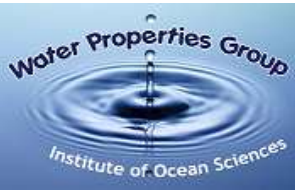


DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2024-032
Vessel: Franklin

Launch Daily
Science Log

Print Daily Science
Log WorkBook

Vessel:			Franklin		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						
1	Saanich	ROS	US	BE	21-02-2024 22:50:09	21-02-2024 22:50:04	48 36.735 N	123 30.098 W	220	210			1 Steve Romaine	yes	no	no	fire all bottles for test bottles 2 and 24 did not fire	
1	Saanich	ROS	US	BO	21-02-2024 22:54:04	21-02-2024 22:53:59	48 36.731 N	123 30.087 W	220	210			1 Steve Romaine					
1	Saanich	ROS	US	EN	21-02-2024 22:59:07	21-02-2024 22:59:05	48 36.731 N	123 30.084 W		210			1 Steve Romaine					
2	SC-04	NET		BE	22-02-2024 04:29:19	22-02-2024 04:29:15	48 43.534 N	123 24.839 W	80	70			Julian Smith	NA	NA			
2	SC-04	NET		BO	22-02-2024 04:31:45	22-02-2024 04:31:43	48 43.532 N	123 24.825 W		70			Julian Smith					
2	SC-04	NET		EN	22-02-2024 04:33:01	22-02-2024 04:32:58	48 43.528 N	123 24.819 W	78	70			Julian Smith					
3	SC-04	ROS	US	BE	22-02-2024 05:07:04	22-02-2024 05:07:00	48 43.451 N	123 24.749 W	77		1	1	1 Steve Romaine	yes	no	no		
3	SC-04	ROS	US	BO	22-02-2024 05:09:20	22-02-2024 05:09:16	48 43.445 N	123 24.755 W	77	68	1	1	1 Steve Romaine					
3	SC-04	ROS	US	EN	22-02-2024 05:12:24	22-02-2024 05:12:20	48 43.419 N	123 24.746 W		68	1	1	1 Steve Romaine					
4	GI-01	ROS	N/A	BE	22-02-2024 05:59:15	22-02-2024 05:59:13	48 45.801 N	123 20.454 W	63				Steve Romaine	yes	no	no		
4	GI-01	ROS	N/A	BO	22-02-2024 06:00:31	22-02-2024 06:00:29	48 45.798 N	123 20.441 W	63	56			Steve Romaine					
4	GI-01	ROS	N/A	EN	22-02-2024 06:01:48	22-02-2024 06:01:46	48 45.799 N	123 20.438 W		56			Steve Romaine					
5	GI-01	NET		BE	22-02-2024 06:08:18	22-02-2024 06:08:14	48 45.754 N	123 20.445 W	63				Julian Smith	NA	NA			
5	GI-01	NET		EN	22-02-2024 06:11:06	22-02-2024 06:11:01	48 45.735 N	123 20.472 W					Julian Smith					
6	59	NET		BE	22-02-2024 07:49:12	22-02-2024 07:49:10	48 36.952 N	123 14.956 W	233	223			Julian Smith	NA	NA			
6	59	NET		BO	22-02-2024 07:57:05	22-02-2024 07:57:01	48 37.127 N	123 14.938 W	223	213			Julian Smith					
6	59	NET		EN	22-02-2024 08:00:48	22-02-2024 08:00:45	48 37.257 N	123 14.932 W		213			Julian Smith					
7	59	ROS	US	BE	22-02-2024 08:17:11	22-02-2024 08:17:10	48 37.028 N	123 14.985 W	231		2	4	3 Steve Romaine	yes	no	no		
7	59	ROS	US	BO	22-02-2024 08:21:01	22-02-2024 08:20:59	48 37.109 N	123 14.978 W	221	212	2	4	3 Steve Romaine					
7	59	ROS	US	EN	22-02-2024 08:30:04	22-02-2024 08:29:58	48 37.428 N	123 14.975 W		212	2	4	3 Steve Romaine					
8	56	ROS	US	BE	22-02-2024 09:57:56	22-02-2024 09:57:52	48 46.582 N	123 1.3 W	212		5	7	3 Steve Romaine	yes	no	no		
8	56	ROS	US	BO	22-02-2024 10:01:42	22-02-2024 10:01:40	48 46.68 N	123 1.175 W	189	187	5	7	3 Steve Romaine					
8	56	ROS	US	EN	22-02-2024 10:08:36	22-02-2024 10:08:34	48 46.889 N	123 0.88 W		187	5	7	3 Steve Romaine					
9	46	NET		BE	22-02-2024 11:10:54	22-02-2024 11:10:52	48 51.324 N	123 10.899 W	185	175			Julian Smith	NA	NA			
9	46	NET		BO	22-02-2024 11:16:54	22-02-2024 11:16:50	48 51.364 N	123 10.986 W		175			Julian Smith					
9	46	NET		EN	22-02-2024 11:19:46	22-02-2024 11:19:41	48 51.379 N	123 11.025 W		175			Julian Smith					
10	46	ROS	US	BE	22-02-2024 11:30:06	22-02-2024 11:30:03	48 51.41 N	123 10.782 W	177		8	10	3 Steve Romaine	yes	no	no		
10	46	ROS	US	BO	22-02-2024 11:33:17	22-02-2024 11:33:13	48 51.436 N	123 10.81 W	175	169	8	10	3 Steve Romaine					
10	46	ROS	US	EN	22-02-2024 11:40:15	22-02-2024 11:40:12	48 51.48 N	123 10.873 W		169	8	10	3 Steve Romaine					
11	MPS01	NET		BE	22-02-2024 18:52:16	22-02-2024 18:52:12	48 57.235 N	123 22.799 W	206	185			Kelly Young	NA	NA		net 1 open 0-185m 62m3. horizontal ship speed ~1.5kn, winch 30m/s	
11	MPS01	NET		BO	22-02-2024 19:01:38	22-02-2024 19:01:36	48 57.082 N	123 22.518 W		185			Kelly Young				net 2 open 185-150m 8m3	
11	MPS01	NET		BO	22-02-2024 19:03:22	22-02-2024 19:03:21	48 57.052 N	123 22.486 W		150			Kelly Young				net3 open 150-100m 14m3	
11	MPS01	NET		BO	22-02-2024 19:06:23	22-02-2024 19:06:20	48 57.016 N	123 22.409 W		100			Kelly Young				net4 open 100-50m 31m3	

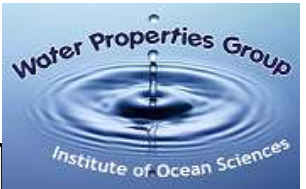
DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2024-032
Vessel: Franklin

