

DAILY SCIENCE LOG BOOK

Version FEB2023

Water Properties Group
Fisheries and Oceans Canada
Institute of Ocean Sciences
Ocean Sciences Division
Norh Saanich, BC, Canada
www.waterproperties.ca

Launch Daily Science
Log Userform

Print Daily Science Log
WorkBook



Cruise Number	2023-023
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Start Date	22-Jul-23
End Date	26-Jul-23

Vessel	Neocaligus
Project(s)	SoG Plankton

Mission Participants (Department/Agencies):	DFO
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Ship Personnel:

Name	Role
Dennis Roberts	Captain
Dave	Chief Engineer
Catherine	Bosun
Colin	Steward/Cook

Scientific Personnel:

Name	Role	Watch	Cabin	Name	Role	Watch	Cabin
Kelly Young	Chief Scientist	not on board					
Mark Belton	on-board lead						
Meghan Molr	co-op, assist Mark						

Scientific Equipment:

CTD

	Primary						Secondary					
Equipment	Make	Model	Serial Number	Pump (P, S or No)	Depth Rating (m)	Comment	Make	Model	Serial Number	Pump (P, S or No)	Depth Rating (m)	Comment
Data Logging Computer	acer											
Data Acquisition Program	SBE	SeaTermV2										
CTD Deck Unit	na											
CTD	SBE	25p	1255		1000							
Temperature Sensor	SBE	03F	6448	P	6800							
Conductivity Sensor	SBE	4C	6147	P	6800							
Transmissometer												
Fluorometer	Wetlabs	Eco	8046			ScaleFactor>1.30000000e+001						
Fluorometer Gain Cable												
Oxygen Sensor	SBE	43	4378	P								
Par Sensor	PAR-LOG ICSV	Satlantic	2274									
Additional Sensors...												

Rosette

Setup

Number of Bottles	
Manufacturer	
Volume of Bottles (L)	

Bottles Serial Numbers

1		9		17		25	
2		10		18		26	
3		11		19		27	
4		12		20		28	
5		13		21		29	
6		14		22		30	
7		15		23		31	
8		16		24		32	

Salinometer

Make	Model	Serial Number	Comments on Performance During Cruise

ADCP

		User Exits	
		Name	Exit Points
Computer Time Zone			
Sampling Interval (sec)			
Bin Length: (2^x)			
Pulse Length			
Buffer (bytes)			
Gyro Offset			
Work File			

Thermosalinograph System

Make	Model	Serial/kit Number	Program	Version	Comments on Performance During Cruise

Oxygen kit

Make	Model	Serial/kit Number	Comments on Performance During Cruise
N/A			

Winches

	Make	Model	Serial Number	Comment (Describe Application and Performance)
Winch 1				
Winch 2				
Winch 3				
Winch 4				

CTD Test Cast Information

	CTD Pressure Reading on Deck		Pumps Working (Y = 0011/N = 0010)	2 ° Temp - 1° Temp (Avg. from mixed layer)	2 ° Sal - 1° Sal (Avg. from mixed layer)	Additional Comments
Cast Location	Before Cast	After Cast				

Acoustics

			Frequencies (kHz) - Check Applicable						Comments on Performance During Cruise
Make	Model	Software	12	18	38	70	120	200	

Other Scientific Equipment Used Throughout this Cruise

Additional Equipment Comments During Cruise

250um, 60cm 'spectacles' bongos

LabStaf FLC

NET	TSK	RBR
"Spectacles 1"	7129	79110
"Old Scor"	4794	79108
"Spectacles 2"	5300	none

Additional Cruise Comments

Pictures (Equipment, Setups etc.)

