

DAILY SCIENCE LOG BOOK

Version Jun2022

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

Mission Number:	2022-025
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Start Date: 20-Sep-22
End Date: 2-Oct-22

Vessel:	Franklin
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Project(s):	Sharing Science at Sea leg 2
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Ship Personnel:

Captain:	Dustin Flehr		
Second Officer:	Audrey L		
Fishing Master:	n/a		
Other: Bosun	Mark T		

Mission Participants (Department/Agencies):

Scientific Personnel:

Name	Role	Watch	Cabin
Stephen Page	CS		
Lucius Perreault			
Melissa Hennekes			
Tetjana Ross			
Rianna Burnham			
Lynn Lee			
Skil Jaada			
Rayne Boyko			
Tana Hopper			
Meighan Wilson			

Scientific Equipment

CTD

	Primary						Secor		
Equipment	Make	Model	Serial Number	Pump (P, S or No)	Depth Rating (m)	Comment	Make	Model	Serial Number
Data Logging Computer			NITRO 5						
Data Acquisition Program									
CTD Deck Unit			1043						
CTD			585						
Temperature Sensor									4484
Conductivity Sensor		4c	2128					4c	1764
Transmissometer			1201DA						
Fluorometer			2228			CONF file says 2225			
Fluorometer Gain Cable		10x	172221			10x			
Oxygen Sensor			1176						
Par Sensor									
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					
Sea-Bird	SBE 21	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

Additional Cruise Comments

Pictures

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2022-025
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 Test Cast
							Latitude	Longitude			Start	End						
1 SI	ROS	ROS	US	BE	9/20/2022 21:29	20-09-22 21:29:52	48° 39.475 N	123° 29.895 W	172		0	0	24	Stephen Page	yes	no	no	test cast
1 SI	ROS	ROS	US	BO	9/20/2022 21:32	20-09-22 21:32:47	48° 39.463 N	123° 29.895 W	172	166	0	0	24	Stephen Page				tripped all bottles at 9m
1 SI	ROS	ROS	US	EN	9/20/2022 21:38	20-09-22 21:38:25	48° 39.464 N	123° 29.888 W	172	166	0	0	24	Stephen Page				no samples numbers assigned
2 E01	ROS	ROS	US	BE	9/21/2022 14:37	21-09-22 14:37:04	49° 17.039 N	126° 36.786 W	104					Tetjana Ross	yes	no	no	
2 E01	ROS	ROS	US	BO	9/21/2022 14:38	21-09-22 14:38:50	49° 17.032 N	126° 36.781 W	104	99.7				Tetjana Ross				
2 E01	ROS	ROS	US	EN	9/21/2022 14:40	21-09-22 14:40:53	49° 17.034 N	126° 36.79 W	104	99.7				Tetjana Ross				
