

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

PAC 2011-25

DATE:

From:

to:

VESSEL:

PROJECT(S):

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

WaterProperties.ca

First Officer: _____
Third Officer: _____

Third Officer: _____

DFO: WVL / MEAD FOS / OSD TOS / CHS

Chief Scientist: Teo Schulman
Watch Cabin Name

Watch Cabin

[illegible]

Chief Scientist:

Cabin

[illegible]

Nqx lecha 1

model: 11

serial number: 45

Make: SB

model: 

serial number: 443

Primary temperature serial number: 051604

Primary conductivity serial number: 1764

Secondary temperature serial number: 7

Secondary conductivity serial number: 2120

Transmissometer: _____ Model: _____

Fluorometer: Model FLRTD Cable gain:

Oxygen sensor: _____ Model: _____

PAR sensor: _____ Model: _____

Other sensors: pH

Other sensors: _____

Other sensors:

Other sensors: all

s/n:	11852R	P, S or NO pump?
s/n:	7715	P, S or NO pump?
s/n:	0297	P, S or NO pump?
s/n:		
s/n:	980692	P, S or NO pump?
s/n:		P, S or NO pump?
s/n:		P, S or NO pump?
s/n:	43281	P, S or NO pump?

Make: _____ model: _____ serial number: _____

Primary temperature serial number: _____

Primary conductivity serial number: _____

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: _____ Model: _____

Fluorometer: Model _____ Cable gain: _____

Oxygen sensor: _____ Model: _____

PAR sensor: _____ Model: _____

Other sensors: _____

Other sensors: _____

Other sensors: _____

[illegible]

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

Rosette Setup:

Number of bottles: 24
Manufacturer: _____
Volume of bottles (litres): 10

Winches:

1. Make: Suwan Model: 325 Serial #: 307 Used for: SP/R
2. Make: _____ Model: _____ Serial #: _____ Used for: _____
3. Make: _____ Model: _____ Serial #: _____ Used for: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):
low

Salinometer:

Make: 111 Model: _____ Serial Number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Oxygen Kit(s):

Make: Yellow #4 Model: 442 Kit Number: _____
Make: _____ Model: _____ Kit Number: _____
Comments on performance during cruise (comments should also be reflected in the post-cruise report):

Thermosalinograph System (SBE21):

Program: 2483 Version: _____
Sampling interval (seconds): _____
Fluorometer sensor serial number: 2483 new 3483 plumbed for future cruises
Comments on performance during cruise (comments should also be reflected in the post-cruise report):

ADCP Setup:

Computer time zone: _____ User Exits: Name: _____ Exit points: _____
Sampling interval (sec): _____ Name: _____ Exit points: _____
Bin Length: (2^x): _____ Name: _____ Exit points: _____
Pulse Length: _____ Work File: _____
Buffer (bytes): _____
Gyro Offset: _____

Comments on performance during cruise (comments should also be reflected in the post-cruise report):

CTD Test Cast Information

Test Cast along side? Yes ☐ No ☒

Comments

Test Cast in Saanich Inlet or other location? Yes ☐ No ☒

Comments

CTD pressure reading on deck (db), before cast: _____ after cast: _____

Pumps working? Yes ☒ (0011) No ☐ (0010)

Secondary Temp – Primary Temp: _____

(Average from the mixed region)

Secondary Salinity – Primary Salinity: _____

(Average from the mixed region)

Additional Comments:

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Month <u>August</u>				Year <u>2011</u>			Ship <u>Vector</u>				Cruise ID <u>2011-25</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							
9	1	0237	BE	ROS		1	49 8.230	123 35.281	192	175	1-8	8	SN	/	NArrest test
		0241	BO				49 8.237	123 35.256							Cast - 9 dupl's
		0251	EN				49 8.209	123 35.263							bottle
9	NC1	1602	BE	ROS		2	50 20.790	125 25.826	340	336	9-22	14	SN	/	344
		1614	BO				50 20.774	125 25.832							
		1632	EN				50 20.734	125 25.831							
9	NC2	1902	BE	ROS		3	50 21.071	125 24.611	320	307	—	—	SN	/	327
		1910	BO				50 21.062	125 24.602							
		1915	EN				50 21.065	125 24.595							
9	NC3	2026	BE	ROS		4	50 21.430	125 23.052	283	278	—	—	SN	/	287
		2032	BO				50 21.445	125 23.052							
		2037	EN				50 21.446	125 23.087							
9	NC4	2053	BE	ROS		5	50 21.735	125 22.312	256	250	23-35	13	SN	/	296
		2100	BO				50 21.719	125 22.267							
		2116	EN				50 21.730	125 22.320							