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2023-023
Vessel: Neocaligus

Launch Daily
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Vessel: Neocaligus															CTD/Rosette Status			Institute of Ocean Sciences	
Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer ("dd-mm-yyyy hh:mm:ss")	Date Time (UTC) GPS ("dd-mm-yyyy hh:mm:ss")	Positional Information (DDD MM.MMM)		Sounder Depth (m)	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	Trans. Cleaned	Fluorometer Cleaned	PAR Status	Comments	
							Latitude	Longitude			Start	End							
1	GEO1	CTD/BOT	MR	BE	22-07-2023 21:08:50	22-07-2023 21:08:44	49 15.02 N	123 45.282 W	404	0	1	1	1	Mark Belton	NA	yes	on	think missing digits in long header	
1	GEO1	CTD/BOT		BO	22-07-2023 21:16:51	22-07-2023 21:16:47	49 15.032 N	123 45.295 W		394				Mark Belton					
1	GEO1	CTD/BOT		EN	22-07-2023 21:30:18	22-07-2023 21:30:16	49 14.927 N	123 45.456 W	404	394				Mark Belton				late getting EN time	
2	GEO1	NET		BE	22-07-2023 21:31:06	22-07-2023 21:31:02	49 14.931 N	123 45.456 W	404	100				Mark Belton	NA	NA			
2	GEO1	NET		BO	22-07-2023 21:34:18	22-07-2023 21:34:13	49 14.937 N	123 45.464 W		100				Mark Belton					
2	GEO1	NET		EN	22-07-2023 21:43:19	22-07-2023 21:43:13	49 14.972 N	123 45.668 W		100				Mark Belton					
3	GEO1 chitc	CTD/BOT	N/A	BE	22-07-2023 22:01:29	22-07-2023 22:01:24	49 14.999 N	123 45.377 W	406	358				Mark Belton	NA	yes	on		
3	GEO1 chitc	CTD/BOT	N/A	BO	22-07-2023 22:17:58	22-07-2023 22:17:56	49 14.991 N	123 45.337 W		358				Mark Belton					
3	GEO1 chitc	CTD/BOT	N/A	MR	22-07-2023 22:18:01	22-07-2023 22:17:56	49 14.991 N	123 45.337 W		350	2	8	7	Mark Belton				chito sampling	
3	GEO1 chitc	CTD/BOT	N/A	EN	22-07-2023 22:31:52	22-07-2023 22:31:49	49 15.038 N	123 45.475 W		358				Mark Belton					
4	GEO1	NET		BE	22-07-2023 22:37:30	22-07-2023 22:37:26	49 15 N	123 45.395 W	404	394				Mark Belton	NA	NA			
4	GEO1	NET		BO	22-07-2023 22:49:45	22-07-2023 22:49:43	49 15.007 N	123 45.48 W		394				Mark Belton					
4	GEO1	NET		EN	22-07-2023 22:56:54	22-07-2023 22:56:50	49 15.009 N	123 45.52 W		394				Mark Belton					
5	3	CTD/BOT	N/A	BE	23-07-2023 01:43:23	23-07-2023 01:43:21	49 26.595 N	124 20.252 W	325	0	9	9	1	Mark Belton	NA	yes	on		
5	3	CTD/BOT	N/A	BO	23-07-2023 01:49:23	23-07-2023 01:49:21	49 26.583 N	124 20.301 W	325	315				Mark Belton					
5	3	CTD/BOT	N/A	EN	23-07-2023 01:55:37	23-07-2023 01:55:33	49 26.562 N	124 20.3 W		315				Mark Belton					
6	6	CTD/BOT	N/A	BE	23-07-2023 14:52:35	23-07-2023 14:52:29	49 30.562 N	124 27.766 W	192	0	10	10	1	Mark Belton	NA	yes	on		
6	6	CTD/BOT	N/A	BO	23-07-2023 14:56:03	23-07-2023 14:56:00	49 30.552 N	124 27.736 W		182				Mark Belton					
6	6	CTD/BOT	N/A	EN	23-07-2023 15:00:17	23-07-2023 15:00:11	49 30.53 N	124 27.735 W		182				Mark Belton					
7	CPF2	CTD		BE	23-07-2023 15:24:47	23-07-2023 15:24:42	49 27.971 N	124 30.002 W	328	318				Meghan Molnar	NA	yes			
7	CPF2	CTD		BO	23-07-2023 15:30:55	23-07-2023 15:30:51	49 27.956 N	124 29.967 W		318				Meghan Molnar					
7	CPF2	CTD		EN	23-07-2023 15:37:01	23-07-2023 15:36:57	49 27.98 N	124 30.03 W		318				Meghan Molnar					
8	CPF2	NET		BE	23-07-2023 15:39:55	23-07-2023 15:39:52	49 27.985 N	124 29.992 W	329	319				Meghan Molnar	NA	NA			
8	CPF2	NET		BO	23-07-2023 15:50:42	23-07-2023 15:50:39	49 27.947 N	124 29.991 W		319				Meghan Molnar					
8	CPF2	NET		EN	23-07-2023 15:56:47	23-07-2023 15:56:43	49 27.974 N	124 29.973 W		319				Meghan Molnar					
9	CPF2	NET		BE	23-07-2023 16:02:29	23-07-2023 16:02:25	49 27.946 N	124 29.983 W	330	320				Mark Belton	NA	NA			
9	CPF2	NET		BO	23-07-2023 16:12:29	23-07-2023 16:12:27	49 27.955 N	124 29.929 W		320				Mark Belton					
9	CPF2	NET		EN	23-07-2023 16:18:52	23-07-2023 16:18:49	49 27.925 N	124 29.981 W		320				Mark Belton					
10	BS-11	CTD/BOT	N/A	BE	23-07-2023 17:34:22	23-07-2023 17:34:16	49 28.982 N	124 45.937 W	61	0	11	11	1	Mark Belton	NA	yes	on		