3 E03	ROS	ROS	US	BE	9/21/2022 16:29	21-09-22 16:28:59	49° 5.569 N	126° 56.022 W	400		1	5	5	Rianna Burnham	yes	no	no	
3 E03	ROS	ROS	US	BO	9/21/2022 16:36	21-09-22 16:36:43	49° 5.585 N	126° 56.078 W	400	402.8				Rianna Burnham				
3 E03	ROS	ROS	US	EN	9/21/2022 16:46	21-09-22 16:46:40	49° 5.584 N	126° 56.131 W	400					5 Rianna Burnham				
4 Scott3	ROS	ROS	US	BE	9/22/2022 14:15	22-09-22 14:15:39	50° 50.428 N	129° 28.627 W	240.7		6	21	16	Melissa Henne	yes	no	no	
4 Scott3	ROS	ROS	US	BO	9/22/2022 14:24	22-09-22 14:24:13	50° 50.388 N	129° 28.568 W	240.7	236	6	21	16	Melissa Hennekes				
4 Scott3	ROS	ROS	US	EN	9/22/2022 14:35	22-09-22 14:35:01	50° 50.394 N	129° 28.465 W	240.7	236	6	21	16	Melissa Hennekes				sample 21C taken from bottle 15, not homogenous with other SPC samples
5 Scott2	NET			BE	9/22/2022 16:31	22-09-22 16:31:13	51° 7.821 N	129° 28.581 W	290					Tetjana Ross				
5 Scott2	NET			BO	9/22/2022 16:40	22-09-22 16:40:36	51° 7.851 N	129° 28.622 W	290	280				Tetjana Ross				
5 Scott2	NET			EN	9/22/2022 16:46	22-09-22 16:46:38	51° 7.876 N	129° 28.628 W	290	280				Tetjana Ross				
6 NO EVENT#6																		
7 Scott2	ROS			BE	9/22/2022 16:51	22-09-22 16:51:34	51° 7.842 N	129° 28.631 W	290					Lucius Perreault				
7 Scott2	ROS			BO	9/22/2022 16:58	22-09-22 16:58:20	51° 7.877 N	129° 28.637 W	290	285				Lucius Perreault				number. It is labelled as 7.
7 Scott2	ROS			EN	9/22/2022 17:03	22-09-22 17:03:28	51° 7.915 N	129° 28.66 W	290	285				Lucius Perreault				
8 Hecate	DRF			DE	9/23/2022 3:30	23-09-22 03:30:08	52° 17.75 N	130° 37.769 W	170					Stephen Page				SCT=1487
9 Skidegate	ROS	US		BE	9/23/2022 16:26	23-09-22 16:26:32	53° 14.134 N	132° 3.333 W	32					Tetjana Ross	no	no	yes	
9 Skidegate	ROS	US		BO	9/23/2022 16:27	23-09-22 16:27:38	53° 14.135 N	132° 3.334 W	32	26				Tetjana Ross				
9 Skidegate	ROS	US		EN	9/23/2022 16:29	23-09-22 16:29:32	53° 14.134 N	132° 3.336 W	32	26				Tetjana Ross				
10 Skidegate	MOR			DE	9/24/2022 15:58	24-09-22 15:58:46	53° 14.114 N	132° 3.209 W	32	27				Lucius Perreault				soundtrap deployment from bongo winch to 27m
10 Skidegate	MOR			RE	9/24/2022 17:05	24-09-22 18:15:35	53° 14.1 N	132° 3.308 W	32	27				Lucius Perreault				
11 SKID1	ROS	US		BE	9/24/2022 22:42	24-09-22 22:42:35	53° 9.718 N	132° 5.26 W	50					Tetjana Ross	yes	no	no	Parks RBR attached to frame
11 SKID1	ROS	US		BO	9/24/2022 22:43	24-09-22 22:43:52	53° 9.707 N	132° 5.26 W	50	41				Tetjana Ross				