Cast Type:

BOT = Bottle cast, no CTD
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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
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Notes:

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

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							Latitude	Longitude							
9	NCS	2227	BE	ROS		6	50 22.068	125 21.654	218	212	36-43	8	SM	—	225
		2232	BO				50 22.074	125 21.704							
		2244	EN				50 22.074	125 21.718							
9	NCG	2303	BE	ROS		7	50 22.656	125 20.954	233	227	44-52	9	SM	—	225
		2314	BO				50 22.652	125 20.906							
		2325	EN				50 22.640	125 20.929							
10	NCT	0053	BE	ROS		8	50 23.212	125 20.504	235	229	—		SM	—	245
		0100	BO				50 23.186	125 20.524							
		0104	EN				50 23.150	125 20.507							
10	NCS	0123	BE	ROS		9	50 24.108	125 19.874	259	254	53-61	9	SM	—	238
		0128	BO				50 24.131	125 19.817							
		0141	EN				50 24.057	125 19.835							
	NCS	1442	BE	ROS		10	50 24.745	125 19.424	281	278	62-71	10	SM	—	212
		1451	BO				50 24.702	125 19.470							
		1503	EN				50 24.738	125 19.409							

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							Latitude	Longitude							
10	NC10	1531	BE	ROS		11	50 25.292	125 19.012	310	307	72-81	10	SW	/	240
		1533	BO				50 25.314	125 19.015							
		1551	EN				50 25.318	125 19.015							
10	NC11	1705	BE	ROS		12	50 25.970	125 18.676	327	322	—	—	SW	/	?
		1714	BO				50 25.973	125 18.656							
		1718	EN				50 25.943	125 18.630							
10	NC12	1734	BE	ROS		13	50 26.476	125 18.372	322	319	—	—	SW	/	326 / stop at 250 for repairs of ship
		1743	BO				50 26.553	125 18.337							
		1754	EN				50 26.548	125 18.370							
10	NC13	1906	BE	ROS		14	50 26.952	125 18.076	308	304	82-89	8	SW	/	200
		1914	BO				50 26.947	125 18.034							
		1926	EN				50 26.904	125 18.054							

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							Latitude	Longitude							
12	BS1	1439	BE	ROS		15	49 38.886	124 52.724	20		—	—	SR	—	
		1441	BO				49 38.857	124 52.705							
		1441	EN				49 38.858	124 52.705							
	BS1			GRAB		16									
11	BS2	1610	BE	ROS		17	49 38.417	124 53.626	33	31	90-96	7	SR	—	Fired extra bottle at surface - 0/15
		1622	BO				49 38.422	124 53.575							
		1628	EN				49 38.412	124 53.516							
	BS2			GRAB		18									
	BS2			CORE		19									
12	BS3	1459	BE	ROS		20	49 37.896	124 54.560	20	18	—	—	SR	—	
		1500	BO				49 37.890	124 54.563							
		1501	EN				49 37.892	124 54.562							
	BS3			GRAB		21									
*Note Rosette samples were taken on 11, 12 was CTD samples															

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							Latitude	Longitude							
12	B56	1528	BE	ROS		22	49 36.230	124 50.357	23	21	—	—	SR	—	
		1530	BO				49 36.230	124 50.356							
		1531	EN				49 36.232	124 50.362							
	B56			GRAB		23									
11	B55	1657	BE	ROS		24	49 35.875	124 51.605	40	38	97-103	7	SR	—	
		1700	BO				49 35.862	124 51.616							
		1706	EN				49 35.856	124 51.612							
	B55			GRAB		25									
	B55			CORE		26									
12	B54	1550	BE	ROS		27	49 35.592	124 52.634	21	20	—	—	SR	—	
		1552	BO				49 35.603	124 52.626							
		1552	EN				49 35.603	124 52.628							
	B54			GRAB		28									

