

DAILY SCIENCE LOG BOOK

Version Jun2022

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

Mission Number:	2022-075
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Start Date: 12-Oct-22
End Date: 23-Oct-22

Vessel:	Franklin
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Project(s):	Inlets
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Ship Personnel:

Captain:	Zibby		
Engineer Officer:	Andy		
Bosun:	Darcy		
Cook/Steward			

Mission Participants (Department/Agencies):	DFO/IOS
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Scientific Personnel:

Name	Role	Watch	Cabin
Sophia Johannessen	Chief Scientist		
Stephen Page			
Lucius Perreault			
David Spear			

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	Comment
Data Logging Computer	Nitro 5											
Data Acquisition Program												
CTD Deck Unit	SBE	11 plus	1043									
CTD			585									
Temperature Sensor			2449						4484			
Conductivity Sensor		4c	1764					4c	2128			
Transmissometer - Green			1883DG									
Transmissometer - Red			1201DA									
Fluorometer			2228			con file says 2225						
Fluorometer Gain Cable		10x	172221									
Oxygen Sensor			1176									
Par Sensor	N/A											
Additional Sensors...			75321			altimeter						

Rosette

Winches

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

Salinometer

Make	Model	Serial Number	Comments on performance during cruise
N/A			

Oxygen kit

Make	Model	Serial/kit Number	Comments on performance during cruise
N/A			

Thermosalinograph System Instrument

Make	Model	Serial/kit Number	Program	Version						Comments on performance during cruise
	SBE21	2488								

ADCP Setup N/A

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

Comment on Performance During Cruise

CTD Test Cast Information

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

Additional Cruise Comments

entire cruise CTD was flushed at the surface, not as per standard 10m and back traditional method. This is to capture the surfacewaters of the inlets without disturbing

Pictures

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Ocean Sciences Division, Institute of Ocean Sciences

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Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer	Time (UTC) GPS	Positional Information		Sounder Depth	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	Trans. Cleaned	Fluorometer Cleaned	PAR Status	Comments
							Latitude	Longitude			Start	End						
1 SI	ROS	US	BE		10/13/2022 1:29	13-10-22 01:28:44	48° 39.618 N	123° 29.937 W	171					Lucius Perreault	yes	no	no	
1 SI	ROS	US	BO		10/13/2022 1:37	13-10-22 01:36:48	48° 39.633 N	123° 29.972 W	171	167				Lucius Perreault				
1 SI	ROS	US	EN		10/13/2022 1:41	13-10-22 01:41:14	48° 39.653 N	123° 29.971 W	171	167				Lucius Perreault				Tripped all bottles but no samples... no par.
2 JS1	ROS	US	BE		10/13/2022 20:44	13-10-22 20:43:43	50° 32.987 N	126° 46.038 W	461		1	10	10	Lucius Perreault	yes	no	no	new o2 chemicals opened
2 JS1	ROS	US	BO		10/13/2022 20:58	13-10-22 20:58:17	50° 33.008 N	126° 46.174 W	461	455	1	10	10	Lucius Perreault				
2 JS1	ROS	US	EN		10/13/2022 21:15	13-10-22 21:15:28	50° 33.091 N	126° 46.091 W	461	455	1	10	10	Lucius Perreault				
3 QCS1	ROS	US	BE		10/13/2022 22:36	13-10-22 22:36:34	50° 39.966 N	126° 46.179 W	152					Lucius Perreault	yes	no	no	
3 QCS1	ROS	US	BO		10/13/2022 22:43	13-10-22 22:43:02	50° 39.946 N	126° 46.214 W	152	148				Lucius Perreault				
3 QCS1	ROS	US	EN		10/13/2022 22:46	13-10-22 22:46:33	50° 39.954 N	126° 46.266 W	152	148				Lucius Perreault				
4 JS1	HYPERPRO		DE		10/13/2022 23:08	13-10-22 23:07:40	50° 40.694 N	126° 50.365 W						Sophia Johannessen				
5 CPEI	NET		BE		10/14/2022 3:03	14-10-22 03:03:29	51° 0.012 N	127° 50.024 W	142					Lucius Perreault				
5 CPEI	NET		BO		10/14/2022 3:08	14-10-22 03:08:32	51° 0.035 N	127° 50.087 W	142	132				Lucius Perreault				
5 CPEI	NET		EN		10/14/2022 3:11	14-10-22 03:10:41	51° 0.04 N	127° 50.124 W	142	132				Lucius Perreault				Red Cot end fell off, lost at sea
6 CPEI	ROS	US	BE		10/14/2022 3:24	14-10-22 03:24:24	51° 0.056 N	127° 50.116 W	141					Lucius Perreault	yes	no	no	
6 CPEI	ROS	US	BO		10/14/2022 3:31	14-10-22 03:31:12	51° 0.097 N	127° 50.209 W	141	133				Lucius Perreault				
6 CPEI	ROS	US	EN		10/14/2022 3:35	14-10-22 03:34:43	51° 0.12 N	127° 50.25 W	141	133				Lucius Perreault				
7 HAK1	NET		BE		10/14/2022 14:15	14-10-22 14:14:48	51° 41.911 N	128° 12.074 W	145					Lucius Perreault				
7 HAK1	NET		BO		10/14/2022 14:19	14-10-22 14:19:24	51° 41.921 N	128° 12.096 W	145	135				Lucius Perreault				
7 HAK1	NET		EN		10/14/2022 14:21	14-10-22 14:21:31	51° 41.924 N	128° 12.097 W	145	135				Lucius Perreault				
8 HAK1	ROS	US	BE		10/14/2022 14:32	14-10-22 14:32:32	51° 41.964 N	128° 12.142 W	145		11	19	9	Lucius Perreault	yes	no	no	
8 HAK1	ROS	US	BO		10/14/2022 14:38	14-10-22 14:37:43	51° 41.981 N	128° 12.163 W	145	140	11	19	9	Lucius Perreault				
8 HAK1	ROS	US	EN		10/14/2022 14:48	14-10-22 14:47:46	51° 42.022 N	128° 12.236 W	145	140	11	19	9	Lucius Perreault				
9 FIS2	ROS	US	BE		10/14/2022 18:19	14-10-22 18:19:18	52° 9.755 N	127° 52.221 W	577		20	32	13	Lucius Perreault	yes	no	no	shallow soak at beginning of cast
9 FIS2	ROS	US	BO		10/14/2022 18:33	14-10-22 18:33:01	52° 9.73 N	127° 52.211 W	577	583	20	32	13	Lucius Perreault				
9 FIS2	ROS	US	EN		10/14/2022 18:51	14-10-22 18:51:13	52° 9.652 N	127° 52.223 W	577	583	20	32	13	Lucius Perreault				
10 RO1	ROS	US	BE		10/14/2022 20:17	14-10-22 20:17:13	52° 19.707 N	127° 56.031 W	219		33	41	9	Stephen Page	yes	no	no	
10 RO1	ROS	US	BO		10/14/2022 20:21	14-10-22 20:21:32	52° 19.729 N	127° 56.021 W	219	216	33	41	9	Stephen Page				
10 RO1	ROS	US	EN		10/14/2022 20:30	14-10-22 20:29:50	52° 19.767 N	127° 56.006 W	219	216	33	41	9	Stephen Page				
11 RO1	HYPERPRO		DE		10/14/2022 20:41	14-10-22 20:41:16	52° 19.865 N	127° 55.983 W	219					Sophia Johannessen				
12 RO2	ROS	US	BE		10/14/2022 21:35	14-10-22 21:35:28	52° 22.742 N	127° 52.36 W	135					Lucius Perreault	yes	no	no	

