

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2024-006
Vessel: JP Tully

Launch Daily
Science Log

Print Daily Science
Log WorkBook

Vessel:			JP Tully		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 (DD MM.MMM)		Sounder Depth (m)	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	Trans. Cleaned	Fluorometer Cleaned	PAR Status	Comments
1 SI	ROS	US	BE		30-04-2024 23:41:35	30-04-2024 23:41:34	48 39.539 N	123 30.189 W	173	166				Chloe Immonne yes	yes	yes		deck unit chirps during startup of winch and getting the rosette out over the water - then didn't chirp again. Error message in seasave a few times "FFFFFFF unsupported modem message FA A FA from SBE carousel. "
1 SI	ROS	US	BO		30-04-2024 23:45:09	30-04-2024 23:45:07	48 39.539 N	123 30.188 W		166				Chloe Immonen				fired all bottles at 50m on upcast, no sampling done.
1 SI	ROS	US	EN		30-04-2024 23:50:47	30-04-2024 23:50:45	48 39.54 N	123 30.189 W		166				Chloe Immonen				altimeter was not working for this cast. Said ~100m the whole time. Went to 166m based off the ship's sounding. Cleaned all connections of wire and bulkhead splitter once back on board
2 JF1	LOOP	UN	BE		01-05-2024 05:45:31	01-05-2024 05:45:27	48 15.869 N	123 30.119 W		157	5	5002	5002	Chloe Immonne NA	NA			1 sal, 2 chl, 1 nut. Forgot to put the nut in the freezer for about an hour after sampling sorry!
3 JF2	LOOP	UN	BE		01-05-2024 07:34:25	01-05-2024 07:34:19	48 18.154 N	124 0.547 W		190	4.5	5003	5003	Moira Galbrail NA	NA			1 sal, 2 chl, 1 nut
4 JF3	LOOP	UN	BE		01-05-2024 09:19:36	01-05-2024 09:19:32	48 27.031 N	124 30.074 W		223	4.5	5004	5004	Moira Galbrail NA	NA			1 sal, 2 chl, 1 nut
5 JF4	LOOP	UN	BE		01-05-2024 11:00:20	01-05-2024 11:00:17	48 32.302 N	125 0.152 W		64	4.5	5005	5005	Moira Galbrail NA	NA			1 sal, 2 chl, 1 nut
6 P1	ROS	US	BE		01-05-2024 12:55:52	01-05-2024 12:55:48	48 34.495 N	125 29.942 W	128		1	5	5	Moira Galbraith yes	yes	yes		
6 P1	ROS	US	BO		01-05-2024 12:59:51	01-05-2024 12:59:50	48 34.459 N	125 29.946 W		120		1	5	5	Moira Galbraith			alt not working
6 P1	ROS	US	EN		01-05-2024 13:08:10	01-05-2024 13:08:07	48 34.447 N	125 29.947 W		120		1	5	5	Moira Galbraith			
7 P2	LOOP	UN	BE		01-05-2024 15:01:16	01-05-2024 15:01:13	48 35.922 N	125 59.996 W	116	4.5	5007	5007		Moira Galbrail NA	NA			Cesium loop
8 P2	NET		BE		01-05-2024 15:08:13	01-05-2024 15:08:10	48 35.974 N	125 59.957 W	116					Moira Galbrail NA	NA			bongo
8 P2	NET		BO		01-05-2024 15:13:14	01-05-2024 15:13:09	48 36 N	125 59.982 W	116	110				Moira Galbraith				
8 P2	NET		EN		01-05-2024 15:15:46	01-05-2024 15:15:42	48 36.007 N	125 59.995 W	116					Moira Galbraith				
9 P2	ROS	US	BE		01-05-2024 15:30:34	01-05-2024 15:30:31	48 36.084 N	126 0.157 W	119		6	23	18	Danielle Caleb yes	yes	yes		
9 P2	ROS	US	BO		01-05-2024 15:33:34	01-05-2024 15:33:31	48 36.074 N	126 0.147 W		110	6	23	18	Danielle Caleb				
9 P2	ROS	US	EN		01-05-2024 15:48:02	01-05-2024 15:47:59	48 36.024 N	126 0.021 W			6	23	18	Danielle Caleb				
10 P3	ROS	US	BE		01-05-2024 17:30:43	01-05-2024 17:30:42	48 37.528 N	126 20.016 W			24	25	2	Danielle Caleb yes	yes	yes		