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							Latitude	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
10	BS-11	CTD/BOT	N/A	BO	23-07-2023 17:35:22	23-07-2023 17:35:16	49 28.978 N	124 45.928 W		51				Mark Belton				
10	BS-11	CTD/BOT	N/A	EN	23-07-2023 17:36:27	23-07-2023 17:36:21	49 28.976 N	124 45.924 W		51				Mark Belton				
11	BS-11	NET		BE	23-07-2023 17:39:20	23-07-2023 17:39:15	49 28.97 N	124 45.915 W	61	51				Meghan Molnar	NA	NA		
11	BS-11	NET		BO	23-07-2023 17:40:45	23-07-2023 17:40:40	49 28.98 N	124 45.925 W		51				Meghan Molnar				
11	BS-11	NET		EN	23-07-2023 17:42:16	23-07-2023 17:42:10	49 28.999 N	124 45.926 W		51				Meghan Molnar				
12	9	CTD/BOT	N/A	BE	23-07-2023 19:16:25	23-07-2023 19:16:20	49 35.463 N	124 38.31 W	168	0	12	12	1	Meghan Molnar	NA	yes	on	
12	9	CTD/BOT	N/A	BO	23-07-2023 19:19:38	23-07-2023 19:19:35	49 35.446 N	124 38.302 W	168	158				Meghan Molnar				
12	9	CTD/BOT	N/A	EN	23-07-2023 19:22:44	23-07-2023 19:22:38	49 35.445 N	124 38.305 W		158				Meghan Molnar				
																		did soak @ 10m then continued down instead of restarting from 0m
13	11	CTD		BE	23-07-2023 20:16:22	23-07-2023 20:16:20	49 42.4 N	124 43.453 W	301	291				Meghan Molnar	NA	yes		
13	11	CTD		BO	23-07-2023 20:21:30	23-07-2023 20:21:28	49 42.401 N	124 43.534 W		291				Meghan Molnar				
13	11	CTD		EN	23-07-2023 20:26:55	23-07-2023 20:26:53	49 42.419 N	124 43.553 W		291				Meghan Molnar				
14	11	NET		BE	23-07-2023 20:29:01	23-07-2023 20:28:56	49 42.398 N	124 43.527 W	300	290				Meghan Molnar	NA			
14	11	NET		BO	23-07-2023 20:38:49	23-07-2023 20:38:46	49 42.41 N	124 43.63 W	300	290				Meghan Molnar				
14	11	NET		EN	23-07-2023 20:44:38	23-07-2023 20:44:33	49 42.45 N	124 43.591 W		290				Meghan Molnar				
15	11	NET		BE	23-07-2023 20:51:33	23-07-2023 20:51:30	49 42.432 N	124 43.476 W	301	291				Meghan Molnar	NA			
15	11	NET		BO	23-07-2023 21:00:36	23-07-2023 21:00:32	49 42.44 N	124 43.604 W		291				Meghan Molnar				
15	11	NET		EN	23-07-2023 21:05:28	23-07-2023 21:05:25	49 42.448 N	124 43.648 W		291				Meghan Molnar				
16	12	CTD/BOT	N/A	BE	23-07-2023 21:29:32	23-07-2023 21:29:26	49 43.561 N	124 40.834 W	355	0	13	13	1	Meghan Molnar	NA	yes	on	
16	12	CTD/BOT	N/A	BO	23-07-2023 21:35:38	23-07-2023 21:35:35	49 43.571 N	124 40.881 W		345				Meghan Molnar				
16	12	CTD/BOT	N/A	EN	23-07-2023 21:41:17	23-07-2023 21:41:13	49 43.563 N	124 40.87 W		345				Meghan Molnar				
17	12	NET		BE	23-07-2023 21:43:23	23-07-2023 21:43:17	49 43.56 N	124 40.88 W	355	100				Meghan Molnar	NA			
17	12	NET		BO	23-07-2023 21:46:52	23-07-2023 21:46:48	49 43.544 N	124 40.924 W		100				Meghan Molnar				
17	12	NET		EN	23-07-2023 21:48:31	23-07-2023 21:48:27	49 43.55 N	124 40.952 W		100				Meghan Molnar				
18	12	CTD/BOT	N/A	BE	23-07-2023 21:57:16	23-07-2023 21:57:10	49 43.592 N	124 40.794 W	355	308				Mark Belton	NA	no	on	
18	12	CTD/BOT	N/A	BO	23-07-2023 22:09:57	23-07-2023 22:09:51	49 43.605 N	124 40.835 W		308				Mark Belton				
18	12	CTD/BOT	N/A	MR	23-07-2023 22:10:00	23-07-2023 22:09:55	49 43.605 N	124 40.835 W		300	14	20	7	Mark Belton				
18	12	CTD/BOT	N/A	EN	23-07-2023 22:21:26	23-07-2023 22:21:23	49 43.582 N	124 40.841 W		308				Mark Belton				
19	12	NET		BE	23-07-2023 22:23:51	23-07-2023 22:23:45	49 43.578 N	124 40.857 W	356	346				Mark Belton	NA	NA		
19	12	NET		BO	23-07-2023 22:37:25	23-07-2023 22:37:20	49 43.604 N	124 40.979 W		346				Mark Belton				

