

DAILY SCIENCE LOG

2011-08

Cast 8

Change sample
11 to 911

Cast 10

Use 11-26

(NOT 12-27)

2011-08

DATE:

From: 13 APRIL 2011 to: 17 APRIL 2011

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

WaterProperties.ca

Captain: KENT BEND First Officer: LAW COPPING
Second Officer: ANDREW COSTA Third Officer: _____
Fishing Master: _____

Mission Participants / Agencies:

[illegible][illegible]

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:	Model:	s/n:
Secchi disk		

Fluorometer: Model	Cable gain:	s/n:	P, S or NO pump?

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

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

Other sensors: _____ P, S or NO pump? _____
 IYAK SENSOR. _____ s/n: _____
 PRODUC. _____ 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?

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

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:
Secondary conductivity sensor number:		

Fluorometer: Model _____ s/n: _____
Cable gain: _____
Cable gain: _____
P, S or NO pump? _____

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

Chy Gen sensor:	Model:	s/n
PAR sensor:	Model:	s/n

Other sensors: _____ s/n: _____
 IYAX sensor, _____ product, _____ 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?**

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

Other sensors: _____ s/n: _____

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

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Month <u>APRIL</u>				Year <u>2011</u>			Ship <u>VECTOR</u>				Cruise ID <u>2011-08</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							
13	58	2241	BE	CTD	/	1	48° 42.90	123° 14.30	332			/	SR	✓	
		2248	BO				48° 42.97	123° 14.31							
		2254	EN				48° 42.99	123° 14.28							
	57	2327	BE	CTD		2	48° 43.99	123° 8.10	158			/	SR	X ^{sorry}	
		2330	BO				48° 44.00	123° 8.10		154					
		2333	EN				48° 44.00	123° 8.08							
14	22	0727	BE	CTD		3	49° 40.25	124 16.32	353		—	/	H.N/PC/OT	✓	computer crash
		0733	BO				49 40.23	124 16.29		349					sfc → restail
		0739	EN				49 40.23	124 16.30							- high fluorescence 21
	20	0911	BE	CTD		4	49 47.21	124 32.32	314				PC/WM	✓	
		0918	BO				49 47.19	124 32.32		311					
		0923	EN				49 47.21	124 32.31					P		
	19	1118	BE	CTD		5	50 1.23	124 52.92	273	287			R/WM	✓	
		1121	BO				50 1.22	124 52.96		284					
		1126	EN				50 1.18	124 52.95							
	18	1203	BE	CTD		6	49 59.19	124 58.89	145				PC/WM	✓	
		06	BO				49 59.20	124 58.89		145					
		09	EN				49 59.21	124 58.90							

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
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 DN = Down / No stop

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

Depart Pal Bay 1400 local - overcast light wind

- PAR cap left on by mistake - still on at 5K

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							Latitude	Longitude							
14	17	12 39	BE	CTD		7	49 58.83	125 4.38	265				R/W/ST	✓	
		12 44	BO				49 58.84	125 4.31		262					
		12 49	EN				49 58.84	125 4.31							
14	16	13 31	BE	ROS		8	49 57.71	125 8.82	157		1-11	11	R/W/ST	✓	
		13 34	BO				49 57.69	125 8.79		154					
		13 45	EN				49 57.72	125 8.73							
14	13	14 48	BE	CTD		9	49 55.28	124 55.18	235				R/W/ST	✓	
		14 53	BO				49 55.27	124 55.21		231					
		14 57	EN				49 55.26	124 55.20							
14	14	15 23	BE	ROS		10	49 52.98	124 59.54	315		12-27	16		✓	+ PNYTOS
		15 29	BO				49 52.98	124 59.56		308					
		15 46	EN				49 53.00	124 59.61							
14	15	16 10	BE	CTD		11	49 51.60	125 1.61	125				R/W/ST	✓	
		16 13	BO				49 51.61	125 1.62		123					
		16 16	EN				49 51.61	125 1.60							
14	12	17 52	BE	ROS		12	49 43.60	124 40.80	355		28-43	16	R/W/ST	✓	
		17 59	BO				49 43.59	124 40.79		351					
		18 15	EN				49 43.62	124 40.80							

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2 sample 11s - one at end of first cast
other at start of second cast

