

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2012-58

DATE:

From: July 20

to: Aug 2

VESSEL:

Vector

PROJECT(S):

NRCAN Cruise PGL 2012-002

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

WaterProperties.ca

Captain: _____ First Officer: _____
Second Officer: _____ Third Officer: _____
Fishing Master: _____

Mission Participants / Agencies: _____

Scientific Personnel:

Chief Scientist: _____

Name	Watch	Cabin	Name	Watch	Cabin
Audrey Dallimore			Audrey Dallimore		
Randy Enkin					
David Spear					
Peter Neelands					
Gres Middleton					
Cheryl Greengrove					
Graham Standen					
Malcolm Nicol					

Second leg of Mission:

Chief Scientist: _____

Name	Watch	Cabin	Name	Watch	Cabin

Data logging computer: _____

Data acquisition program: _____
CTD deck unit make: _____ model: _____ serial number: _____

Primary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____

Fluorometer: Model _____ s/n: _____

Oxygen sensor: _____ Cable gain: _____ P, S or NO pump?

PAR sensor: _____ Model: _____ P, S or NO pump?

Other sensors: _____ Model: _____ s/n: _____

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____

Fluorometer: Model _____ s/n: _____

Oxygen sensor: _____ Cable gain: _____ P, S or NO pump?

PAR sensor: _____ Model: _____ P, S or NO pump?

Other sensors: _____ Model: _____ s/n: _____

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

CTD calibration bottle location (height above CTD in metres): _____

Captain: _____
 Second Officer: _____
 Fishing Master: _____
 First Officer: _____
 Third Officer: _____

Mission Participants / Agencies: _____

[illegible][illegible]

Data logging computer:

Data logging computer: # 2
Data acquisition program: SEA5AVE
CTD deck unit make: SABE model: 114 serial number: 0425

Primary CTD

Make: SABE model: 9 f serial number: 550

Primary temperature serial number: 2374

Primary conductivity serial number: 3396

Secondary temperature serial number: 2668

Secondary conductivity serial number: 2754

Transmissometer: Wet Labs Model: C-STAR s/n: 1185DR

Fluorometer: Model Seapoint Cable gain: 3x s/n: 2356 ☒ S or ☐ NO num? 1025

Oxygen sensor: SBE Model: 43 s/n: 1176 PS or NO pump? PS PS or NO pump? PS

PAR sensor: _____ Model: _____ s/n: _____

Other sensors: WET Labs ECO Fluorometer s/n: 2215 P, S or NO pump?

Other sensors: _____ s/n: _____ P, S or NO pump?

Other sensors: _____

s/n: _____

P S or NO pump? _____

Other sensors: _____

_____ s/n: _____ P, S or NO pump?

_____ s/n: _____ P, S or NO pump?

Secondary CTD

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number:

Secondary temperature serial number:

Secondary conductivity serial number:

Transmissometer: _____ Model: _____
s/n: _____

Fluorometer: Model _____ S/n: _____
Cable gain: _____

Oxygen sensor: _____
 Model: _____
 s/n: _____
 Serial num: _____

PAR sensor: _____ Model: _____
PAR sensor: _____ Model: _____
PAR sensor: _____ Model: _____

Other sensors: _____ s/n: _____

Other sensors: _____ s/n: _____

Other sensors: s/n: _____

Other sensors:	s/n:	S/n:

CTD calibration bottle location (height above CTD in metres):