Launch Daily
Science Log

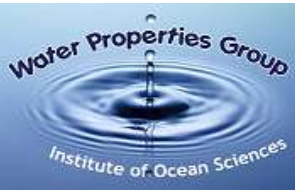
Print Daily Science
Log WorkBook



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	
11	MPS01	NET		BO	22-02-2024 19:10:08	22-02-2024 19:10:05	48 56.963 N	123 22.314 W		50				Kelly Young				net5 open 50-0m 28m3
11	MPS01	NET		EN	22-02-2024 19:13:35	22-02-2024 19:13:32	48 56.912 N	123 22.223 W		0				Kelly Young				
12	MPS02	NET		BE	23-02-2024 00:24:51	23-02-2024 00:24:49	49 6.835 N	123 29.746 W	350	320				Kelly Young	NA	NA		HMPS
12	MPS02	NET		BO	23-02-2024 00:49:00					320				Kelly Young				Correct net 1 time; check loc
12	MPS02	NET		BO	23-02-2024 00:53:26	23-02-2024 00:53:24	49 7.066 N	123 29.063 W		200				Kelly Young				
12	MPS02	NET		BO	23-02-2024 00:59:44	23-02-2024 00:59:41	49 7.075 N	123 28.944 W		100				Kelly Young				
12	MPS02	NET		BO	23-02-2024 01:04:23	23-02-2024 01:04:19	49 7.09 N	123 28.874 W		50				Kelly Young				
12	MPS02	NET		EN	23-02-2024 01:07:03	23-02-2024 01:07:00	49 7.093 N	123 28.82 W		0				Kelly Young				
13	GEO1	NET		BE	23-02-2024 04:08:18	23-02-2024 04:08:16	49 14.963 N	123 44.956 W	399					Julian Smith	NA	NA		
13	GEO1	NET		BO	23-02-2024 04:21:59	23-02-2024 04:21:57	49 14.943 N	123 44.912 W	399	389				Julian Smith				
13	GEO1	NET		EN	23-02-2024 04:29:28	23-02-2024 04:29:25	49 14.922 N	123 44.892 W		389				Julian Smith				
14	GEO1	ROS	US	BE	23-02-2024 04:39:00	23-02-2024 04:38:58	49 14.906 N	123 44.905 W	398		11	18	8	Steve Romaine	yes	no	no	
14	GEO1	ROS	US	BO	23-02-2024 04:45:53	23-02-2024 04:45:51	49 14.882 N	123 44.895 W	398	391	11	18	8	Steve Romaine				
14	GEO1	ROS	US	EN	23-02-2024 05:06:17	23-02-2024 05:06:15	49 14.777 N	123 44.804 W		391	11	18	8	Steve Romaine				
15	42	NET		BE	23-02-2024 07:08:07	23-02-2024 07:08:05	49 01.814 N	123 36.44 W	316	306				Julian Smith	NA	NA		
15	42	NET		BO	23-02-2024 07:18:18	23-02-2024 07:18:16	49 01.788 N	123 26.618 W	319	306				Julian Smith				
15	42	NET		EN	23-02-2024 07:23:50	23-02-2024 07:23:47	49 01.806 N	123 26.691 W		306				Julian Smith				
16	42	ROS	US	BE	23-02-2024 07:35:50	23-02-2024 07:35:48	49 01.793 N	123 26.863 W	323		19	25	7	Steve Romaine	yes	no	no	
16	42	ROS	US	BO	23-02-2024 07:41:54	23-02-2024 07:41:51	49 01.78 N	123 26.954 W	324	318	19	25	7	Steve Romaine				
16	42	ROS	US	EN	23-02-2024 07:58:57	23-02-2024 07:58:56	49 01.738 N	123 27.223 W		318	19	25	7	Steve Romaine				
17	38	ROS	N/A	BE	23-02-2024 09:26:48	23-02-2024 09:26:47	49 12.047 N	123 26.432 W	304					Steve Romaine	yes	no	no	
17	38	ROS	N/A	BO	23-02-2024 09:32:04	23-02-2024 09:32:03	49 12.096 N	123 26.428 W	300	294				Steve Romaine				
17	38	ROS	N/A	EN	23-02-2024 09:37:10	23-02-2024 09:37:07	49 12.13 N	123 26.405 W		294				Steve Romaine				
18	38	NET		BE	23-02-2024 09:44:37	23-02-2024 09:44:34	49 12.173 N	123 26.374 W	302					Julian Smith	NA	NA		
18	38	NET		BO	23-02-2024 09:54:31	23-02-2024 09:54:28	49 12.214 N	123 26.298 W	298	290				Julian Smith				
18	38	NET		EN	23-02-2024 09:59:51	23-02-2024 09:59:49	49 12.239 N	123 26.239 W		290				Julian Smith				
19	39	ROS	US	BE	23-02-2024 10:40:01	23-02-2024 10:39:58	49 09.902 N	123 32.998 W	373		26	28	3	Steve Romaine	yes	no	no	
19	39	ROS	US	BO	23-02-2024 10:46:41	23-02-2024 10:46:38	49 09.997 N	123 33.007 W		365	26	28	3	Steve Romaine				
19	39	ROS	N/A	EN	23-02-2024 10:56:41	23-02-2024 10:56:38	49 10.15 N	123 33.082 W						Steve Romaine				label rosette sheet crashed
20	40	NET		BE	23-02-2024 11:23:18	23-02-2024 11:23:16	49 08.567 N	123 36.804 W	153	143				Julian Smith	NA	NA		
20	40	NET		BO	23-02-2024 11:27:59	23-02-2024 11:27:57	49 08.607 N	123 36.825 W		143				Julian Smith				
20	40	NET		EN	23-02-2024 11:30:26	23-02-2024 11:30:24	49 08.642 N	123 36.819 W		143				Julian Smith				
21	40	ROS	N/A	BE	23-02-2024 11:53:56	23-02-2024 11:53:53	49 08.738 N	123 36.915 W	155					Steve Romaine	yes	no	no	
21	40	ROS	N/A	BO	23-02-2024 11:56:46	23-02-2024 11:56:44	49 08.749 N	123 36.934 W	159	151				Steve Romaine				
21	40	ROS	N/A	EN	23-02-2024 11:59:33	23-02-2024 11:59:30	49 08.769 N	123 36.924 W		151				Steve Romaine				