10 P3	ROS	US	BO		01-05-2024 17:42:49	01-05-2024 17:42:47	48 37.515 N	126 20.022 W	800	780	24	25	2	Danielle Caleb				
10 P3	ROS	US	EN		01-05-2024 17:56:32	01-05-2024 17:56:28	48 37.524 N	126 20.034 W	800	780	24	25	2	Danielle Caleb				swapped altimeter cable after cast
11 P4	DRF		DE		01-05-2024 20:28:29	01-05-2024 20:28:26	48 39.013 N	126 38.095 W						Laurny Talbot				rosie-713
11 P4	DRF		RE		01-05-2024 21:49:24	01-05-2024 21:49:22	48 39.076 N	126 35.925 W						Laurny Talbot				753 times and locations
12 P4	BOT	MR	BE		01-05-2024 22:42:13	01-05-2024 22:42:08	48 38.982 N	126 40.096 W	1338		26	35	10	Danielle Caleb NA	NA			TM
12 P4	BOT	MR	BO		01-05-2024 23:25:51	01-05-2024 23:25:47	48 39.052 N	126 39.983 W		955	26	35	10	Danielle Caleb				
12 P4	BOT	MR	MR		01-05-2024 23:27:01	01-05-2024 23:26:58	48 39.052 N	126 39.978 W		955	26	35	10	Danielle Caleb				
12 P4	BOT	MR	EN		02-05-2024 00:13:06	02-05-2024 00:13:01	48 39.031 N	126 39.809 W		955	26	35	10	Danielle Caleb				
13 P4	ROS	US	BE		02-05-2024 00:22:07	02-05-2024 00:22:02	48 39.011 N	126 39.758 W	1325		36	54	19	Chloe Immonne yes	yes	yes		DMS
13 P4	ROS	US	BO		02-05-2024 00:33:17	02-05-2024 00:33:14	48 39.024 N	126 39.752 W		600	36	54	19	Chloe Immonen				
13 P4	ROS	US	EN		02-05-2024 00:58:54	02-05-2024 00:58:50	48 39.078 N	126 39.734 W		600	36	54	19	Chloe Immonen				
14 P4	ROS	US	BE		02-05-2024 01:43:22	02-05-2024 01:43:20	48 39.06 N	126 40.035 W	1329		55	57	3	Chloe Immonne yes	yes	yes		deep cesium
14 P4	ROS	US	BO		02-05-2024 01:49:31	02-05-2024 01:49:27	48 39.065 N	126 40.02 W		250	55	57	3	Chloe Immonen				
14 P4	ROS	US	EN		02-05-2024 01:57:22	02-05-2024 01:57:19	48 39.073 N	126 40.031 W		250	55	57	3	Chloe Immonen				
15 P4	ROS	US	BE		02-05-2024 02:36:21	02-05-2024 02:36:18	48 39.059 N	126 40.079 W	1331		58	60	3	Chloe Immonne yes	yes	yes		will actually snap all bottles - need more water per sample
15 P4	ROS	US	BO		02-05-2024 02:39:40	02-05-2024 02:39:38	48 39.056 N	126 40.078 W		150	58	60	3	Chloe Immonen				shallow cesium
15 P4	ROS	US	EN		02-05-2024 02:46:27	02-05-2024 02:46:23	48 39.065 N	126 40.085 W		150	58	60	3	Chloe Immonen				
16 P4	NET		BE		02-05-2024 03:00:16	02-05-2024 03:00:13	48 39.054 N	126 40.08 W	1331					Chloe Immonne NA	NA			bongo
16 P4	NET		BO		02-05-2024 03:09:53	02-05-2024 03:09:47	48 39.470 N	126 40.04 W		250				Chloe Immonen				
16 P4	NET		EN		02-05-2024 03:14:10	02-05-2024 03:14:04	48 39.036 N	126 40.034 W	1331	250				Chloe Immonen				
17 P4	NET		BE		02-05-2024 03:25:51	02-05-2024 03:25:47	48 39.029 N	126 40.083 W	1334					Chloe Immonne NA	NA			deep bongo - big red salps or jellies? in the flow meter side (Parilia part)
17 P4	NET		BO		02-05-2024 04:08:16	02-05-2024 04:08:13	48 39.023 N	126 40.016 W		1200				Chloe Immonen				
17 P4	NET		EN		02-05-2024 04:28:18	02-05-2024 04:28:13	48 39.006 N	126 39.991 W		1200				Chloe Immonen				
18 P4	ROS	US	BE		02-05-2024 04:56:54	02-05-2024 04:56:51	48 38.991 N	126 39.995 W	1334		61	79	19	Chloe Immonne yes	yes	yes		deep cast
18 P4	ROS	US	BO		02-05-2024 05:20:21	02-05-2024 05:20:19	48 39.042 N	126 39.958 W		1317	61	79	19	Chloe Immonen				salinity spike on upcast at ~1100m