11	SKID1	ROS	US	EN	9/24/2022 22:45	24-09-22 22:45:17	53° 9.702 N	132° 5.26 W	50	41						Tetjana Ross				
12	SKID3	ROS		BE	9/25/2022 0:54	25-09-22 00:54:29	53° 14.321 N	131° 58.768 W	126											Parks RBR attached to frame
12	SKID3	ROS		BO	9/25/2022 1:01	25-09-22 01:01:19	53° 14.353 N	131° 58.693 W	126	120						Lucius Perreault				
12	SKID3	ROS		EN	9/25/2022 1:04	25-09-22 01:04:08	53° 14.363 N	131° 58.67 W	126	120						Lucius Perreault				
13	SKID3	NET		BE	9/25/2022 1:05	25-09-22 01:05:09	53° 14.361 N	131° 58.666 W	122							Lucius Perreault				
13	SKID3	NET		BO	9/25/2022 1:10	25-09-22 01:10:23	53° 14.373 N	131° 58.635 W	122	113						Lucius Perreault				
13	SKID3	NET		EN	9/25/2022 1:13	25-09-22 01:13:49	53° 14.37 N	131° 58.59 W	122	113						Lucius Perreault				
14	SKID5	ROS	US	BE	9/25/2022 2:04	25-09-22 02:04:12	53° 15.727 N	131° 50.79 W	52							Stephen Page	yes	no	no	Parks RBR attached to frame
14	SKID5	ROS	US	BO	9/25/2022 2:05	25-09-22 02:05:18	53° 15.731 N	131° 50.781 W	52	47						Stephen Page	yes			
14	SKID5	ROS	US	EN	9/25/2022 2:06	25-09-22 02:06:06	53° 15.732 N	131° 50.779 W	52	47						Stephen Page				
15	SKID4	ROS		BE	9/25/2022 2:48	25-09-22 02:48:25	53° 18.127 N	131° 55.741 W	79							Lucius Perreault				Parks RBR attached to frame
15	SKID4	ROS		BO	9/25/2022 2:55	25-09-22 02:55:18	53° 18.105 N	131° 55.797 W	78	78						Lucius Perreault				
15	SKID4	ROS		EN	9/25/2022 2:57	25-09-22 02:57:38	53° 18.104 N	131° 55.798 W	78	78						Lucius Perreault				
16	JPS1	NET		BE	9/25/2022 14:01	25-09-22 14:01:47	52° 36.34 N	131° 40.188 W	135							Lucius Perreault				
16	JPS1	NET		BO	9/25/2022 14:07	25-09-22 14:07:25	52° 36.317 N	131° 40.242 W	135	124						Lucius Perreault				
16	JPS1	NET		EN	9/25/2022 14:08	25-09-22 14:08:52	52° 36.314 N	131° 40.256 W	135	124						Lucius Perreault				
17	JPS1	ROS	US	BE	9/25/2022 14:10	25-09-22 14:09:58	52° 36.314 N	131° 40.265 W	132							Lucius Perreault				Parks RBR attached to frame
17	JPS1	ROS	US	BO	9/25/2022 14:19	25-09-22 14:19:05	52° 36.312 N	131° 40.266 W	132	126	22	35	14			Lucius Perreault				
17	JPS1	ROS	US	EN	9/25/2022 14:30	25-09-22 14:30:05	52° 36.363 N	131° 40.336 W	132	126	22	35	14			Lucius Perreault				
18	JPS2	ROS		BE	9/25/2022 15:43	25-09-22 15:43:25	52° 34.968 N	131° 37.396 W	248							Lucius Perreault				Parks RBR attached to frame