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							Latitude	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
19	12	NET		EN	23-07-2023 22:43:31	23-07-2023 22:43:25	49 43.605 N	124 41.012 W		346				Mark Belton				
20	20	CTD		BE	23-07-2023 23:55:38	23-07-2023 23:55:33	49 47.197 N	124 32.323 W	311	301				Meghan Molnar	NA	yes	on	
20	20	CTD		BO	24-07-2023 00:01:09	24-07-2023 00:01:06	49 47.207 N	124 32.38 W		301				Meghan Molnar				
																		light not on at end of cast? Turned instrument on and off at rail. Light came on. Does not appear to be data for this cast.
20	20	CTD		EN	24-07-2023 00:06:24	24-07-2023 00:06:21	49 47.233 N	124 32.421 W		301				Meghan Molnar				
21	22	CTD/BOT	N/A	BE	24-07-2023 01:38:55	24-07-2023 01:38:52	49 40.245 N	124 16.334 W	355	0	22	22	2	Mark Belton	NA	yes	on	
21	22	CTD/BOT	N/A	BO	24-07-2023 01:43:16	24-07-2023 01:43:14	49 40.278 N	124 16.358 W		345				Mark Belton				
21	22	CTD/BOT	N/A	MR	24-07-2023 01:43:19	24-07-2023 01:43:14	49 40.278 N	124 16.358 W		342	21	21	2	Mark Belton				
21	22	CTD/BOT	N/A	EN	24-07-2023 01:52:41	24-07-2023 01:52:39	49 40.29 N	124 16.336 W		345				Mark Belton				
22	22	NET		BE	24-07-2023 01:54:33	24-07-2023 01:54:28	49 40.265 N	124 16.31 W	357	347				Mark Belton	NA	NA		
22	22	NET		BO	24-07-2023 02:05:01	24-07-2023 02:04:56	49 40.241 N	124 16.316 W		347				Mark Belton				
22	22	NET		EN	24-07-2023 02:11:46	24-07-2023 02:11:41	49 40.235 N	124 16.356 W		347				Mark Belton				
23	22	NET		BE	24-07-2023 02:17:50	24-07-2023 02:17:46	49 40.259 N	124 16.336 W	357	347				Mark Belton	NA	NA		
23	22	NET		BO	24-07-2023 02:28:13	24-07-2023 02:28:07	49 40.278 N	124 16.393 W		347				Mark Belton				
23	22	NET		EN	24-07-2023 02:33:54	24-07-2023 02:33:50	49 40.292 N	124 16.423 W		347				Mark Belton				
24	IS-2	CTD		BE	24-07-2023 14:37:52	24-07-2023 14:37:48	49 38.201 N	124 4.995 W	29	19				Mark Belton	NA	yes		
24	IS-2	CTD		BO	24-07-2023 14:38:31	24-07-2023 14:38:25	49 38.198 N	124 4.996 W		19				Mark Belton				
24	IS-2	CTD		EN	24-07-2023 14:39:05	24-07-2023 14:39:02	49 38.194 N	124 4.996 W		19				Mark Belton				
25	IS-2	NET		BE	24-07-2023 14:40:43	24-07-2023 14:40:41	49 38.188 N	124 4.993 W	28.1	18				Meghan Molnar	NA	NA		
25	IS-2	NET		BO	24-07-2023 14:41:06	24-07-2023 14:41:02	49 38.187 N	124 4.992 W		18				Meghan Molnar				
25	IS-2	NET		EN	24-07-2023 14:41:39	24-07-2023 14:41:34	49 38.187 N	124 4.992 W		18				Meghan Molnar				
26	24	CTD		BE	24-07-2023 15:43:14	24-07-2023 15:43:11	49 30.309 N	124 6.015 W	428	418				Meghan Molnar	NA	yes		
26	24	CTD		BO	24-07-2023 15:50:16	24-07-2023 15:50:11	49 30.304 N	124 6.053 W		418				Meghan Molnar				
26	24	CTD		EN	24-07-2023 15:56:49	24-07-2023 15:56:46	49 30.367 N	124 6.141 W		418				Meghan Molnar				
27	24	NET		BE	24-07-2023 16:02:09	24-07-2023 16:02:05	49 30.276 N	124 6.088 W	438					Meghan Molnar	NA	NA		
27	24	NET		BO	24-07-2023 16:14:48	24-07-2023 16:14:44	49 30.31 N	124 6.189 W						Meghan Molnar				
27	24	NET		EN	24-07-2023 16:22:17	24-07-2023 16:22:14	49 30.309 N	124 6.229 W		428				Meghan Molnar				
28	2	CTD/BOT	N/A	BE	24-07-2023 17:16:52	24-07-2023 17:16:50	49 24.061 N	124 9.346 W	288	0	23	23	1	Meghan Molnar	NA	yes		
28	2	CTD/BOT	N/A	BO	24-07-2023 17:21:48	24-07-2023 17:21:44	49 24.076 N	124 9.438 W		278				Meghan Molnar				
28	2	CTD/BOT	N/A	EN	24-07-2023 17:26:15	24-07-2023 17:26:11	49 24.043 N	124 9.456 W		278				Meghan Molnar				sheet didn't stamp
29	CPF1	CTD		BE	24-07-2023 17:59:46	24-07-2023 17:59:41	49 21.972 N	124 4.991 W	241	231				Mark Belton	NA	yes	on	
29	CPF1	CTD		BO	24-07-2023 18:04:07	24-07-2023 18:04:02	49 22.016 N	124 5.06 W		231				Mark Belton				

