

DAILY SCIENCE LOG BOOK

Version FEB2023

Water Properties Group
Fisheries and Oceans Canada
Institut 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	2023-080
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Start Date	1-Nov-23
End Date	6-Nov-23

Vessel	Vector
Project(s)	Geochemical monitoring

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

Name	Role
	Captain
	Chief Engineer
	Bosun

Scientific Personnel:

Name	Role	Watch	Cabin	Name	Role	Watch	Cabin
Sophia Johan	Chief Scientist						
Cindy Wright							
David Spear							
Mark Belton							

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												
Data Acquisition Program												
CTD Deck Unit												
CTD	SBE	9P	443									
Temperature Sensor	SBE	3	4700	P			SBE	3	4888	S		
Conductivity Sensor	SBE	4	3531	P			SBE	4	4513	S		
Transmissometer	SBE	C-STAR	1185DR				SBE	C-STAR	1883DG			
Fluorometer	SEAPOINT	SCF	4186	S								
Fluorometer Gain Cable	3X											
Oxygen Sensor	SBE	43	4372	P								
Par Sensor												
Altimeter	Valport		76341									

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	Swann	329	1306	Box Core Deployment - Good
Winch 2	Swann	329	1483	Rosette Deployment - Good
Winch 3	Swann	420	1567	Grab Deployment - Good
Winch 4	Hydrowinch			Zooplankton Specs Deployment - Ok, short distance to waterline

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				
SI						see 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

Box Core
Smith-Mac Grab
Zooplankton Spectacles

Additional Equipment Comments During Cruise

CTD Computer Problems

- 4-Nov-23 Lost Winch Monitor display. HDMI cable connectivity to the monitor is flakey. Need to push in? Have had this problem before
Lost Camera - needed to unplug and plug back in, inorder for it to become active again
Lost USB recognition in top port of computer, had to point to config file from first cast, was pointing to config file on USB stick that it cannot see anymore
Tried in mouse port, did not work, plugged back in mouse and mouse no longer worked
reboot computer, blue screen of death on reboot. Restart - mouse randomly moving around and clicking after log in
Did another reboot - again blue screen of death, after log in seemed to work ok?
- 4-Nov-23 Had the wrong name for casts 0019, 0021, 0022, 0024, 0029 (after computer reboots, reverted to last cruise folder 2023-073. Changed names to 2023-080-xxxx and .hdr and .bl files

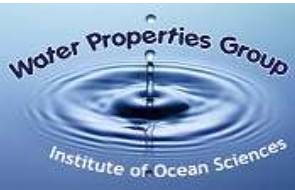
Additional Cruise Comments

Pictures (Equipment, Setups etc.)