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2024-032
Vessel: Franklin

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	
22	MPS03	NET		BE	23-02-2024 19:38:41	23-02-2024 19:38:40	49 15.358 N	123 38.961 W	378	360				Kelly Young	NA	NA		Confirm max pressure
22	MPS03	NET		BO	23-02-2024 19:55:30				378					Kelly Young				NMEA feed timeout error
22	MPS03	NET		BO	23-02-2024 20:02:37	23-02-2024 20:02:34	49 15.269 N	123 39.837 W						Kelly Young				
22	MPS03	NET		BO	23-02-2024 20:11:31	23-02-2024 20:11:29	49 15.236 N	123 40.161 W						Kelly Young				
22	MPS03	NET		BO	23-02-2024 20:20:25	23-02-2024 20:20:22	49 15.214 N	123 40.482 W	387					Kelly Young				
22	MPS03	NET		EN	23-02-2024 20:24:33									Kelly Young				NMEA feed timeout error
23	Tucker1	NET		BE	24-02-2024 02:23:18	24-02-2024 02:23:16	49 17.97 N	123 58.93 W	414					Kelly Young	NA	NA		
23	Tucker1	NET		BO	24-02-2024 02:40:58	24-02-2024 02:40:55	49 18.321 N	123 58.302 W	414	400				Kelly Young				
23	Tucker1	NET		EN	24-02-2024 02:58:32	24-02-2024 02:58:29	49 18.684 N	123 57.712 W		400				Kelly Young				
24	27	ROS	US	BE	24-02-2024 03:58:40	24-02-2024 03:58:36	49 19.181 N	123 48.039 W	344		29	31	3	Julian Smith	yes	no	no	
24	27	ROS	US	BO	24-02-2024 04:04:48	24-02-2024 04:04:45	49 19.236 N	123 48.026 W	354	344	29	31	3	Julian Smith				
24	27	ROS	US	EN	24-02-2024 04:14:55	24-02-2024 04:14:52	49 19.333 N	123 48.032 W	362	344	29	31	3	Julian Smith				
25	28	ROS	N/A	BE	24-02-2024 05:03:21	24-02-2024 05:03:19	49 24.033 N	123 45.298 W	132					Steve Romaine	yes	no	no	
25	28	ROS	N/A	BO	24-02-2024 05:05:58	24-02-2024 05:05:56	49 24.041 N	123 45.292 W		124				Steve Romaine				
25	28	ROS	N/A	EN	24-02-2024 05:08:24	24-02-2024 05:08:21	49 24.047 N	123 45.288 W	132	124				Steve Romaine				
26	28	NET		BE	24-02-2024 05:14:48	24-02-2024 05:14:46	49 24.052 N	123 45.28 W	132					Julian Smith	NA	NA		
26	28	NET		BO	24-02-2024 05:19:28	24-02-2024 05:19:26	49 24.06 N	123 45.248 W	132	122				Julian Smith				
26	28	NET		EN	24-02-2024 05:21:11	24-02-2024 05:21:08	49 24.065 N	123 45.24 W		122				Julian Smith				
27	24	NET		BE	24-02-2024 07:16:25	24-02-2024 07:16:22	49 30.34 N	124 6.013 W	421	412				Julian Smith	NA	NA		
27	24	NET		BO	24-02-2024 07:30:49	24-02-2024 07:30:46	49 30.323 N	124 5.979 W	421	412				Julian Smith				
27	24	NET		EN	24-02-2024 07:37:41	24-02-2024 07:37:39	49 30.326 N	124 5.973 W		412				Julian Smith				
28	24	ROS	N/A	BE	24-02-2024 07:51:40	24-02-2024 07:51:38	49 30.302 N	124 5.996 W						Steve Romaine	yes	NA	no	
28	24	ROS	N/A	BO	24-02-2024 07:58:55	24-02-2024 07:58:52	49 30.277 N	124 6.015 W	421	415				Steve Romaine				
28	24	ROS	N/A	EN	24-02-2024 08:06:12	24-02-2024 08:06:10	49 30.328 N	124 6.02 W		415				Steve Romaine				
29	2	ROS	US	BE	24-02-2024 09:00:10	24-02-2024 09:00:08	49 24.156 N	124 9.371 W	275		32	34	3	Steve Romaine	yes	no	no	
29	2	ROS	US	BO	24-02-2024 09:04:59	24-02-2024 09:04:56	49 24.144 N	124 9.38 W	272	265	32	34	3	Steve Romaine				
29	2	ROS	US	EN	24-02-2024 09:13:29	24-02-2024 09:13:26	49 24.089 N	124 9.361 W		265	32	34	3	Steve Romaine				
30	CPF1	NET		BE	24-02-2024 09:52:32	24-02-2024 09:52:30	49 22.007 N	124 5.171 W		232				Julian Smith	NA	NA		
30	CPF1	NET		BO	24-02-2024 10:01:06	24-02-2024 10:01:04	49 22.009 N	124 5.219 W	243	232				Julian Smith				
30	CPF1	NET		EN	24-02-2024 10:04:56	24-02-2024 10:04:53	49 22.006 N	124 5.24 W		232				Julian Smith				
31	CPF1	ROS	N/A	BE	24-02-2024 10:15:30	24-02-2024 10:15:27	49 21.981 N	124 5.299 W	246					Steve Romaine	yes	no	no	
31	CPF1	ROS	N/A	BO	24-02-2024 10:19:47	24-02-2024 10:19:45	49 21.965 N	124 5.33 W	252	245				Steve Romaine				
31	CPF1	ROS	N/A	EN	24-02-2024 10:24:05	24-02-2024 10:24:02	49 21.948 N	124 5.363 W		245				Steve Romaine				
32	MPS04	NET		BE	24-02-2024 19:52:16	24-02-2024 19:52:13	49 23.077 N	124 17.242 W	352	325				Kelly Young	NA	NA		net 1 open 0-325m. Picked 10 euppa-s3 for Cat

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

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Launch Daily
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Print Daily Science
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Vessel:			Franklin		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							
32	MPS04	NET		BO	24-02-2024 20:16:25	24-02-2024 20:16:22	49 23.393 N	124 16.443 W		325				Kelly Young				net 2 open 325-250	
32	MPS04	NET		BO	24-02-2024 20:21:03	24-02-2024 20:21:01	49 23.447 N	124 16.283 W		250				Kelly Young				net 3 open 250-150m	
																		net 4 open 150-50m. Layer of euphausiids and chaetognaths. Picked 5 euppa-s3, 4 Thylo-s3 for Cat	
32	MPS04	NET		BO	24-02-2024 20:30:08	24-02-2024 20:30:05	49 23.56 N	124 15.994 W		150				Kelly Young				net 5 open 50-0m	
32	MPS04	NET		BO	24-02-2024 20:38:36	24-02-2024 20:38:33	49 23.673 N	124 15.711 W		50				Kelly Young					
32	MPS04	NET		EN	24-02-2024 20:41:17	24-02-2024 20:41:14	49 23.708 N	124 15.63 W		0				Kelly Young					
33	MPS05	NET		BE	25-02-2024 01:57:02	25-02-2024 01:56:59	49 26.577 N	124 20.117 W	321	300				Kelly Young	NA	NA			
																		Net 1 closed ~5 min before this; Start stop times and lats longs incorrect - correct with written logs	
33	MPS05	NET		BO	25-02-2024 02:18:38	25-02-2024 02:18:35	49 26.445 N	124 19.422 W		300				Kelly Young				Start stop times and lats longs incorrect - correct with written logs	
																		Check times and lats longs - may be incorrect	
33	MPS05	NET		BO	25-02-2024 02:21:57	25-02-2024 02:21:54	49 26.423 N	124 19.31 W		250				Kelly Young				Check times and lats longs - may be incorrect	
33	MPS05	NET		BO	25-02-2024 02:25:36	25-02-2024 02:25:33	49 26.4 N	124 19.189 W		150				Kelly Young				Check times and lats longs - may be incorrect	
33	MPS05	NET		BO	25-02-2024 02:33:17	25-02-2024 02:33:13	49 26.354 N	124 18.941 W		50				Kelly Young				Check times and lats longs - may be incorrect	
33	MPS05	NET		EN	25-02-2024 02:36:21	25-02-2024 02:36:19	49 26.335 N	124 18.841 W		50				Kelly Young					
34	3 NET			BE	25-02-2024 03:08:41	25-02-2024 03:08:38	49 26.631 N	124 20.243 W	321	312				Julian Smith	NA	NA			
34	3 NET			BO	25-02-2024 03:19:55	25-02-2024 03:19:52	49 26.661 N	124 20.252 W		312				Julian Smith					
34	3 NET			EN	25-02-2024 03:25:37	25-02-2024 03:25:35	49 26.679 N	124 20.273 W	319	312				Julian Smith					
35	3 ROS	US	BE		25-02-2024 03:36:56	25-02-2024 03:36:53	49 26.705 N	124 20.358 W	318		35	37	3	Steve Romaine	yes	no	no		
35	3 ROS	US	BO		25-02-2024 03:42:41	25-02-2024 03:42:39	49 26.712 N	124 20.377 W		311	35	37	3	Steve Romaine					
36	3 ROS	N/A	EN		25-02-2024 03:54:04	25-02-2024 03:54:01	49 26.736 N	124 20.485 W											
37	CPF2	NET		BE	25-02-2024 04:53:59				324	314				Julian Smith	NA	NA			
37	CPF2	NET		BE	25-02-2024 04:54:16	25-02-2024 04:54:14	49 28.022 N	124 30.037 W		314				Julian Smith	NA	NA			
37	CPF2	NET		BO	25-02-2024 05:06:40	25-02-2024 05:06:37	49 28.011 N	124 29.967 W	323	314				Julian Smith					
38	CPF2	ROS	N/A	BE	25-02-2024 05:30:00	25-02-2024 05:29:57	49 28.084 N	124 30.04 W	322					Steve Romaine	yes	no	no		
38	CPF2	ROS	N/A	BO	25-02-2024 05:35:39	25-02-2024 05:35:36	49 28.08 N	124 30.019 W	321	314				Steve Romaine					
38	CPF2	ROS	N/A	EN	25-02-2024 05:41:20	25-02-2024 05:41:18	49 28.086 N	124 30.017 W		314				Steve Romaine					
39	6 ROS	US	BE		25-02-2024 06:27:47	25-02-2024 06:27:44	49 30.62 N	124 27.872 W	188		38	40	3	Steve Romaine	yes	no	no		

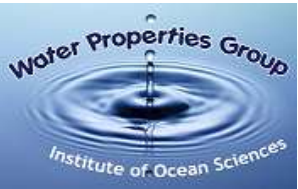
DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2024-032
Vessel: Franklin