18	JPS2	ROS		BO	9/25/2022 15:51	25-09-22 15:51:44	52° 34.959 N	131° 37.404 W	248	242						Lucius Perreault				
18	JPS2	ROS		EN	9/25/2022 15:56	25-09-22 15:56:30	52° 34.975 N	131° 37.394 W	248	242						Lucius Perreault				
19	JPS2	Boat		DE	9/25/2022 16:31	25-09-22 16:30:56	52° 33.519 N	131° 33.286 W								Stephen Page				LL/SJ/LP/REB to Bischof Camp to recover Tunicate plates
20	JPS3	ROS	US	BE	9/25/2022 16:53	25-09-22 16:53:00	52° 33.27 N	131° 29.942 W	326							Stephen Page	yes	no	no	
20	JPS3	ROS	US	BO	9/25/2022 16:58	25-09-22 16:58:35	52° 33.287 N	131° 29.962 W	326	320						Stephen Page				
20	JPS3	ROS	US	EN	9/25/2022 17:03	25-09-22 17:03:55	52° 33.283 N	131° 29.902 W	326	320						Stephen Page				
21	BI2	ROS	US	BE	9/25/2022 18:01	25-09-22 18:01:17	52° 28.468 N	131° 23.954 W	127							Stephen Page	yes	no	no	
21	BI2	ROS	US	BO	9/25/2022 18:03	25-09-22 18:03:38	52° 28.47 N	131° 23.955 W	127	123						Stephen Page				
21	BI2	ROS	US	EN	9/25/2022 18:06	25-09-22 18:06:11	52° 28.476 N	131° 23.948 W	127	123						Stephen Page				
22	BI2	Boat		RE	9/25/2022 18:35	25-09-22 18:35:50	52° 31.391 N	131° 26.673 W								Stephen Page				Bischof camp crew return
23	Juan2	ROS	US	BE	9/25/2022 19:31	25-09-22 19:31:31	52° 31.399 N	131° 26.621 W	228		36	38	3			Stephen Page	yes	no	no	
23	Juan2	ROS	US	BO	9/25/2022 19:36	25-09-22 19:36:08	52° 31.4 N	131° 26.621 W	228	225	36	38	3			Stephen Page				
23	Juan2	ROS	US	EN	9/25/2022 19:42	25-09-22 19:42:51	52° 31.397 N	131° 26.615 W	228	225	36	38	3			Stephen Page				
24	JPS4	NET		BE	9/25/2022 20:15	25-09-22 20:15:41	52° 31.123 N	131° 23.615 W	366							Tetjana Ross				
24	JPS4	NET		BO	9/25/2022 20:28	25-09-22 20:28:35	52° 31.127 N	131° 23.63 W	366							Tetjana Ross				
24	JPS4	NET		BO	9/25/2022 20:28	25-09-22 20:28:44	52° 31.127 N	131° 23.629 W	366	356						Tetjana Ross				
24	JPS4	NET		EN	9/25/2022 20:34	25-09-22 20:34:41	52° 31.118 N	131° 23.621 W	366	356						Tetjana Ross				
25	JPS4	ROS	US	BE	9/25/2022 20:46	25-09-22 20:46:45	52° 31.121 N	131° 23.633 W	367		39	56	18			Tetjana Ross	yes	no	no	wrong times for start and bottom
25	JPS4	ROS	US	BO	9/25/2022 20:53	25-09-22 20:53:08	52° 31.117 N	131° 23.632 W	367	362	39	56	18			Tetjana Ross				
25	JPS4	ROS	US	EN	9/25/2022 21:08	25-09-22 21:08:56	52° 31.112 N	131° 23.625 W	367	362	39	56	18			Tetjana Ross				

