

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2014-27

DATE:

VESSEL:

PROJECT(S):

From:	April 7
To:	Vector
SUTHERLAND - MEAD	

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

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Month APRIL				Year 2014		Vessel VECTOR		Cruise ID 2014-27							
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							
001	STA 29	8	14:22	BC	ROS	U.S.	49° 24. 71	124° 34. 79	61		1 - 7	7	H.M.	☒	
			14:24	BO			49° 24. 72	124° 34. 78		61	-			☐	
			14:30	EN			49° 24. 73	124° 34. 76			-			☐	
			:				.	.			-			☐	
002	STA 27	8	15:06	BC	ROS	U.S.	49° 26. 40	124° 37. 94	57		8 - 14	7	H.M.	☒	
			15:08	BO			49° 26. 42	124° 37. 91		60	-			☐	
			15:13	EN			49° 26. 47	124° 37. 83			-			☐	
			:				.	.			-			☐	
003	STA 22	8	15:40	BC	ROS	U.S.	49° 27. 72	124° 39. 94	56		15 - 21	7	H.M.	☒	Should be STA 23
	23		15:42	BO			49° 27. 73	124° 39. 89		59	-			☐	IN FILE (NOT 22)
			15:51	EN			49° 27. 77	124° 39. 77			-			☐	
			:				.	.			-			☐	
004	STA 29	8	16:26		GRAB		49° 24. 65	124° 34. 90			-	-	T.S.	☐	
005	STA 27	8	17:15		GRAB		49° 26. 36	124° 38. 09			-	-	T.S.	☐	
006	STA 22	8	17:42		GRAB		49° 27. 75	124° 39. 96			-	-	T.S.	☐	
			:				.	.			-			☐	
007	STA 22	8	18:22	BC	ROS		49° 28. 29	124° 41. 67	42		22 - 27	6	H.M.	☒	
			18:23	BO			49° 28. 29	124° 41. 67		44	-			☐	
			18:27	EN			49° 28. 27	124° 41. 60			-			☐	

Event Type:

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

LOOP = Sea Water Loop
MOR = Mooring
NET = Plankton Net Haul
DRF = Drifter

Bottle Firing Method:

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

Notes:

Time Code:

BE = Beginning Time of Cast
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MR = Messenger Release Time
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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Month <u>APRIL</u>			Year <u>2014</u>		Vessel <u>VECTOR</u>		Cruise ID <u>2014-27</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							
008	22	8	:	BE	GRAB	—	°	°			—	—	T.S.	☐	SEDIMENT GRAB
			:				°	°			—	—		☐	
009	21	8	20:12	BC	CTD	—	49°28.61	124°44.57	20		—	—	H.M.	☒	CTD ONLY
			20:13	BO			49°28.60	124°44.57		20	—	—		☐	
			20:14	EN			49°28.60	124°44.57			—	—		☐	
			:				°	°			—	—		☐	
010	20	8	20:23	BC	ROS	V.S.	49°28.34	124°44.81	38		28-34	7	H.M.	☐	
			20:25	BO			49°28.34	124°44.80		38	—	—		☐	
			20:31	EN			49°28.33	124°44.79			—	—		☐	
			:				°	°			—	—		☐	
011	19	8	20:47	BC	CTD	—	49°28.64	124°45.19	20		—	—	H.M.	☐	CTD ONLY
			20:49	BO			49°28.64	124°45.20		30	—	—		☐	
			20:50	EN			49°28.05	124°45.21			—	—		☐	
			:				°	°			—	—		☐	
012	18	8	21:07	BC	CTD	—	49°28.94	124°46.55	20		—	—	H.M.	☐	CTD ONLY
			21:09	BO			49°28.94	124°46.55		25	—	—		☐	
			21:09	EN			49°28.94	124°46.55			—	—		☐	
			:				°	°			—	—		☐	
			:				°	°			—	—		☐	