Launch Daily
Science Log

Print Daily Science
Log WorkBook



Vessel:			Franklin		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							
39	6 ROS	US	BO		25-02-2024 06:31:19	25-02-2024 06:31:17	49 30.626 N	124 27.876 W	188	181	38	40	3	Steve Romaine					
39	6 ROS	US	EN		25-02-2024 06:38:13	25-02-2024 06:38:10	49 30.641 N	124 27.873 W		181	38	40	3	Steve Romaine					
40	9 ROS	US	BE		25-02-2024 08:01:19	25-02-2024 08:01:16	49 35.451 N	124 38.234 W	165		41	43	3	Steve Romaine	yes	no	no		
40	9 ROS	US	BO		25-02-2024 08:04:24	25-02-2024 08:04:20	49 35.434 N	124 38.226 W	165	158	41	43	3	Steve Romaine					
40	9 ROS	US	EN		25-02-2024 08:11:08	25-02-2024 08:11:06	49 35.397 N	124 38.204 W		158	41	43	3	Steve Romaine					
41	12 NET		BE		25-02-2024 09:11:34	25-02-2024 09:11:32	49 43.671 N	124 40.762 W		342				Julian Smith	NA	NA			
41	12 NET		BO		25-02-2024 09:22:31	25-02-2024 09:22:29	49 43.711 N	124 40.776 W	352	342				Julian Smith					
41	12 NET		EN		25-02-2024 09:28:45	25-02-2024 09:28:42	49 43.734 N	124 40.8 W		342				Julian Smith					
42	12 ROS	US	BE		25-02-2024 09:38:55	25-02-2024 09:38:53	49 43.723 N	124 40.817 W	352		44	51	8	Steve Romaine	yes	no	no		
42	12 ROS	US	BO		25-02-2024 09:44:55	25-02-2024 09:44:52	49 43.735 N	124 40.843 W	352	346	44	51	8	Steve Romaine					
42	12 ROS	US	EN		25-02-2024 10:02:48	25-02-2024 10:02:45	49 43.759 N	124 40.902 W		346	44	51	8	Steve Romaine					
43	MPS06	NET	BE		26-02-2024 02:11:19	26-02-2024 02:11:16	49 48.406 N	124 50.139 W	345	310				Kelly Young	NA	NA			
43	MPS06	NET	BO		26-02-2024 02:33:36	26-02-2024 02:33:33	49 48.519 N	124 51.113 W		310				Kelly Young					
43	MPS06	NET	BO		26-02-2024 02:37:29	26-02-2024 02:37:27	49 48.536 N	124 51.274 W		250				Kelly Young					
43	MPS06	NET	BO		26-02-2024 02:44:58	26-02-2024 02:44:56	49 48.566 N	124 51.585 W		150				Kelly Young					
43	MPS06	NET	BO		26-02-2024 02:53:21	26-02-2024 02:53:19	49 48.608 N	124 51.938 W		50				Kelly Young					
43	MPS06	NET	EN		26-02-2024 02:56:13	26-02-2024 02:56:10	49 48.621 N	124 52.059 W		0				Kelly Young					
44	14 NET		BE		26-02-2024 03:57:18	26-02-2024 03:57:15	49 52.983 N	124 59.79 W	311					Julian Smith	NA	NA			
44	14 NET		BO		26-02-2024 04:09:03	26-02-2024 04:09:00	49 53.027 N	124 59.905 W	311	301				Julian Smith					
44	14 NET		EN		26-02-2024 04:14:09	26-02-2024 04:14:06	49 53.045 N	124 59.946 W		301				Julian Smith					
45	14 ROS	US	BE		26-02-2024 04:24:57	26-02-2024 04:24:53	49 53.076 N	124 59.994 W	311		52	54	3	Steve Romaine	yes	no	no		
45	14 ROS	US	BO		26-02-2024 04:30:30	26-02-2024 04:30:28	49 53.093 N	125 0.014 W	310	303	52	54	3	Steve Romaine					
45	14 ROS	N/A	EN		26-02-2024 04:40:09	26-02-2024 04:40:06	49 53.144 N	125 0.002 W						Steve Romaine					
46	QU39	NET	BE		26-02-2024 05:57:55	26-02-2024 05:57:52	50 1.826 N	125 5.646 W	268	258				Julian Smith	NA	NA			
46	QU39	NET	BO		26-02-2024 06:07:13	26-02-2024 06:07:11	50 1.828 N	125 5.637 W	268	258				Julian Smith					
46	QU39	NET	EN		26-02-2024 06:11:58	26-02-2024 06:11:54	50 1.836 N	125 5.63 W		258				Julian Smith					
47	QU39	ROS	N/A	BE	26-02-2024 06:21:50	26-02-2024 06:21:48	50 1.828 N	125 5.645 W	268					Steve Romaine	yes	no	no		
47	QU39	ROS	N/A	BO	26-02-2024 06:26:33	26-02-2024 06:26:31	50 1.82 N	125 5.644 W	268	260				Steve Romaine					
47	QU39	ROS	N/A	EN	26-02-2024 06:31:19	26-02-2024 06:31:16	50 1.811 N	125 5.639 W		260				Steve Romaine					
48	QU36	ROS	US	BE	26-02-2024 08:11:22	26-02-2024 08:11:18	50 11.403 N	125 0.044 W	462		55	67	13	Steve Romaine	yes	no	no		
48	QU36	ROS	US	BO	26-02-2024 08:19:33	26-02-2024 08:19:31	50 11.383 N	125 0.061 W	450	465	55	67	13	Steve Romaine					
48	QU36	ROS	US	EN	26-02-2024 08:38:36	26-02-2024 08:38:34	50 11.41 N	125 0.128 W		465	55	67	13	Steve Romaine					
49	Calm1	ROS	N/A	BE	26-02-2024 09:24:10	26-02-2024 09:24:06	50 16.522 N	125 1.889 W	444					Steve Romaine	yes	no	no		
49	Calm1	ROS	N/A	BO	26-02-2024 09:31:44	26-02-2024 09:31:40	50 16.51 N	125 1.907 W	444	442				Steve Romaine					
49	Calm1	ROS	N/A	EN	26-02-2024 09:39:14	26-02-2024 09:39:10	50 16.511 N	125 1.897 W		442				Steve Romaine					

