

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2015-22

DATE:

From: 4 Mar 2015

to:

VESSEL:

Charter - Salacia

PROJECT(S):

SOG Zooplankton

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

WaterProperties.ca

trip 2 CTD startup: switch on, start 2 min timer, put CTD in water.
Niskin
Go down 10m, up to surface, wait at surface for end of 2 min. timer.
At 2min, start cast. * Go to 10m off bottom. (Fire Niskin if needed).
* if doing deep SAL sample, attach Niskin 5m above CTD now + cont. cast.
Recover CTD, switching off immediately after cast (switch off as it's taken out of water).

trip 3 For CTD cast # 64-81 was going down 10m waiting for 2min then back up to surface. Realized
(and realized that this was not correct procedure) trip #2 procedure is implemented for
hereafter to avoid any confusion. # 83 ->

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Month <u>April</u>				Year <u>2015</u>		Ship <u>Salacia</u>			Cruise ID <u>2015 22 TRIP 3</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							
20	30-24	9:23	BE	CTD		64	48° 43 50	123° 24 93	93				BE		Clear sunny
		9:30	BO				48° 43 50	123° 24 80	81	71					3-5 knots wind
		9:33	EN				48° 43 49	123° 24 72	70						calm seas
		9:40	BE	NET		65	48° 43 50	123° 24 97	95						
		9:44	BO				48° 43 50	123° 24 90	87	79					
		9:47	EN				48° 43 50	123° 24 85	84						
		9:57	BE	Bot		66	48° 43 47	123° 24 87	86	5	14-15 m	2			Filtered 180m to 14m
		9:57	MR				48° 43 46	123° 24 83	84						14m to 15m down
20	41	1313	BE	CTD		67	48° 3.18'	123° 22 43'	245	235			GC	/	In Fraser & Ross plane
		1324	BO				48° 3.09'	123° 22 46'		235	18	1			Solids taken
		1330	EN				48° 3.00'	123° 22.56'							
		1341	MR	Root		68	48° 03 22'	123° 22 44'	245	5	16-17 m	2			60m to 17m down
		1346	BE	NET		69	48° 03 25'	123° 22 56'	245						
		1355	BO				48° 03 19'	123° 22 45'		235					
		1406	EN				48° 03 14'	123° 22 44'							
20	38	1510	BE	CTD		70	45° 12.05'	123° 26.33'	300						
		1516	BO				45° 12 02	123° 26.3		270					

Cast Type:
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USW = Sea Water Loop
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 NET = Plankton Net Haul
 DRF = Drifter

Bottle Firing Method:
 US = Up / Stop
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Notes:

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Transmissometer & Fluorometer are to be cleaned before each cast

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Starting Sample # = 14

Glenn Cooper, Fisher (from Tully)

File 2015-22-0064 Stn SC-04 Lex

File 2015-22-0067 Stn 41 Lex

File 2015-22-0070 Stn 38

This page is for any notes or observations

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Month April				Year 2015			Ship Salween			Cruise ID 2015-22 Trip 3					
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							
20	38	525	EN	CTD		70	48° 12.98'	123° 26.29'							
20	38	1539	BE	NET		71	48° 11.95'	123° 26.28'	300						
		1544	BO				48° 11.92'	123° 26.20'		290					
		1549	EN				48° 11.92'	123° 26.32'							
20	40	1644	BE	CTD		72	48° 08.63'	123° 36.85'	136					✓	Lion's main + 65
		1648	BO				48° 08.64'	123° 36.33'		126					phaladon. Stomatopoda
		1651	EN				48° 08.66'	123° 36.52'							Flat calm, clear
		1654	BE	NET		73	48° 08.67'	123° 36.81'	136						water.
		1659	BO				48° 08.70'	123° 36.79'		126					
		1703	EN				48° 08.72'	123° 36.78'							
	G201	1754	BE	STD		74	48° 15.04'	123° 44.99'	400					✓	
		1804	BO				48° 15.12'	123° 44.91'		390					
		1815	EN				48° 15.23'	123° 44.90'							
		1822	MR	BOT		75	48° 15.14'	123° 45.05'	400	5m	18-19 (web)	2			18 = 5m 19 = 0m
		1827	BE	NET		76	48° 15.19'	123° 45.01'	400						Calm, sunny
		1841	BO				48° 15.27'	123° 44.92'		390					Filtered 300m/s = 5m
		1851	EN				48° 15.30'	123° 44.89'							240m/s = 0m

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File 2015-22-00118 S. 40 hex