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							Latitude	Longitude			Start	End						
																		may have hit bottom, pump turned off and sensors went wild
12	RO2	ROS	US	BO	10/14/2022 21:42	14-10-22 21:41:38	52° 22.724 N	127° 52.322 W	135	132				Lucius Perreault				And bottles 1-9 were tripped
12	RO2	ROS	US	EN	10/14/2022 21:45	14-10-22 21:45:07	52° 22.706 N	127° 52.326 W	135	132				Lucius Perreault				
13	RO2	ROS	US	BE	10/14/2022 21:52	14-10-22 21:52:34	52° 22.686 N	127° 52.355 W	135					Lucius Perreault	yes	no	no	
13	RO2	ROS	US	BO	10/14/2022 21:59	14-10-22 21:58:54	52° 22.684 N	127° 52.343 W	135	130				Lucius Perreault				
13	RO2	ROS	US	EN	10/14/2022 22:03	14-10-22 22:03:02	52° 22.683 N	127° 52.328 W	135	130				Lucius Perreault				
14	RO3	NET		BE	10/14/2022 22:46	14-10-22 22:46:27	52° 27.075 N	127° 54.873 W	169					Lucius Perreault				
14	RO3	NET		BO	10/14/2022 22:52	14-10-22 22:52:01	52° 27.066 N	127° 54.856 W	169	159				Lucius Perreault				
14	RO3	NET		EN	10/14/2022 22:54	14-10-22 22:54:30	52° 27.072 N	127° 54.841 W	169	159				Lucius Perreault				
15	RO3	ROS	US	BE	10/14/2022 23:02	14-10-22 23:02:13	52° 27.099 N	127° 54.811 W	167		42	53	12	Lucius Perreault	yes	no	no	
15	RO3	ROS	US	BO	10/14/2022 23:09	14-10-22 23:09:06	52° 27.106 N	127° 54.817 W	167	165	42	53	12	Lucius Perreault				
																		CTD crapped out again. Tried to fire bottles manually at surface and it worked. Plot looked good.
15	RO3	ROS	US	EN	10/14/2022 23:22	14-10-22 23:21:41	52° 27.104 N	127° 54.803 W	167	165	42	53	12	Lucius Perreault				
16	RO4	ROS	US	BE	10/15/2022 0:37	15-10-22 00:37:30	52° 29.953 N	127° 50.825 W	143					Lucius Perreault	yes	no	no	
16	RO4	ROS	US	BO	10/15/2022 0:46	15-10-22 00:46:09	52° 29.938 N	127° 50.834 W	143	138				Lucius Perreault				
16	RO4	ROS	US	EN	10/15/2022 0:49	15-10-22 00:49:31	52° 29.936 N	127° 50.836 W	143	138				Lucius Perreault				
17	RO5	ROS	US	BE	10/15/2022 1:44	15-10-22 01:43:47	52° 27.972 N	127° 44.89 W	102		54	61	8	Lucius Perreault	yes	no	no	
17	RO5	ROS	US	BO	10/15/2022 1:49	15-10-22 01:49:39	52° 27.99 N	127° 44.857 W	102	99	54	61	8	Lucius Perreault				
17	RO5	ROS	US	EN	10/15/2022 1:57	15-10-22 01:57:05	52° 28.005 N	127° 44.841 W	102	99	54	61	8	Lucius Perreault				Anoxic at bottom, H2S smell
18	SP5	ROS	US	BE	10/15/2022 14:09	15-10-22 14:09:11	52° 36.524 N	128° 4.124 W	224					Lucius Perreault	yes	no	no	
18	SP5	ROS	US	BO	10/15/2022 14:17	15-10-22 14:16:43	52° 36.512 N	128° 4.15 W	224	221				Lucius Perreault				
18	SP5	ROS	US	EN	10/15/2022 14:21	15-10-22 14:20:56	52° 36.502 N	128° 4.179 W	224	221				Lucius Perreault				
19	SP4	ROS	US	BE	10/15/2022 15:01	15-10-22 15:01:32	52° 33.588 N	128° 6.15 W	228		62	70	9	Lucius Perreault	yes	no	no	
19	SP4	ROS	US	BO	10/15/2022 15:10	15-10-22 15:10:14	52° 33.582 N	128° 6.149 W	228	224	62	70	9	Lucius Perreault				
19	SP4	ROS	US	EN	10/15/2022 15:20	15-10-22 15:20:17	52° 33.581 N	128° 6.146 W	228	224	62	70	9	Lucius Perreault				
20	SP3	NET		BE	10/15/2022 16:25	15-10-22 16:25:08	52° 27.728 N	128° 5.192 W						Stephen Page				
20	SP3	NET		BO	10/15/2022 16:38	15-10-22 16:37:47	52° 27.702 N	128° 5.24 W	496	486				Stephen Page				
20	SP3	NET		EN	10/15/2022 16:45	15-10-22 16:45:32	52° 27.684 N	128° 5.286 W	496	486				Stephen Page				
21	SP3	Boat		RE	10/15/2022 16:56	15-10-22 16:55:51	52° 27.705 N	128° 5.193 W	496		98	98	1	Lucius Perreault				
																		Sophie and David to Ellerslie lagoon for sampling
22	SP3	ROS	US	BE	10/15/2022 16:59	15-10-22 16:58:54	52° 27.702 N	128° 5.189 W	500		71	85	15	Lucius Perreault	yes	no	no	
22	SP3	ROS	US	BO	10/15/2022 17:12	15-10-22 17:12:13	52° 27.678 N	128° 5.175 W	500	496	71	85	15	Lucius Perreault				