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2024-032
Vessel: Franklin

Launch Daily
Science Log

Print Daily Science
Log WorkBook

Vessel:			Franklin		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	
							Latitute	Longitude			Start	End							
50 le chan	ROS	ROS	N/A	BE	26-02-2024 10:36:35	26-02-2024 10:36:32	50 10.641 N	124 54.66 W	248					Steve Romaine	yes	no	no		
50 le chan	ROS	ROS	N/A	BO	26-02-2024 10:41:05	26-02-2024 10:41:02	50 10.643 N	124 54.661 W	248	245				Steve Romaine					
50 le chan	ROS	ROS	N/A	EN	26-02-2024 10:45:30	26-02-2024 10:45:27	50 10.647 N	124 54.665 W		245				Steve Romaine					
51 DS1	ROS	US	US	BE	26-02-2024 11:33:58	26-02-2024 11:33:55	50 4.801 N	124 49.174 W	512		68	80	13	Steve Romaine	yes	no	no		
51 DS1	ROS	US	BO	BO	26-02-2024 11:43:51	26-02-2024 11:43:47	50 4.769 N	124 49.2 W	511	510	68	80	13	Steve Romaine					
51 DS1	ROS	US	EN	EN	26-02-2024 12:02:52	26-02-2024 12:02:50	50 4.679 N	124 49.222 W		510	68	80	13	Steve Romaine					
52 MPS07	NET			BE	26-02-2024 17:33:41	26-02-2024 17:33:38	49 53.024 N	124 59.633 W	313	295				Kelly Young	NA	NA			
52 MPS07	NET			BO	26-02-2024 17:52:30	26-02-2024 17:52:27	49 53.175 N	125 0.26 W		295				Kelly Young					
52 MPS07	NET			BO	26-02-2024 17:57:24	26-02-2024 17:57:22	49 53.241 N	125 0.394 W		250				Kelly Young					
52 MPS07	NET			BO	26-02-2024 18:06:20	26-02-2024 18:06:16	49 53.425 N	125 0.597 W		150				Kelly Young					
52 MPS07	NET			BO	26-02-2024 18:13:12	26-02-2024 18:13:08	49 53.571 N	125 0.767 W		50				Kelly Young					
52 MPS07	NET			EN	26-02-2024 18:17:14	26-02-2024 18:17:11	49 53.658 N	125 0.854 W		0				Kelly Young					
53 MPS08	NET			BE	26-02-2024 23:52:43	26-02-2024 23:52:40	50 5.736 N	125 7.775 W	252	175				Kelly Young	NA	NA		depth decreased during downcast	
53 MPS08	NET			BO	27-02-2024 00:04:54	27-02-2024 00:04:51	50 5.822 N	125 8.224 W	190	175				Kelly Young					
53 MPS08	NET			BO	27-02-2024 00:07:28	27-02-2024 00:07:26	50 5.843 N	125 8.324 W		150				Kelly Young					
53 MPS08	NET			BO	27-02-2024 00:12:33	27-02-2024 00:12:30	50 5.879 N	125 8.523 W		100				Kelly Young					
53 MPS08	NET			BO	27-02-2024 00:17:53	27-02-2024 00:17:51	50 5.911 N	125 8.728 W		50				Kelly Young					
53 MPS08	NET			EN	27-02-2024 00:20:55	27-02-2024 00:20:52	50 5.93 N	125 8.839 W		0				Kelly Young					
54 Dp1	ROS	ROS	N/A	BE	27-02-2024 03:05:03	27-02-2024 03:05:00	50 17.308 N	124 57.789 W						Steve Romaine	NA	NA	no		
54 Dp1	ROS	ROS	N/A	BO	27-02-2024 03:13:59	27-02-2024 03:13:56	50 17.298 N	124 57.764 W	509	507				Steve Romaine					
54 Dp1	ROS	ROS	N/A	EN	27-02-2024 03:22:52	27-02-2024 03:22:48	50 17.295 N	124 57.77 W		507				Steve Romaine					
55 T01	ROS	US	US	BE	27-02-2024 04:55:10	27-02-2024 04:55:06	50 18.132 N	124 46.145 W	486					Steve Romaine	yes	no	no		
55 T01	ROS	US	BO	BO	27-02-2024 05:04:16	27-02-2024 05:04:12	50 18.134 N	124 46.134 W		485				Steve Romaine					
55 T01	ROS	US	EN	EN	27-02-2024 05:13:35	27-02-2024 05:13:31	50 18.104 N	124 46.178 W		485	81	93	13	Steve Romaine				note mistake on SBE, labelled as HC	
56 T02A	NET			BE	27-02-2024 06:04:08	27-02-2024 06:04:06	50 21.786 N	124 42.415 W	499					Julian Smith	NA	NA			
56 T02A	NET			BO	27-02-2024 06:24:15	27-02-2024 06:24:12	50 21.812 N	124 42.378 W	498	490				Julian Smith					
56 T02A	NET			EN	27-02-2024 06:33:27	27-02-2024 06:33:24	50 21.822 N	124 42.359 W		490				Julian Smith					
57 T02A	ROS	US	US	BE	27-02-2024 06:42:05	27-02-2024 06:42:02	50 21.831 N	124 42.336 W	498		81	93	13	Steve Romaine	yes	no	no		
57 T02A	ROS	US	BO	BO	27-02-2024 06:50:57	27-02-2024 06:50:53	50 21.859 N	124 42.336 W	499	496	81	93	13	Steve Romaine					
57 T02A	ROS	US	EN	EN	27-02-2024 07:10:42	27-02-2024 07:10:37	50 21.936 N	124 42.36 W	497	496	81	93	13	Steve Romaine					
58 HC2	ROS	US	US	BE	27-02-2024 08:17:44	27-02-2024 08:17:40	50 17.714 N	124 40.05 W	709		94	106	13	Steve Romaine	yes	no	no		
58 HC2	ROS	US	BO	BO	27-02-2024 08:31:22	27-02-2024 08:31:18	50 17.674 N	124 40.078 W	710	709	94	106	13	Steve Romaine					
58 HC2	ROS	US	EN	EN	27-02-2024 08:53:30	27-02-2024 08:53:27	50 17.608 N	124 40.051 W		709	94	106	13	Steve Romaine					

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2024-032
Vessel: Franklin

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	
59 HC1	ROS	ROS	N/A	BE	27-02-2024 09:35:04	27-02-2024 09:34:59	50 12.692 N	124 38.013 W	702					Steve Romaine	yes	no	no	
59 HC1	ROS	ROS	N/A	BO	27-02-2024 09:47:32	27-02-2024 09:47:29	50 12.642 N	124 37.989 W		723				Steve Romaine				
59 HC1	ROS	ROS	N/A	EN	27-02-2024 10:00:03	27-02-2024 10:00:00	50 12.629 N	124 37.936 W		723				Steve Romaine				
60 DS2	ROS	ROS	N/A	BE	27-02-2024 10:44:44	27-02-2024 10:44:40	50 9.029 N	124 44.23 W	586					Julian Smith	NA	NA	no	
60 DS2	ROS	ROS	N/A	BO	27-02-2024 10:55:02	27-02-2024 10:54:58	50 9.033 N	124 44.255 W	588	588				Julian Smith				
60 DS2	ROS	ROS	N/A	EN	27-02-2024 11:05:09	27-02-2024 11:05:06	50 9.012 N	124 44.252 W	584	588				Julian Smith				
61 Tucker2	NET			BE	27-02-2024 22:33:47	27-02-2024 22:33:43	50 14.483 N	125 0.921 W	481	200				Genna R	NA	NA		
61 Tucker2	NET			BO	27-02-2024 22:42:53	27-02-2024 22:42:49	50 14.814 N	125 0.732 W		200				Genna R				
61 Tucker2	NET			EN	27-02-2024 22:56:56	27-02-2024 22:56:52	50 15.239 N	125 0.527 W		200				Genna R				
62 BU01	NET			BE	28-02-2024 03:11:55	28-02-2024 03:11:51	50 22.141 N	125 4.969 W	594	584				Julian Smith	NA	NA		
62 BU01	NET			BO	28-02-2024 03:33:07	28-02-2024 03:33:03	50 22.113 N	125 4.938 W	594	584				Julian Smith				
62 BU01	NET			EN	28-02-2024 03:43:39	28-02-2024 03:43:35	50 22.097 N	125 4.945 W		584				Julian Smith				
63 BU01	ROS	US	US	BE	28-02-2024 03:54:41	28-02-2024 03:54:38	50 22.121 N	125 4.94 W	592		107	119	13	Steve Romaine	yes	no	no	
63 BU01	ROS	US	US	BO	28-02-2024 04:05:08	28-02-2024 04:05:05	50 22.116 N	125 4.933 W	590	591	107	119	13	Steve Romaine				
63 BU01	ROS	US	US	EN	28-02-2024 04:26:46	28-02-2024 04:26:43	50 22.106 N	125 4.909 W		591	107	119	13	Steve Romaine				
64 BU02	ROS	ROS	N/A	BE	28-02-2024 05:26:21	28-02-2024 05:26:18	50 28.144 N	125 4.658 W	650					Steve Romaine	yes	no	no	
64 BU02	ROS	ROS	N/A	BO	28-02-2024 05:37:34	28-02-2024 05:37:30	50 28.14 N	125 4.67 W	650	649				Steve Romaine				
64 BU02	ROS	ROS	N/A	EN	28-02-2024 05:48:39	28-02-2024 05:48:35	50 28.141 N	125 4.667 W		649				Steve Romaine				
65 BU03	ROS	ROS	N/A	BE	28-02-2024 06:51:09	28-02-2024 06:51:05	50 31.664 N	124 57.99 W	647					Julian Smith	yes	no	no	
65 BU03	ROS	ROS	N/A	BO	28-02-2024 07:02:29	28-02-2024 07:02:25	50 31.662 N	124 58.016 W	647	646				Julian Smith				
65 BU03	ROS	ROS	N/A	EN	28-02-2024 07:13:44	28-02-2024 07:13:40	50 31.652 N	124 58.012 W	646	646				Julian Smith				
66 BU04	NET			BE	28-02-2024 08:01:58	28-02-2024 08:01:53	50 35.251 N	124 53.807 W	632	622				Julian Smith	NA	NA		
66 BU04	NET			BO	28-02-2024 08:24:42	28-02-2024 08:24:39	50 35.24 N	124 53.676 W	629	622				Julian Smith				
66 BU04	NET			EN	28-02-2024 08:35:58	28-02-2024 08:35:54	50 35.213 N	124 53.715 W		622				Julian Smith				
67 BU04	ROS	US	US	BE	28-02-2024 09:04:02	28-02-2024 09:03:58	50 35.213 N	124 53.589 W	621		120	138	19	Steve Romaine	yes	no	no	
67 BU04	ROS	US	US	BO	28-02-2024 09:15:54	28-02-2024 09:15:49	50 35.153 N	124 53.558 W	620	621	120	138	19	Steve Romaine				
67 BU04	ROS	US	US	EN	28-02-2024 09:47:13	28-02-2024 09:47:09	50 34.932 N	124 53.578 W		621	120	138	19	Steve Romaine				
68 BU05	ROS	ROS	N/A	BE	28-02-2024 10:36:12	28-02-2024 10:36:09	50 40.51 N	124 53.317 W	563					Steve Romaine	yes	no	no	
68 BU05	ROS	ROS	N/A	BO	28-02-2024 10:46:26	28-02-2024 10:46:21	50 40.521 N	124 53.362 W	565	564				Steve Romaine				niskin 7 has crack in lower ring, need to swap out
68 BU05	ROS	ROS	N/A	EN	28-02-2024 10:56:03	28-02-2024 10:55:59	50 40.491 N	124 53.384 W		564				Steve Romaine				niskin 7 out, 23 in spot now
69 BU06	ROS	ROS	N/A	BE	28-02-2024 11:37:09	28-02-2024 11:37:04	50 45.298 N	124 53.947 W	473					Steve Romaine	yes	no	no	
69 BU06	ROS	ROS	N/A	BO	28-02-2024 11:45:07	28-02-2024 11:45:02	50 45.27 N	124 53.924 W	474	472				Steve Romaine				
69 BU06	ROS	ROS	N/A	EN	28-02-2024 11:53:09	28-02-2024 11:53:04	50 45.237 N	124 53.875 W		472				Steve Romaine				
70 BU07	ROS	US	US	BE	28-02-2024 12:34:25	28-02-2024 12:34:22	50 49.721 N	124 53.525 W	357		139	151	13	Steve Romaine	yes	no	no	

