

DATA SCIENCE LOG BOOK



MISSION
NUMBER

2016-09

DATE:

From: 23 Feb 2016

to:

VESSEL:

Salacia

PROJECT(S):

Strait of Georgia Zooplankton

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				Year			Ship			Cruise ID					
Day	Station Name	Time (UTC) ²	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							
1	GJ01	1741	BE	NET		24	48° 45.84	123° 20.57	65				GC		
		1744	BO				48 45.82	123 20.58		55					
		1745	EN				48 45.82	123 20.58							
1	SC04	1830	BE	CTD		25	48 43.51	123 24.94	90				GC	✓	
		1832	BO				48 43.51	123 24.94		80					
		1835	EN				48 43.51	123 24.94							
1	SC04	1837	EN	BOT	MR	26	48 43.50	123 24.92	90	5	25.26	2	GC		Sample 25.26 only
1	SC04	1841	BE	NET		27	48 43.45	123 25.00	90				GC		
		1844	BO				48 43.45	123 25.01		80					
		1846	EN				48 43.42	123 25.01							
9	CBC2	^{LOCAL} 10 14	BE	CTD	-	78	48 44 26	123 34 56	65		-	-	MB	✓	Start of Trip.
		1015	BO				48 44 26	123 34 56		55					Sunny, Clear
		1017	EN				48 44 26	123 34 58							
9	CBC2	1019	BE	NET	-	79	48 44 26	123 34 57	65			-	MB		
		1023	BO				48 44 26	123 34 60		55					
		1025	EN				48 44 26	123 34 61							
9	SC04	11 25	BE	CTD	-	80	48 43 47	123 24 99	90		-	-	MB	✓	
		1128	BO				48 43 48	123 24 96		80					
		1129	EN				48 43 47	123 24 94							

Cast Type:

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 =

Bottle Firing Method:

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Transmissometer & Fluorometer are to be cleaned before each cast

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yes.
 WITH CUT BY THIS!

1 April, events 74-77 add + 1 hr to correct UTC time.

Filtered 140mls for chl-a samples. Oyster bucket vent leaking.

DAILY SCIENCE LOG

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Month <u>MAY</u>			Year <u>2016</u>				Ship <u>BALCO</u>				Cruise ID <u>2016-09</u>				
Day	Station Name	Time LOCAL (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	SC04	1133	EN	BOT	MSG	81	48 43 46	123 24 89	90	5	27-28	2	MB	-	Sample 27 → 5m 60mL Sample 28 → 0m 60mL A+B L+ phyto
9	SC04	1137	BE	NET	-	82	48 43 44	123 24 86	90		-	-	MB		
		1142	BO				48 43 43	123 24 84		80					
		1144	EN				48 43 42	123 24 87							
9	GE-01	1315	BE	CTD	-	83	48 45 78	123 20 54	65		-	-	MB	✓	
		1317	BO				48 45 74	123 20 55		55					
		1319	EN				48 45 71	123 20 56							
9	GE-01	1323	BE	NET	-	84	48 45 76	123 20 55	65		-	-	MB		
		1326	BO				48 45 70	123 20 58		55					
		1327	EN				48 45 68	123 20 59							
10	GE-01	0716	BE	CTD	MSG	85	49 14 99	123 44 86	400		29	1	MB	✓	SUNNY CATCH DAY DEEP SALINITY
		0729	BO				49 15 01	123 44 67		390					ROSETTE X2
		0744	EN				49 15 02	123 44 50							
10	GE-01	0757	EN	BOT	MSG	86	49 15 01	123 44 33	400	5	30-31	2	MB	-	Sample 30-5m 60mL Sample 31-0m 60mL L+ phyto
10	GE-01	0801	BE	NET	-	87	49 15 01	123 44 11	400		-	-	MB		
		0823	BO				49 15 03	123 44 87		390					
		0834	EN				49 15 04	123 44 80							

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This page is for any notes or observations

WINDY STALLING ON THE WAY DOWN, VERY SLOW, START & STOPPING

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Month <u>MAY</u>				Year <u>2016</u>			Ship <u>Sebat</u>			Cruise ID <u>2016-09</u>					
Day	Station Name	Time Local (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							
10	CPF1	1100	RE	CTD	-	88	49 21 99	124 4 94	245		-	-	MB	✓	brown/green water
		1106	BO				49 21 99	124 4 87		285					
		1113	EN				49 21 95	124 4 80							
10	CPF1	1114	RE	NET	-	89	49 21 93	124 4 74	245		-	-	MB		
		1127	BO				49 21 88	124 4 62		285					
		1134	EN				49 21 84	124 4 57							
10	CPF1	1137	EN	BURKET	-	90	49 21 84	124 4 57	245	SURFACE	32	-	MB		Phylosample in blue
10	CPF2	1335	RE	CTD	MISC	91	49 27 97	124 29 96	275		33	1	MB	✓	2x Salinity Bottle
		1343	BO				49 27 96	124 29 94		315					
		1355	EN				49 27 83	124 29 90							
10	CPF2	1357	RE	NET	-	92	49 27 81	124 29 89	275			-	MB		
		1413	BO				49 27 70	124 29 86		315					
		1422	EN				49 27 66	124 29 85							
10	BS-11	1538	RE	CTD	-	93	49 28 99	124 45 98	58		-	-	MB	✓	
		1539	BO				49 28 99	124 45 99		48					
		1541	EN				49 28 99	124 45 99							
10	BS-11	1547	RE	NET	-	94	49 28 99	124 45 99	58	48	-	-	MB		
		1549	BO				49 28 98	124 46 02							
		1546	EN				49 28 99	124 46 02							