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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
013	17	8	21:19	BC	ROS	U.S.	49° 29.02	124° 46.17	51		35-41	7	A.M.	☒	DIC CAST
			21:21	BO			49° 29.02	124° 46.17		54	-			☐	FOR DEB'S LANSOM
			21:31	EN			49° 29.02	124° 46.20			-			☐	
			:				°	°			-			☐	
014	16	8	22:42	BC	CTD	-	49° 29.21	124° 45.73	41		—	-	H.M.	☐	CTD ONLY
			22:44	BO			49° 29.21	124° 45.73		44	-			☐	
			22:46	EN			49° 29.21	124° 45.74			-			☐	
015			01:30	BC	GRAB		49° 29.222	124° 45.724	43		-			☐	
016	17	8	01:15		GRAB		49° 29.031	124° 46.185	52		-			☐	
017	18	8	01:00		GRAB		49° 28.955	124° 46.537	26.8		-			☐	
018	19	8	00:00		GRAB		49° 28.1041	124° 45.2055	42.8		-			☐	
019	20	8	23:30		GRAB		49° 28.315	124° 44.835	37.8		-			☐	
020	21	8	:		GRAB		49° 28.6036	124° 44.5731	16.8		-			☐	
			:				°	°			-			☐	
021	15	9	14:16	BC	ROS	U.S.	49° 30.63	124° 49.00	25		42-47	6	H.M.	☒	GPD SWIRL ATTACHED
			14:22	BO			49° 30.63	124° 49.00			-			☐	DEAD SLOW CAST
			14:26	EN			49° 30.63	124° 49.00			-			☐	
			:				°	°			-			☐	
			:				°	°			-			☐	

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APRIL				2014			VECTOR				2014-27				
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							
022	14	9	15:04	BE	ROS	V.S.	49° 31. 08	124° 40. 70	45		40 - 54	7	H.M.	☒	
			15:07	BO			49° 31. 08	124° 48. 70		40	-			☐	
			15:13	EN			49° 31. 08	124° 48. 70			-			☐	
			:				.	.			-			☐	
023	13	9	15:34	BE	CTD	—	49° 31. 34	124° 48. 44	43		—	—	H.M.	☒	CTD ONLY
			15:36	BO			49° 31. 34	124° 49. 44		44	-			☐	
			15:38	EN			49° 31. 34	124° 49. 45			-			☐	
			:				.	.			-			☐	
024	12	9	15:59	BE	CTD		49° 32. 38	124° 50. 12	36		—	—	H.M.	☒	CTD ONLY
			16:01	BO			49° 32. 39	124° 50. 13		38	-			☐	
			16:02	EN			49° 32. 39	124° 50. 14			-			☐	
			:				.	.			-			☐	
025	11	9	16:16	BE	ROS		49° 32. 18	124° 50. 51	40		55 - 61	7	H.M.	☒	
			16:18	BO			49° 32. 18	124° 50. 51		42	-			☐	
			16:24	EN			49° 32. 21	124° 50. 52			-			☐	
			:				.	.			-			☐	
026	10	9	16:48	BE	CTD		49° 31. 99	124° 50. 92	23		—	—	H.M.	☒	CTD ONLY
			16:49	BO			49° 31. 99	124° 50. 92		23	-			☐	
			16:50	EN			49° 31. 99	124° 50. 92			-			☐	

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027	15	9	17:30	BE	GRAB		49° 30.628	124° 48.971	24		-			☐	
028	14	9	16:56	BE	GRAB		49° 31.079	124° 48.701			-			☐	
029	13	9	:	BE	GRAB		49° 31.341	124° 48.463	47		-			☐	
030	12	9	:	BE	GRAB		49° 32.463	124° 50.098	29		-			☐	
031	11	9	19:30	BE	GRAB		49° 32.175	124° 50.514	39		-			☐	
032	10	9	19:50	BE	GRAB		49° 32.610	124° 50.989			-			☐	
			:				.	.			-			☐	
033	9	9	20:27	BE	CTD	-	49° 34.31	124° 50.89	20		-	-	H.M	☒	CTD ONLY
			20:28	BO			49° 34.31	124° 50.90		22	-			☐	
			20:29	EN			49° 34.31	124° 50.91			-			☐	
			:				.	.			-			☐	
034	8	9	20:40	BE	ROS	V.S.	49° 34.13	124° 51.60	45		62-68	7	H.M	☒	
			20:42	BO			49° 34.13	124° 51.61		47	-			☐	
			20:43	EN			49° 34.13	124° 51.60			-			☐	
			:				.	.			-			☐	
035	7	9	21:03	BE	CTD	-	49° 34.01	124° 52.32	24		-	-	H.M	☒	CTD ONLY
			21:05	BO			49° 34.01	124° 52.32			-			☐	
			21:06	EN			49° 34.01	124° 52.32			-			☐	
			:				.	.			-			☐	