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Month <u>July</u>				Year <u>2012</u>				Ship <u>Vector</u>				Cruise ID <u>2012-58</u>			
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
21 /	EF13	1934	BE	CTD		1	48 56.480	125 10.697	101			0		✓	5 mab
		1938	BO				56.496	10.693		96					
		1939	EN				48 56.501	125 10.691							
✓	EF12	1951	BE	CTD		X	48 57.989	125 10.508	91					✓	
		1959	BO				48° 58.000	10.508		88		0			5 mab
		2001	EN				48° 58.004	125 10.507			No data collected - did not start archiving				
✓	EF11	2017	BE	CTD		2	48 59.141	125 11.065	88						
		2020	BO							85					
		2022	EN				59.138	11.069			{ Conductivity Jumped 0.9 PSU Jelly Fish tentacle in IC duct				
✓	EF10	2038	BE	CTD		3	48 59.822	125° 11.234	99						Rosette covered in tentacles - hosed off
		2041	BO				59.832	11.230		97					5 mab
		2043	EN				48 59.834	125° 11.227							Conductivity okay
✓	EF09	2055	BE			4	49 0.097	125° 10.867	56						Many small fish jumping
		2057	BO							56					
		2058	EN				49° 0.103	125° 10.848							
✓	EF08	2119	BE	CTD		5	49° 0.660	125° 10.260	84						
		2121	BO				49° 0.665	125° 10.256		82					5 mab
			EN												

Cast Type:

BOT = Bottle cast, no CTD
CTD = CTD without Rosette
ROS = Rosette plus CTD
SET = Fish Set

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

Bottle Firing Method:

US = Up / Stop
UN = Up / No stop
DN = Down / No stop

Time Code:

BE = Beginning Time of Cast
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DE = Deployment Time
MR = Messenger Release Time
RE = Recover Mooring Time

Transmissometer to be cleaned before each cast, do not use Ammonia products

Notes:

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							Latitude	Longitude							
21	✓ EFO7	2132	BE	CTD		6	49° 1.228	125° 9.478	119						
		2135	Bo				49° 1.240	125° 9.467		117					
		2138	EN				49° 1.246	125° 9.462							3 mab
	✓ EFO6	2145	BE	CTD		7	49° 1.771	125° 9.192	150						
		2150	Bo				49° 1.762	125° 9.186		148					2.5 mab
		2153	EN				49° 1.788	125° 9.184							
22	✓ EFO1	0046	BE	CTD		8	49° 5566	125° 11.600	32						
		0048													
		0049	FW												
	✓ EFO2	0112	BE	CTD		9	49° 5.010 N	125° 10.336 W	66						
		0114	Bo							66					2.8 mab
		0116	EN				49° 4.997 N	125° 10.313 W							
	✓ EFO3	0146	BE	CTD		10	49° 4.232	125° 9.379	119						2 mab
		0149	Bo							118					
		0151	EN				49° 4.242	125° 9.388							
	✓ EFO4	0220	BE	CTD		11	49° 3.079	125° 8.605	67						
		0223	Bo							66					3 mab
		0225	EN												

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							Latitude	Longitude							
22	✓ EF05	0236		ROS		12	49° 2.580	125° 9.077	204						V. Low DO below 160
		0251					49° 2.532	125° 9.166		199	1-3	3			2 mab
23	✓ UW56	0110	BE	CTD		13	49° 7.160	125° 47.894	41		bottom 2 bottles w H ₂ S		small		-0.5 dBar on depth
		0113	Bo							37					-0.2 m pressure offset
		0114	EN												3.5 mab
	✓ UW45	0133	BE	CTD		14	49° 7.536	125° 45.881	44						
		0135					49° 7.536	125° 45.870		42					5 mab
		0136					49° 7.536	125° 45.865							
	✓ UW46	0159	BE	CTD		15	49° 8.083	125° 43.018	61						
		0202	Bo				49° 8.076	125° 43.002		59					2 mab
	✓ UW47	0224	BE	CTD		16	49° 9.215	125° 41.452	71						
		0226	Bo							68					3 mab
		0227	EN				49° 9.227	125° 41.449							
	✓ UW49	0242	BE	CTD		17	49° 9.665	125° 39.959	80						2.3 mab
		0244	Bo				49° 9.670	125° 39.926		78					