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							Latitude	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
29	CPF1	CTD		EN	24-07-2023 18:08:18	24-07-2023 18:08:14	49 22.05 N	124 5.148 W		231				Mark Belton				
30	CPF1	NET		BE	24-07-2023 18:09:39	24-07-2023 18:09:37	49 22.053 N	124 5.164 W	249	239				Meghan Molnar	NA	NA		net cast aborted due to crappy weather
30	CPF1	NET		EN	24-07-2023 18:12:39	24-07-2023 18:12:35	49 22.073 N	124 5.211 W		239				Meghan Molnar				
31	28	CTD		BE	25-07-2023 15:40:54	25-07-2023 15:40:51	49 24.06 N	123 45.189 W	136	126				Meghan Molnar	NA	yes	on	
31	28	CTD		BO	25-07-2023 15:43:28	25-07-2023 15:43:23	49 24.076 N	123 45.241 W		126				Meghan Molnar				
31	28	CTD		EN	25-07-2023 15:45:57	25-07-2023 15:45:52	49 24.07 N	123 45.248 W		126				Meghan Molnar				
32	28	NET		BE	25-07-2023 15:46:52	25-07-2023 15:46:50	49 24.076 N	123 45.264 W	136					Meghan Molnar	NA			
32	28	NET		BO	25-07-2023 15:51:21	25-07-2023 15:51:17	49 24.075 N	123 45.288 W	136					Meghan Molnar				
32	28	NET		EN	25-07-2023 15:53:33	25-07-2023 15:53:29	49 24.092 N	123 45.327 W		126				Meghan Molnar				
33	27	CTD/BOT	N/A	BE	25-07-2023 16:51:24	25-07-2023 16:51:22	49 19.091 N	123 48.139 W	360	0	25	25	2	Meghan Molnar	NA	yes	on	bottom bottle 75 in from CTD
33	27	CTD/BOT	N/A	BO	25-07-2023 16:58:56	25-07-2023 16:58:51	49 19.136 N	123 48.148 W		350				Meghan Molnar				
33	27	CTD/BOT	N/A	MR	25-07-2023 16:58:59	25-07-2023 16:58:55	49 19.137 N	123 48.148 W		275	24	24	2	Meghan Molnar				
33	27	CTD/BOT	N/A	EN	25-07-2023 17:08:46	25-07-2023 17:08:44	49 19.215 N	123 48.144 W		350				Meghan Molnar				
34	40	CTD		BE	25-07-2023 18:49:17	25-07-2023 18:49:12	49 8.512 N	123 36.649 W	157	147				Mark Belton	NA	yes		
34	40	CTD		BO	25-07-2023 18:52:21	25-07-2023 18:52:18	49 8.561 N	123 36.695 W		147				Mark Belton				
34	40	CTD		EN	25-07-2023 18:54:59	25-07-2023 18:54:53	49 8.607 N	123 36.733 W		147				Mark Belton				
35	40	NET		BE	25-07-2023 18:56:47	25-07-2023 18:56:42	49 8.606 N	123 36.753 W	150	140				Meghan Molnar	NA			
35	40	NET		BO	25-07-2023 19:01:57	25-07-2023 19:01:53	49 8.641 N	123 36.802 W		140				Meghan Molnar				
35	40	NET		EN	25-07-2023 19:04:37	25-07-2023 19:04:33	49 8.664 N	123 36.818 W		140				Meghan Molnar				
36	40	NET		BE	25-07-2023 19:10:30	25-07-2023 19:10:27	49 8.715 N	123 36.844 W	151	141				Meghan Molnar	NA			
36	40	NET		BO	25-07-2023 19:15:46	25-07-2023 19:15:43	49 8.722 N	123 36.877 W		141				Meghan Molnar				
36	40	NET		EN	25-07-2023 19:18:32	25-07-2023 19:18:27	49 8.737 N	123 36.905 W		141				Meghan Molnar				
37	39	CTD/BOT	N/A	BE	25-07-2023 19:45:13	25-07-2023 19:45:08	49 9.757 N	123 32.986 W	380	0	26	26	1	Mark Belton	NA	yes	on	
37	39	CTD/BOT	N/A	BO	25-07-2023 19:52:25	25-07-2023 19:52:21	49 9.834 N	123 33.055 W		370				Mark Belton				
37	39	CTD/BOT	N/A	EN	25-07-2023 19:59:27	25-07-2023 19:59:24	49 9.855 N	123 33.151 W		370				Mark Belton				
38	38	CTD		BE	25-07-2023 20:35:20	25-07-2023 20:35:15	49 11.915 N	123 26.336 W	298	288				Meghan Molnar	NA	yes	on	
38	38	CTD		BO	25-07-2023 20:40:53	25-07-2023 20:40:48	49 11.949 N	123 26.351 W		288				Meghan Molnar				
38	38	CTD		EN	25-07-2023 20:45:46	25-07-2023 20:45:43	49 11.962 N	123 26.358 W		288				Meghan Molnar				
39	38	NET		BE	25-07-2023 20:47:10	25-07-2023 20:47:08	49 11.969 N	123 26.357 W	308	298				Meghan Molnar	NA			
39	38	NET		BO	25-07-2023 20:58:41	25-07-2023 20:58:37	49 11.982 N	123 26.374 W		298				Meghan Molnar				
39	38	NET		EN	25-07-2023 21:04:28	25-07-2023 21:04:25	49 12.001 N	123 26.385 W		298				Meghan Molnar				
40	108	CTD		BE	25-07-2023 22:16:47	25-07-2023 22:16:45	49 4.39 N	123 19.06 W	88	78				Mark Belton	NA	yes	on	
40	108	CTD		BO	25-07-2023 22:18:44	25-07-2023 22:18:41	49 4.402 N	123 19.068 W		78				Mark Belton				