See Pictures Folder

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2023-080
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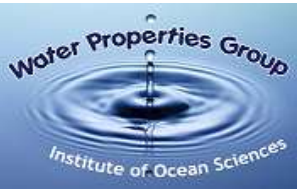
Launch Daily
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Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer ("dd-mm-yyyy hh:mm:ss")	Date Time (UTC) GPS ("dd-mm-yyyy hh:mm:ss")	Positional Information (DDD MM.MMM)		Sounder Depth (m)	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	CTD/Rosette Status			Comments
							Latitude	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
																		no samples taken, 24 bottles tripped to test Archiving during soak
1	SI	ROS	N/A	BE	02-11-2023 02:39:36	02-11-2023 02:39:34	48 39.275 N	123 28.749 W	65					Mark Belton	yes	no	no	
1	SI	ROS	N/A	BO	02-11-2023 02:42:00	02-11-2023 02:41:56	48 39.273 N	123 28.723 W		67				Mark Belton				
1	SI	ROS	N/A	EN	02-11-2023 02:44:01	02-11-2023 02:43:56	48 39.276 N	123 28.709 W		67				Mark Belton				
2	PMV-B CO GRB			BO	02-11-2023 14:40:38	02-11-2023 14:40:37	49 17.589 N	122 53.639 W	15	15				Cindy Wright				
3	PMV-B CO CORE			BO	02-11-2023 14:51:26	02-11-2023 14:51:23	49 17.573 N	122 53.632 W	14	14				David Spear				
4	INDV-B CC GRB			BO	02-11-2023 17:08:36	02-11-2023 17:08:33	49 25.341 N	122 51.971 W	160	165				Cindy Wright				
																		core over penetrateded, moving blocks down, and will re-do
5	INDV-B	Core		BO	02-11-2023 17:23:52	02-11-2023 17:23:51	49 25.341 N	122 51.969 W	169	170				Cindy Wright				
6	INDV-B	Core		BO	02-11-2023 17:57:07	02-11-2023 17:57:06	49 25.34 N	122 51.966 W	172	178				Cindy Wright				
7	IND7	ROS	N/A	BE	02-11-2023 21:01:57	02-11-2023 21:01:53	49 27.398 N	122 52.707 W	73					Mark Belton	yes	no	no	
7	IND7	ROS	N/A	BO	02-11-2023 21:03:02	02-11-2023 21:03:01	49 27.398 N	122 52.708 W		71				Mark Belton				
7	IND7	ROS	N/A	EN	02-11-2023 21:04:55	02-11-2023 21:04:52	49 27.399 N	122 52.709 W		71				Mark Belton				
8	IND6	NET		BE	02-11-2023 21:26:37	02-11-2023 21:26:35	49 26.407 N	122 51.629 W	104					Mark Belton	NA	NA		