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							Latitude	Longitude							
23	✓ UW50	1553		ROS		18	49° 12.076	125° 38.939	78		4	1			anoxic at bottom?
		1557					49° 12.074	125° 38.945		78	2 mab				steps
		1558					49° 12.074	125° 38.946							no H ₂ S at bottom bottle
	✓ UW53	1617	BE	CTD		19	49° 12.526	125° 36.647	95						anoxic below 60m
		1621													1.6 mab
			UW						1						
	✓ UW54	1646	BE	CTD		20	49° 10.900	125° 38.836	107						anoxic below ~78m
		1650	BO				49° 10.898	125° 38.845		105					3 mab
		1652	EN				49° 10.897	125° 38.854							-5cm pressure offset
	✓ T101	1716	BE	CTD		21	49° 9.918	125° 41.412	70						steps?
		1719	BO				49° 9.912	125° 41.443							2.8 mab
		1721	EN				49° 9.911	125° 41.449							
	✓ T1A01	1736	BE			22	49° 10.960	125° 40.690	51						
		1739	BO							50					3.5 mab
		1740					49° 10.961	125° 40.688							
	✓ T102	1805	BE	ROS		23	49° 11.786	125° 40.520	47						anoxic below
										46	5-77	3			2 mab
															all 3 bottles stinky

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							Latitude	Longitude							
23	✓ UW51	1949	BE	ROS		24	49°13.668	125°35.886'	46		8-9	2			anoxic below ~20
		1953	BO							45					4 mab
		1956	EN												bottom bottles H ₂ S
24	✓ CL03	1403	BE	CTD		25	49°11.549	125°45.786	119			0			
		1408	BO				11.562	756		109					very close to bottom
		1410	EN												no mud
	✓ CL02	1431	BE	CTD		26	49°14.050	125°45.454	139			0			
		1436	BO				49°14.045	125 45.456		137					3 mab
		1439	EN												- 0.1 m pressure offset
	✓ CL01	1505	BE	CTD		27	49°14.588	125°49.357	108						4.5 mab
		1509	BO				14.582	49.349							
		1510	EN				14.581								
	✓ UW33	1636	BE	CTD		28	49°17.729	126° 2.125	48						5 mab
		1639	BO				49°17.740	126° 2.120		46					
		1640	EN				49°17.743	126° 2.122							
	✓ UW34	1655	BE	CTD		29	49°18.763	126° 0.734	113						3 mab
		1658	BO							114					
			EN												

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							Latitude	Longitude								
24	✓ UW35	1730	BE	ROS		30	49°19.674	125°58.680	135		10	1		✓		
		1734	Bo							132					1.7 mab	
		1737	EN													
	✓ UW36	1801	BE	CTD		31	49°21.646	125°56.718	147			0		✓		
		1805	Bo				49°21.652	125°56.717		141					2 mab	
		1808	EN				49°21.654	125°56.718								
	✓ UW37	1859	BE	CTD		32	49°23.556	125°56.302	134			0				
		1903	Bo				23.574	56.290		130					2.0 mab	
			EN													
	✓ UW38	1926	BE	CTD		33	49°24.510	125°54.448	110	108					-0.16 dB offset	
											11-12	2			anoxic below ~	
		1933					24.545	125°54.437							No obvious smell in b	
	✓ UW39	2243	BE	CTD		34	49°20.200	126°4.094	102							
		2246	Bo				49°20.218	126°4.114		100					5 mab	
		2248	EN				49°20.219	126°4.120								
	✓ UW81	2313	BE	CTD		35	49°22.806	126°5.128	156							
		2318	Bo							153					4 mab	
		2320	EN				49°22.832	126°5.124								

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							Latitude	Longitude							
25	✓ UW65	0045		CTD		36	49°26.291	126°15.608	78						
		0048								74					4 mab
		0050					49°26.278	126°15.602							
	✓ UW67	0109		CTD		37	49°26.232	126°17.728	107						6 mab
		0112					49°26.218	126°17.729		102					
		0114					49°26.212	126°17.725							
	✓ UW68	0130		CTD		38	49°25.447	126°18.343	60						
										60					1.5 mab
		0133					49°25.417	126°18.356							
	✓ UW66	0216		CTD		39	49°27.158	126°16.232	126						
		0220					49°27.155	126°16.217		123					
		0222					49°27.155	126°16.213							
	✓ UW69	0234		CTD		40	49°28.156	126°16.542	138						
										132					2 mab
		0240					49°28.189	126°16.518							
	✓ UW70	0253		CTD		41	49°29.728	126°17.042	112						
		0257					49°29.738	126°17.052		110					2 mab
		0258					49°29.746	126°17.057							