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							Latitude	Longitude			Start	End						
22	SP3	ROS	US	EN	10/15/2022 17:30	15-10-22 17:29:50	52° 27.66 N	128° 5.192 W	500	496	71	85	15	Lucius Perreault				
23	SP2	ROS	US	BE	10/15/2022 18:15	15-10-22 18:15:13	52° 23.41 N	128° 8.878 W	478		86	97	12	Stephen Page	yes	no	no	
23	SP2	ROS	US	BO	10/15/2022 18:23	15-10-22 18:23:18	52° 23.39 N	128° 8.891 W	478	475	86	97	12	Stephen Page				
23	SP2	ROS	US	EN	10/15/2022 18:39	15-10-22 18:38:43	52° 23.349 N	128° 8.959 W	478	475	86	97	12	Stephen Page				
24	SP1	Package		RE	10/15/2022 19:08	15-10-22 19:08:23	52° 21.247 N	128° 10.924 W						Stephen Page				bella bella lifeboat alongside to deliver the Parcel from IOS (opticap filters)
25	SP1	ROS	US	BE	10/15/2022 19:37	15-10-22 19:37:05	52° 19.146 N	128° 12.652 W	379					Stephen Page	yes	no	no	
25	SP1	ROS	US	BO	10/15/2022 19:44	15-10-22 19:43:54	52° 19.085 N	128° 12.694 W	379	375				Stephen Page				
25	SP1	ROS	US	EN	10/15/2022 19:50	15-10-22 19:50:02	52° 19.053 N	128° 12.69 W	379	375				Stephen Page				
26	SP1	HYPERPRO		DE	10/15/2022 19:55	15-10-22 19:55:02	52° 19.053 N	128° 12.69 W	379	375				Sophie				
27	MS	ROS	US	BE	10/15/2022 21:59	15-10-22 21:59:26	52° 22.974 N	128° 33.378 W	247					Lucius Perreault	yes	no	no	
27	MS	ROS	US	BO	10/15/2022 22:07	15-10-22 22:07:38	52° 23.012 N	128° 33.42 W	247	240				Lucius Perreault				
27	MS	ROS	US	EN	10/15/2022 22:13	15-10-22 22:12:50	52° 23.039 N	128° 33.434 W	247	240				Lucius Perreault				
28	OP	ROS	US	BE	10/15/2022 23:33	15-10-22 23:33:34	52° 28.728 N	128° 18.475 W	296					Stephen Page	yes	no	no	cast was re-started after at ~10m there was interference on the trace and the pump turned off. This is at least the 4th or more time this has happened this cruise. cast includes the failure for troubleshooting purposes.
28	OP	ROS	US	BO	10/15/2022 23:38	15-10-22 23:38:32	52° 28.726 N	128° 18.445 W	296	292				Stephen Page				
28	OP	ROS	US	EN	10/15/2022 23:43	15-10-22 23:43:27	52° 28.728 N	128° 18.464 W	296	292				Stephen Page				
29	MC3	ROS	US	BE	10/16/2022 0:44	16-10-22 00:43:53	52° 35.11 N	128° 14.746 W	412		99	108	10	Lucius Perreault	yes	no	no	
29	MC3	ROS	US	BO	10/16/2022 0:54	16-10-22 00:53:57	52° 35.062 N	128° 14.815 W	412	408	99	108	10	Lucius Perreault				
29	MC3	ROS	US	EN	10/16/2022 1:07	16-10-22 01:07:06	52° 35.006 N	128° 14.878 W	412	408	99	108	10	Lucius Perreault				
30	MC4	ROS	US	BE	10/16/2022 2:09	16-10-22 02:08:55	52° 42.372 N	128° 10.107 W	620		109	125	17	Stephen Page	yes	no	no	
30	MC4	ROS	US	BO	10/16/2022 2:20	16-10-22 02:19:48	52° 42.334 N	128° 10.067 W	620	614	109	125	17	Stephen Page				
30	MC4	ROS	US	EN	10/16/2022 2:41	16-10-22 02:41:01	52° 42.266 N	128° 10.136 W	620	614	109	125	17	Stephen Page				
31	FC1	ROS	US	BE	10/16/2022 14:08	16-10-22 14:08:32	52° 31.07 N	128° 27.934 W	760		126	143	18	Lucius Perreault	yes	no	no	
31	FC1	ROS	US	BO	10/16/2022 14:25	16-10-22 14:25:34	52° 31.073 N	128° 27.884 W	760	763	126	143	18	Lucius Perreault				
31	FC1	ROS	US	EN	10/16/2022 14:49	16-10-22 14:49:28	52° 30.99 N	128° 27.824 W	760	763	126	143	18	Lucius Perreault				
32	FC1	NET		BE	10/16/2022 14:55	16-10-22 14:55:28	52° 30.962 N	128° 27.815 W	782					Lucius Perreault				
32	FC1	NET		BO	10/16/2022 15:19	16-10-22 15:18:53	52° 30.964 N	128° 27.756 W	782	774				Lucius Perreault				
32	FC1	NET		EN	10/16/2022 15:35	16-10-22 15:34:46	52° 30.923 N	128° 27.728 W	782	774				Lucius Perreault				

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							Latitude	Longitude			Start	End						
																		NOTE: CLEAN
33	FC2	ROS	US	BE	10/16/2022 16:26	16-10-22 16:25:58	52° 39.482 N	128° 28.193 W	660		144	155	12	Lucius Perreault	yes	no	no	Transmissometer cable lp
33	FC2	ROS	US	BO	10/16/2022 16:41	16-10-22 16:41:04	52° 39.456 N	128° 28.234 W	660	654	144	155	12	Lucius Perreault				
33	FC2	ROS	US	EN	10/16/2022 16:58	16-10-22 16:57:46	52° 39.385 N	128° 28.306 W	660	654	144	155	12	Lucius Perreault				
34	FC2	HYPERPRO		DE	10/16/2022 17:00	16-10-22 17:00:28	52° 39.362 N	128° 28.304 W	635					Lucius Perreault				
35	FC3	ROS	US	BE	10/16/2022 18:04	16-10-22 18:04:21	52° 47.872 N	128° 25.753 W	556		156	171	16	Lucius Perreault	yes	no	no	
35	FC3	ROS	US	BO	10/16/2022 18:17	16-10-22 18:17:34	52° 47.846 N	128° 25.796 W	556	548	156	171	16	Lucius Perreault				
35	FC3	ROS	US	EN	10/16/2022 18:36	16-10-22 18:36:32	52° 47.727 N	128° 25.826 W	556	548	156	171	16	Lucius Perreault				
36	FC3	NET		BE	10/16/2022 19:32	16-10-22 19:32:05	52° 47.878 N	128° 25.734 W	555					Lucius Perreault				
36	FC3	NET		BO	10/16/2022 19:51	16-10-22 19:51:23	52° 47.88 N	128° 25.73 W	555	545				Lucius Perreault				
36	FC3	NET		EN	10/16/2022 19:58	16-10-22 19:58:33	52° 47.877 N	128° 25.734 W	555	545				Lucius Perreault				
37	FC3	HYPERPRO		DE	10/16/2022 20:02	16-10-22 20:01:58	52° 47.881 N	128° 25.736 W	554					Lucius Perreault				
38	SP	ROS	US	BE	10/16/2022 21:00	16-10-22 20:59:47	52° 47.438 N	128° 16.18 W	351					Lucius Perreault	yes	no	no	I think i started the Rosette
38	SP	ROS	US	BO	10/16/2022 21:09	16-10-22 21:08:54	52° 47.427 N	128° 16.151 W	351	345				Lucius Perreault				
38	SP	ROS	US	EN	10/16/2022 21:15	16-10-22 21:15:26	52° 47.424 N	128° 16.103 W	351	345				Lucius Perreault				
39	MU1	ROS	US	BE	10/16/2022 22:27	16-10-22 22:27:18	52° 52.464 N	128° 8.704 W	340		174	184	11	David Spear	yes	no	no	
39	MU1	ROS	US	BO	10/16/2022 22:34	16-10-22 22:33:55	52° 52.475 N	128° 8.709 W	340	336				11 David Spear				
39	MU1	ROS	US	EN	10/16/2022 22:48	16-10-22 22:48:32	52° 52.485 N	128° 8.694 W	340	336				11 David Spear				
40	MU2	ROS	US	BE	10/16/2022 23:23	16-10-22 23:23:08	52° 54.2 N	128° 5.099 W	237					David Spear	no	no	yes	
40	MU2	ROS	US	BO	10/16/2022 23:27	16-10-22 23:27:34	52° 54.207 N	128° 5.073 W	237	232				David Spear				signals got very noisy on the upcast.
40	MU2	ROS	US	EN	10/16/2022 23:52	16-10-22 23:31:51	52° 54.289 N	128° 5.033 W	237	232				David Spear				cleaned transmissometer connectors and sea-cable connector
																		spike at ~130 m pump turned off. Turned on again and continued down.
41	KY1	ROS	US	BE	10/17/2022 1:43	17-10-22 01:43:06	52° 45.064 N	127° 59.555 W	407		185	195	11	David Spear	yes	no	no	
41	KY1	ROS	US	BO	10/17/2022 1:51	17-10-22 01:50:54	52° 45.08 N	127° 59.502 W	407	405	185	195	11	David Spear				
41	KY1	ROS	US	EN	10/17/2022 2:04	17-10-22 02:04:08	52° 45.054 N	127° 59.516 W	407	405	185	195	11	David Spear				
42	DE01	ROS	US	BE	10/17/2022 14:05	17-10-22 14:04:57	52° 14.938 N	127° 46.948 W	428					Lucius Perreault	yes	no	no	
42	DE01	ROS	US	BO	10/17/2022 14:15	17-10-22 14:14:47	52° 14.919 N	127° 46.99 W	428	422				Lucius Perreault				
42	DE01	ROS	US	EN	10/17/2022 14:23	17-10-22 14:22:43	52° 14.902 N	127° 47.022 W	428	422				Lucius Perreault				