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Month				Year			Vessel			Cruise ID					
APRIL				2014			VECTOR			2014-27					
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
036	6	9	21:25	BC	CTD	—	49° 35. 63	124° 52. 58	24		—	—	H.M.	☐ ☐	CTD ONLY
			21:26	BO			49° 35. 64	124° 52. 57		27	-			☐ ☐	
			21:27	EN			49° 35. 64	124° 52. 56			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
037	5	9	21:41	BC	ROS	U.S.	49° 35. 84	124° 51. 56	41		69 - 75	7	H.M.	☒ ☐	DOUBLE NUTS
			21:44	BO			49° 35. 86	124° 51. 58			-			☐ ☐	D. IANSON Dic
			21:51	EN			49° 35. 89	124° 51. 61			-			☐ ☐	STATION
			:				° .	° .			-			☐ ☐	
038	4	9	22:16	BC	CTD	—	49° 36. 23	124° 50. 37	20		—	—	H.M.	☒ ☐	CTD ONLY
			22:17	BO			49° 36. 23	124° 50. 37		22	-			☐ ☐	
			22:18	EN			49° 36. 23	124° 50. 37			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
039	3	9	22:45	BC	CTD	—	49° 37. 87	124° 54. 53	18		—	—	H.M.	☒ ☐	CTD ONLY
			22:47	BO			49° 37. 87	124° 54. 53		20	-			☐ ☐	
			22:47	EN			49° 37. 87	124° 54. 53			-			☐ ☐	
			:				° .	° .			-			☐ ☐	
040	2	9	23:04	BC	ROS	U.S.	49° 38. 44	124° 53. 67	33		76 - 82	7	H.M.	☒ ☐	
			23:05	BO			49° 38. 43	124° 53. 69		33	-			☐ ☐	
			23:11	EN			49° 38. 42	124° 53. 71			-			☐ ☐	

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							Latitude	Longitude							
041	1	9	23:25	BE	CTD	—	49°38.91	124°52.84	18		—	—	H.M.	☒	CTD ONLY
			23:26	BO			49°38.91	124°52.84		23	-			☐	
			23:27	EN			49°38.91	124°52.84			-			☐	
			:				.	.			-			☐	
042	1	9	23:30		GRAB		49°38.916	124°52.841		22	-			☐	
43	2	1	23:45				49°38.417	124°53.700			-			☐	
44	3		00:00				49°37.879	124°54.549		22	-			☐	
45	4		00:40				49°36.213	124°50.402		23	-			☐	
46	5		00:50				49°35.840	124°51.573		46	-			☐	
47	6		01:00				49°35.630	124°52.583		28	-			☐	
48	7		01:20				49°34.025	124°52.333		26	-			☐	
49	8		01:30				49°34.139	124°51.580		47	-			☐	
50	9	✓	01:45				49°34.321	124°50.908		22	-			☐	
			:				.	.			-			☐	
051	34	10	14:20	BE	ROS	U.S.	49°27.33	124°35.09	176		83-93	11	H.M.	☒	
			14:24	BO			49°27.34	124°35.11		176	-			☐	
			14:35	EN			49°27.37	124°35.19			-			☐	
			:				.	.			-			☐	
052	34	10	14:41		GRAB	—	49°27.302	124°35.0818	1752		-			☐	