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2023-023
Vessel: Neocaligus

Launch Daily
Science Log

Print Daily Science
Log WorkBook

Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer ("dd-mm-yyyy hh:mm:ss")	Date Time (UTC) GPS ("dd-mm-yyyy hh:mm:ss")	Positional Information (DDD MM.MMM)		Sounder Depth (m)	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	CTD/Rosette Status			Comments
							Latitude	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
40	108 CTD			EN	25-07-2023 22:20:33	25-07-2023 22:20:28	49 4.393 N	123 19.072 W		78				Mark Belton				
41	41 CTD			BE	25-07-2023 22:40:12	25-07-2023 22:40:07	49 3.234 N	123 22.072 W	227	217					NA	yes	on	
41	41 CTD			BO	25-07-2023 22:44:20	25-07-2023 22:44:15	49 3.238 N	123 22.063 W		217				Meghan Molnar				
41	41 CTD			EN	25-07-2023 22:48:20	25-07-2023 22:48:18	49 3.241 N	123 22.067 W		217				Meghan Molnar				
42	41 NET			BE	25-07-2023 22:50:56	25-07-2023 22:50:54	49 3.239 N	123 22.07 W	229	219				Meghan Molnar	NA	NA		
42	41 NET			BO	25-07-2023 22:59:42	25-07-2023 22:59:38	49 3.234 N	123 22.102 W		219				Meghan Molnar				
42	41 NET			EN	25-07-2023 23:05:36	25-07-2023 23:05:31	49 3.262 N	123 22.084 W		219				Meghan Molnar				
43	42 CTD/BOT	N/A	BE	25-07-2023 23:36:22	25-07-2023 23:36:20	49 1.738 N	123 26.172 W	321	0	27	27	1	Meghan Molnar	NA	yes	on		
43	42 CTD/BOT	N/A	BO	25-07-2023 23:42:55	25-07-2023 23:42:51	49 1.766 N	123 26.134 W		311					Meghan Molnar				
43	42 CTD/BOT	N/A	EN	25-07-2023 23:49:03	25-07-2023 23:48:57	49 1.785 N	123 26.114 W		311					Meghan Molnar				
44	42 NET			BE	25-07-2023 23:51:04	25-07-2023 23:51:01	49 1.8 N	123 26.106 W	320	100					NA	NA		
44	42 NET			BO	25-07-2023 23:54:17	25-07-2023 23:54:13	49 1.8 N	123 26.103 W		100				Mark Belton				
44	42 NET			EN	25-07-2023 23:56:56	25-07-2023 23:56:51	49 1.786 N	123 26.089 W		100				Mark Belton				
45	42 CTD/BOT	N/A	BE	26-07-2023 00:11:24	26-07-2023 00:11:21	49 1.746 N	123 26.184 W								NA	yes	on	chito sampling
45	42 CTD/BOT	N/A	BO	26-07-2023 00:21:40	26-07-2023 00:21:36	49 1.737 N	123 26.198 W	321	258					Mark Belton				
45	42 CTD/BOT	N/A	MR	26-07-2023 00:21:43	26-07-2023 00:21:40	49 1.737 N	123 26.198 W		250	28	33	6	Mark Belton					
45	42 CTD/BOT	N/A	EN	26-07-2023 00:32:18	26-07-2023 00:32:14	49 1.761 N	123 26.227 W							Mark Belton				
46	42 NET			BE	26-07-2023 00:33:16	26-07-2023 00:33:11	49 1.763 N	123 26.23 W	321	311				Mark Belton	NA	NA		
46	42 NET			BO	26-07-2023 00:43:59	26-07-2023 00:43:56	49 1.763 N	123 26.252 W		311				Mark Belton				
46	42 NET			EN	26-07-2023 00:50:14	26-07-2023 00:50:09	49 1.776 N	123 26.247 W		311				Mark Belton				
47	46 CTD/BOT	N/A	BE	26-07-2023 14:38:15	26-07-2023 14:38:10	48 51.479 N	123 10.787 W	176	0	34	34	1	Mark Belton	NA	yes	on		
47	46 CTD/BOT	N/A	BO	26-07-2023 14:42:03	26-07-2023 14:41:59	48 51.532 N	123 10.831 W		166					Mark Belton				
47	46 CTD/BOT	N/A	EN	26-07-2023 14:45:05	26-07-2023 14:45:02	48 51.499 N	123 10.832 W		166					Mark Belton				
48	46 NET			BE	26-07-2023 14:46:37	26-07-2023 14:46:34	48 51.478 N	123 10.847 W	172	162				Mark Belton	NA	NA		
48	46 NET			BO	26-07-2023 14:52:35	26-07-2023 14:52:31	48 51.46 N	123 10.841 W		162				Mark Belton				
48	46 NET			EN	26-07-2023 14:55:53	26-07-2023 14:55:47	48 51.464 N	123 10.835 W		162				Mark Belton				
49	56 CTD/BOT	N/A	BE	26-07-2023 15:58:59	26-07-2023 15:58:56	48 46.494 N	123 1.484 W	204	0	35	35	1	Mark Belton	NA	yes	on		
49	56 CTD/BOT	N/A	BO	26-07-2023 16:02:48	26-07-2023 16:02:44	48 46.506 N	123 1.385 W		194					Mark Belton				
49	56 CTD/BOT	N/A	EN	26-07-2023 16:06:09	26-07-2023 16:06:04	48 46.553 N	123 1.393 W		194					Mark Belton				
50	59 CTD/BOT	N/A	BE	26-07-2023 17:50:07	26-07-2023 17:50:04	48 36.97 N	123 14.949 W	237	0	36	36	1	Meghan Molnar	NA	yes	on		
50	59 CTD/BOT	N/A	BO	26-07-2023 17:54:24	26-07-2023 17:54:21	48 36.972 N	123 14.965 W		227					Meghan Molnar				
50	59 CTD/BOT	N/A	EN	26-07-2023 17:58:32	26-07-2023 17:58:29	48 36.981 N	123 14.969 W		227					Meghan Molnar				
51	59 NET			BE	26-07-2023 18:00:05	26-07-2023 18:00:01	48 36.982 N	123 14.969 W	234	224				Mark Belton	NA	NA		
51	59 NET			BO	26-07-2023 18:08:20	26-07-2023 18:08:17	48 36.962 N	123 14.967 W		224				Mark Belton				
51	59 NET			EN	26-07-2023 18:12:37	26-07-2023 18:12:33	48 36.982 N	123 14.964 W		224				Mark Belton				