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2024-032
Vessel: Franklin

Launch Daily
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Print Daily Science
Log WorkBook

Vessel:			Franklin		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							
70	BU07	ROS	US	BO	28-02-2024 12:40:44	28-02-2024 12:40:40	50 49.741 N	124 53.515 W	350	351	139	151	13	Steve Romaine					
70	BU07	ROS	US	EN	28-02-2024 12:58:00	28-02-2024 12:57:55	50 49.705 N	124 53.541 W		351	139	151	13	Steve Romaine					
71	BU08	ROS	N/A	BE	28-02-2024 13:32:53	28-02-2024 13:32:49	50 53.297 N	124 50.472 W	222					Steve Romaine	yes	no	no		
71	BU08	ROS	N/A	BO	28-02-2024 13:36:42	28-02-2024 13:36:39	50 53.305 N	124 50.471 W	222	219				Steve Romaine					
71	BU08	ROS	N/A	EN	28-02-2024 13:40:37	28-02-2024 13:40:34	50 53.301 N	124 50.472 W		219				Steve Romaine					
72	BU08	NET		BE	28-02-2024 13:56:32	28-02-2024 13:56:27	50 53.283 N	124 50.466 W	222	212				Julian Smith	NA	NA			
72	BU08	NET		BO	28-02-2024 14:04:23	28-02-2024 14:04:20	50 53.271 N	124 50.471 W		212				Julian Smith					
72	BU08	NET		EN	28-02-2024 14:08:19	28-02-2024 14:08:15	50 53.29 N	124 50.469 W		212				Julian Smith					
74	Tucker3	NET		BE	29-02-2024 00:16:49	29-02-2024 00:16:44	50 18.431 N	124 52.785 W	505	200				Genna R	NA	NA			
74	Tucker3	NET		BO	29-02-2024 00:25:11	29-02-2024 00:25:06	50 18.552 N	124 53.173 W		175				Genna R					
74	Tucker3	NET		EN	29-02-2024 00:38:23	29-02-2024 00:38:19	50 18.817 N	124 53.731 W		200				Genna R					
75	To3a	ROS	N/A	BE	29-02-2024 03:08:08	29-02-2024 03:08:03	50 24.586 N	124 37.958 W	474					Steve Romaine	yes	no	no		
75	To3a	ROS	N/A	BO	29-02-2024 03:16:30	29-02-2024 03:16:27	50 24.568 N	124 38.011 W	474	473				Steve Romaine					
75	To3a	ROS	N/A	EN	29-02-2024 03:24:41	29-02-2024 03:24:37	50 24.57 N	124 38.056 W		473				Steve Romaine					
76	T04A	NET		BE	29-02-2024 04:22:45	29-02-2024 04:22:40	50 25.663 N	124 30.931 W	374	364				Julian Smith	NA	NA			
76	T04A	NET		BO	29-02-2024 04:36:00	29-02-2024 04:35:56	50 25.678 N	124 30.936 W		364				Julian Smith					
76	T04A	NET		EN	29-02-2024 04:42:39	29-02-2024 04:42:35	50 25.677 N	124 30.935 W		364				Julian Smith					
77	T04A	ROS	US	BE	29-02-2024 04:50:30	29-02-2024 04:50:26	50 25.671 N	124 30.938 W	374		152	164	13	Steve Romaine	yes	no	no		
77	T04A	ROS	US	BO	29-02-2024 04:57:10	29-02-2024 04:57:06	50 25.672 N	124 30.947 W	374	371	152	164	13	Steve Romaine					
77	T04A	ROS	US	EN	29-02-2024 05:15:35	29-02-2024 05:15:32	50 25.655 N	124 30.982 W		371	152	164	13	Steve Romaine					
78	T05	ROS	N/A	BE	29-02-2024 06:28:49	29-02-2024 06:28:45	50 27.709 N	124 23.953 W	192					Steve Romaine	yes	no	no		
78	T05	ROS	N/A	BO	29-02-2024 06:32:55	29-02-2024 06:32:51	50 27.705 N	124 23.958 W	192	190				Steve Romaine					
78	T05	ROS	N/A	EN	29-02-2024 06:37:07	29-02-2024 06:37:03	50 27.704 N	124 23.969 W		190				Steve Romaine					
79	T05	NET		BE	29-02-2024 06:44:03	29-02-2024 06:43:59	50 27.7 N	124 23.97 W	192	182				Julian Smith	NA	NA			
79	T05	NET		BO	29-02-2024 06:50:48	29-02-2024 06:50:44	50 27.694 N	124 23.986 W	190	182				Julian Smith					
79	T05	NET		EN	29-02-2024 06:54:01	29-02-2024 06:53:57	50 27.691 N	124 23.991 W		182				Julian Smith					
80	MPS09	NET		BE	29-02-2024 16:51:17	29-02-2024 16:51:14	50 26.263 N	124 28.184 W	319	300				Genna R	NA	NA			
80	MPS09	NET		BO	29-02-2024 17:13:21	29-02-2024 17:13:17	50 25.986 N	124 28.977 W		300				Genna R					
80	MPS09	NET		BO	29-02-2024 17:17:26	29-02-2024 17:17:22	50 25.938 N	124 29.116 W		250				Genna R					
80	MPS09	NET		BO	29-02-2024 17:24:59	29-02-2024 17:24:54	50 25.852 N	124 29.375 W		150				Genna R					
80	MPS09	NET		BO	29-02-2024 17:32:37	29-02-2024 17:32:32	50 25.769 N	124 29.654 W		50				Genna R					
80	MPS09	NET		EN	29-02-2024 17:35:42	29-02-2024 17:35:39	50 25.735 N	124 29.78 W		0				Genna R					
81	Tucker4	NET		BE	29-02-2024 17:51:54	29-02-2024 17:51:49	50 25.788 N	124 29.731 W	350	50				Genna R	NA	NA			
81	Tucker4	NET		BO	29-02-2024 17:54:43	29-02-2024 17:54:40	50 25.822 N	124 29.651 W		50				Genna R					
81	Tucker4	NET		EN	29-02-2024 18:09:41	29-02-2024 18:09:36	50 25.995 N	124 29.221 W		50				Genna R					