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Notes:

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Month <u>MAY</u>			Year <u>2016</u>				Ship <u>Sabir</u>				Cruise ID <u>2016-09</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							
10	11	1740	BC	CTD	-	95	49 42 38	124 43 26	290		-	-	MB	✓	
		1748	BO				49 42 39	124 43 23		280					
		1756	EN				49 42 40	124 43 18							
10	11	1758	EN	BOT	MSG	96	49 42 40	124 43 15	290	5	34-35	2	MB		34-5m chl x2 60m Leach 35-0m chl x2 + Phyto
10	11	18 01	BC	NET	-	97	49 42 42	124 43 12	290				MB		
		1815	BO				49 42 43	124 43 06		280					
		1824	EN				49 42 43	124 43 03							
11	22	11 08	BC	CTD	MSG	98	49 40 28	124 16 48	353		36	1	MB	✓	overcast. 2x salinity bottles
		11 15	BO				49 40 28	124 16 59		343					
		11 31	EN				49 40 37	124 16 66							With stalling on way down
11	22	11 40	BC	NET		99	49 40 16	124 16 20	353				MB		
		1158	BO				49 40 24	124 16 36		343					
		1209	EN				49 40 28	124 16 32							
11	24	1342	BC	CTD	-	100	49 30 34	124 6 05	425		-	-	MB	✓	
		1354	BO				49 30 36	124 6 11		415					
		1408	EN				49 30 41	124 6 18							
11	24	1410	BC	NET	-	101	49 30 43	124 6 21	425		-	-	MB		
		1430	BO				49 30 49	124 6 27		415					
		1444	EN				49 30 52	124 6 26							

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Slowed and to get a consistent speed.

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Month <u>MAY</u>				Year <u>2016-09</u>			Ship <u>Selkirk</u>				Cruise ID <u>2016-09</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							
11	28	1633	BC	CTD	-	102	49 24 09	124 45 29	134				MB	✓	
		1636	BO				49 24 09	124 45 32		124					
		1640	EN				49 24 09	124 45 38							
11	28	1643	BC	AXCT	-	103	49 24 09	124 45 44	134				MB		
		1649	BO				49 24 10	124 45 58		124					
		1653	EN				49 24 12	124 45 64							
11	11/10/2016	1734	EN	BOT	MSG	104	49 26 41	123 45 75		5	37-38	2	MB	-	37-5m CNA v2 cont 38-5m CNA v2 cont
11	40	1902	BC	CTD	-	105	49 8 66	123 36 22	146				MB	✓	
		1905	BO				49 8 74	123 36 86		136					
		1909	EN				49 8 80	123 36 90							
11	40	1914	BC	11/10	-	106	49 8 56	123 36 76	146				MB		
		1921	BO				49 8 69	123 36 82		136					
		1925	EN				49 8 74	123 36 83							
12	38	0914	BC	CTD	MSG	107	49 12 16	123 26 36	300		39	1	MB	✓	2- deep Schindler Bunny, 7kgish mud Winch start/slip at 2410m slowed output → better payload
		0921	BO				49 12 12	123 26 32		290					
		0933	EN				49 12 26	123 26 26							
		0935	BC	AXCT		108	49 12 30	123 26 26	300				MB		
		0950	BO				49 12 40	123 26 16		290					
		0955	EN				49 12 42	123 26 12							

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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								
12	41	1113	BC	CTD	-	109	49 3 27	123 22 23	245				MB	✓		
		1120	BO				49 3 25	123 22 25		245						
		1127	CU				49 3 21	123 22 28								
12	41	1130	BC	ROS	MS	110	49 3 21	123 22 27	245	5	40-41	2	MB		40-5m Chl a x 2 60m 41-50m Chl a x 2 60m	
12		1134	BC	NET	-		49 3 21	123 22 27	245							
		1145	BO				49 3 16	123 22 27		245						
		1153	CU				49 3 13	123 22 24								
12	46	1325	BC	CTD	-	112	48 51 36	123 10 83	176				MB	✓		
		1330	BO				48 51 30	123 10 82		166						
		1335	CU				48 51 29	123 10 82								
12	46	1337	BC	NET	-	113	48 51 21	123 10 83	176				MB			
		1346	BO				48 51 13	123 10 81		166						
		1351	CU				48 51 09	123 10 76								
13	59	0809	BC	CTD	-	114	48 37 90	123 14 58	225				MB	✓		
		0814	BO				48 37 88	123 14 60		215						
		0821	CU				48 37 88	123 14 62								
		0823	BC	NET	-	115	48 37 86	123 14 63	225				MB			
		0833	BO				48 37 84	123 14 68		215						
		0841	CU				48 37 88	123 14 70								

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