File 2015-22-00118 S. 40 hex

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Month				Year			Ship			Cruise ID						
April				2015			Salacia			2015-22 Trip 3						
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	CPF1	749	BE	CTD		77	49° 22.01'	124° 04.98'	245				GC	✓	Partially. some cast	
		757	BO				40° 21.99'	124° 04.50'		235						
		802	EN				40° 22.99'	124° 04.82'								
		808	BE			78	40° 22.00'	124° 04.91'								
		818	BO				40° 21.98'	124° 04.77'		235						
		820	BO				40° 21.96'	124° 04.71'								
21	BS-11	1104	BE	CTD		79	49° 29.04'	124° 46.12'	57					✓	Cloudy. NW winds	
		1103	BO				49° 29.01'	124° 46.12'		47					10-15 knts	
		1109	EN				49° 29.00'	124° 46.12'							BS 30m - 20m	
		1112	BE			80	49° 28.99'	124° 46.12'		42					on 30m. Suspended	
		1113	BO				49° 28.98'	124° 46.12'							up to 30m. until water	
		1114	BO				49° 28.99'	124° 46.12'							comes down.	
	End of Day. Sub to Storm. Now - Head for Foul's cove.															
22	CPF2	747	BE	CTD		81	49° 28.04'	124° 29.87'	325					✓		
		757	BO				49° 28.05'	124° 29.99'		315	20*	1	leaky sight		Salinity. Forget to	
		807	EN				49° 28.02'	124° 29.50'							send messenger down	
															Stopped 306m + send	
															messenger.	

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File 2015-22-0077_CPF1.hex

File 2015-22-0079_CPF1.hex

File 2015-22-0081_CPF2.hex

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Month				Year				Ship				Cruise ID			
April				2015				Salvia				2015-22			
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							
22	CPF2	814	BE	NET		82	49° 27.96'	124° 30.08'	325						Clear, sunny, 1m
		828	BO				49° 27.90'	124° 29.91'		315					small SW 10-15m
		833(?)	EN				49° 27.91'	124° 29.85'							Lots of phyto in sample
22	11	1024	BE	CTD		83	49° 42.40'	124° 43.44'	290					✓	
		1030	BO				49° 42.41'	124° 43.26'		283					
		1036	EN				49° 42.43'	124° 43.18'							
		1042	MR	BOT		84	49° 42.36'	124° 43.33'	290	5	*21, 22 (at 5m)	2			21 = 5m Filtered Conts 22 = 0m
		1047	BE	NET		85	49° 42.44'	124° 43.57'	290						
		1100	BO				49° 42.44'	124° 43.20'		280					
		1127	EN				49° 42.45'	124° 43.15'							
22	22	1318	BE	CTD		86	49° 40.12'	124° 16.19'	353					✓	
		1325	BO				49° 40.05'	124° 16.15'		343	*23	1			Deepwater salinity
		1334	EN				49° 39.94'	124° 16.11'							
		1340	BE	NET		87	49° 40.22'	124° 16.32'	353						
		1355	BO				49° 40.08'	124° 16.29'		343					
		1403	EN				49° 40.30'	124° 16.26'							

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File: 2015-22-0083-11 .hex

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Month April		Year 2015		Ship Salacia		Cruise ID 2015-22									
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							
22	24	1510	BE	CTD		88	49° 30.23'	124° 05.96'	425						
		1517	BO				49° 30.17'	124° 05.95'		415					
		1527	EN				49° 30.11'	124° 05.93'							
		1529	BE	NET		89	49° 30.08'	124° 05.93'	425						
		1543	BO				49° 30.02'	124° 05.92'		415					
		1553	EN				49° 30.02'	124° 05.93'							
22	28	1755	BE	CTD		90	49° 24.12'	123° 45.28'	135						
		1758	BO				49° 24.15'	123° 45.30'		125					
		1800	EN				49° 24.16'	123° 45.32'							
		1803	BE	NET		91	49° 24.25'	123° 45.32'	135						
		1808	BO				49° 24.28'	123° 45.37'		125					
		1811	EN				49° 24.29'	123° 45.41'							
22	Halibut Buoy	1847	MR	Bot		92	49° 20.92'	123° 43.69'	48.6	5	24-25 (atb)	2			24-5m Filtered 60m 25-0m
	Finished for day heading for Nanaimo harbour.														
23	Weather day transitioning to Montague Harbour.														

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Month <u>April</u>				Year <u>2015</u>			Ship <u>Solomon</u>			Cruise ID <u>2015-22</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							
24	46	720	BE	CTD		93	48° 51.46'	123° 10.76'	179				GC	—	Cloudy with some periods
		724	UN				48° 51.48'	123° 10.77'		169					
		727	UN				48° 51.51'	123° 10.76'							
		733	CB	NET		94	48° 51.46'	123° 10.81'	179						947
		740	BO				48° 51.49'	123° 10.85'		169					
		745	EN				48° 51.58'	123° 10.86'							
		924	BE	CTD		95	48° 32.84'	123° 14.58'	225				GC	—	overcast
		928	UN				48° 32.85'	123° 14.56'		215					
		933	UN				48° 32.84'	123° 14.53'							
		935	UN	NET		96	48° 32.85'	123° 14.53'	225						95559
		940	UN				48° 32.85'	123° 14.51'		215					95559
		949	UN				48° 32.86'	123° 14.51'							95559
24	46	1049	BE	CTD		97	48° 45.95'	123° 20.42'	69				GC	—	overcast + snow
		1050	BO				48° 45.94'	123° 20.43'		59					9722
		1051	BO				48° 45.94'	123° 20.43'							
		1054	BE	NET		98	48° 45.94'	123° 20.43'	69						9722
		1056	BO				48° 45.94'	123° 20.42'		59					9722
		1059	UN				48° 45.94'	123° 20.43'							9722

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file 2015-22-0093-59. lex

file 2015-22-0097-6101. lex