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2023-023
Vessel: Neocaligus

Launch Daily
Science Log

Print Daily Science
Log WorkBook

Vessel: Neocaligus													CTD/Rosette Status					
Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer ("dd-mm-yyyy hh:mm:ss")	Date Time (UTC) GPS ("dd-mm-yyyy hh:mm:ss")	Positional Information (DDD MM.MMM)		Sounder Depth (m)	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	Trans. Cleaned	Fluorometer Cleaned	PAR Status	Comments
							Latitude	Longitude			Start	End						
52	GI-01	CTD		BE	26-07-2023 19:24:18	26-07-2023 19:24:13	48 45.859 N	123 20.54 W	65	55				Meghan Molnar	NA	no	on	
52	GI-01	CTD		BO	26-07-2023 19:25:33	26-07-2023 19:25:28	48 45.86 N	123 20.544 W		55				Meghan Molnar				
52	GI-01	CTD		EN	26-07-2023 19:26:37	26-07-2023 19:26:35	48 45.861 N	123 20.55 W		55				Meghan Molnar				
53	GI-01	NET		BE	26-07-2023 19:28:10	26-07-2023 19:28:06	48 45.859 N	123 20.559 W	65	55				Meghan Molnar	NA	NA		
53	GI-01	NET		BO	26-07-2023 19:30:13	26-07-2023 19:30:07	48 45.857 N	123 20.572 W		55				Meghan Molnar				
53	GI-01	NET		EN	26-07-2023 19:31:30	26-07-2023 19:31:27	48 45.854 N	123 20.578 W		55				Meghan Molnar				
54	SC-04	CTD/BOT	N/A	BE	26-07-2023 20:03:28	26-07-2023 20:03:26	48 43.498 N	123 25.002 W	90	0	37	37	1	Meghan Molnar	NA	no	on	
54	SC-04	CTD/BOT	N/A	BO	26-07-2023 20:05:23	26-07-2023 20:05:18	48 43.5 N	123 25.003 W		80				Meghan Molnar				
54	SC-04	CTD/BOT	N/A	EN	26-07-2023 20:07:11	26-07-2023 20:07:06	48 43.496 N	123 24.993 W		80				Meghan Molnar				
55	SC-04	NET		BE	26-07-2023 20:08:34	26-07-2023 20:08:30	48 43.478 N	123 25 W	92	82				Mark Belton	NA	NA		
55	SC-04	NET		BO	26-07-2023 20:11:52	26-07-2023 20:11:48	48 43.455 N	123 25.046 W		82				Mark Belton				
55	SC-04	NET		EN	26-07-2023 20:13:27	26-07-2023 20:13:23	48 43.449 N	123 25.066 W		82				Mark Belton				
56	CBE2	CTD		BE	26-07-2023 21:05:35	26-07-2023 21:05:31	48 44.202 N	123 34.327 W	60	50				Mark Belton	NA	yes		
56	CBE2	CTD		BO	26-07-2023 21:06:40	26-07-2023 21:06:37	48 44.194 N	123 34.328 W		50				Mark Belton				
56	CBE2	CTD		EN	26-07-2023 21:07:50	26-07-2023 21:07:47	48 44.194 N	123 34.328 W		50				Mark Belton				
57	CBE2	NET		BE	26-07-2023 21:09:08	26-07-2023 21:09:02	48 44.191 N	123 34.327 W	62	52				Meghan Molnar	NA	NA		cod ends flipped - redo cast
57	CBE2	NET		BO	26-07-2023 21:11:14	26-07-2023 21:11:10	48 44.189 N	123 34.326 W		52				Meghan Molnar				
57	CBE2	NET		EN	26-07-2023 21:12:31	26-07-2023 21:12:29	48 44.194 N	123 34.324 W		52				Meghan Molnar				
58	CBE2	NET		BE	26-07-2023 21:17:48	26-07-2023 21:17:46	48 44.2 N	123 34.336 W	63	53				Meghan Molnar	NA	NA		
58	CBE2	NET		BO	26-07-2023 21:19:50	26-07-2023 21:19:46	48 44.202 N	123 34.334 W		53				Meghan Molnar				
58	CBE2	NET		EN	26-07-2023 21:21:13	26-07-2023 21:21:10	48 44.202 N	123 34.334 W		53				Meghan Molnar				

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Zooplankton Default Parameters

Print
Zooplankton
Labels - Under
Construction

Cruise Number:	2023-023	Contact:	Mark Belton
Vessel:	Neocaligus	Equipment Description/Serial Number (ex. Bongo #1)	Bongos; 56cm
Project:	SoG Plankton	Additional Notes	spectacles