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053	33	10	15:45	BC	ROS	U.S.	49° 30.53	124° 42.78	56		94 - 100	7	H.M.	☒	
			15:46	BO			49° 30.54	124° 42.79		58	-			☐	
			15:53	GN			49° 30.54	124° 42.81			-			☐	
			:				.	.			-			☐	
054	33	10	16:00		GRAB		49° 30.537	124° 42.790	59.5		-			☐	
			:				.	.			-			☐	
055	32	10	16:39	BC	ROS	U.S.	49° 33.52	124° 44.34	43		101 - 107	7	H.M.	☒	
			16:41	BO			49° 33.53	124° 44.36		44	-			☐	
			16:47	GN			49° 33.54	124° 44.38			-			☐	
			:				.	.			-			☐	
056	32	10	16:56		GRAB		49° 33.502	124° 44.421	44		-			☐	
			:				.	.			-			☐	
057	31	10	17:44	BC	ROS	U.S.	49° 37.46	124° 46.77	43		108 - 114	7	H.M.	☒	
			17:46	BO			49° 37.45	124° 46.77		45	-			☐	
			17:51	GN			49° 37.42	124° 46.79			-			☐	
			:				.	.			-			☐	
058	26	10	18:17	BC	CTD	—	49° 38.08	124° 49.87	45		—	—	A.M.	☐	
			18:18	BO			49° 38.06	124° 49.87			-			☐	
			18:20	GN			49° 38.06	124° 49.87			-			☐	

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							Latitude	Longitude							
059	25	10	18:57	BC	CTD	-	49° 38.96	124° 50.72	52		-	-	H.M.	☒	CTD ONLY
			18:59	EO			49° 38.96	124° 50.73		49	-			☐	
			19:01	EN			49° 38.96	124° 50.73			-			☐	
			:				.	.			-			☐	
060	24	10	19:13	BC	ROS	V.S.	49° 39.81	124° 51.17	50		115-121	7	H.M.	☒	
			19:15	BO			49° 39.81	124° 51.17		52	-			☐	
			19:21	EN			49° 39.78	124° 51.19			-			☐	
			:				.	.			-			☐	
61	24	10	19:25		GRAB		49° 39.814	124° 51.169		50.4	-			☐	
62	25	10	19:40		GRAB		49° 38.90	124° 50.712		53	-			☐	
63	26	10	19:58		GRAB		49° 38.074	124° 49.850		49	-			☐	
64	31	10	20:20		GRAB		49° 37.453	124° 46.771			-			☐	
			:				.	.			-			☐	
65	35	10	21:09	BC	ROS	V.S.	49° 41.94	124° 47.52	123		122-131	10	H.M.	☒	
			21:13	BO			49° 41.92	124° 47.53			-			☐	
			21:23	EN			49° 41.85	124° 47.47			-			☐	
			:				.	.			-			☐	
66	35	10	21:33		GRAB		49° 41.846	124° 47.486			-			☐	
			:				.	.			-			☐	

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— =

Bottle Firing Method:

US = Up / Stop (default)

UN = Up / No stop

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Month			Year			Vessel			Cruise ID						
APRIL			2014			VECTOR			2014-27						
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							
67	36	10	22:07	BC	ROS	U.S.	49° 38.85	124° 43.20	136		132-141	10	H.M.	☒	
			22:11	BO			49° 38.86	124° 43.20		136	-			☐	
			22:21	EN			49° 38.87	124° 43.16			-			☐	
			:				.	.			-			☐	
68	36	10	22:30		GRAB		49° 38.876	124° 43.177			-			☐	
69	37	10	23:00		GRAB		49° 35.957	124° 39.261			-			☐	
70	38	10	23:35		GRAB		49° 34.201	124° 34.854	178		-			☐	
71	39	11	00:40		GRAB		49° 30.552	124° 29.581			-			☐	
72	40	11	01:10		GRAB		49° 27.076	124° 28.352			-			☐	
			:				.	.			-			☐	
73	40	11	14:55	BC	ROS	U.S.	49° 27.11	124° 28.32	340		142-154	13	H.M.	☒	
			15:02	BO			49° 27.12	124° 28.37		340	-			☐	
			15:16	EN			49° 27.12	124° 28.39			-			☐	
			:				.	.			-			☐	
74	39	11	15:44	BC	ROS	U.S.	49° 30.56	124° 29.60	173		155-164	10	H.M.	☒	
			15:47	BO			49° 30.58	124° 29.58		170	-			☐	
			15:58	EN			49° 30.63	124° 29.56			-			☐	
			:				.	.			-			☐	
			:				.	.			-			☐	