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2022-075

Vessel: Franklin

Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer	Time (UTC) GPS	Positional Information		Sounder Depth	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	Trans. Cleaned	Fluorometer Cleaned	PAR Status	Comments
							Latitude	Longitude			Start	End						
43	SP			DE	10/16/2022 21:30	16-10-22 21:30:26	52° 47.424 N	128° 16.103 W										deployed Mark V with SP and LP to sample Mussel River and Poison Cove for freshwater samples
44	DE04	ROS	US	BE	10/17/2022 15:43	17-10-22 15:42:46	52° 20.489 N	127° 28.257 W	520		196	213	18	Lucius Perreault	yes	no	no	
44	DE04	ROS	US	BO	10/17/2022 15:55	17-10-22 15:55:09	52° 20.481 N	127° 28.277 W	520	517	196	213	18	Lucius Perreault				anticipated depths wrong...prepared samples for 280m
44	DE04	ROS	US	EN	10/17/2022 16:11	17-10-22 16:11:23	52° 20.46 N	127° 28.314 W	520	517	196	213	18	Lucius Perreault				
45	DE04	NET		BE	10/17/2022 16:16	17-10-22 16:16:21	52° 20.447 N	127° 28.337 W	520					Lucius Perreault				missed bottom and end time stamps
45	DE04	HYPERPRO		DE	10/17/2022 16:52	17-10-22 16:52:38	52° 20.378 N	127° 28.477 W	520					Lucius Perreault				
46	DE05	ROS	US	BE	10/17/2022 17:39	17-10-22 17:39:24	52° 24.539 N	127° 20.83 W	471					Lucius Perreault	yes	no	no	
46	DE05	ROS	US	BO	10/17/2022 17:50	17-10-22 17:50:04	52° 24.521 N	127° 20.872 W	471	473				Lucius Perreault				
46	DE05	ROS	US	EN	10/17/2022 17:59	17-10-22 17:59:01	52° 24.511 N	127° 20.836 W	471	473				Lucius Perreault				
47	DE06	ROS	US	BE	10/17/2022 19:04	17-10-22 19:04:20	52° 29.257 N	127° 14.604 W	497		214	225	12	Lucius Perreault	yes	no	no	
47	DE06	ROS	US	BO	10/17/2022 19:16	17-10-22 19:15:52	52° 29.265 N	127° 14.6 W	497	493	214	225	12	Lucius Perreault				
47	DE06	ROS	US	EN	10/17/2022 19:32	17-10-22 19:32:28	52° 29.277 N	127° 14.564 W	497	493	214	225	12	Lucius Perreault				
48	DE06	HYPERPRO		DE	10/17/2022 19:33	17-10-22 19:33:35	52° 29.276 N	127° 14.566 W	496					Lucius Perreault				
49	DE07	ROS	US	BE	10/17/2022 20:38	17-10-22 20:38:33	52° 34.981 N	127° 8.331 W	429					Lucius Perreault	yes	no	no	
49	DE07	ROS	US	BO	10/17/2022 20:48	17-10-22 20:48:27	52° 35.008 N	127° 8.27 W	429	421				Lucius Perreault				
49	DE07	ROS	US	EN	10/17/2022 20:56	17-10-22 20:56:18	52° 35.012 N	127° 8.246 W	429	421				Lucius Perreault				
50	DE07	BOAT		BE	10/17/2022 21:05	17-10-22 21:04:48	52° 35.377 N	127° 7.643 W	321					Lucius Perreault				SJ and DS off to Dean And Kimsquit R for freshwater
51	DE08	ROS	US	BE	10/17/2022 22:16	17-10-22 22:15:45	52° 38.309 N	127° 0.587 W	485					Lucius Perreault	yes	no	no	
51	DE08	ROS	US	BO	10/17/2022 22:26	17-10-22 22:26:31	52° 38.288 N	127° 0.515 W	485	482				Lucius Perreault				
51	DE08	ROS	US	EN	10/17/2022 22:35	17-10-22 22:35:11	52° 38.274 N	127° 0.482 W	485	482				Lucius Perreault				
52	DE09	NET		BE	10/17/2022 23:20	17-10-22 23:20:33	52° 43.999 N	126° 57.238 W	456	446				Lucius Perreault				
52	DE09	NET		BO	10/17/2022 23:35	17-10-22 23:34:58	52° 44.033 N	126° 57.294 W	456	445				Lucius Perreault				
52	DE09	NET		EN	10/17/2022 23:42	17-10-22 23:42:05	52° 44.036 N	126° 57.292 W	456	445				Lucius Perreault				
53	DE09	ROS	US	BE	10/17/2022 23:49	17-10-22 23:49:08	52° 44.047 N	126° 57.301 W	454		228	238	11	Lucius Perreault	yes	no	no	
53	DE09	ROS	US	BO	10/17/2022 23:59	17-10-22 23:59:03	52° 44.044 N	126° 57.302 W	454	451	228	238	11	Lucius Perreault				
53	DE09	ROS	US	EN	10/18/2022 0:14	18-10-22 00:14:37	52° 44.09 N	126° 57.357 W	454	451	228	238	11	Lucius Perreault				
54	DE10	ROS	US	BE	10/18/2022 1:07	18-10-22 01:06:41	52° 49.879 N	126° 59.613 W	165					Lucius Perreault	yes	no	no	
54	DE10	ROS	US	BO	10/18/2022 1:13	18-10-22 01:12:41	52° 49.897 N	126° 59.618 W	165	163				Lucius Perreault				