18 P4	ROS	US	EN		02-05-2024 05:56:50	02-05-2024 05:56:48	48 39.016 N	126 39.93 W		1317	61	79	19	Chloe Immonen				changed altimeter and cleaned connections on DO sensor and cable after cast. New altimeter is 76341
19 P5	ROS	US	BE		02-05-2024 08:26:27	02-05-2024 08:26:23	48 41.486 N	127 10.06 W	2115		80	81	2	Moira Galbraith yes	yes	yes		
19 P5	ROS	US	BO		02-05-2024 09:02:13	02-05-2024 09:02:08	48 41.483 N	127 10.027 W		2005	80	81	2	Moira Galbraith				
19 P5	ROS	US	EN		02-05-2024 09:35:08	02-05-2024 09:35:06	48 41.482 N	127 9.987 W		2005	80	81	2	Moira Galbraith				
20 P6	ROS	US	BE		02-05-2024 11:53:12	02-05-2024 11:53:09	48 44.579 N	127 39.994 W	2572		82	83	2	Moira Galbraith yes	yes	yes		had to restart file at 10m soak
20 P6	ROS	US	BO		02-05-2024 12:29:46	02-05-2024 12:29:44	48 44.605 N	127 40.05 W		2005	82	83	2	Moira Galbraith				
20 P6	ROS	US	EN		02-05-2024 13:05:02	02-05-2024 13:04:59	48 44.607 N	127 39.977 W		2005	82	83	2	Moira Galbraith				
21 P7	ROS	US	BE		02-05-2024 15:26:50	02-05-2024 15:26:48	48 46.591 N	128 10.221 W	2533		84	86	3	Danielle Caleb yes	yes	yes		
21 P7	ROS	US	BO		02-05-2024 16:01:47	02-05-2024 16:01:43	48 46.62 N	128 10.134 W		2005	84	86	3	Danielle Caleb				
21 P7	ROS	US	EN		02-05-2024 16:36:32	02-05-2024 16:36:30	48 46.622 N	128 10.16 W		2005	84	86	3	Danielle Caleb				
22 P8	NET		BE		02-05-2024 18:56:07	02-05-2024 18:56:02	48 48.998 N	128 39.879 W	2545					Moira Galbrail NA	NA			bongo
22 P8	NET		BO		02-05-2024 19:05:08	02-05-2024 19:05:03	48 48.988											

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Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) Computer ('dd-mm-yyyy hh:mm:ss')	Date Time (UTC) GPS ('dd-mm-yyyy hh:mm:ss')	Positional Information (DD 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	P13	ROS	US	BE	03-05-2024 22:08:04	03-05-2024 22:08:01	49 2.551 N	131 39.855 W	2916		168	169	2	Chloe Immonne yes	yes	yes		huge strain on wire at surface after launching as LARS operators went to check the cable. rosette was not deep enough to stabilize wire. Took a long break before starting cast with rosette in water to fix winch issue. FFFFFFFF unsupported modem message from Carousel during this time.
32	P13	ROS	US	BO	03-05-2024 22:39:56	03-05-2024 22:39:53	49 2.555 N	131 39.874 W		2005	168	169	2	Chloe Immonen				sm1 salt spike on downcast at 900m, ~1170m, 1350m, big transmiss and oxy and fluor spike at ~1900
32	P13	ROS	US	EN	03-05-2024 23:12:49	03-05-2024 23:12:46	49 2.549 N	131 39.962 W		2005	168	169	2	Chloe Immonen				
33	test	CTD	BE		03-05-2024 23:46:10	03-05-2024 23:46:07	49 2.963 N	131 43.294 W	3114	150				Chloe Immonne yes	yes			dummied off pylon to test spikes
33	test	CTD	BO		03-05-2024 23:50:38	03-05-2024 23:50:33	49 2.943 N	131 43.305 W		150				Chloe Immonen				oxy spike at 30m, oxy, t, c spike at 170m on downcast
33	test	CTD	EN		03-05-2024 23:54:44	03-05-2024 23:54:40	49 2.95 N	131 43.312 W		150				Chloe Immonen				
34	P14	ROS	US	BE	04-05-2024 06:05:09	04-05-2024 06:05:06	49 7.339 N	132 39.938 W	3305		170	190	21	Chloe Immonne yes	yes	no		slow to get on station due to retermination of wire - thus only going to 2000m rather than full cast of b-10.