26	JPS5	ROS		BE	9/25/2022 21:39	25-09-22 21:38:59	52° 31.43 N	131° 18.709 W	246						Lucius Perreault			
26	JPS5	ROS		BO	9/25/2022 21:46	25-09-22 21:46:12	52° 31.494 N	131° 18.619 W	246	236					Lucius Perreault			
26	JPS5	ROS		EN	9/25/2022 21:50	25-09-22 21:50:36	52° 31.532 N	131° 18.624 W	246	236					Lucius Perreault			
27	JPS6	ROS	US	BE	9/25/2022 22:46	25-09-22 22:46:49	52° 32.073 N	131° 10.593 W	174						Stephen Page	yes	no	no
27	JPS6	ROS	US	BO	9/25/2022 22:49	25-09-22 22:49:50	52° 32.094 N	131° 10.559 W	174	169					Stephen Page			
27	JPS6	ROS	US	EN	9/25/2022 22:52	25-09-22 22:52:49	52° 32.114 N	131° 10.533 W	174	169					Stephen Page			
28	JPS7	ROS	US	BE	9/25/2022 23:28	25-09-22 23:27:56	52° 33.853 N	131° 5.835 W	135		57	70	14	Stephen Page	yes	no	no	
28	JPS7	ROS	US	BO	9/25/2022 23:30	25-09-22 23:30:09	52° 33.854 N	131° 5.82 W	135	129	57	70	14	Stephen Page				
28	JPS7	ROS	US	EN	9/25/2022 23:39	25-09-22 23:39:49	52° 33.864 N	131° 5.746 W	135	129	57	70	14	Stephen Page				
29	JPS7	NET		BE	9/25/2022 23:44	25-09-22 23:44:27	52° 33.864 N	131° 5.738 W	133	123					Melissa Hennekes			
29	JPS7	NET		EN	9/25/2022 23:51	25-09-22 23:51:28	52° 33.843 N	131° 5.676 W	133	123					Melissa Hennekes			
30	Hotspots	MOR		DE	9/26/2022 2:17	26-09-22 02:17:44	52° 34.266 N	131° 26.217 W	32	20					Lucius Perreault			deploying ST600 hydrophone from ship overnight. At 20m.
31	Windy Bay	DRF		DE	9/26/2022 18:38	26-09-22 18:24:27	52° 42.105 N	131° 25.797 W							Rayne Boyko			Recovered approximately 5am SCT #1484
32	Windy Bay	Boat		DE	9/26/2022 18:41	26-09-22 16:30:11	52° 42.108 N	131° 25.79 W										For science crew to visit the watchman site
33	LI1	ROS	US	BE	9/26/2022 19:43	26-09-22 19:43:21	52° 43.765 N	131° 22.759 W	210		71	88	18	Stephen Page	yes	no	no	
33	LI1	ROS	US	BO	9/26/2022 19:47	26-09-22 19:47:02	52° 43.76 N	131° 22.778 W	210	207	71	88	18	Stephen Page				
33	LI1	ROS	US	EN	9/26/2022 20:00	26-09-22 20:00:02	52° 43.766 N	131° 22.776 W	210	207	71	88	18	Stephen Page				
34	LI1	NET		BE	9/26/2022 20:02	26-09-22 20:02:49	52° 43.766 N	131° 22.769 W	210	200					Stephen Page			
34	LI1	NET		BO	9/26/2022 20:09	26-09-22 20:09:25	52° 43.768 N	131° 22.741 W	210	200					Stephen Page			
34	LI1	NET		EN	9/26/2022 20:16	26-09-22 20:16:31	52° 43.821 N	131° 22.784 W	210	200					Stephen Page			
35	JPC2	ROS	US	BE	9/26/2022 21:11	26-09-22 21:11:06	52° 44.662 N	131° 32.015 W	229						Stephen Page	yes	no	no
35	JPC2	ROS	US	BO	9/26/2022 21:14	26-09-22 21:14:49	52° 44.665 N	131° 31.995 W	229	225					Stephen Page			
35	JPC2	ROS	US	EN	9/26/2022 21:19	26-09-22 21:19:12	52° 44.657 N	131° 31.976 W	229	225					Stephen Page			
36	LSK4	ROS	US	BE	9/26/2022 22:12	26-09-22 22:12:29	52° 50.523 N	131° 22.994 W	178							yes	no	no
36	LSK4	ROS	US	BO	9/26/2022 22:19	26-09-22 22:19:34	52° 50.507 N	131° 22.987 W	178	172					Lucius Perreault			
36	LSK4	ROS	US	EN	9/26/2022 22:23	26-09-22 22:23:24	52° 50.504 N	131° 22.986 W	178	172					Lucius Perreault			
37	LSK4	ROS	US	BE	9/26/2022 22:24	26-09-22 22:24:49	52° 50.503 N	131° 22.986 W	178						Lucius Perreault	yes	no	no
37	LSK4	ROS	US	BO	9/26/2022 22:30	26-09-22 22:30:40	52° 50.496 N	131° 22.967 W	178	172					Lucius Perreault			
37	LSK4	ROS	US	EN	9/26/2022 22:34	26-09-22 22:34:12	52° 50.493 N	131° 22.95 W	178	172					Lucius Perreault			redo, got a odd interruption where the pump turned off and the o2 sensor went wild. might be the UHF radio
38	LSK1	ROS	US	BE	9/26/2022 23:24	26-09-22 23:23:59	52° 49.526 N	131° 30.594 W	156		89	103	15	Lynn Lee	no	no	yes	
38	LSK1	ROS	US	BO	9/26/2022 23:26	26-09-22 23:26:44	52° 49.524 N	131° 30.591 W	156	146.6	89	103	15	Lynn Lee				
38	LSK1	ROS	US	EN	9/26/2022 23:38	26-09-22 23:38:53	52° 49.517 N	131° 30.585 W	156	146.6	89	103	15	Lynn Lee				
39	LSK1	NET		BE	9/26/2022 23:41	26-09-22 23:41:19	52° 49.518 N	131° 30.583 W	144	132					Melissa Hennekes			
39	LSK1	NET		BO	9/26/2022 23:46	26-09-22 23:46:10	52° 49.521 N	131° 30.579 W	144	132					Melissa Hennekes			