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Month				Year			Ship			Cruise ID					
APRIL				2011			VECTOR			2011-08					
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							
14	11	1915	BE	CTD		13	49° 42.41	124° 43.45	302				SR	✓	
		1921	BO				49° 42.39	124° 43.42		298					
		1925	EN				49° 42.40	124° 43.43							
	10	1957	BE	CTD		14	49° 40.70	124° 47.33	94				SR	✓	
		1959	BO				49° 40.69	124° 47.31		90					
		2001	EN				49° 40.70	124° 47.28							
	8	2152	BE	CTD		15	49° 39.33	124° 32.95	340				SR	✓	
		2158	BO				49° 39.33	124° 32.94		330					
		2204	EN				49° 39.30	124° 32.94							
	9	2303	BE	ROS	US	16a+b	49° 35.50	124° 38.33	170		44-55	12	SR	✓	crash @ bottle #10
		2307	BO				49° 35.51	124° 38.32		164					started Filo 2011-08-2006g
		2325	EN				49° 35.50	124° 38.32							2011-08-0016b.hox
15	7	0048	BE			17	49° 34.40	124° 24.15	351						
		0055	BO				49° 34.36	124° 24.15		345					
		0101	EN				49° 34.34	124° 24.16							
	6	0140	BE			18	49° 30.62	124° 27.82	192					✓	
		0144	BO				49° 30.61	124° 27.79		185	56-68	13			
		0159	EN				49° 30.58	124° 27.79							

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Comp crash on the way up just before tripping bot 10. Started 2011-08-0016b For the last few bottles.

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Month <i>April</i>				Year <i>2011</i>				Ship <i>Vector</i>				Cruise ID <i>2011-08</i>			
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							
15	5	0257	BE	CTD		19	49° 27.39	124° 30.82	314				SR	✓	
		0303	BO				49° 27.40	124° 30.80		309					
		0308	EN				49° 27.40	124° 30.80							
	4	0352	BE	CTD		20	49° 24.51	124° 22.09					SR		
		0358	BO				49° 24.53	124° 22.10							
		0404	EN				49° 24.54	124° 22.12							
	3	0430	BE	ROS	US	21	49° 26.61	124° 20.20			69-84	16	SR	✓	
		0436	BO				49° 26.61	124° 20.23							
		0454	EN				49° 26.66	124° 20.22							
	1	0551	BE	CTD		22	49° 20.31	124° 12.11	246				SR	✓	Nothing to report!
		0556	BO				49° 20.30	124° 12.13		242					
		0600	EN				49° 20.28	124° 12.10							
	2	0637	BE	ROS	US	23	49° 24.08	124° 9.28	281		85-99	15	SR	✓	
		0642	BO				49° 24.10	124° 9.28		274					
		0700	EN				49° 24.10	124° 9.33							
	25	0802	BE	CTD		24	49° 27.71	124° 7.49	292				SR	✓	Computer crash - reboot
		0808	BO				49° 27.70	124° 7.51		288					
		0813	EN				49° 27.70	124° 7.51							

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							Latitude	Longitude							
15	24	0909	BE	CTD		25	49 30.31	124 5.98	428				R/AM/ST	✓	
		0917	BO				49 30.31	124 5.95		424					
		0924	EN				49 30.29	124 5.96							
	28	1243	BE	CTD		26	49 24.10	123 45.33	137				R/AM/ST	✓	
		1245	BO				49 24.11	123 45.33		134					
		1247	EN				49 24.10	123 45.32							
	27	1403	BE	ROS	US	27	49 19.09	123 47.99	346		100-115	16	R/AM/ST	✓	
		1409	BO				49 19.10	123 48.01		343					
		1425	EN				49 19.09	123 48.00							
	26	1523	BE	CTD		28	49 14.33	123 50.73	260				R/AM/ST		shows as sk 40
		1529	BO				49 14.33	123 50.72		257					in CTD file
		1533	EN				49 14.32	123 50.71							
	40	1659	BE	CTD		29	49 8.59	123 36.82	147				R/AM/ST	✓	
		1703	BO				49 8.60	123 36.83		142					
		1705	EN				49 8.61	123 36.83							
	39	1728		ROS	US	30/31	49 9.78	123 33.00	375		116-132	17	R/AM/ST	✓	crush @ 20 m op
		1736					49 9.78	123 33.03		373					
		1804					49 10.29	123 33.35							

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event 30/31 is rosette cut in two parts