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2022-075
Vessel: Franklin

Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer	Time (UTC) GPS	Positional Information		Sounder Depth	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	Trans. Cleaned	Fluorometer Cleaned	PAR Status	Comments
							Latitude	Longitude			Start	End						
54	DE10	ROS	US	EN	10/18/2022 1:16	18-10-22 01:16:33	52° 49.9 N	126° 59.625 W	165	163				Lucius Perreault				
55	BUR 15	ROS	US	BE	10/18/2022 14:02	18-10-22 14:01:55	52° 3.139 N	126° 42.299 W	218					Lucius Perreault	yes	no	no	
55	BUR 15	ROS	US	BO	10/18/2022 14:09	18-10-22 14:08:51	52° 3.144 N	126° 42.307 W	218	215				Lucius Perreault				
55	BUR 15	ROS	US	EN	10/18/2022 14:13	18-10-22 14:13:33	52° 3.162 N	126° 42.315 W	218	215				Lucius Perreault				
56	BUR 14	ROS	US	BE	10/18/2022 14:49	18-10-22 14:48:52	52° 7.443 N	126° 47.076 W	292					Lucius Perreault	no	no	no	
56	BUR 14	ROS	US	BO	10/18/2022 14:57	18-10-22 14:57:24	52° 7.447 N	126° 47.106 W	292	288				Lucius Perreault				
56	BUR 14	ROS	US	EN	10/18/2022 15:15	18-10-22 15:14:59	52° 7.438 N	126° 47.154 W	292	288	239	248		Lucius Perreault				2 CTD files associated with this cast 0056 and 0056B. LP
57	BUR 13	ROS	US	BE	10/18/2022 15:56	18-10-22 15:55:58	52° 11.404 N	126° 54.376 W	280					Lucius Perreault	yes	no	no	
57	BUR 13	ROS	US	BO	10/18/2022 16:04	18-10-22 16:04:06	52° 11.366 N	126° 54.35 W	280	276				Lucius Perreault				
57	BUR 13	ROS	US	EN	10/18/2022 16:10	18-10-22 16:09:40	52° 11.362 N	126° 54.309 W	280	276				Lucius Perreault				
58	BUR 11	ROS	US	BE	10/18/2022 18:00	18-10-22 18:00:32	52° 22.76 N	126° 50.066 W	267					David Spear	yes	no	no	
58	BUR 11	ROS	US	BO	10/18/2022 18:05	18-10-22 18:05:22	52° 22.751 N	126° 50.071 W	267	266				David Spear				Bottle fired, no samples taken.
58	BUR 11	ROS	US	EN	10/18/2022 18:11	18-10-22 18:10:53	52° 22.746 N	126° 50.102 W	267	266				David Spear				
59	BUR 11	Boat		DE	10/18/2022 17:40	18-10-22 17:40:13	52° 22.751 N	126° 50.071 W			266							rhib with SP and LP to Bella Coola River for freshwater sample
60	BUR 11	HYPERPRO		DE	10/18/2022 18:15	18-10-22 18:15:20	52° 22.751 N	126° 50.071 W						Sophie				hyperpro with SJ and DS
61	BUR08	NET		BE	10/18/2022 19:46	18-10-22 19:46:09	52° 19.268 N	127° 2.498 W	509					Lucius Perreault				
61	BUR08	NET		BO	10/18/2022 20:04	18-10-22 20:03:47	52° 19.273 N	127° 2.528 W	509	496				Lucius Perreault				
61	BUR08	NET		EN	10/18/2022 20:13	18-10-22 20:12:55	52° 19.288 N	127° 2.543 W	509	496				Lucius Perreault				
62	BUR08	ROS	US	BE	10/18/2022 20:21	18-10-22 20:20:52	52° 19.286 N	127° 2.514 W	509		249	259	12	David Spear	yes	no	no	
62	BUR08	ROS	US	BO	10/18/2022 20:30	18-10-22 20:30:36	52° 19.279 N	127° 2.561 W	509	500	249	259	12	David Spear				
62	BUR08	ROS	US	EN	10/18/2022 20:47	18-10-22 20:46:43	52° 19.284 N	127° 2.652 W	509	500	249	260	12	David Spear				
63	BUR08	HYPERPRO		DE	10/18/2022 21:02	18-10-22 21:01:46	52° 19.303 N	127° 2.645 W	509	500				David Spear				
64	BUR07	ROS	US	BE	10/18/2022 21:56	18-10-22 21:55:56	52° 16.602 N	127° 15.422 W	580					Lucius Perreault	yes	no	no	
64	BUR07	ROS	US	BO	10/18/2022 22:09	18-10-22 22:08:58	52° 16.591 N	127° 15.504 W	580	577				Lucius Perreault				
64	BUR07	ROS	US	EN	10/18/2022 22:19	18-10-22 22:19:23	52° 16.591 N	127° 15.548 W	580	577				Lucius Perreault				
65	BUR 5	ROS	US	BE	10/18/2022 23:22	18-10-22 23:21:45	52° 12.03 N	127° 28.347 W	593		267	279	13	Lucius Perreault	yes	no	no	Samples 261 through 265 omitted
65	BUR 5	ROS	US	BO	10/18/2022 23:35	18-10-22 23:34:49	52° 12.015 N	127° 28.371 W	593	588	267	279	13	Lucius Perreault				
65	BUR 5	ROS	US	EN	10/18/2022 23:53	18-10-22 23:53:09	52° 11.953 N	127° 28.386 W	593	588	267	279	13	Lucius Perreault				
66	BUR 2	ROS	US	BE	10/19/2022 1:29	19-10-22 01:29:35	51° 58.706 N	127° 40.911 W	243						yes	no	no	
66	BUR 2	ROS	US	BO	10/19/2022 1:37	19-10-22 01:37:17	51° 58.731 N	127° 40.923 W	243	238				Lucius Perreault				
66	BUR 2	ROS	US	EN	10/19/2022 1:42	19-10-22 01:41:56	51° 58.731 N	127° 40.927 W	243	238				Lucius Perreault				