39	LSK1	NET		EN	9/26/2022 23:49	26-09-22 23:49:23	52° 49.52 N	131° 30.578 W	144	134	Melissa Hennekes					
40	JPN1	ROS	US	BE	9/27/2022 2:02	27-09-22 02:02:08	52° 39.079 N	131° 40.462 W	70		Stephen Page	yes	no	no		
40	JPN1	ROS	US	BO	9/27/2022 2:03	27-09-22 02:03:24	52° 39.079 N	131° 40.462 W	70	60	Stephen Page					
40	JPN1	ROS	US	EN	9/27/2022 2:04	27-09-22 02:04:22	52° 39.078 N	131° 40.462 W	70		Stephen Page					
41	JPC2	DRF		DE	9/26/2022 21:06	9/26/2022 21:06					Rayne Boyko			SCT#1481		
42	JPN2	ROS	US	BE	9/27/2022 2:55	27-09-22 02:55:04	52° 42.056 N	131° 44.749 W	119		Lucius Perreal	yes	no	no		
42	JPN2	ROS	US	BO	9/27/2022 3:01	27-09-22 03:01:18	52° 42.073 N	131° 44.77 W	119	122	Lucius Perreault					
42	JPN2	ROS	US	EN	9/27/2022 3:04	27-09-22 03:04:27	52° 42.079 N	131° 44.758 W	119	122	Lucius Perreault					
43	JPN3	NET		BE	9/27/2022 3:34	27-09-22 03:34:50	52° 44.35 N	131° 47.622 W	140	130	Lucius Perreault					
43	JPN3	NET		BO	9/27/2022 3:34	27-09-22 03:34:54	52° 44.35 N	131° 47.622 W	140	130	Lucius Perreault					
43	JPN3	NET		EN	9/27/2022 3:37	27-09-22 03:37:36	52° 44.353 N	131° 47.626 W	140	130	Lucius Perreault					
44	JPN3	ROS	US	BE	9/27/2022 3:42	27-09-22 03:42:04	52° 44.333 N	131° 47.639 W	152	104	112	Lucius Perreal	yes	no	no	
44	JPN3	ROS	US	BO	9/27/2022 3:49	27-09-22 03:49:10	52° 44.344 N	131° 47.628 W	152	154	104	112	Lucius Perreault			
44	JPN3	ROS	US	EN	9/27/2022 3:58	27-09-22 03:58:50	52° 44.394 N	131° 47.652 W	152	154	104	112	9 Lucius Perreault			
45	JPN4	ROS	US	BE	9/27/2022 4:39	27-09-22 04:39:19	52° 46.689 N	131° 43.088 W	199		Lucius Perreal	yes	no	no		
45	JPN4	ROS	US	BO	9/27/2022 4:46	27-09-22 04:46:42	52° 46.662 N	131° 43.054 W	199	194	Lucius Perreault					
45	JPN4	ROS	US	EN	9/27/2022 4:50	27-09-22 04:50:35	52° 46.642 N	131° 43.07 W	199	194	Lucius Perreault					
46	HSC3	DRF		DE	9/27/2022 21:40	27-09-22 21:30:08	52° 5.688 N	131° 10.781 W	42		Rayne Boyko					
47	HSC3	ROS	US	BE	9/28/2022 1:17	28-09-22 01:17:44	52° 5.626 N	131° 10.717 W	42		Tetjana Ross	yes	no	no		
47	HSC3	ROS	US	BO	9/28/2022 1:18	28-09-22 01:18:45	52° 5.63 N	131° 10.717 W	42	40	Tetjana Ross					
47	HSC3	ROS	US	EN	9/28/2022 1:19	28-09-22 01:19:54	52° 5.63 N	131° 10.72 W	42	40	Tetjana Ross					
48	HSC3	Hydrophone		DE	9/28/2022 1:33	28-09-22 01:33:14	52° 5.634 N	131° 10.737 W	42	40	Rianna Burnham			hydrophone deployed on starboard side hanging at 20 m rhib to SGang Gwaay for Science and CCG crew.		
49	HSC3	Boat		DE	9/28/2022 2:59	28-09-22 02:59:27	52° 5.634 N	131° 10.751 W			Stephen Page			Afternoon trips		
50	HSC3	Hydrophone		RE	9/29/2022 13:40	29-09-22 13:40:26	52° 5.634 N	131° 10.737 W	42	40	Rianna Burnham			hydrophone deployed on starboard side hanging at 20 m		
51	HG8A	ROS	US	BE	9/28/2022 15:01	28-09-22 15:01:07	52° 6.138 N	131° 17.904 W	153		Stephen Page	yes	no	no		
51	HG8A	ROS	US	BO	9/28/2022 15:03	28-09-22 15:03:47	52° 6.114 N	131° 17.887 W	153	147	Stephen Page					
51	HG8A	ROS	US	EN	9/28/2022 15:06	28-09-22 15:06:18	52° 6.103 N	131° 17.885 W	153	147	Stephen Page					
52	HG7	ROS	US	BE	9/28/2022 15:57	28-09-22 15:56:57	52° 3.601 N	131° 28.894 W	820		Lucius Perreal	no	no	yes		
52	HG7	ROS	US	BO	9/28/2022 16:16	28-09-22 16:16:06	52° 3.645 N	131° 29.001 W	820	826	Lucius Perreault					
52	HG7	ROS	US	EN	9/28/2022 16:30	28-09-22 16:30:22	52° 3.665 N	131° 29.075 W	820	826	Lucius Perreault					
53	HG9	ROS	US	BE	9/28/2022 17:21	28-09-22 17:21:06	52° 0.721 N	131° 38.292 W	1203		Lucius Perreal	yes	no	no		
53	HG9	ROS	US	BO	9/28/2022 17:44	28-09-22 17:44:20	52° 0.848 N	131° 38.423 W	1203	1225	Lucius Perreault					
53	HG9	ROS	US	EN	9/28/2022 18:06	28-09-22 18:06:52	52° 0.928 N	131° 38.401 W	1203	1225	Lucius Perreault					
54	GOWG2	DRF		DE	9/28/2022 21:00	28-09-22 21:00:27	52° 24.461 N	131° 56.256 W	2086	1000	Tetjana Ross			Marvin glider deployment. LP in boat, TR on ship piloting		
ship lost engine control at GOWG2 during glider deployment. Drifted around until 01h00 when one engine came back online. Ship headed out more to sea so that eng room could work on restoring controls.																