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
		BONGO	VNH	250	YES	YES	NO

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth BE (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
				Latitude	Longitude													
22-07-2023 21:34:11	GEO1	2	1	49 14.937 N	123 45.464 W	100	0	404	BONGO	250	VNH	60215	60835	TSK7129	79110	60cm 250um	Formalin Frozen	
22-07-2023 22:49:44	GEO1	4	1	49 15.007 N	123 45.48 W	394	0	404	BONGO	250	VNH	60838	63360	TSK7129		60cm 250um	Formalin Frozen	removed 30 krill (sorry I think these were copopods),and some for chitobiase from flow meter side
23-07-2023 15:50:53	CPF2	8	7	49 27.947 N	124 29.991 W		319 10	329	BONGO	250	VNH	63360	65333	TSK7129		60cm 250um	Formalin Frozen	removed 30 krill, sorry I think these were copopods
23-07-2023 16:02:21	CPF2		9 7	49 27.947 N	124 29.991 W		319 10	329	SCOR	236	VNH	56969	58473	TSK4794	79108	56cm SCOR 2	Formalin Frozen	
23-07-2023 17:40:44	BS-11	11	10	49 28.98 N	124 45.925 W	51		61	BONGO	250	VNH	65332	65718			60cm 250um	Formalin	
23-07-2023 20:38:41		14	13	49 42.41 N	124 43.63 W		290 0	300	BONGO	250	VNH	65717	67580			60cm 250um	Formalin Frozen	removed 25 krill,and some for chitobiase from flow meter side
23-07-2023 21:00:51		15	13	49 42.44 N	124 43.604 W	291	0	301	SCOR	236	VNH	58472	60360			56cm SCOR 2	Formalin	
23-07-2023 21:46:41		17	16	49 43.544 N	124 40.924 W	100	20	355	BONGO	250	VNH	67580	68312			60cm 250um	Formalin Frozen	
23-07-2023 22:37:12		19	16	49 43.604 N	124 40.979 W	346	10		BONGO	250	VNH	68310	70440			60cm 250um	Formalin Frozen	removed 30 krill from flow meter side
24-07-2023 02:04:52		22	21	49 40.241 N	124 16.316 W	347	0	357	BONGO	250	VNH	70440	72611			60cm 250um	Formalin Frozen	30 krill from flow meter side. Net stopped just before surface, under boat, took 1min to correct.
24-07-2023 02:28:01		23	21	49 40.278 N	124 16.393 W	347	0	357	SCOR	236	VNH	60360	62497			56cm SCOR 2	Formalin	
24-07-2023 14:41:01	IS-2	25	24	49 38.187 N	124 4.992 W		18 0	29	BONGO	250	VNH	72610	72712			60cm 250um	Formalin Frozen	
24-07-2023 16:14:44		27	26	49 30.31 N	124 6.189 W		428 0	438	BONGO	250	VNH	72712	75392			60cm 250um	Formalin Frozen	8 krill from flow side 2 krill from other.
24-07-2023 18:09	CPF1	30	29	49 22.053 N	124 5.164 W			349	BONGO	250	VNH	75400	76420			60cm 250um	frozen Formalin	attempted but aborted due to weather. No sample but 15 krill flow side
25-07-2023 19:01:54		35	34	49 8.641 N	123 36.802 W		140 2	150	BONGO	250	VNH	76420	77378			60cm 250um	Frozen	20 krill from flow side

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Zooplankton Default Parameters

Print
Zooplankton
Labels - Under
Construction

Cruise Number:	2023-023	Contact:	Mark Belton
Vessel:	Neocaligus	Equipment Description/Serial Number (ex. Bongo #1)	Bongos; 56cm
Project:	SoG Plankton	Additional Notes	spectacles

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
		BONGO	VNH	250	YES	YES	NO

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth BE (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
				Latitude	Longitude													
25-07-2023 19:15:440		36	34	49 8.722 N	123 36.877 W	141	0	151	SCOR	236	VNH	62832	63678			56cm SCOR 2	Formalin	
25-07-2023 20:58:38		39	38	49 11.982 N	123 26.374 W	298	10	308	BONGO	250	VNH	77388	79380			60cm 250um	Frozen	12 krill from flow side
																	Formalin	may have hit bottom, brought in
25-07-2023 22:59:41		42	41	49 3.234 N	123 22.102 W	219	10	229	BONGO	250	VNH	79385	80889			60cm 250um	Frozen	~250m wire, may have not been
25-07-2023 23:54:42		44	43	49 1.8 N	123 26.103 W	100		0 320	BONGO	250	VNH	80889	81588			60cm 250um	Frozen	enough tension on block on way
26-07-2023 00:43:42		46	43	49 1.763 N	123 26.252 W	311	0	321	BONGO	250	VNH	81590	83429			60cm 250um	Frozen	out?
26-07-2023 14:52:46		48	47	48 51.46 N	123 10.841 W	162	0	172	BONGO	250	VNH	83428	84479			60cm 250um	Frozen	
26-07-2023 18:08:1		59 51	50	48 36.962 N	123 14.967 W	224	20	234	BONGO	250	VNH	84479	86029			60cm 250um	Frozen	
26-07-2023 19:30:0	GI-01	53	52	48 45.857 N	123 20.572 W		55 0	65	BONGO	250	VNH	86020	86375			60cm 250um	Frozen	
26-07-2023 20:11:4	SC-04	55	54	48 43.455 N	123 25.046 W	82	15	92	BONGO	250	VNH	86375	86963			60cm 250um	Frozen	
26-07-2023 21:11:1	CBE2	57	56	48 44.189 N	123 34.326 W		0		BONGO	250	VNH	86962	87303			60cm 250um	Frozen	redoing cast due to cod ends
26-07-2023 21:19:4	CBE2	58	56	48 44.202 N	123 34.334 W		53	0	63 BONGO	250	VNH	87303	87607			60cm 250um	Frozen	being flipped up