30 - down + up to 20 m

31 - up from 20 m to sfc

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							Latitude	Longitude							
15	38	1859	BE	CTD		32	49° 12.01	123° 26.44	307				SR	✓	
		1904	BO				49° 12.01	123° 26.43							
		1911	EN				49° 12.00	123° 26.42							
	37	1953	BE	CTD		33	49° 13.60	123° 20.68	215				SR		Crash @ 150m on the
		1957	BO				49° 13.59	123° 20.69		210					upcast.
		2001	EN				49° 13.58	123° 20.69							
	41	2121	BE	CTD		34	49° 3.33	123° 22.30	242				SR	✓	
		2126	BO				49° 3.33	123° 22.31		238					
		2130	EN				49° 3.32	123° 22.27							
	108	2159	BE	CTD		35	49° 4.46	123° 19.07	89				SR	✓	
		2201	BO				49° 4.46	123° 19.07		85					
		2202	EN				49° 4.45	123° 19.03							
	42	2243	BE	ROS		36a/b	49° 1.79	123° 26.20	322		133-148		SR	✓	Comperash just before
		2250	BO				49° 1.80	123° 26.18		317					10m bottle-trip
		2311	EN				49° 1.81	123° 26.17							2011-08-0036 b created
	43	2351	BE			37	49° 0.20	123° 30.08	199				SR	✓	
		2355	BO				49° 0.21	123° 30.08		195					
		2358	EN				49° 0.21	123° 30.06							

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							Latitude	Longitude							
16	107	0052	BE	CTD		38	48° 58.37	123° 17.98	181				SR	✓	
		0055	BO				48° 58.41	123° 17.97		176					
		0058	EN				48° 58.41	123° 17.97							
	106	0128	BE	CTD		39	49° 0.97	123° 13.21	76				SR	✓	
		0131	BO				49° 0.98	123° 13.23							
		0132	EN				49° 0.97	123° 13.22							
	44	0211	BE	CTD		40	48° 56.79	123° 5.98	120				SR	✓	
		0214	BO				48° 56.79	123° 5.99		116					
		0216	EN				48° 56.79	123° 5.99							
	59	0436	BE	ROS		41	48° 37.81	123° 14.51	235		149-162	14	CR	✓	Swapped in new
		0442	BO				48° 37.80	123° 14.53		230					comp due to frequ-
		0458	EN				48° 37.81	123° 14.55							ent cracking
	60	0644	BE	CTD		42	48° 33.91	123° 12.80	290		—		SR	✓	
		0650	BO				48° 33.95	123° 12.74		285					
		0654	EN				48° 33.99	123° 12.70							
	61	0732	BE	CTD		43	48 29.15	123 9.24	286		—			✓	
		0740	BO				48 29 21	123 9.24		285					
		0745	EN				48 29 23	123 9.27							

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							Latitude	Longitude							
16	Sta 101	1509	BE	CTD		44	48 25.33	124 45.22	214				R/W	✓	capite crush in idealization
		1512	BO				48 25.33	124 45.21		194					
		1516	EN				48 25.34	124 45.18							
16	102	1551	BE	ROS		45	48 30.03	124 44.00	256		163-176	14	R/W	✓	bot 2 not full 3/4 full trans
		1557	BO				48 30.01	124 43.97		252					
		1612	EN				48 29.36	124 43.92							
16	103	1644	BE	CTD		46	48 32.97	124 42.96	122						capite crush on idealization x2
		1646	BO				48 32.97	124 42.99		121					fine again at end
		1648	EN				48 32.97	124 43.01							
	76	1836	BE	CTD		47	48 31.39	124 30.03	90						capite crush - Scott called - change
		1840	BO				48 31.40	124 29.99		88.2					capite forecast 47
		1841	EN				48 31.40	124 29.98							
	75		BE	ROS		48	48 28.19	124 32.77	220		177-190	14	SR		
		1953	BO				48 28.19	124 32.77		215					
			EN				48 28.19	124 32.77							
	74	2149	BE			49	48 25.11	124 35.52	194				SR		
		2153	BO				48 25.10	124 35.55		189					
		2156	EN				48 25.09	124 35.55							

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Cast 41-46 on black rack mount comp Stations 75 + 76 may have been run with 2011-28's can file

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							Latitude	Longitude							
16	73	2354	BE	CTD		50	48° 14.97	124° 6.62	163				SR	✓	
		2358	BO				48° 15.00	124° 6.65		158					
		0001	EN				48° 14.96	124° 6.66							
17	72	0048	BE	ROS		51	48° 18.63	124° 4.10	190		191-203	13	SR	✓	
		0053	BO				48° 18.64	124° 4.11		185					
		0106	EN				48° 18.65	124° 4.18							
	71	0156	BE	CTD		52	48° 22.20	123° 59.40	112				SR	✓	
		0158	BO				48° 22.21	123° 59.46		106					
		0200	EN				48° 22.21	123° 59.52							
	70	0337	BE	CTD		53	48° 19.34	123° 43.17					SR	✓	
		0340	BO				48° 19.37	123° 43.29							
		0342	EN				48° 19.40	123° 43.38							
	68	0440	BE	CTD		54	48° 12.20	123° 42.98	142				SR	✓	
		0442	BO				48° 12.23	123° 43.00		136					
		0445	EN				48° 12.26	123° 43.03							
	105	0627	BE	CTD		55	48° 11.02	123° 18.98	91				SR	✓	
		0628	BO				48° 11.03	123° 18.98		85					
		0630	EN				48° 11.02	123° 19.00							