8	IND6	NET		BO	02-11-2023 21:30:29	02-11-2023 21:30:27	49 26.406 N	122 51.626 W		95				Mark Belton				
8	IND6	NET		EN	02-11-2023 21:31:34	02-11-2023 21:31:33	49 26.405 N	122 51.626 W		95				Mark Belton				
9	IND6	ROS	US	BE	02-11-2023 21:43:25	02-11-2023 21:43:23	49 26.405 N	122 51.622 W	104		1	11	11	David Spear	yes	no	no	
9	IND6	ROS	US	BO	02-11-2023 21:45:46	02-11-2023 21:45:45	49 26.405 N	122 51.621 W		98	1	11	11	David Spear				
9	IND6	ROS	US	EN	02-11-2023 21:56:30	02-11-2023 21:56:26	49 26.409 N	122 51.615 W		98	1	11	11	David Spear				
																		Some confusion, archiving immediately. Started and Stopped during flush
10	IND5	ROS	N/A	BE	02-11-2023 22:43:04	02-11-2023 22:43:01	49 24.703 N	122 52.297 W	206					Mark Belton	yes	no	no	
10	IND5	ROS	N/A	BO	02-11-2023 22:46:52	02-11-2023 22:46:48	49 24.703 N	122 52.298 W		204				Mark Belton				
10	IND5	ROS	N/A	EN	02-11-2023 22:50:18	02-11-2023 22:50:16	49 24.702 N	122 52.299 W		204				Mark Belton				
11	IND4	NET		BE	02-11-2023 23:08:45	02-11-2023 23:08:41	49 23.328 N	122 52.521 W	224					Mark Belton	NA	NA		
11	IND4	NET		BO	02-11-2023 23:15:59	02-11-2023 23:15:57	49 23.328 N	122 52.529 W		210				Mark Belton				
11	IND4	NET		EN	02-11-2023 23:19:04	02-11-2023 23:19:00	49 23.323 N	122 52.539 W		210				Mark Belton				
12	IND4	ROS	N/A	BE	02-11-2023 23:29:16	02-11-2023 23:29:14	49 23.312 N	122 52.517 W	224					David Spear	yes	no	no	
12	IND4	ROS	N/A	BO	02-11-2023 23:33:11	02-11-2023 23:33:09	49 23.312 N	122 52.515 W		217				David Spear				
12	IND4	ROS	N/A	EN	02-11-2023 23:36:55	02-11-2023 23:36:53	49 23.312 N	122 52.514 W		217				David Spear				
13	IND3	ROS	US	BE	03-11-2023 00:40:25	03-11-2023 00:40:23	49 22.203 N	122 52.894 W	200		12	25	14	David Spear	yes	no	no	
13	IND3	ROS	US	BO	03-11-2023 00:44:19	03-11-2023 00:44:15	49 22.209 N	122 52.894 W		193	12	25	14	David Spear				
																		bottle 12 bottom cap did not close at
13	IND3	ROS	US	EN	03-11-2023 01:01:16	03-11-2023 01:01:14	49 22.181 N	122 52.888 W		193	12	25	14	David Spear				

