @ 170 db
			18:51	EN			°24.48	°22.15			-			<input type="checkbox"/> <input type="checkbox"/>	
65	3	30	19:12	BE	ROS	US	49°26.59	124°20.23	325		197-212		RE	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			19:18	BO			°26.59	°20.25		320	-	16		<input type="checkbox"/> <input type="checkbox"/>	
			19:34	EN			°26.60	°20.32			-			<input type="checkbox"/> <input type="checkbox"/>	
66	5	30	20:27	BE	ROS		49°27.40	124°30.84	315		-		RE	<input checked="" type="checkbox"/> <input type="checkbox"/>	-TSK counter
			20:33	BO			°27.40	°30.83		310	-			<input type="checkbox"/> <input type="checkbox"/>	stained
			20:38	EN			°27.38	°30.79			-			<input type="checkbox"/> <input type="checkbox"/>	rosette frame
67	CPF2	30	20:54	BE	NET		49°28.01	124°30.01	351		-			<input type="checkbox"/> <input type="checkbox"/>	
			20:57	BO			°28.00	°30.01		50	-			<input type="checkbox"/> <input type="checkbox"/>	
			20:58	EN			°28.01	°30.01			-			<input type="checkbox"/> <input type="checkbox"/>	off A-frame
68	CPF2	30	21:03	BE	NET		49°27.95	124°30.02	328		-			<input type="checkbox"/> <input type="checkbox"/>	
			21:07	BO			°27.91	°30.02		320	-			<input type="checkbox"/> <input type="checkbox"/>	
			21:22	EN			°27.80	°30.12			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/> <input type="checkbox"/>	

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month			Year			Vessel			Cruise ID						
JUNE / JULY			2013			VECTOR			2013-13						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/Fl Cleaned	Comments
							Latitude	Longitude							
69	6	30	21:59	BE	ROS	US	49° 30.66	124° 27.74	193		213-225		K	<input checked="" type="checkbox"/> <input type="checkbox"/>	air temp 25°C
			22:03	BO			° 30.66	° 27.74			-	13	KE	<input type="checkbox"/> <input type="checkbox"/>	
			22:15	EN			° 30.65	° 27.72			-		KJ	<input type="checkbox"/> <input type="checkbox"/>	
70	7	30	22:49	BE	ROS		49° 34.42	124° 24.18	352		-			<input checked="" type="checkbox"/> <input type="checkbox"/>	water temp 12°C
			22:55	BO			° 34.44	° 24.18		348	-			<input type="checkbox"/> <input type="checkbox"/>	@ surface
			23:01	EN			° 34.45	° 24.19			-			<input type="checkbox"/> <input type="checkbox"/>	
71	8	30	23:48	BE	ROS		49° 39.31	124° 33.04	340		-			<input checked="" type="checkbox"/> <input type="checkbox"/>	
			23:54	BO			° 39.42	° 33.16		334	-			<input type="checkbox"/> <input type="checkbox"/>	
			24:00	EN			° 39.36	° 33.28			-			<input type="checkbox"/> <input type="checkbox"/>	
72	9	1	00:41	BE	ROS	US	49° 35.48	124° 38.29	168		226-237			<input checked="" type="checkbox"/> <input type="checkbox"/>	no oxy taken
			00:45	BO			° 35.46	° 38.29		164	-	12		<input type="checkbox"/> <input type="checkbox"/>	
			00:57	EN			° 35.89	° 38.30			-			<input type="checkbox"/> <input type="checkbox"/>	
73	10	1	01:52	BE	ROS		49° 40.70	124° 47.30	93		-			<input checked="" type="checkbox"/> <input type="checkbox"/>	
			01:54	BO			° 40.71	° 47.31		92	-			<input type="checkbox"/> <input type="checkbox"/>	
			01:56	EN			° 40.71	° 47.32			-			<input type="checkbox"/> <input type="checkbox"/>	
74	11	1	02:24	BE	ROS		49° 42.39	124° 43.41	300		-			<input checked="" type="checkbox"/> <input type="checkbox"/>	
			02:30	BO			° 42.36	° 43.42		296	-			<input type="checkbox"/> <input type="checkbox"/>	
			02:35	EN			° 42.34	° 43.45			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				°	°			-			<input type="checkbox"/> <input type="checkbox"/>	

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month JULY Year 2013 Vessel VECTOR Cruise ID 2013-13