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							Latitude	Longitude							
12	BS5	1612	BE	ROS		29	49 34.178	124 50.883	28	22	—	—	SR	—	
		1615	BO				49 34.177	124 50.892							
		1616	EN				49 34.176	124 50.892							
	BS5			GRAB		30									
11	BS8	1724	BE	ROS		31	49 34.120	124 51.594	46	44	109-110	7	SR	—	
		1727	BO				49 34.115	124 51.602							
		1733	EN				49 34.117	124 51.598							
	BS8			GRAB		32									
	BS8			CONC		33									
12	BS7	1632	BE	ROS		34	49 34.032	124 52.370	24	22	—	—	SR	—	
		1633	BO				49 34.039	124 52.373							
		1634	EN				49 34.039	124 52.372							
	BS7			GRAB		35									

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							Latitude	Longitude							
12	BS10	1654	BE	ROS		36	49 32.534	124 50.303	33	31	—	—	SN	✓	
		1656	BO				49 32.528	124 50.288							
		1657	EN				49 32.528	124 50.287							
	BS10			GRAB		37									
11	BS11	1752	BE	ROS		38	49 32.543	124 50.515	46		111-117	7	SN	✓	
		1756	BO				49 32.540	124 50.519							
		1803	EN				49 32.574	124 50.555							
	BS11			GRAB		39									
	BS11			CORE		40									
12	BS12	1711	BE	ROS		41	49 32.494	124 51.159	35	34	—	—	SN	—	
		1716	BO				49 32.540	124 51.137							
		1716	EN				49 32.539	124 51.134							
	BS12			GRAB		42									

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							Latitude	Longitude							
12	BS13	1738	BE	ROS		43	49 31.343	124 48.434	44	40			SR	X	
		1742	BO				49 31.343	124 48.432							
		1743	EN				49 31.344	124 48.434							
	BS13			GRAB		44									
11	BS14	1859	BE	ROS		45	49 31.033	124 49.109	36	34	118-124	7	SR		
		1902	BO				49 31.032	124 49.112							
		1903	EN				49 31.038	124 49.104							
	BS14			GRAB		46									
	BS14			CONE		47									
12	BS15	1801	BE	ROS		48	49 30.575	124 49.319	17	16			SR		
		1803	BO				49 30.577	124 49.316							
		1804	EN				49 30.576	124 49.314							
	BS15			GRAB		49									
				CONE											

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							Latitude	Longitude						
1	BS16	2003	BE	ROS		50	49 29.256	124 45.740	44			sn		labelled w BS18 in file
		2006	BO				49 29.262	124 45.732						
		2007	EN				49 29.257	124 45.732						
	BS16			GRAB		51								
11	BS17	1938	BE	ROS		52	49 29.032	124 46.234	48	125-131	7	sn		
		1941	BO				49 29.041	124 46.242						
		1943	EN				49 29.059	124 46.183						
	BS17			GRAB		53								
	BS17			CORE		54								
12	BS18 ✓	2019	BE	ROS		55	49 28.921	124 46.519	24	22		sn		
		2021	BO				49 28.925	124 46.529						
		2021	EN				49 28.924	124 46.531						
	BS18			GRAB		56								

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							Latitude	Longitude							
12	BS21 <u>BS21A</u>	2054	BE	ROS		57	49 27.631	124 44.368	26	24			SL	—	
		2056	BO				49 27.635	124 44.374							
		2057	EN				49 27.636	124 44.374							
	BS21 <u>BS21A</u>			GRAB		58									
11	BS20 ✓	2004	BE	ROS		59	49 28.339	124 44.908	35		132-138	7	SL	—	
		2007	BO				49 28.330	124 44.890							
		2013	EN				49 28.332	124 44.961							
	BS20			GRAB		60									
	BS20			CORE		61									
12	BS19 ✓	2037	BE	ROS		62	49 28.021	124 45.135	17	17	—	—	SL	—	
		2039	BO				49 28.021	124 45.184							
		2040	EN				49 28.021	124 45.180							
	BS19			GRAB		63									
12	BS21	2112	BE	ROS		68	49 28.578	124 44.575	22	20	—	—	SL	—	
		2114	BO				49 28.585	124 44.578							
		2115	EN				49 28.585	124 44.580							

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