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2022-075
Vessel: Franklin

Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer	Time (UTC) GPS	Positional Information		Sounder Depth	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	Trans. Cleaned	Fluorometer Cleaned	PAR Status	Comments
							Latitude	Longitude			Start	End						
67	BUR 1	ROS	US	BE	10/19/2022 2:54	19-10-22 02:54:29	51° 54.266 N	127° 56.834 W	352		280	290	11	Lucius Perreault	yes	no	no	
67	BUR 1	ROS	US	EN	10/19/2022 3:04	19-10-22 03:04:29	51° 54.222 N	127° 56.917 W	352		280	290	11	Lucius Perreault				returned to surface, all sensor data was wild. for first 20 meters
67	BUR 1	ROS	US	BE	10/19/2022 3:05	19-10-22 03:04:54	51° 54.223 N	127° 56.916 W	352					Lucius Perreault	no	no	yes	restarted cast and new CTD file is 67B. LP
67	BUR 1	ROS	US	BO	10/19/2022 3:13	19-10-22 03:12:51	51° 54.209 N	127° 56.932 W	352	343				Lucius Perreault				
67	BUR 1	ROS	US	EN	10/19/2022 3:25	19-10-22 03:24:58	51° 54.185 N	127° 56.892 W	352	343				Lucius Perreault				
68	SM5	ROS	US	BE	10/19/2022 14:04	19-10-22 14:04:36	51° 21.339 N	127° 6.229 W	109					Lucius Perreault	yes	no	no	
68	SM5	ROS	US	BO	10/19/2022 14:09	19-10-22 14:09:28	51° 21.342 N	127° 6.22 W	109	105				Lucius Perreault				
68	SM5	ROS	US	EN	10/19/2022 14:12	19-10-22 14:12:00	51° 21.348 N	127° 6.215 W	109	105				Lucius Perreault				
69	SM04	ROS	US	BE	10/19/2022 14:40	19-10-22 14:40:08	51° 21.622 N	127° 9.026 W	182		291	299		Lucius Perreault	no	no	yes	
69	SM04	ROS	US	BO	10/19/2022 14:46	19-10-22 14:46:34	51° 21.608 N	127° 9.05 W	182	182	291	299		Lucius Perreault				
69	SM04	ROS	US	EN	10/19/2022 14:55	19-10-22 14:55:27	51° 21.579 N	127° 9.053 W	182	182	291	299	9	Lucius Perreault				
70	SM03a	ROS	US	BE	10/19/2022 15:38	19-10-22 15:37:51	51° 19.333 N	127° 10.959 W	222					Lucius Perreault	yes	no	no	
70	SM03a	ROS	US	BO	10/19/2022 15:44	19-10-22 15:44:28	51° 19.332 N	127° 10.957 W	222	221				Lucius Perreault				
70	SM03a	ROS	US	EN	10/19/2022 15:49	19-10-22 15:48:39	51° 19.33 N	127° 10.96 W	222	221				Lucius Perreault				
71	SM03	ROS	US	BE	10/19/2022 16:14	19-10-22 16:14:01	51° 18.505 N	127° 14.632 W	326					Lucius Perreault	no	no	yes	
71	SM03	ROS	US	BO	10/19/2022 16:22	19-10-22 16:22:32	51° 18.5 N	127° 14.677 W	326	324				Lucius Perreault				
71	SM03	ROS	US	EN	10/19/2022 16:29	19-10-22 16:29:14	51° 18.499 N	127° 14.682 W	326	324				Lucius Perreault				
72	SM04	Boat		DE	10/19/2022 15:00	19-10-22 15:00:27	51° 21.579 N	127° 9.053 W						Sophie Johannessen				SJ and DS in rhib to Nikite R
73	SM02	ROS	US	BE	10/19/2022 17:34	19-10-22 17:33:49	51° 18.017 N	127° 22.086 W	368					Lucius Perreault	no	no	yes	
73	SM02	ROS	US	BO	10/19/2022 17:43	19-10-22 17:42:51	51° 18.028 N	127° 22.115 W	368	365	300	319	20	Lucius Perreault				
73	SM02	ROS	US	EN	10/19/2022 17:57	19-10-22 17:56:59	51° 18.022 N	127° 22.133 W	368	365	300	319	20	Lucius Perreault				
74	SM02	NET		BE	10/19/2022 18:59	19-10-22 18:59:08	51° 18.021 N	127° 22.267 W	375					Stephen Page				
74	SM02	NET		BO	10/19/2022 19:10	19-10-22 19:09:53	51° 18.036 N	127° 22.282 W	375	365				Stephen Page				
74	SM02	NET		EN	10/19/2022 19:23	19-10-22 19:22:44	51° 18.046 N	127° 22.23 W	375	365				Stephen Page				
75	SM02	HYPERPRO		DE	10/19/2022 19:23	19-10-22 19:22:53	51° 18.048 N	127° 22.225 W	375					Stephen Page				
76	SM01	ROS	US	BE	10/19/2022 20:13	19-10-22 20:13:08	51° 18.702 N	127° 29.947 W	215					Stephen Page	yes	no	no	
76	SM01	ROS	US	BO	10/19/2022 20:16	19-10-22 20:16:16	51° 18.709 N	127° 29.96 W	215	211				Stephen Page				
76	SM01	ROS	US	EN	10/19/2022 20:20	19-10-22 20:20:02	51° 18.731 N	127° 29.987 W	215	211				Stephen Page				
77	QCS2	ROS	US	BE	10/20/2022 2:13	20-10-22 02:13:18	50° 46.57 N	127° 2.438 W	223					Lucius Perreault	yes	no	no	
77	QCS2	ROS	US	BO	10/20/2022 2:21	20-10-22 02:21:10	50° 46.563 N	127° 2.438 W	223	220				Lucius Perreault				
77	QCS2	ROS	US	EN	10/20/2022 2:26	20-10-22 02:25:35	50° 46.559 N	127° 2.453 W	223	220				Lucius Perreault				
78	Kn11	ROS	US	BE	10/20/2022 14:03	20-10-22 14:02:54	51° 2.464 N	125° 34.043 W	207					Lucius Perreault	yes	no	no	