55		DRF		DE	9/29/2022 1:51	29-09-22 01:51:19	52° 29.756 N	132° 10.225 W					Lucius Perreault				Argo float deployment	
56	GOWG2	DRF		DE	9/29/2022 2:00	29-09-22 02:00:03	52° 29.742 N	132° 10.776 W	1984				Skil Jaada				1488	
57		Boat		DE	9/29/2022 19:32	29-09-22 19:32:32	53° 7.962 N	132° 25.369 W					Stephen Page				CHN and GH staff (SJ, RB, MB, TH) disembark on the Haida	
58	SKID	Anch	ROS	US	BE	9/29/2022 20:06	29-09-22 20:06:17	53° 7.946 N	132° 25.339 W	73			Tetjana Ross	yes	no	no	Style water taxi from Skidegate Channel (west) to Skidegate	
58	SKID	Anch	ROS	US	BO	9/29/2022 20:09	29-09-22 20:09:39	53° 7.96 N	132° 25.34 W	73	71		Tetjana Ross					
58	SKID	Anch	ROS	US	EN	9/29/2022 20:11	29-09-22 20:11:09	53° 7.959 N	132° 25.341 W	73	71		Tetjana Ross					
59	HG3	ROS	US	BE		9/30/2022 1:36	30-09-22 01:36:16	52° 39.103 N	132° 27.176 W	1913		113	136	24	Stephen Page	yes	no	no
59	HG3	ROS	US	BO		9/30/2022 2:09	30-09-22 02:09:16	52° 39.065 N	132° 27.162 W	1913	1916	113	136	24	Stephen Page			
59	HG3	ROS	US	EN		9/30/2022 2:58	30-09-22 02:58:45	52° 39.159 N	132° 27.226 W	1913	1916	113	136	24	Stephen Page			
60	HG3	NET		BE		9/30/2022 3:08	30-09-22 03:08:08	52° 39.14 N	132° 27.405 W	1912				Melissa Hennekes			deep net for council of Haida Nation colleagues	
60	HG3	NET		BO		9/30/2022 3:40	30-09-22 03:40:32	52° 39.142 N	132° 27.411 W	1912	1902			Melissa Hennekes				
60	HG3	NET		EN		9/30/2022 4:16	30-09-22 04:16:27	52° 39.184 N	132° 27.386 W	1912	1902			Melissa Hennekes				
61	HG3	DRF		DE		9/30/2022 4:20	30-09-22 04:20:46	52° 39.179 N	132° 27.377 W	1912							SCT 1490	
62	GOWG3	ROS	US	BE		9/30/2022 6:43	30-09-22 06:43:10	52° 22.792 N	132° 3.773 W	2024				Lucius Perreault	yes	no	no	
62	GOWG3	ROS	US	BO		9/30/2022 7:21	30-09-22 07:21:11	52° 22.801 N	132° 3.667 W	2024	2036			Lucius Perreault				
62	GOWG3	ROS	US	EN		9/30/2022 7:56	30-09-22 07:56:18	52° 22.782 N	132° 3.631 W	2024	2036			Lucius Perreault				
63	GOWG3	DRF		DE		9/30/2022 7:58	30-09-22 07:58:50	52° 22.779 N	132° 3.624 W	2024	2036			Lucius Perreault				
64	MS08B	ROS	US	BE		9/30/2022 16:25	30-09-22 16:25:05	51° 23.977 N	130° 41.996 W	2007		137	159	23	Tetjana Ross	yes	no	no
64	MS08B	ROS	US	BO		9/30/2022 16:59	30-09-22 16:59:49	51° 23.931 N	130° 41.857 W	2007	2014	137	159	23	Tetjana Ross			
64	MS08B	ROS	US	EN		9/30/2022 17:53	30-09-22 17:53:43	51° 23.748 N	130° 41.466 W	2007	2014	137	159	23	Tetjana Ross			
65	MS08B	NET		BE		9/30/2022 17:57	30-09-22 17:57:06	51° 23.751 N	130° 41.404 W	2005				Lucius Perreault				
65	MS08B	NET		BO		9/30/2022 18:33	30-09-22 18:33:41	51° 23.548 N	130° 41.09 W	2005	1995			Lucius Perreault				
65	MS08B	NET		EN		9/30/2022 19:06	30-09-22 19:06:09	51° 23.548 N	130° 41.09 W	2005	1995			Lucius Perreault				
66		DRF		DE		9/30/2022 20:29	30-09-22 20:29:14	51° 15.56 N	130° 27.824 W					Stephen Page			SCT#1485	