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							Latitude	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
14	IND2	ROS	N/A	BE	03-11-2023 01:26:03	03-11-2023 01:26:01	49 21.005 N	122 54.105 W	162					David Spear	yes	no	no	
14	IND2	ROS	N/A	BO	03-11-2023 01:29:53	03-11-2023 01:29:49	49 21.011 N	122 54.108 W		153				David Spear				
14	IND2	ROS	N/A	EN	03-11-2023 01:32:57	03-11-2023 01:32:54	49 21.008 N	122 54.106 W		153				David Spear				
15	IND1	NET		BE	03-11-2023 01:53:06	03-11-2023 01:53:04	49 19.906 N	122 54.189 W	73	63				Mark Belton	NA	NA		
15	IND1	NET		BO	03-11-2023 01:55:58	03-11-2023 01:55:55	49 19.906 N	122 54.192 W		63				Mark Belton				
15	IND1	NET		EN	03-11-2023 01:56:56	03-11-2023 01:56:52	49 19.906 N	122 54.193 W		63				Mark Belton				
16	IND1	ROS	N/A	BE	03-11-2023 02:11:15	03-11-2023 02:11:13	49 19.906 N	122 54.244 W	78					David Spear	yes	no	no	
16	IND1	ROS	N/A	BO	03-11-2023 02:13:39	03-11-2023 02:13:34	49 19.906 N	122 54.245 W		72								Altimeter jumping around
16	IND1	ROS	N/A	EN	03-11-2023 02:15:38	03-11-2023 02:15:34	49 19.905 N	122 54.244 W		72				David Spear				
17	JERVIS-1 C	GRB		BO	03-11-2023 14:37:29	03-11-2023 14:37:27	50 3.704 N	123 48.893 W	531	540				Cindy Wright				Exploratory, no samples taken
18	JERVIS-1 C	Core		BO	03-11-2023 15:03:26	03-11-2023 15:03:21	50 3.703 N	123 48.908 W	533	540				Cindy Wright				bottom depth is a bit unknown. Ships sounder is intermittent and undershoots the depth vs. chart. Chart was accurate
18	JERVIS-2 C	Core		BO	03-11-2023 17:35:49	03-11-2023 17:35:47	49 53.606 N	123 54.276 W	620	660				Cindy Wright				
19	SECH3	ROS	N/A	BE	03-11-2023 21:49:27	03-11-2023 21:49:23	49 42.16 N	123 52.25 W	302					David Spear	yes	no	no	
19	SECH3	ROS	N/A	BO	03-11-2023 21:54:11	03-11-2023 21:54:08	49 42.145 N	123 52.228 W		295				David Spear				
19	SECH3	ROS	N/A	EN	03-11-2023 21:58:48	03-11-2023 21:58:45	49 42.144 N	123 52.248 W		295				David Spear				
20	SECH4	NET		BE	03-11-2023 22:38:23	03-11-2023 22:38:21	49 39.008 N	123 50.702 W	272					Mark Belton	NA	NA		
20	SECH4	NET		BO	03-11-2023 22:46:17	03-11-2023 22:46:12	49 39.027 N	123 50.696 W		262				Mark Belton				
20	SECH4	NET		EN	03-11-2023 22:50:54	03-11-2023 22:50:50	49 39.023 N	123 50.696 W		262				Mark Belton				
21	SECH4	ROS	US	BE	03-11-2023 23:00:33	03-11-2023 23:00:31	49 39.015 N	123 50.701 W	275		26	41	16	David Spear	yes	no	no	
21	SECH4	ROS	US	BO	03-11-2023 23:06:58	03-11-2023 23:06:53	49 39.011 N	123 50.699 W		270	26	41	16	David Spear				
21	SECH4	ROS	US	EN	03-11-2023 23:30:24	03-11-2023 23:30:19	49 39.006 N	123 50.712 W		270	26	41	16	David Spear				
22	SECH5	ROS	N/A	BE	04-11-2023 00:52:33	04-11-2023 00:52:30	49 35.99 N	123 48.177 W	259					David Spear	yes	no	no	
22	SECH5	ROS	N/A	BO	04-11-2023 00:58:29	04-11-2023 00:58:26	49 35.994 N	123 48.182 W		252				David Spear				
22	SECH5	ROS	N/A	EN	04-11-2023 01:03:10	04-11-2023 01:03:07	49 35.994 N	123 48.184 W		252				David Spear				
23	SECH6	NET		BO	04-11-2023 01:37:42	04-11-2023 01:37:38	49 33.394 N	123 47.275 W	208	198				Mark Belton				
23	SECH6	NET		EN	04-11-2023 01:41:15	04-11-2023 01:41:12	49 33.388 N	123 47.286 W		198				Mark Belton				
24	SECH6	ROS	US	BE	04-11-2023 01:51:29	04-11-2023 01:51:25	49 33.374 N	123 47.239 W	212		42	56	15	David Spear	yes	no	no	
24	SECH6	ROS	US	BO	04-11-2023 01:56:03	04-11-2023 01:56:01	49 33.379 N	123 47.233 W		205	42	56	15	David Spear				
24	SECH6	ROS	US	EN	04-11-2023 02:16:40	04-11-2023 02:16:35	49 33.382 N	123 47.208 W		205	42	56	15	David Spear				
25	SECHLT 2	GRB		BO	04-11-2023 14:27:36	04-11-2023 14:27:33	49 35.952 N	123 48.216 W	256	252				Cindy Wright				failed, redo