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2022-075
Vessel: Franklin

Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer	Time (UTC) GPS	Positional Information		Sounder Depth	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	Trans. Cleaned	Fluorometer Cleaned	PAR Status	Comments
							Latitude	Longitude			Start	End						
78	Kn11	ROS	US	BO	10/20/2022 14:10	20-10-22 14:09:59	51° 2.474 N	125° 34.007 W	207	212				Lucius Perreault				
78	Kn11	ROS	US	EN	10/20/2022 14:14	20-10-22 14:14:25	51° 2.47 N	125° 33.98 W	207	212				Lucius Perreault				
79	Kn10	ROS	US	BE	10/20/2022 14:45	20-10-22 14:45:24	50° 58.726 N	125° 33.406 W	328					Lucius Perreault	yes	no	no	
79	Kn10	ROS	US	BO	10/20/2022 14:56	20-10-22 14:55:43	50° 58.69 N	125° 33.39 W	328	332	321	331	11	Lucius Perreault				
79	Kn10	ROS	US	EN	10/20/2022 15:13	20-10-22 15:10:08	50° 58.659 N	125° 33.446 W	328	332	321	331	11	Lucius Perreault				
80	Kn09	ROS	US	BE	10/20/2022 15:54	20-10-22 15:54:31	50° 54.324 N	125° 32.759 W	417					David Spear	no	no	yes	
80	Kn09	ROS	US	BO	10/20/2022 16:02	20-10-22 16:01:45	50° 54.314 N	125° 32.776 W	417	414				David Spear				
80	Kn09	ROS	US	EN	10/20/2022 16:09	20-10-22 16:08:48	50° 54.302 N	125° 32.767 W	417	414				David Spear				
81	Kn08	ROS	US	BE	10/20/2022 16:46	20-10-22 16:46:13	50° 52.351 N	125° 38.73 W	492		334	345	12	David Spear	no	no	no	
81	Kn08	ROS	US	BO	10/20/2022 16:54	20-10-22 16:53:58	50° 52.331 N	125° 38.783 W	492	490	334	345	12	David Spear				
81	Kn08	ROS	US	EN	10/20/2022 17:10	20-10-22 17:10:36	50° 52.308 N	125° 38.871 W	492	490	334	345	12	David Spear				
82	Kn08	NET		BE	10/20/2022 17:18	20-10-22 17:18:05	50° 52.293 N	125° 38.928 W	494					David Spear				
82	Kn08	NET		BO	10/20/2022 17:33	20-10-22 17:33:23	50° 52.255 N	125° 38.978 W	494	484				David Spear				
82	Kn08	NET		EN	10/20/2022 17:41	20-10-22 17:40:39	50° 52.248 N	125° 39.035 W	494					David Spear				
83	Kn07	ROS	US	BE	10/20/2022 19:02	20-10-22 19:02:35	50° 48.144 N	125° 37.377 W	520					David Spear	yes	no	no	
83	Kn07	ROS	US	BO	10/20/2022 19:12	20-10-22 19:11:45	50° 48.168 N	125° 37.422 W	520	517				David Spear				
83	Kn07	ROS	US	EN	10/20/2022 19:20	20-10-22 19:20:29	50° 48.189 N	125° 37.47 W	520	517				David Spear				
84	Kn06	ROS	US	BE	10/20/2022 20:00	20-10-22 20:00:02	50° 45.315 N	125° 41.036 W	524		346	369		David Spear	yes	no	no	
84	Kn06	ROS	US	BO	10/20/2022 20:09	20-10-22 20:09:06	50° 45.3 N	125° 40.975 W	524	520	346	369	24	David Spear				
84	Kn06	ROS	US	EN	10/20/2022 20:31	20-10-22 20:31:21	50° 45.313 N	125° 40.957 W	524	520	346	369	24	David Spear				
85	Kn06	NET		BO	10/20/2022 20:54	20-10-22 20:53:41	50° 45.284 N	125° 40.887 W	525	514				David Spear				
85	Kn06	NET		EN	10/20/2022 21:02	20-10-22 21:02:09	50° 45.278 N	125° 40.857 W	524	514				David Spear				
86	Kn06	HYPERPRO		DE	10/20/2022 21:18	20-10-22 21:18:36	50° 45.254 N	125° 40.932 W	524					David Spear				
87	Kn10	Boat		DE	10/20/2022 15:15	20-10-22 15:15:43	50° 58.69 N	125° 33.39 W										SP & LP off in rhib for Franklin R and Klinaklini R sampling
88	Kn05	ROS	US	BE	10/20/2022 22:13	20-10-22 22:13:20	50° 41.63 N	125° 46.874 W	400					Lucius Perreault	yes	no	no	
88	Kn05	ROS	US	BO	10/20/2022 22:23	20-10-22 22:22:41	50° 41.626 N	125° 46.83 W	400	396				Lucius Perreault				
88	Kn05	ROS	US	EN	10/20/2022 22:30	20-10-22 22:30:03	50° 41.616 N	125° 46.834 W	400	396				Lucius Perreault				
89	Kn4	ROS	US	BE	10/20/2022 23:17	20-10-22 23:17:26	50° 40.776 N	125° 55.778 W	449					Lucius Perreault	yes	no	no	
89	Kn4	ROS	US	BO	10/20/2022 23:27	20-10-22 23:27:24	50° 40.784 N	125° 55.811 W	449	446				Lucius Perreault				
89	Kn4	ROS	US	EN	10/20/2022 23:35	20-10-22 23:35:23	50° 40.791 N	125° 55.823 W	449	446				Lucius Perreault				
90	Kn3	ROS	US	BE	10/21/2022 0:34	21-10-22 00:33:43	50° 40.222 N	126° 3.961 W	190					Lucius Perreault	yes	no	no	
90	Kn3	ROS	US	BO	10/21/2022 0:40	21-10-22 00:40:13	50° 40.215 N	126° 3.902 W	190	184				Lucius Perreault				
90	Kn3	ROS	US	EN	10/21/2022 0:44	21-10-22 00:44:05	50° 40.198 N	126° 3.901 W	190	184				Lucius Perreault				
91	Kn2	ROS	US	BE	10/21/2022 1:26	21-10-22 01:25:37	50° 39.333 N	126° 10.929 W	181		370	376	7	Lucius Perreault	no	no	yes	