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
75	SCOR2	1	02:39	BE	NET		49° 42.32	124° 43.49	296		-		MG	<input type="checkbox"/>	
			02:41	BO			° 42.32	° 43.50		50	-		KS	<input type="checkbox"/>	
			02:42	EN			° 42.31	° 43.51			-			<input type="checkbox"/>	
76	SCOR2	1	02:48	BE	NET		49° 42.26	124° 43.53	296		-		MG	<input type="checkbox"/>	
			02:59	BO			° 42.29	° 43.57		285	-		KS	<input type="checkbox"/>	
			03:03	EN			° 42.30	° 43.56			-			<input type="checkbox"/>	
77	12	1	03:31	BE	ROS	US	49° 43.59	124° 40.80	355		238-253			<input checked="" type="checkbox"/>	air temp 21°C
			03:40	BO			° 43.59	° 40.81		351	-	16		<input type="checkbox"/>	@ 2800
			03:56	EN			° 43.62	° 40.90			-			<input type="checkbox"/>	
78	13	1	05:25	BE	ROS		49° 55.30	124° 55.19	245		-			<input checked="" type="checkbox"/>	
			05:30	BO			° 55.31	° 55.19		240	-			<input type="checkbox"/>	
			05:33	EN			° 55.32	° 55.19			-			<input type="checkbox"/>	
79	14	1	06:07	BE	ROS	US	49° 53.02	124° 59.61	317		254-268			<input checked="" type="checkbox"/>	moth obide II
			06:14	BO			° 52.99	° 59.56		312	-	15	KS	<input type="checkbox"/>	
			06:30	EN			° 52.97	° 59.50			-		MG	<input type="checkbox"/>	
80	15		07:08	BE			49° 51.59	125° 1.52	134		-		SR	<input checked="" type="checkbox"/>	
			07:11	BO			° 51.59	° 1.54		130	-			<input type="checkbox"/>	
			07:13	EN			° 51.59	° 1.54			-			<input type="checkbox"/>	
			:				.	.			-			<input type="checkbox"/>	

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DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>July</u>			Year <u>2013</u>			Vessel <u>Vector</u>				Cruise ID <u>2013-13</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments	
							Latitude	Longitude								
81	16	01	08:10	BE	ROS	US	49° 57.67	125° 8.82	158		269-279	11	SR	<input checked="" type="checkbox"/>		
			08:14	BO				° 57.66	° 8.82		153	-			<input type="checkbox"/>	
			08:26	EN				° 57.66	° 8.82			-			<input type="checkbox"/>	
82	17	01	09:59	BE	ROS	US	49° 58.80	125° 4.33	267				SR	<input checked="" type="checkbox"/>		
			09:04	BO				° 58.79	° 4.31		263	-			<input type="checkbox"/>	
			09:08	EN				° 58.79	° 4.29			-			<input type="checkbox"/>	
83	18	01	09:37	BE	ROS		49° 59.20	124° 58.90	145				SR	<input checked="" type="checkbox"/>		
			09:40	BO				° 59.19	° 58.88			-			<input type="checkbox"/>	
			09:42	EN				° 59.18	° 58.85			-			<input type="checkbox"/>	
84	19	01	10:17	BE			50° 1.20	124° 52.88	271				SR	<input type="checkbox"/>		
			10:22	BO				° 1.20	° 52.90		268	-			<input checked="" type="checkbox"/>	
			10:26	EN				° 1.19	° 52.93			-			<input type="checkbox"/>	
85	21	01	13:36	BE	ROS		50° 1.99	125° 13.63	72				SR	<input checked="" type="checkbox"/>		
			13:37	BO				° 1.99	° 13.64		68	-			<input type="checkbox"/>	
			:	EN				° 1.98	° 13.64			-			<input type="checkbox"/>	
86	Okechobee Channel	01	15:45	BE			° .	° .						<input type="checkbox"/>		
			:	BO				° .	° .			-			<input type="checkbox"/>	back away
			18:31	EN				° .	° .			-			<input type="checkbox"/>	line trail
			:				° .	° .					<input type="checkbox"/>			
			:				° .	° .					<input type="checkbox"/>			

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Notes:

This page is for any notes or observations

Maria, Tara - science

Ryan, Jason - ship's crew

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Month <u>July</u>			Year <u>2013</u>			Vessel <u>Vector</u>			Cruise ID <u>2013-13</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
87	OKCHAN	01	15:54	BE	ROS		50° 17.70	125° 19.85	109		/	/	SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			15:56	BO			° 17.70	° 19.84		104	-			<input type="checkbox"/> <input type="checkbox"/>	
			15:58	EN			° 17.69	° 19.83			-			<input type="checkbox"/> <input type="checkbox"/>	
88	D23	01	16:34	BE	ROS		50° 15.91	125° 23.06	244		/	/	SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			16:39	BO			° 15.92	° 23.07		240	-			<input type="checkbox"/> <input type="checkbox"/>	
			16:43	EN			° 15.92	° 23.09			-			<input type="checkbox"/> <input type="checkbox"/>	
89	JSDP	01	17:30	BE	ROS		50° 20.26	125° 27.39	345		/	/	SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			17:39	BO			° 20.23	° 27.28		344	-			<input type="checkbox"/> <input type="checkbox"/>	
			17:46	EN			° 20.28	° 27.12			-			<input type="checkbox"/> <input type="checkbox"/>	
90	NOCHANI	1	18:18	BE			50° 21.69	125° 22.26	259		/	/	SR	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			18:23	BO			° 21.71	° 22.17		254	-			<input type="checkbox"/> <input type="checkbox"/>	
			18:27	EN			° 21.76	° 22.13			-			<input type="checkbox"/> <input type="checkbox"/>	
91	Nodules Channel	1	19:32	BE			° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	boat away
			:	BO			° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	sea lion trawls
			23:29	EN			° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
92	NOCHA.12	1	19:35	BE	ROS		50° 24.77	125° 19.45	284		-		R	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			19:41	BO			° 24.78	° 19.47		282	-			<input type="checkbox"/> <input type="checkbox"/>	
			19:46	EN			° 24.79	° 19.47			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	

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 DRF = Drifter
 _____ = _____

Bottle Firing Method:

US = Up / Stop (default)
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Notes:

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This page is for any notes or observations

scene - Maria, Kenny

ship - Steve, Rich

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <u>JULY</u>			Year <u>2013</u>			Vessel <u>VECTOR</u>			Cruise ID <u>2013-13</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
93	FRED ARM 2	1	20:06	BE	ROS		50° 27.00	125° 16.64	305		-		Re	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			20:13	BO			° 27.04	° 16.59		299	-			<input type="checkbox"/> <input type="checkbox"/>	
			20:18	EN			° 27.08	° 16.58			-			<input type="checkbox"/> <input type="checkbox"/>	
94	CACHAN	1	21:31	BE	ROS		50° 20.34	125° 7.04	537		-		Re	<input checked="" type="checkbox"/> <input type="checkbox"/>	
			21:41	BO			° 20.32	° 7.01		531	-			<input type="checkbox"/> <input type="checkbox"/>	
			21:50	EN			° 20.29	° 6.98			-			<input type="checkbox"/> <input type="checkbox"/>	
95	SUCHI	1	23:12	BE	ROS		50° 10.06	125° 1.65	460		-		Re	<input checked="" type="checkbox"/> <input type="checkbox"/>	23° C air temp
			23:23	BO			° 10.05	° 1.64		455	-			<input type="checkbox"/> <input type="checkbox"/>	
			23:30	EN			° 10.05	° 1.62			-			<input type="checkbox"/> <input type="checkbox"/>	
96	20	2	03:24	BE	ROS		49° 47.17	124° 32.27	316		-			<input checked="" type="checkbox"/> <input type="checkbox"/>	
			03:30	BO			° 47.14	° 32.25		312	-			<input type="checkbox"/> <input type="checkbox"/>	
			03:35	EN			° 47.11	° 32.22			-			<input type="checkbox"/> <input type="checkbox"/>	
97	22	2	04:59	BE	ROS		49° 40.21	124° 16.33	353		-			<input checked="" type="checkbox"/> <input type="checkbox"/>	finished with rosette!
			05:03	BO			° 40.16	° 16.30		348	-			<input type="checkbox"/> <input type="checkbox"/>	
			05:09	EN			° 40.10	° 16.27			-			<input type="checkbox"/> <input type="checkbox"/>	
98	SCOR 3		05:15		NET		49° 40.00	124° 16.19	349		-			<input type="checkbox"/> <input type="checkbox"/>	vertical haul
			05:18				° 40.00	° 16.17		50	-			<input type="checkbox"/> <input type="checkbox"/>	
			05:19				° 39.98	° 16.16			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	

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rinse with fresh water + close all bottles

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Month <u>JULY</u>			Year <u>2013</u>				Vessel <u>VECTOR</u>				Cruise ID <u>2013-13</u>				
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
99	SCOR3	2	05:37	BE	NET		49° 39.86	174° 15.96	345		-			<input type="checkbox"/> <input type="checkbox"/>	
			05:53	BO			° 39.73	° 15.76		340	-			<input type="checkbox"/> <input type="checkbox"/>	Program 1 complete
			05:58	Ed			° 39.67	° 15.70			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	
			:				° .	° .			-			<input type="checkbox"/> <input type="checkbox"/>	

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