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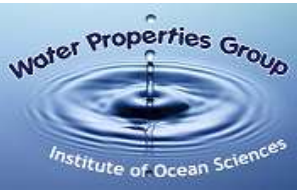
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							Latitude	Longitude			Start	End			Trans. Cleaned	Fluorometer Cleaned	PAR Status	
26	SECHLT-1 GRB			BO	04-11-2023 14:40:56	04-11-2023 14:40:53	49 35.949 N	123 48.216 W	258	252				Cindy Wright				mud too anoxic. Abandoning station and moving to Sechelt-2
27	SECHLT 2 GRB			BO	04-11-2023 15:56:25	04-11-2023 15:56:20	49 41.57 N	123 51.688 W	277	270				Cindy Wright				
28	SECHLT 2 Core			BO	04-11-2023 16:19:36	04-11-2023 16:19:33	49 41.557 N	123 51.705 W	273	275				Cindy Wright				
29	SALM5	ROS	N/A	BE	04-11-2023 19:14:55	04-11-2023 19:14:50	49 41.174 N	123 33.007 W	86					David Spear	yes	no	no	
29	SALM5	ROS	N/A	BO	04-11-2023 19:16:58	04-11-2023 19:16:56	49 41.174 N	123 33.005 W		81				David Spear				
29	SALM5	ROS	N/A	EN	04-11-2023 19:18:40	04-11-2023 19:18:38	49 41.173 N	123 33.004 W		81				David Spear				
30	SALM4	ROS	US	BE	04-11-2023 19:41:16	04-11-2023 19:41:13	49 40.282 N	123 35.024 W	222		57	71	15	David Spear	yes	no	no	
30	SALM4	ROS	US	BO	04-11-2023 19:45:29	04-11-2023 19:45:23	49 40.288 N	123 35.032 W		216	57	71	15	David Spear				
30	SALM4	ROS	US	EN	04-11-2023 20:06:23	04-11-2023 20:06:20	49 40.308 N	123 34.998 W			57	71	15	David Spear				
31	SECH2	ROS	N/A	BE	04-11-2023 22:15:10	04-11-2023 22:15:06	49 45.279 N	123 55.298 W	82					David Spear	yes	no	no	
31	SECH2	ROS	N/A	BO	04-11-2023 22:16:59	04-11-2023 22:16:53	49 45.273 N	123 55.294 W		78				David Spear				
31	SECH2	ROS	N/A	EN	04-11-2023 22:18:47	04-11-2023 22:18:44	49 45.272 N	123 55.283 W		78				David Spear				
32	SECH1	ROS	N/A	BE	04-11-2023 22:48:22	04-11-2023 22:48:17	49 46.908 N	123 57.812 W	290					David Spear	yes	no	no	
32	SECH1	ROS	N/A	BO	04-11-2023 22:53:44	04-11-2023 22:53:42	49 46.911 N	123 57.798 W		294				David Spear				
32	SECH1	ROS	N/A	EN	04-11-2023 22:59:24	04-11-2023 22:59:22	49 46.894 N	123 57.802 W		294				David Spear				
33	JE03	ROS	US	BE	04-11-2023 23:29:36	04-11-2023 23:29:34	49 48.054 N	124 2.448 W	N/A		72	91	20	David Spear	yes	no	no	
33	JE03	ROS	US	BO	04-11-2023 23:41:59	04-11-2023 23:41:57	49 48.039 N	124 2.452 W		680	72	91	20	David Spear				
33	JE03	ROS	US	EN	05-11-2023 00:15:22	05-11-2023 00:15:18	49 48.031 N	124 2.43 W		680	72	91	20	David Spear				
34	JE03	NET		BE	05-11-2023 00:56:05	05-11-2023 00:56:03	49 48.033 N	124 2.46 W	NA	660				Mark Belton	NA	NA		no sounder depth, going off of last CTD cast and chart, net to 660m
34	JE03	NET		BO	05-11-2023 01:14:36	05-11-2023 01:14:32	49 48.035 N	124 2.47 W		660				Mark Belton				
34	JE03	NET		EN	05-11-2023 01:25:03	05-11-2023 01:25:01	49 48.026 N	124 2.45 W		660				Mark Belton				
35	JE02	ROS	US	BE	05-11-2023 02:11:56	05-11-2023 02:11:53	49 46.246 N	124 9.242 W	N/A		92	92	1	David Spear	yes	no	no	
35	JE02	ROS	US	BO	05-11-2023 02:22:45	05-11-2023 02:22:41	49 46.271 N	124 9.226 W		602	92	92	1	David Spear				
35	JE02	ROS	US	EN	05-11-2023 02:35:11	05-11-2023 02:35:08	49 46.284 N	124 9.245 W			92	92	1	David Spear				
36	TOBA1-CC GRB		N/A	BO	05-11-2023 14:18:54	05-11-2023 15:18:51	50 20.448 N	124 44.303 W	506	510				Cindy Wright				exploratory, no samples taken
37	TOBA1-CC Core			BO	05-11-2023 14:41:38	05-11-2023 15:41:34	50 20.432 N	124 44.302 W	506	510				Cindy Wright				
38	T05	ROS	N/A	BE	05-11-2023 18:01:00	05-11-2023 18:05:57	50 27.708 N	124 23.933 W	194					David Spear	yes	no	no	
38	T05	ROS	N/A	BO	05-11-2023 18:09:06	05-11-2023 18:09:01	50 27.708 N	124 23.928 W		192				David Spear				
38	T05	ROS	N/A	EN	05-11-2023 18:12:38	05-11-2023 18:12:34	50 27.708 N	124 23.927 W		192				David Spear				
39	T05	NET		BE	05-11-2023 18:21:14	05-11-2023 18:21:11	50 27.705 N	124 23.931 W	194					Mark Belton	NA	NA		