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							Latitude	Longitude							
25	✓ UW71	0308	BE	CTD		42	49°30.148	126°17.534	84						
		0311					49°30.150	126°17.536		80					5 mab
		0312					49°30.151	126°17.537							
26	✓ N02	1951	BE	CTD		43	50°21.005	127°26.449	32						
		1954					50°21.006	127°26.446		32					2 mab
		1955					21.007	26.446							well oxygenated
	✓ N05	2056	BE	CTD		44	50°22.025	127°26.646	55						
		2059	BO				50°22.020	127°26.640		53					2.3 mab
		2101	EN				50°22.019	127°26.638							
	✓ N08	2116	BE	CTD		45	50°22.993	127°27.460	43						2.3 mab
		2117	BO							43					
		2119	EN				50°23.003	127°27.475							
	✓ N11	2135	BE	CTD		46	50°23.687	127°28.764	97						
		2139	BO				50°23.696	127°28.784		96					5.2 mab
		2140	EN				50°23.696	127°28.789							
	✓ N14	2151	BE			47	50°24.338	127°29.498	141						
		2155	BO				50°24.359	127°29.522		135					2 mab
		2157	EN				50°24.362	127°							

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							Latitude	Longitude							
26	N17	2215	BE	CTD		48	50°25.692	127°30.529	174		1315	3			1.5 mab
		2220	Bo							168					
		2223	EN												
✓	N20	2256	BE	CTD		49	50°26.996	127°31.579	198					✓	1.6 mab
		2301	Bo				50°27.002	127°31.574		190					
		2304	EN				50°27.029	127°31.565							
✓	N18	2322	BE	CTD		50	50°28.886	127°33.548	199						4.0 mab
		2327	Bo				50°28.895	127°33.554		190					
		2330	EN				50°28.891	127°33.558							
✓	N22	2348	BE	CTD		51	50°30.485	127°36.046	156					✓	
		2352	Bo				50°30.503	127°35.917		150					3 mab
		2356	EN												
27	H015	1503	BE	CTD		52	50°38.204	127°57.313	58					✓	
		1506	Bo				50°38.206	127°57.312		55					1.6 mab
		1507	EN				50°38.206	127°57.312							
✓	H014	1558	BE	CTD		53	50°37.001	127°51.221	60						2.0 mab
		1600	Bo							54					
		1601					50°37.003	127°51.221							

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Month <u>7</u>			Year <u>2012</u>			Ship <u>Vector</u>			Cruise ID <u>2012-58</u>						
Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
27	Hol3	1632	BE	ROS		54	50°35.854	127°45.035	78		16	1			
		1635	BO							73					
		1636	EN				50°35.843	127°45.011							
✓	Hol2	2123	BE	CTD		55	50°35.294	127°39.070	117						
										113					2.3 mab
		2129	EN				50°35.292	127°39.022							
✓	Hol1	2159	BE	CTD		56	50°33.906	127°33.652	130						
		2203	BO				50°33.896	127°33.614		125					
			EN												
x	Hol1	2207	BE	CTD		57	50°33.894	127°33.606'	130	1.5	17-18	2	short additional	cast to fire 2 bottles	
✓	Ru2	2226	BE	CTD		58	50°34.998	127°30.319	78						
		2229	BO				50°35.005	127°30.299		73					3 mab
		2231	EN				50°35.008	127°30.289							
✓	Ru3	2249	BE			59	50°35.292	127°26.570	68						
		2251	BO				50°35.293	127°26.560		65					2 mab
		2253	EN				50°35.287	127°26.537							
28	✓ Q4	0033	BE			60	50°31.717	127°38.678	123						
		0037	BO				50°31.711	127°38.690		118					2 mab
		0039	EN				50°31.710	127°38.693							