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Month APRIL				Year 2014			Vessel VECTOR			Cruise ID 2014-27					
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
75	38	11	16:34	BC	ROS	U.S.	49° 34. 22	124° 34. 87	175		165 - 174	10	H.M.	☒	
			16:39	BO			49° 34. 25	124° 34. 89		173	-			☐	
			16:49	EN			49° 34. 32	124° 35. 01			-			☐	
			:				°	°			-			☐	
76	37	11	17:17	BC	ROS	U.S.	49° 35. 97	124° 39. 24	160		175 - 184	10	H.M.	☒	
			17:20	BO			49° 35. 95	124° 39. 23		160	-			☐	
			17:30	EN			49° 35. 94	124° 39. 19			-			☐	
			:				°	°			-			☐	
77	22	11	19:33	BC	CTD	—	49° 28. 27	124° 41. 69	40		—		H.M.	☒	CTD ONLY
			19:34	BO			49° 28. 26	124° 41. 70		42	-			☐	
			19:35	EN			49° 28. 26	124° 41. 70			-			☐	
			:				°	°			-			☐	
78	22	11	20:14	BC	CTD	—	49° 28. 27	124° 41. 74	40		—		H.M.	☒	CTD ONLY
			20:15	BO			49° 28. 27	124° 41. 74		41	-			☐	
			20:16	EN			49° 28. 27	124° 41. 74			-			☐	
			:				°	°			-			☐	
79	22	11	20:48	BC	CTD	—	49° 28. 27	124° 41. 71	40		—		H.M.	☒	CTD ONLY
			20:50	BO			49° 28. 27	124° 41. 71		42	-			☐	
			20:52	EN			49° 28. 27	124° 41. 71			-			☐	

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Month			Year			Vessel			Cruise ID						
APRIL			2014			VECTOR			2014-27						
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							
80	22 (6)	11	21:14	BC	CTD	—	49° 28. 25	124° 41. 71	40		—	—	H.M.	☒	CTD ONLY
			21:16	BO			49° 28. 25	124° 41. 70		41	-			☐	
			21:17	EN			49° 28. 25	124° 41. 70			-			☐	
			:				.	.			-			☐	
81	22 (6)	11	21:46	BC	CTD	—	49° 28. 28	124° 41. 69	41		—	—	H.M.	☒	CTD ONLY
			21:48	BO			49° 28. 28	124° 41. 69		41	-			☐	
			21:49	EN			49° 28. 28	124° 41. 69			-			☐	
			:				.	.			-			☐	
82	22 (6)	11	22:16	BC	CTD	—	49° 28. 27	124° 41. 73	41		—	—	H.M.	☒	CTD ONLY
			22:17	BO			49° 28. 27	124° 41. 73		41	-			☐	
			22:18	EN			49° 28. 27	124° 41. 73			-			☐	
			:				.	.			-			☐	
83	22 (7)	11	22:51	BC	CTD	—	49° 28. 27	124° 41. 73	41		—	—	H.M.	☒	CTD ONLY
			22:52	BO			49° 28. 28	124° 41. 74		41	-			☐	
			22:53	EN			49° 28. 28	124° 41. 74			-			☐	
			:				.	.			-			☐	
84	22 (8)	11	23:18	BC	CTD	—	49° 28. 28	124° 41. 69	41		—	—	H.M.	☒	CTD ONLY
			23:20	BO			49° 28. 27	124° 41. 69		43	-			☐	
			23:26	EN			49° 28. 27	124° 41. 70			-			☐	

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Month APRIL

Year	2014
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Vessel	VECTOR
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Cruise ID	2014-27
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