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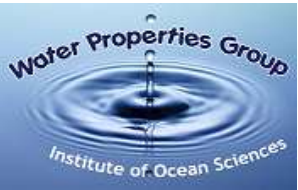
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							Latitute	Longitude			Start	End							
39	T05	NET		BO	05-11-2023 18:25:06	05-11-2023 18:25:03	50 27.704 N	124 23.936 W		184				Mark Belton					
39	T05	NET		EN	05-11-2023 18:28:07	05-11-2023 18:28:04	50 27.704 N	124 23.93 W		184				Mark Belton					
40	TO4A	ROS	US	BE	05-11-2023 19:17:08	05-11-2023 19:17:03	50 25.668 N	124 30.932 W	380		93	109	17	David Spear	yes	no	no		
40	TO4A	ROS	US	BO	05-11-2023 19:23:42	05-11-2023 19:23:39	50 25.667 N	124 30.928 W		373	93	109	17	David Spear					
40	TO4A	ROS	US	EN	05-11-2023 19:48:58	05-11-2023 19:48:55	50 25.674 N	124 30.918 W		373	93	109	17	David Spear					
41	T03A	ROS	N/A	BE	05-11-2023 20:28:36	05-11-2023 20:28:33	50 24.568 N	124 37.919 W	481					David Spear	yes	no	no		
41	T03A	ROS	N/A	BO	05-11-2023 20:37:11	05-11-2023 20:37:08	50 24.6 N	124 37.929 W		474				David Spear					
41	T03A	ROS	N/A	EN	05-11-2023 20:45:14	05-11-2023 20:45:08	50 24.6 N	124 37.868 W		474				David Spear				Double diffusive staircases at 250 m?	
42	T03A	NET		BE	05-11-2023 21:08:03	05-11-2023 21:07:59	50 24.557 N	124 37.844 W	477					Mark Belton	NA	NA			
42	T03A	NET		BO	05-11-2023 21:08:09	05-11-2023 21:08:03	50 24.557 N	124 37.844 W						Mark Belton					
42	T03A	NET		EN	05-11-2023 21:08:11	05-11-2023 21:08:08	50 24.557 N	124 37.844 W						Mark Belton				BE and BO missed. EN correct (ish)	
43	TO2A	ROS	US	BE	05-11-2023 21:45:49	05-11-2023 21:45:43	50 21.712 N	124 42.463 W	503		110	127	18	Mark Belton	yes	no	no		
43	TO2A	ROS	US	BO	05-11-2023 21:54:44	05-11-2023 21:54:38	50 21.691 N	124 42.44 W		500	110	127	18	Mark Belton					
43	TO2A	ROS	US	EN	05-11-2023 22:21:47	05-11-2023 22:21:43	50 21.689 N	124 42.427 W		500	110	127	18	Mark Belton					
44	T01	ROS	N/A	BE	05-11-2023 23:01:14	05-11-2023 23:01:10	50 18.113 N	124 46.209 W	503					David Spear	yes	no	no		
44	T01	ROS	N/A	BO	05-11-2023 23:10:25	05-11-2023 23:10:21	50 18.116 N	124 46.214 W		497				David Spear				Messy steps 250-350	
44	T01	ROS	N/A	EN	05-11-2023 23:19:15	05-11-2023 23:19:11	50 18.112 N	124 46.212 W		497				David Spear					
45	T01	NET		BE	05-11-2023 23:25:51	05-11-2023 23:25:48	50 18.102 N	124 46.216 W	500	250				Mark Belton	NA	NA			
45	T01	NET		BO	05-11-2023 23:32:33	05-11-2023 23:32:28	50 18.106 N	124 46.21 W		250				Mark Belton					
45	T01	NET		EN	05-11-2023 23:37:20	05-11-2023 23:37:16	50 18.109 N	124 46.216 W		250				Mark Belton					
																		sounder does not go deep enough. Know that is should be around 706 from previous cruise	
46	HC2	ROS	US	BE	06-11-2023 00:13:37	06-11-2023 00:13:35	50 17.736 N	124 40.193 W	706		128	148	21	Cindy Wright	yes	no	no		
46	HC2	ROS	US	BO	06-11-2023 00:26:57	06-11-2023 00:26:53	50 17.729 N	124 40.188 W		714	128	148	21	Cindy Wright				dp=0.9 db	
46	HC2	ROS	US	EN	06-11-2023 01:03:39	06-11-2023 01:03:36	50 17.715 N	124 40.18 W		714	128	148	21	Cindy Wright					
47	HC1	ROS	N/A	BE	06-11-2023 02:02:47	06-11-2023 02:02:43	50 12.676 N	124 38.051 W	N/A					David Spear	yes	no	no		
47	HC1	ROS	N/A	BO	06-11-2023 02:16:05	06-11-2023 02:16:02	50 12.677 N	124 38.052 W		703				David Spear					
47	HC1	ROS	N/A	EN	06-11-2023 02:27:16	06-11-2023 02:27:13	50 12.673 N	124 38.044 W		703				David Spear					
48	DS2	ROS	US	BE	06-11-2023 03:11:06	06-11-2023 03:11:01	50 9.012 N	124 44.268 W	N/A		800	803	4	David Spear	yes	no	no		
48	DS2	ROS	US	BO	06-11-2023 03:21:46	06-11-2023 03:21:43	50 9.043 N	124 44.319 W		589	800	803	4	David Spear					
48	DS2	ROS	US	EN	06-11-2023 03:36:03	06-11-2023 03:35:58	50 9.024 N	124 44.257 W		589	800	803	4	David Spear					
49	DS1	ROS	N/A	BE	06-11-2023 04:17:47	06-11-2023 04:17:44	50 4.759 N	124 49.187 W	N/A					David Spear	yes	no	no		