END OF CRUISE

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number:	2022-025	Contact:	S.Page
Vessel:	Franklin	Current TSK Serial #	4966
Project:	Pseudo sharing science at sea	Current RBR Serial #	79081

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											
22-09-22 16:40:36	Scott3	5	7	51° 7.851 N	129° 28.622 W	280	0-5	290	BONGO	236	VNH	94062	95933	4966	79081	
25-09-22 01:13:49	SKID3		13	53° 14.37 N	131° 58.59 W		113		122 BONGO	236	VNH		95960	4966	79081	
25-09-22 14:07:25	JPS1	17	17	52° 36.317 N	131° 40.242 W	124	0	135	BONGO	236	VNH	95960				
25-09-22 20:28:44	JPS4	24	25	52° 31.127 N	131° 23.629 W	356	0	366	BONGO	236	VNH	95960		97078	4966	79081
9/25/2022 23:51	JPS7	30	28	52° 33.843 N	131° 5.676 W	123		133	BONGO	236	VNH	97078	98823	4966	79081	
26-09-22 20:09:25	LI1	35	33	52° 43.768 N	131° 22.741 W	200		210	BONGO	236	VNH	98823	98826	4966	79081	flow meter no worky
27-09-22 03:34:54	JPN3	44	44	52° 44.35 N	131° 47.622 W	130	5	152	BONGO	236	VNH	660		4966	79081	
30-09-22 03:40:32	HG3	62	59	52° 39.142 N	132° 27.411 W		1902 0		1912 BONGO	236	VNH	00470		4966	79081	sample for Council of Haida Nation
30-09-22 18:33:41	MS08B	65	64	51° 23.548 N	130° 41.09 W	1995	0	2005	BONGO	236	VNH	11095		25390	4966	79081