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2024-032
Vessel: Franklin

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	
82 Tucker5	NET			BE	29-02-2024 18:18:27	29-02-2024 18:18:24	50 25.992 N	124 29.165 W		325				Genna R	NA	NA		
82 Tucker5	NET			BO	29-02-2024 18:30:12	29-02-2024 18:30:07	50 25.845 N	124 29.546 W		325				Genna R				
82 Tucker5	NET			EN	29-02-2024 18:51:50	29-02-2024 18:51:46	50 25.67 N	124 30.17 W		325				Genna R				
83 JE03	NET			BE	01-03-2024 07:56:56	01-03-2024 07:56:55	49 48.035 N	124 2.455 W	678	668				Julian Smith	NA	NA		
83 JE03	NET			BO	01-03-2024 08:21:13	01-03-2024 08:21:11	49 47.974 N	124 2.471 W	677	668				Julian Smith				
83 JE03	NET			EN	01-03-2024 08:35:08	01-03-2024 08:35:06	49 47.93 N	124 2.509 W		668				Julian Smith				
84 JE03	ROS	US		BE	01-03-2024 08:41:19	01-03-2024 08:41:17	49 47.898 N	124 2.537 W	676		165	188	24	Steve Romaine	yes	no	no	
84 JE03	ROS	US		BO	01-03-2024 08:53:18	01-03-2024 08:53:16	49 47.888 N	124 2.491 W	675	675	165	188	24	Steve Romaine				
84 JE03	ROS	US		EN	01-03-2024 09:25:20	01-03-2024 09:25:17	49 47.74 N	124 2.524 W		675	165	188	24	Steve Romaine				
85 JE02	ROS	N/A		BE	01-03-2024 10:11:44	01-03-2024 10:11:42	49 46.397 N	124 9.271 W						Steve Romaine	NA	NA	no	
85 JE02	ROS	N/A		BO	01-03-2024 10:21:48	01-03-2024 10:21:46	49 46.394 N	124 9.296 W		577				Steve Romaine				
85 JE02	ROS	N/A		EN	01-03-2024 10:31:44	01-03-2024 10:31:42	49 46.396 N	124 9.325 W		577				Steve Romaine				
86 JE01	ROS	US		BE	01-03-2024 11:17:15	01-03-2024 11:17:14	49 42.362 N	124 14.371 W	278		189	201	13	Steve Romaine	yes	no	no	all inlet stations 60 sec soak at surface, no down 10
86 JE01	ROS	US		BO	01-03-2024 11:22:23	01-03-2024 11:22:22	49 42.39 N	124 14.306 W	284	282	189	201	13	Steve Romaine				
86 JE01	ROS	US		EN	01-03-2024 11:38:19	01-03-2024 11:38:18	49 42.473 N	124 14.199 W		282	189	201	13	Steve Romaine				
87	22 ROS	US		BE	01-03-2024 12:20:41	01-03-2024 12:20:40	49 40.142 N	124 16.301 W	350		202	204	3	Steve Romaine	yes	no	no	
87	22 ROS	US		BO	01-03-2024 12:26:48	01-03-2024 12:26:47	49 40.139 N	124 16.336 W	349	342	202	204	3	Steve Romaine				
87	22 ROS	US		EN	01-03-2024 12:36:20	01-03-2024 12:36:18	49 40.135 N	124 16.374 W		342	202	204	3	Steve Romaine				
88	22 NET			BE	01-03-2024 12:42:28	01-03-2024 12:42:26	49 40.135 N	124 16.404 W	349					Julian Smith	NA	NA		
88	22 NET			BO	01-03-2024 12:54:50	01-03-2024 12:54:48	49 40.209 N	124 16.498 W	349	339				Julian Smith				
88	22 NET			EN	01-03-2024 13:01:00	01-03-2024 13:00:59	49 40.197 N	124 16.494 W	349	339				Julian Smith				
89	20 ROS	N/A		BE	01-03-2024 14:39:08	01-03-2024 14:39:07	49 47.225 N	124 32.311 W	308					Julian Smith	yes	no	no	
89	20 ROS	N/A		BO	01-03-2024 14:44:34	01-03-2024 14:44:33	49 47.253 N	124 32.317 W	298	300				Julian Smith				
89	20 ROS	N/A		EN	01-03-2024 14:49:50	01-03-2024 14:49:48	49 47.281 N	124 32.288 W	291	300				Julian Smith				
90 JE04	ROS	N/A		BE	02-03-2024 03:06:53	02-03-2024 03:06:51	49 49.507 N	123 54.297 W	668					Julian Smith	yes	no	no	
90 JE04	ROS	N/A		BO	02-03-2024 03:19:08	02-03-2024 03:19:06	49 49.5 N	123 54.298 W	668	666				Julian Smith				
90 JE04	ROS	N/A		EN	02-03-2024 03:30:49	02-03-2024 03:30:46	49 49.482 N	123 54.286 W		666				Julian Smith				
91 JE05	ROS	N/A		BE	02-03-2024 04:25:35	02-03-2024 04:25:32	49 54.233 N	123 55.42 W	654					Julian Smith	yes	no	no	
91 JE05	ROS	N/A		BO	02-03-2024 04:36:52	02-03-2024 04:36:50	49 54.204 N	123 55.393 W	654	653				Julian Smith				
91 JE05	ROS	N/A		EN	02-03-2024 04:48:17	02-03-2024 04:48:15	49 54.171 N	123 55.365 W		653				Julian Smith				
92 JE06	ROS	N/A		BE	02-03-2024 05:43:35				544					Steve Romaine	yes	no	no	
92 JE06	ROS	N/A		BE	02-03-2024 05:43:38	02-03-2024 05:43:36	49 59.096 N	123 59.324 W						Steve Romaine	NA	NA	no	
92 JE06	ROS	N/A		BO	02-03-2024 05:53:07	02-03-2024 05:53:04	49 59.089 N	123 59.38 W	541	541				Steve Romaine				
92 JE06	ROS	N/A		EN	02-03-2024 06:02:30	02-03-2024 06:02:28	49 59.053 N	123 59.432 W		541				Steve Romaine				

