

DAILY SCIENCE LOG BOOK

MISSION
NUMBER

2015-22

book 2

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

Captain: John Hunt First Officer: Piper Harris

Second Officer: _____ Third Officer: _____

Fishing Master: _____ Chief Engineer: _____

Mission Participants / Agencies:

**** Chief Scientist to complete section below OR cut and tape from cruise plan ****

1st Leg Scientific Personnel: _____

Chief Scientist: _____

Name	Watch	Cabin
Trip 4: 4-8 May		
Glenn Cooper		
Piper Harris		
John Plant		
Trip 5: 20-24 May		
Belton, Mark		
Piper		
John		

2nd Leg Scientific Personnel: _____ **Chief Scientist:** _____

[illegible]

**** The following 3 pages are VERY IMPORTANT as they document equipment and settings used on board ****

These pages are to be completed by the CTD Technician setting up the equipment, the Watch Leader on board, and the Chief Scientist MUST verify that all relevant sections are completed prior to leaving the vessel. *Any mid-cruise changes to be noted by watch leader in the notes.*

Data logging computer: Notebook #13

Data acquisition program: Seasave

CTD deck unit make: N/A model: serial number:

Primary CTD

Make: SBE model: 25 serial number: 0456

Primary temperature serial number: 5130

Primary conductivity serial number: 3500

Secondary temperature serial number: _____

Secondary conductivity serial number: _____

Transmissometer: Model: serial number: _____

Transmissometer: Model: serial number: _____

Fluorometer: Model ECO (wetlab) Cable gain: 13 s/n: 2214 P, S or NO pump?

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

Oxygen sensor: SBE Model: 43 s/n: 1592 P, S or NO pump?

PAR sensor: Model: s/n: Surface PAR? Y / N

Other sensors: Pressure, SBE 29 s/n: 0668 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: Model: s/n: _____

Transmissometer: Model: s/n: _____

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

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

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

PAR sensor: Model: s/n: Surface PAR? Y / 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): _____

This also includes the bottle location above the CTD on non-roselle casts (e.g., W.E. Ricker)

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Page 6 of

Month <u>May</u>			Year <u>2015</u>			Vessel <u>Salmon</u>			Cruise ID <u>2015-22</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
29-128	GI-01	8	8:11	BE	CTD		48° 45.78	123° 20.57	67		-		GC	☒ ☐	
			8:12	BO			48° 45.77	123° 20.57		57	-			☐ ☐	
			8:13	EN			48° 45.77	123° 20.56			-			☐ ☐	
129	GI-01	8	8:15	BE	NET		48° 45.77	123° 20.56			-			☐ ☐	
			8:17	BO			48° 45.76	123° 20.55			-			☐ ☐	
			8:18	EN			48° 45.76	123° 20.55			-			☐ ☐	
30-130	SC-04	8	8:54	BE	CTD		48° 43.57	123° 24.97	100		-		GC	☒ ☐	
			8:56	BO			48° 43.57	123° 24.94		90	-			☐ ☐	
			8:58	EN			48° 43.58	123° 24.91			-			☐ ☐	
131	SC-04	8	9:04	EN	ROT	MR	48° 43.50	123° 24.92	100	5	37-38	2		☐ ☐	37-38 5m 2 filtered 60mb
132	SC-04	8	9:08	BE	NET		48° 43.54	123° 24.95	86		-			☐ ☐	
			9:13	BO			48° 43.55	123° 24.86		76	-			☐ ☐	
			9:15	EN			48° 43.56	123° 24.84			-			☐ ☐	
✓ 133	59	20	^{Local} 10:44	BE	CTD		48° 37.57	123° 14.39	234		-		MB	☐ ☒	
			10:48	BO			48° 37.31	123° 14.27		217	-			☐ ☐	
			10:57	EN			48° 37.14	123° 14.20			-			☐ ☐	
134	59	20	11:03	BE	NET		48° 37.87	123° 14.58	235		-		MB	☐ ☐	
			11:12	BO			48° 37.50	123° 14.37		217	-			☐ ☐	
			11:17	EN			48° 37.31	123° 14.30			-			☐ ☐	