Cast Type:

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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

Notes:

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

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MISSED ROBERTS 69 -

SHIRING TRAFFIC ON STATION

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page _____ of _____

Month <u>April</u>				Year <u>2011</u>			Ship <u>Vector</u>				Cruise ID <u>2011-08</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							
17	ADCP	0718	BE	ROS	US	56	48 14.00	123 18.02	120		204-213	10	R/W/B	✓	
		0723	BO				48 14.02	123 18.00		118					
		0731	EN				48 14.00	123 18.01							
17	104	0827	BE	CTD		57	48 20.02	123 18.00	84				R/W/B	✓	
		0830	BO				48 20.01	123 18.00		82					
		0831	EN				48 20.01	123 18.01							
17	67	0856	BE	CTD		58/59	48 22.79	123 18.09	107					✓	reboot @ 25m d
		0902	BO				48 22.82	123 18.11		104					bottom - new box file
		0905	EN				48 22.82	123 18.09							
17	66	0934	BE	CTD		60	48 19.32	123 14.09	102				R/W/B	✓	
		0938	BO				48 19.33	123 14.07		100					
		0940	EN				48 19.33	123 14.05							
17	65	1012	BE	ROS		61	48 15.91	123 9.83	126		214-223		R/W/B	✓	
		1014	BO				48 15.92	123 9.82		126					
		1023	EN				48 15.92	123 9.79							
17	64	1103	BE	CTD		62	48 12.81	123 5.80	109				R/W/B	✓	
		1106	BO				48 12.80	123 5.76		107					
		1108	EN				48 12.79	123 5.78							

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Month				Year				Ship				Cruise ID			
APRIL				2011				VECTOR				2011-08			
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							
17	63	11 45	BE	CTD		63	48 14.58	122 58.52	155				R/N/ST	✓	
		11 49	BO				48 14.59	122 58.54		152					
		11 52	EN				48 14.60	122 58.54							
17	62	12 59	BE	ROS		64	48 22.78	123 2.59	150		224-234	11	R/N/ST	✓	computer crash on initialization
		13 02	BO				48 22.79	123 2.59		148					
		13 12	EN				48 22.80	123 2.66							
17	54	14 54	BE	CTD		65	48 26.58	122 44.29	78						
		14 57	BO				48 26.52	122 44.31		77					
		14 58	EN				48 26.49	122 44.30							
17	53	16 02	BE	CTD		66	48 33.35	122 44.92	60				R/N/ST	✓	
		16 04	BO				48 33.26	122 44.89		55					
		16 06	EN				48 33.20	122 44.88							
17	52	17 09	BE	CTD		67	48 38.92	122 43.27	83				R/N/ST	✓	
		17 11	BO				48 38.91	122 43.27		81					
		17 13	EN				48 38.86	122 43.28							
17	51	18 34	BE	CTD		68	48 46.74	122 51.63	162				R/N/ST	✓	
		18 37	BO				48 46.72	122 51.62		160					
		18 40	EN				48 46.67	122 51.61							

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Month <u>APRIL</u>				Year <u>2011</u>			Ship <u>VECTOR</u>				Cruise ID <u>2011-08</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							
17	56	2017	BE	ROS	US	69	48 46.45	123 1.52	214		235-248	14	SR	✓	
		2022	BO				48 46.43	123 1.42		209					
		2038	EN				48 46.70	123 1.60							
	47	2117	BE	CTD		70	48 49.31	123 6.25	185						
		2121	BO				48 49.28	123 6.19		180			SR		
		2124	EN				48 49.28	123 6.20							
	48	2156	BE	CTD		71	48 51.71	123 3.21	230				SR	✓	
		2200	BO				48 51.70	123 3.24		225					
		2204	EN				48 51.68	123 3.29							
	49	2247	BE	CTD		72	48 55.00	122 59.61	132				SR	✓	Comp crash @ 80m
		2250	BO				48 55.00	122 59.62		129					redo from start
		2252	EN				48 54.99	122 59.62							was deemed best
	50	2319	BE	CTD		73	48 57.72	122 56.09	30				SR	✓	
		2320	BO				48 57.73	122 56.10		25					
		2321	EN				48 57.72	122 56.11							
18	44	0003	BE	CTD		74	48 56.83	123 6.04	126				SR	✓	
		0006	BO				48 56.80	123 6.05		121					
		0008	EN				48 56.78	123 6.06							

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alongside Port Bay