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Day	Station Name	Time (UTC)	Time Code	Cast Type	Firing Method	Event Number	Positional Information		Bottom Depth	Max Depth	Sample Numbers	# of Bottles	Watch Keepers	Trans. Cleaned	Comments
							Latitude	Longitude							
28	✓ Q3	1401	BE	ROS		61	50°29.755	127°46.289	200		19				
		1406	BO				50°29.761	127°46.290		195					
		1409	EN				50°29.744	127°46.296							
	✓ Q2	1505	BE	CTD		62	50°28.249	127°54.293	224						Start?
		1511	BO				50°28.236	127°54.296		220					5 mab
		1514	EN				50°28.232	127°54.290							
	✓ Q1	1557	BE	CTD		63	50°25.019	127°59.970	165						
		1601	BO				50°25.027	127°59.981		160					5 mab
		1604	EN				50°25.049	127°59.995							
✓	F1	1634	BE	CTD		64	50°28.898	128°11.595	48						
		1637	BO				50°28.904	128°11.594		45					5 mab
		1638	EN				50°28.903	128°11.594							
✓	F2	1703	BE	CTD		65	50°31.187	128°11.024	15						
		1706	BO							17					2 mab
		1707	EN				50°31.192	128°11.012							
29	✓ Kqs3	1453	BE	CTD		66	50°10.309	128°18.414	57						
		1456					50°10.309	128°18.415		55					3 mab
		1457					50°10.308	128°18.415							

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							Latitude	Longitude							
29	✓ Kas1	1553	BE	CTD		67	50° 8.992	127° 17.700	68						
		1557	BO				50° 8.993	127° 17.704		63					4.0 mab
		1558	EN				50.8.993	127° 17.704							
	✓ E1	1617	BE	CTD		68	50.7662	127° 18.056	26						
		1620	BO				50° 7.658	127° 18.056		27					2 mab
	✓ E2	1653	BE	CTD		69	50° 7.132	127° 17.186	23						
		1654	BO							21					3 mab
		1655	EN				50° 7.132	127 17.190							
	✓ Kas2	2100	BE	CTD		70	50° 7.196	127 15.122	101						
		2103	BO				50° 7.193	127° 15.113		98					5 mab
		2105	EN				50° 7.189	127° 15.113							
	✓ VI-13	2122	BE	CTD		71	50° 5.621	127° 15.030	109						
		2127	BO				50° 5.602	127° 15.032		112					5 mab
		2129	EN				50 5.600	127° 15.032							
	✓ TAHH3	2148	BE	ROS		72	50 3.505	127 14.696	217		20-22				6 mab
		2155	BO				50 3.505	127 14.696		211					
		2158	EN				50 3.496	127 14.671							

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							Latitude	Longitude							
29 ✓	TAHH2	2224	BE	CTD		73	50 5088	127 10.235	210						
		2230	BO				50 5092	127 10.202		205					5 mob
		2233	EN				50 5092	127 10.194							
29 ✓	TAHH1	2305	BE	CTD		74	50 7.960	127 5.603	110						5 mob
		2309	BO				50 7.993	127 5.571		102					
		2311	EN				50 7.994	127 5.592							
31 ✓	ZEB1	1519	BE	CTD		75	49° 58.018	126 51.000	108						
		1523	BO				49° 58.009	126 50.999		105					5 mob
		1525	EN				49° 58.008	126 51.004							
✓	ZEB2	1553	BE	ROS		76	49° 55.499	126 47.900	224						
		1556	BO				49° 55.496	126 47.904		216	23	1			6 mob
	HEC1	2056	BE	ROS		77	49° 52.103	126° 45.104	260		24	1			
		2102	BO				49 52.110	126 45.128		255					5 mob
		2107	EN				49° 52.116	126° 45.131							
	TAH1	2205	BE	CTD		78	49 54.007	126° 39.304'	135						
		2209	BO				49° 53.998	126° 39.305'		146					6 mob
		2213	EN				49° 53.990	126° 39.296'							

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