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2023-080
Vessel: Vector

Launch Daily Science Log

Print Daily Science Log WorkBook

Vessel:			Vector		Science Log		Log Workbook					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						
49	DS1	ROS	N/A	BO	06-11-2023 04:28:17	06-11-2023 04:28:13	50 4.761 N	124 49.188 W		511				David Spear				
49	DS1	ROS	N/A	EN	06-11-2023 04:37:19	06-11-2023 04:37:16	50 4.781 N	124 49.187 W		511				David Spear				

See Pictures Folder

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Zooplankton Default Parameters

Print
Zooplankton
Labels - Under
Construction

Cruise Number:	2023-080	Contact:	Cindy Wright
Vessel:	Vector	Equipment Description/Serial Number (ex. Bongo #1)	Spectacles
Project:	Geochemical monitoring	Additional Notes	

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
7128		BONGO	VNH	236	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													
02-11-2023 21:30:27	IND6	8	9	49 26.406 N	122 51.626 W	95	0	105	BONGO	250	VNH	56196	56772	7128	79108	Spectacles	Formalin Frozen	
02-11-2023 23:15:57	IND4	11	12	49 23.328 N	122 52.529 W	210	0	220	BONGO	250	VNH	56772	58088	7128	79108	Spectacles	Formalin Frozen	
03-11-2023 01:55:55	IND1	15	16	49 19.906 N	122 54.192 W	63	0	73	BONGO	250	VNH	58025	58400	7128	79108	Spectacles	Formalin Frozen	
03-11-2023 22:46:12	SECH4	20	21	49 39.027 N	123 50.696 W	262	0	272	BONGO	236	VNH	58400	58412	7128	79108	Spectacles	Formalin Frozen	Flow meter problem?, blew on it - seemed fine.
04-11-2023 01:56:01	SECH6	23	24	49 33.379 N	123 47.233 W	198	0	208	BONGO	236	VNH	58472	59660	7128	79108	Spectacles	Formalin Frozen	
05-11-2023 01:14:32	JE03	34	33	49 48.035 N	124 2.47 W	660	0	NA	BONGO	236	VNH	59600	63540	7128	79108	Spectacles	Formalin Frozen	
05-11-2023 18:25:03	T05	39	38	50 27.704 N	124 23.936 W	184	0	194	BONGO	236	VNH	63540	64650	7128	79108	Spectacles	Formalin Frozen	
Time	T03A	42	41	Lat	Long	250	0	477	BONGO	236	VNH	64650	66142	7128	79108	Spectacles	Formalin Frozen	
05-11-2023 23:32:28	T01	45	44	50 18.106 N	124 46.21 W	250	0		BONGO	236	VNH	66142	67622	7128	79108	Spectacles	Formalin Frozen	