Event Type:

BOT = Bottle cast (no CTD)
 CTD = Standalone CTD
 ROS = CTD in Rosette
 SET = Fish Set

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

Bottle Firing Method:

US = Up / Stop (default)
 UN = Up / No stop
 DN = Down / No stop

Time Code:

BE = Beginning Time of Cast
 BO = Bottom Time of Cast
 EN = End Time of Cast

CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

DE = Deployment Time
 MR = Messenger Release Time
 RE = Recover Mooring Time

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Notes:

This page is for any notes or observations

File 2015-22-0128.hex

File 2015-22-0130.hex

File 2015-22-133.hex

DAILY SCIENCE LOG

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Page 7 of

Month <u>MAY</u>			Year <u>2015</u>		Vessel <u>Seibei</u>		Cruise ID <u>2015-22</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
✓ 135	46	20	13:21 ^{Loc 46}	BC	CTD	-	48° 51.38'	123° 10.79'	178		-	-	MB	☒	
			13:25	BO			48° 51.36'	123° 10.73'		1168	-			☐	
			13:28	EN			48° 51.34'	123° 10.68'			-			☐	
136	46	20	13:29	BC	CTD	-	48° 51.33'	123° 10.65'	176		-	-		☐	
			13:35	BO			48° 51.33'	123° 10.56'		1166	-			☐	
			13:38	EN			48° 51.32'	123° 10.51'			-			☐	
✓ 137	41	20	15:03	BC	CTD	MR	49° 03.78'	123° 22.30'	245		39	1	MB	☒	Salinity A+B Sol bottle in above CTD.
			15:09	BO			49° 03.28'	123° 22.34'		235	-			☐	
			15:14	EN			49° 03.32'	123° 22.59'			-			☐	
138	41	20	15:25	BO	BOT	MR	49° 03.32'	123° 22.58'			40 - 41			☐	40-5m 60mL A+B 41-0m 60mL
139	41	20	15:32	BC	NET	-	49° 03.29'	123° 22.39'	245		-			☐	
			15:40	BO			49° 03.30'	123° 22.50'		235	-			☐	
			15:45	EN			49° 03.34'	123° 22.55'			-			☐	
✓ 140	38	20	16:42	BC	CTD	MR	49° 12.09'	123° 26.28'	300		42	1	MB	☒	Salinity A+B Sol bottle in above CTD.
			16:47	BO			49° 12.16'	123° 26.22'		290	-			☐	
			16:56	EN			49° 12.25'	123° 26.13'			-			☐	
141	38	20	17:01	BC	NET	-	49° 12.06'	123° 26.33'	300		-			☐	WATCH SPRING ON WAY UP
			17:12	BO			49° 12.17'	123° 26.73'		290	-			☐	
			17:19	EN			49° 12.27'	123° 26.18'			-			☐	

Event Type:

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Bottle Firing Method:

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Notes:

Time Code:

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File name: 2015-22_137.hev

File name: 2015-22_140.hev

DAILY SCIENCE LOG

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Page 8 of

Month <u>MAY</u>			Year <u>2015</u>		Vessel <u>Salvador</u>		Cruise ID <u>2015-22</u>								
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
142	40	20	18:15	BE	CTD	-	49° 08.63	123° 36.77	144		-	-	MR	☐ ☒	
			18:18	BO			49° 08.66	123° 36.74		134	-			☐ ☐	
			18:20	EN			49° 08.70	123° 36.71			-			☐ ☐	
143	40	20	18:21	BE	NET	-	49° 08.75	123° 36.76	160		-	-		☐ ☐	Drifting 21st in current moving through river water
			18:27	BO			49° 08.82	123° 36.76		150	-			☐ ☐	
			18:30	EN			49° 08.87	123° 36.73			-			☐ ☐	
144	1/2 BOT B	21	07:12	BO	BOT	MR	49° 20.38	123° 45.87	427	5	43-44	2		☐ ☐	43-5m 44-6m A+B
145	28	21	07:50	BE		-	49° 20.12	123° 45.87	136		-			☐ ☒	
			07:52	EN			49° 20.12	123° 45.87			-			☐ ☐	
			07:54	EN			49° 20.13	123° 45.87			-			☐ ☐	
146	28	21	07:56	BE	NET	-	49° 20.13	123° 45.87	136		-			☐ ☐	
			08:02	BO			49° 20.14	123° 45.87		126	-			☐ ☐	
			08:04	EN			49° 20.14	123° 45.87			-			☐ ☐	
147	24	21	09:34	BE	CTD	-	49° 30.29	124° 5.96	425		-	-		☐ ☒	
			09:42	BO			49° 30.24	124° 5.94		415	-			☐ ☐	
			09:51	EN			49° 30.20	124° 5.92			-			☐ ☐	
148	24	21	09:56	BE	NET	-	49° 30.34	124° 6.03	425		-	-		☐ ☐	
			10:07	BO			49° 30.29	124° 6.01		415	-			☐ ☐	
			10:15	EN			49° 30.25	124° 6.00			-			☐ ☐	

Event Type:

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 DRF = Drifter

Bottle Firing Method:

US = Up / Stop (default)
 UN = Up / No stop
 DN = Down / No stop

Notes:

Time Code:

BE = Beginning Time of Cast
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CTD Transmissometer and Fluorometer to be cleaned before each cast -- do not use Ammonia products

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File name: 2015-22 - 142. hex

File name: 2015-22 - 145. hex

File name: 2015-22 - 147. hex

DAILY SCIENCE LOG

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Page 9 of

Month <u>MAY</u>			Year <u>2015</u>			Vessel <u>S21202</u>			Cruise ID <u>2015-27</u>						
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Latitude	Information Longitude	Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
149	22	21	^{LOCAL} 11:33	BE	CTD	MG	49° 40.17	124° 16.37	353		-		MB	☒	SALINITY A+B
			11:40	BO			49° 40.10	124° 16.30		343	45-	1		☐	STARTING CONTAINING UP BEFORE ASSEMBLY WENT BACK DOWN TO DEPTH
			11:50	EN			49° 40.11	124° 16.27			-			☐	
150	22	21	11:55	BE	NET	-	49° 40.18	124° 16.31	353		-	-		☐	
			12:06	BO			49° 40.09	124° 16.29		343	-			☐	
			12:13	EN			49° 40.04	124° 16.27			-			☐	
151	11	21	14:43	BE	CTD		49° 42.39	124° 43.38	290		-			☒	
			14:48	BO			49° 42.35	124° 43.37		280	-			☐	
			14:54	EN			49° 42.30	124° 43.36			-			☐	
152	11	21	14:58	BO	BOT	MG	49° 42.26	124° 43.33	290	5	46-47	7		☐	46-5m A+B 120mLS EACH
153	11	21	15:01	BE	NET		49° 42.23	124° 43.31	290		-			☐	Brought up mud on CTD, recast & drop
			15:11	BO			49° 42.17	124° 43.30		280	-			☐	Did not sample.
			15:17	EN			49° 42.15	124° 43.31			-			☐	
154	11	21	15:33	BE	NET		49° 42.37	124° 43.36	290		-			☐	RECAST @ 5m
			16:07	BO			49° 42.32	124° 43.38		270	-			☐	
			16:12	EN			49° 42.30	124° 43.40			-			☐	
155	BS11	22	09:55	BE	CTD	-	49° 29.02	124° 46.05	60		-	-		☒	
			09:56	BO			49° 29.01	124° 46.05		50	-			☐	
			09:57	EN			49° 29.00	124° 46.05			-			☐	

Event Type:

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Bottle Firing Method:

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Notes:

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Filename: 2015-22-149.hex

Filename: 2015-22-151.hex

Filename: 2015-22-155.hex

DAILY SCIENCE LOG

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Page 10 of

Month <u>MAY</u>				Year <u>2015</u>		Vessel <u>Salacia</u>		Cruise ID <u>2015-22</u>							
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Firing Method	Positional Information		Bottom Depth	Max Pressure	Sample Serial Numbers	# of Bottles	Watch Keepers	Trns/FI Cleaned	Comments
							Latitude	Longitude							
156	BS11	22	09:58	BE	NET	-	49° 29.00	124° 46.05	60		-	-		☐	
			10:00	BO			49° 28.99	124° 46.05		50	-			☐	
			10:01	EN			49° 28.99	124° 46.04			-			☐	
157	CPF2	22	11:12	BE	CTD	MG	49° 27.98	124° 30.00	325		-			☐	File name: 2015-22-157
			11:18	BO			49° 27.90	124° 29.95		315	48-	1		☐	Salacia A+B
			11:28	EN			49° 28.90	124° 30.95			-			☐	
158	CPF2	22	11:33	BE	NET		49° 28.02	124° 30.02	325		-			☐	
			11:44	BO			49° 27.98	124° 29.94		315	-			☐	
			11:52	EN			49° 28.98	124° 30.94			-			☐	
159	CPF1	22	13:37	BE	CTD		49° 21.98	124° 05.08	245		-			☐	File name: 2015-22-159
			13:42	BO			49° 21.96	124° 5.04		235	-			☐	
			13:46	EN			49° 21.95	124° 5.07			-			☐	
160	CPF1	22	13:47	BE	NET		49° 21.95	124° 5.08	25		-			☐	
			13:56	BO			49° 21.91	124° 5.08		255	-			☐	NET WENT TO ZST got mud
			14:01	EN			49° 21.88	124° 5.09			-			☐	RECOST
161	CPF1	22	14:07	BE	NET		49° 21.95	124° 05.18	245		-			☐	RECAST @ CPF1
			14:16	BO			49° 21.90	124° 05.17		235	-			☐	
			14:21	EN			49° 21.88	124° 05.18			-			☐	
			:				.	.			-			☐	

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Time Code:

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Notes:

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MONTH	MAY	YEAR	2015	VESSEL	SALACIA	CRUISE	ID 2015-22	This page is for any notes or observations							
EVENT #	STN	DAY	TIME	TIME CODE	EVENT TYPE	FIRM - POND	LATITUDE	LONGITUDE	DEPTH	WAVE	SAMPLE SERIAL #S	# OF BOTTLES	WATCH	Notes	Comments
162	GE01	22	15 57	BE	CTD	MG	49 15 11	123 45 05	400		419	1	MB	✓	Salinity A+B Filename: 2015-22_162.hv
			16 05	BO			49 15 16	123 45 08		390					
			16 16	EN			49 15 26	123 45 12							
163	GE01	22		BO	BOT	MG	49 14 98	123 45 08	400	5	50-51	2			50-5m A+B } 20mLs 51-0m
164	GE01	22	15 22	BE	NET		49 15 01	123 45 09	400						
			15 41	BO			49 15 11	123 45 17		390					
			16 19	EN			49 15 18	123 45 23							
165	GI-01	23	10 44	BE	CTD		48 45 78	123 20 53	660					✓	Filename: 2015-22_165.hv
			10 45	BO			48 45 78	123 20 53		56					
			10 46	EN			48 45 77	123 20 52							
166	GI-01	23	10 50	BE	NET		48 45 79	123 20 53	660						
			10 52	BO			48 45 77	123 20 52		56					
			10 53	EN			48 45 76	123 20 52							
167	SC-04	23	11 35	BE	CTD		48 43 53	123 25 98	95					✓	Filename: 2015-22_167.hv
			11 37	BO			48 43 53	123 25 97	85						
			11 38	EN			48 43 53	123 25 97							
168	SC-04	23	11 41	BO	BOT	MG	48 43 59	123 25 96	95	5	52-53	2			52-5m A+B } 60mLs 53-0m 5
169	SC-04	23	11 44	BE	NET		48 43 55	123 25 94	92						
			11 47	BO			48 43 55	123 25 92	82						
			11 48	EN			48 43 59	123 25 91							