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2024-032
Vessel: Franklin

Launch Daily
Science Log

Print Daily Science
Log WorkBook

Vessel:			Franklin		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							
93	JE07	ROS	N/A	BE	02-03-2024 07:05:19	02-03-2024 07:05:18	50 2.461 N	123 51.162 W	539				Julian Smith	yes	no	no			
93	JE07	ROS	N/A	BO	02-03-2024 07:14:54	02-03-2024 07:14:53	50 2.453 N	123 51.206 W	539	537			Julian Smith						
93	JE07	ROS	N/A	EN	02-03-2024 07:24:24	02-03-2024 07:24:21	50 2.44 N	123 51.233 W	539	537			Julian Smith						
94	JE08	ROS	N/A	BE	02-03-2024 08:05:17	02-03-2024 08:05:16	50 5.266 N	123 46.699 W	468				Julian Smith	yes	no	no			
94	JE08	ROS	N/A	BO	02-03-2024 08:13:33	02-03-2024 08:13:31	50 5.254 N	123 46.712 W	467	465			Julian Smith						
94	JE08	ROS	N/A	EN	02-03-2024 08:21:44	02-03-2024 08:21:41	50 5.262 N	123 46.727 W	470	465			Julian Smith						
95	JE09	NET		BE	02-03-2024 08:56:21	02-03-2024 08:56:19	50 8.275 N	123 50.112 W		345			Julian Smith	NA	NA				
95	JE09	NET		BO	02-03-2024 09:08:43	02-03-2024 09:08:41	50 8.268 N	123 50.017 W	355	345			Julian Smith						
95	JE09	NET		EN	02-03-2024 09:15:21	02-03-2024 09:15:19	50 8.24 N	123 49.985 W		345			Julian Smith						
96	JE09	ROS	US	BE	02-03-2024 09:21:57	02-03-2024 09:21:55	50 8.218 N	123 49.942 W			205	217	13	Steve Romaine	NA	NA	no		
96	JE09	ROS	US	BO	02-03-2024 09:28:10	02-03-2024 09:28:09	50 8.189 N	123 49.901 W	355	352	205	217	13	Steve Romaine					
96	JE09	ROS	US	EN	02-03-2024 09:44:51	02-03-2024 09:44:48	50 8.096 N	123 49.769 W		352	205	217	13	Steve Romaine					
97	JE10	ROS	N/A	BE	02-03-2024 10:34:38	02-03-2024 10:34:37	50 11.357 N	123 57.437 W	260				Steve Romaine	yes	no	no			
97	JE10	ROS	N/A	BO	02-03-2024 10:39:17	02-03-2024 10:39:15	50 11.365 N	123 57.421 W	262	260			Steve Romaine						
97	JE10	ROS	N/A	EN	02-03-2024 10:43:52	02-03-2024 10:43:50	50 11.362 N	123 57.396 W		260			Steve Romaine						
98	MPS10	NET		BE	02-03-2024 19:08:25	02-03-2024 19:08:22	49 52.181 N	123 53.263 W	675	600			Genna R	NA	NA				
98	MPS10	NET		BO	02-03-2024 19:56:33	02-03-2024 19:56:30	49 50.884 N	123 53.959 W		600			Genna R				600 called over radio for net 1		
98	MPS10	NET		BO	02-03-2024 20:19:52	02-03-2024 20:19:51	49 50.328 N	123 54.306 W		200			Genna R						
98	MPS10	NET		BO	02-03-2024 20:25:13	02-03-2024 20:25:12	49 50.198 N	123 54.385 W		100			Genna R						
98	MPS10	NET		BO	02-03-2024 20:28:32	02-03-2024 20:28:30	49 50.111 N	123 54.434 W		50			Genna R						
98	MPS10	NET		EN	02-03-2024 20:35:11	02-03-2024 20:35:10	49 49.917 N	123 54.543 W		0			Genna R						
99	HS3	ROS	N/A	BE	03-03-2024 06:05:02	03-03-2024 06:05:00	49 25.432 N	123 22.363 W	246				Julian Smith	yes	no	no			
99	HS3	ROS	N/A	BO	03-03-2024 06:09:28	03-03-2024 06:09:25	49 25.448 N	123 22.373 W	246	243			Julian Smith						
99	HS3	ROS	N/A	EN	03-03-2024 06:14:06	03-03-2024 06:14:04	49 25.465 N	123 22.379 W	245	243			Julian Smith						
100	HS4	ROS	N/A	BE	03-03-2024 07:00:18	03-03-2024 07:00:16	49 27.183 N	123 16.753 W	246				Julian Smith	yes	no	no			
100	HS4	ROS	N/A	BO	03-03-2024 07:04:59	03-03-2024 07:04:58	49 27.185 N	123 16.745 W	246	243			Julian Smith						
100	HS4	ROS	N/A	EN	03-03-2024 07:09:36	03-03-2024 07:09:35	49 27.176 N	123 16.738 W	246	243			Julian Smith						
101	HS6	NET		BE	03-03-2024 07:48:33	03-03-2024 07:48:32	49 30.574 N	123 16.704 W	234	214			Julian Smith	NA	NA				
101	HS6	NET		BO	03-03-2024 07:57:17	03-03-2024 07:57:16	49 30.57 N	123 16.714 W	235	225			Julian Smith						
101	HS6	NET		EN	03-03-2024 08:01:50	03-03-2024 08:01:48	49 30.553 N	123 16.72 W											
102	HS6	ROS	US	BE	03-03-2024 08:09:15	03-03-2024 08:09:13	49 30.561 N	123 16.733 W	235		218	230	13	Steve Romaine	yes	no	no		
102	HS6	ROS	US	BO	03-03-2024 08:13:28	03-03-2024 08:13:25	49 30.557 N	123 16.742 W	235	233	218	230	13	Steve Romaine					
102	HS6	ROS	US	EN	03-03-2024 08:27:58	03-03-2024 08:27:55	49 30.472 N	123 16.772 W		233	218	230	13	Steve Romaine					
103	HS9	ROS	N/A	BE	03-03-2024 09:10:33	03-03-2024 09:10:30	49 35.506 N	123 14.488 W	282				Steve Romaine	yes	no	no			
103	HS9	ROS	N/A	BO	03-03-2024 09:15:30	03-03-2024 09:15:28	49 35.493 N	123 14.489 W	282	279			Steve Romaine						

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number: 2024-032
Vessel: Franklin

Launch Daily
Science Log

Print Daily Science
Log WorkBook



Vessel:			Franklin		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	Fluoromet er Cleaned	PAR Status	Comments	
							Latitute	Longitude			Start	End							
103	HS9	ROS	N/A	EN	03-03-2024 09:20:18	03-03-2024 09:20:16	49 35.47 N	123 14.49 W		279				Steve Romaine					
104	HS11	NET		BE	03-03-2024 09:53:32	03-03-2024 09:53:30	49 39.294 N	123 14.446 W	224	214				Julian Smith	NA	NA			
104	HS11	NET		BO	03-03-2024 10:01:25	03-03-2024 10:01:23	49 39.337 N	123 14.446 W	224	214				Julian Smith					
104	HS11	NET		EN	03-03-2024 10:05:22	03-03-2024 10:05:19	49 39.335 N	123 14.454 W		214				Julian Smith					
105	HS11	ROS	US	BE	03-03-2024 10:12:32	03-03-2024 10:12:30	49 39.315 N	123 14.5 W	225		231	243	13	Steve Romaine	yes	no	no		
105	HS11	ROS	US	BO	03-03-2024 10:16:30	03-03-2024 10:16:29	49 39.315 N	123 14.495 W	225	222	231	243	13	Steve Romaine					
105	HS11	ROS	US	EN	03-03-2024 10:31:18	03-03-2024 10:31:15	49 39.281 N	123 14.541 W		222	231	243	13	Steve Romaine					
106	HS12	ROS	N/A	BE	03-03-2024 11:02:57	03-03-2024 11:02:56	49 40.605 N	123 10.299 W	49					Steve Romaine	yes	no	no		
106	HS12	ROS	N/A	BO	03-03-2024 11:03:54	03-03-2024 11:03:52	49 40.601 N	123 10.295 W	47	43				Steve Romaine					
106	HS12	ROS	N/A	EN	03-03-2024 11:04:53	03-03-2024 11:04:51	49 40.597 N	123 10.292 W		43				Steve Romaine					
107	Tucker7	NET		BE	03-03-2024 22:31:33	03-03-2024 22:31:31	49 16.089 N	123 49.465 W	406	212				Nic Ens	NA	NA			
107	Tucker7	NET		BO	03-03-2024 22:41:28	03-03-2024 22:41:23	49 16.212 N	123 48.763 W		212				Nic Ens				Target depth 350m	
107	Tucker7	NET		EN	03-03-2024 22:58:50	03-03-2024 22:58:48	49 16.41 N	123 47.682 W		212				Nic Ens					