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2022-075
Vessel: Franklin

Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer	Time (UTC) GPS	Positional Information		Sounder Depth	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	Trans. Cleaned	Fluorometer Cleaned	PAR Status	Comments
							Latitude	Longitude			Start	End						
91	Kn2	ROS	US	BO	10/21/2022 1:32	21-10-22 01:32:16	50° 39.361 N	126° 10.882 W	181	176	370	376	7	Lucius Perreault				
91	Kn2	ROS	US	BO	10/21/2022 1:41	21-10-22 01:40:44	50° 39.344 N	126° 10.858 W	181	176	370	376	7	Lucius Perreault				
92	KN1.5	ROS	US	BE	10/21/2022 14:05	21-10-22 14:04:44	50° 38.315 N	126° 18.031 W	204					Lucius Perreault	yes	no	no	
92	KN1.5	ROS	US	BO	10/21/2022 14:10	21-10-22 14:10:17	50° 38.333 N	126° 18.025 W	204	206				Lucius Perreault				
92	KN1.5	ROS	US	EN	10/21/2022 14:14	21-10-22 14:14:02	50° 38.353 N	126° 17.98 W	204	206				Lucius Perreault				
93	Kn1	ROS	US	BE	10/21/2022 14:47	21-10-22 14:47:04	50° 38.076 N	126° 25.267 W	258		377	387	11	Lucius Perreault	yes	no	no	
93	Kn1	ROS	US	BO	10/21/2022 14:55	21-10-22 14:55:35	50° 38.086 N	126° 25.294 W	258	254	377	387	11	Lucius Perreault				
93	Kn1	ROS	US	EN	10/21/2022 15:06	21-10-22 15:05:54	50° 38.097 N	126° 25.244 W	258	254	377	387	11	Lucius Perreault				
94	Kn0	ROS	US	BE	10/21/2022 15:48	21-10-22 15:48:23	50° 38.295 N	126° 34.896 W	61					Lucius Perreault	yes	yes	no	
94	Kn0	ROS	US	BO	10/21/2022 15:56	21-10-22 15:55:53	50° 38.302 N	126° 34.789 W	61	57				Lucius Perreault				
94	Kn0	ROS	US	EN	10/21/2022 15:57	21-10-22 15:57:13	50° 38.312 N	126° 34.758 W	61	57				Lucius Perreault				
95	HAV01	ROS	US	BE	10/21/2022 19:04	21-10-22 19:03:50	50° 31.718 N	126° 17.551 W	110					Lucius Perreault	yes	no	no	
95	HAV01	ROS	US	BO	10/21/2022 19:09	21-10-22 19:08:37	50° 31.724 N	126° 17.552 W	110	106				Lucius Perreault				
95	HAV01	ROS	US	EN	10/21/2022 19:11	21-10-22 19:10:43	50° 31.722 N	126° 17.554 W	110	106				Lucius Perreault				
96	CA01	ROS	US	BE	10/21/2022 20:14	21-10-22 20:14:28	50° 34.984 N	126° 10.252 W	106		388	396	9	Lucius Perreault	yes	no	no	
96	CA01	ROS	US	BO	10/21/2022 20:17	21-10-22 20:17:25	50° 34.969 N	126° 10.225 W	106	104	388	396	9	Lucius Perreault				
96	CA01	ROS	US	EN	10/21/2022 20:24	21-10-22 20:23:51	50° 34.985 N	126° 10.211 W	106	104	388	396	9	Lucius Perreault				
97	CA01	HYPERPRO		DE	10/21/2022 20:34	21-10-22 20:34:18	50° 35.054 N	126° 9.997 W	106					Lucius Perreault				
98	CA02	ROS	US	BE	10/21/2022 21:12	21-10-22 21:12:19	50° 36.627 N	126° 4.739 W	194					David Spear	yes	no	no	spike and pump went off at 138 m
98	CA02	ROS	US	BO	10/21/2022 21:16	21-10-22 21:15:58	50° 36.611 N	126° 4.732 W	194	192				David Spear				oxygen minimum at150 is suspect.
98	CA02	ROS	US	EN	10/21/2022 21:19	21-10-22 21:19:17	50° 36.598 N	126° 4.725 W	194	192				David Spear				
99	CA03	NET		BE	10/21/2022 21:49	21-10-22 21:49:27	50° 37.179 N	126° 0.985 W	211					Lucius Perreault				
99	CA03	NET		BO	10/21/2022 21:56	21-10-22 21:56:27	50° 37.182 N	126° 1 W	211	201				Lucius Perreault				
99	CA03	NET		EN	10/21/2022 22:00	21-10-22 22:00:13	50° 37.181 N	126° 1.004 W	211	201				Lucius Perreault				
100	CA03	ROS	US	BE	10/21/2022 22:06	21-10-22 22:06:26	50° 37.187 N	126° 1.023 W	211		397	406	10	Lucius Perreault	yes	no	no	
100	CA03	ROS	US	BO	10/21/2022 22:13	21-10-22 22:13:28	50° 37.182 N	126° 1.034 W	211	207	397	406	10	Lucius Perreault				
100	CA03	ROS	US	EN	10/21/2022 22:22	21-10-22 22:22:18	50° 37.192 N	126° 1.03 W	211	207	397	406	10	Lucius Perreault				
101	CA03	HYPERPRO		DE	10/21/2022 22:24	21-10-22 22:24:23	50° 37.206 N	126° 1.006 W	211					Lucius Perreault				
102	CA04	ROS	US	BE	10/21/2022 23:00	21-10-22 23:00:14	50° 37.943 N	125° 57.496 W	137					Lucius Perreault	yes	no	no	
102	CA04	ROS	US	BO	10/21/2022 23:06	21-10-22 23:06:03	50° 37.948 N	125° 57.532 W	137	135				Lucius Perreault				
102	CA04	ROS	US	EN	10/21/2022 23:09	21-10-22 23:09:18	50° 37.946 N	125° 57.536 W	137	135				Lucius Perreault				last station of 2022-075

END OF CRUISE

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number:	2022-075	Contact:	Sophie Johannessen
Vessel:	Franklin	Current TSK Serial #	5333->7099
Project:	Inlets	Current RBR Serial #	79110

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Bottom Depth	Net Type	Mesh Size (µM)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Comments
				Latitude	Longitude											
13-10-22 22:43:02	CPEI	5	6	51° 0.012 N	127° 50.024 W	132	0	142	BONGO	250	VNH	54090	64825	5333		
14-10-22 14:19:24	HAK1	7	8	51° 41.921 N	128° 12.096 W	135	0	135	BONGO	236	VNH	16340	18290	7099		switched to backup (black rimmed) net
Time	RO3	14	15	52° 27.066 N	127° 54.856 W	159	0	169	BONGO	236	VNH	18290	19150	7099		
15-10-22 16:37:47	SP3	20		22 52° 27.702 N	128° 5.24 W	486	0	496	BONGO	236	VNH	19150	22110	7099		
16-10-22 15:18:53	FC1	32	31	52° 30.964 N	128° 27.756 W	774	0	782	BONGO	236	VNH	22110	26861	7099		
16-10-22 19:51:23	FC3	36	35	52° 47.88 N	128° 25.73 W	545	0	555	BONGO	236	VNH	26861	30095	7099		
17-10-22 16:16:21	DE04	45	44	52° 20.447 N	127° 28.337 W	510	0	520	BONGO	236	VNH	30095	33182	7099		missed bottom and end time stamps
17-10-22 23:34:58	DE09	52		53 52° 44.033 N	126° 57.294 W	445	0	456	BONGO	236	VNH	33182	35815	7099		
18-10-22 20:03:47	BUR08	61	62	52° 19.273 N	127° 2.528 W		499 0	509	BONGO	236	VNH	35815	38765	7099		
10/19/2022 19:09	SM02		74	73 51° 18.036 N	127° 22.282 W		465 0	475	BONGO	236	VNH	38765	40062	7099		
20-10-22 17:33:23	KN8	82	81	50° 52.255 N	125° 38.978 W	484	0	494	BONGO	236	VNH	40960	43875	7099		
20-10-22 20:53:41	Kn06	85	84	Lat	Long		514 0	524	BONGO	236	VNH	00000	03065	7099		
21-10-22 21:56:27	CA03	99	100	50° 37.182 N	126° 1 W	201	0	211	BONGO	236	VNH	03065	4260	7099		