34	P14	ROS	US	BO	04-05-2024 06:41:03	04-05-2024 06:40:59	49 7.322 N	132 39.96 W		2000	170	190	21	Chloe Immonen				
34	P14	ROS	US	EN	04-05-2024 07:34:30	04-05-2024 07:34:24	49 7.287 N	132 39.979 W		2000	170	190	21	Chloe Immonen				pressure spike at ~1500 on descent, lots (32) errors between 1500 and 2000m, chirps at 1880, 1900, 1940
35	P15	ROS	US	BE	04-05-2024 12:51:13	04-05-2024 12:51:10	49 11.98 N	133 39.836 W	3390		191	192	2	Moira Galbrail yes	yes	yes		chirp and spike on entry
35	P15	ROS	US	BO	04-05-2024 13:12:47	04-05-2024 13:12:40	49 11.973 N	133 39.86 W		1005	191	192	2	Moira Galbraith				stop @ bottom to fix logger and try to get bottle sequencer
35	P15	ROS	US	EN	04-05-2024 13:30:30	04-05-2024 13:30:24	49 11.955 N	133 39.846 W			191	192	2	Moira Galbraith				
36	Loop 36	LOOP	UN	BE	04-05-2024 16:57:01	04-05-2024 16:56:54	49 15.265 N	134 18.085 W	3591	4.5	5036			Moira Galbrail NA	NA			1 sal 2chl
37	P16	ROS	US	BE	04-05-2024 18:49:28	04-05-2024 18:49:22	49 16.996 N	134 39.892 W	3616		193	195	3	Chloe Immonne yes	yes	yes		shallow Cs, cast to 150
37	P16	ROS	US	BO	04-05-2024 18:52:31	04-05-2024 18:52:27	49 16.988 N	134 39.898 W		150	193	195	3	Chloe Immonen				
37	P16	ROS	US	EN	04-05-2024 18:59:13	04-05-2024 18:59:08	49 16.984 N	134 39.922 W		150	193	195	3	Chloe Immonen				
38	P16	BOT	N/A	BE	04-05-2024 19:13:35	04-05-2024 19:13:29	49 16.99 N	134 39.948 W	3616		196	205	10	Danielle Caleb no	no	na		
38	P16	BOT	N/A	BO	04-05-2024 19:55:27	04-05-2024 19:55:21	49 16.923 N	134 39.97 W	3616	800	196	205	10	Danielle Caleb				
38	P16	BOT	N/A	MR	04-05-2024 19:57:06	04-05-2024 19:57:01	49 16.922 N	134 39.973 W			196	205	10	Danielle Caleb				
38	P16	BOT	N/A	EN	04-05-2024 20:42:33	04-05-2024 20:42:30	49 16.892 N	134 40.04 W			196	205	10	Danielle Caleb				
39	P16	ROS	US	BE	04-05-2024 20:53:02	04-05-2024 20:52:56	49 16.916 N	134 40.01 W	3616		206	224	19	Chloe Immonne yes	yes	yes		dms cst. chirp at 300m on descent
39	P16	ROS	US	BO	04-05-2024 21:04:18	04-05-2024 21:04:13	49 16.929 N	134 40.022 W		600	206	224	19	Chloe Immonen				
39	P16	ROS	US	EN	04-05-2024 21:29:57	04-05-2024 21:29:53	49 16.939 N	134 39.975 W		600	206	224	19	Chloe Immonen				
40	P16	NET	BE		04-05-2024 22:05:12	04-05-2024 22:05:05	49 17.008 N	134 39.963 W	3616	250				Chloe Immonne NA	NA			bongo
40	P16	NET	BO		04-05-2024 22:14:44	04-05-2024 22:14:41	49 17.018 N	134 40.009 W	3616	250				Chloe Immonen				
40	P16	NET	EN		04-05-2024 22:19:26	04-05-2024 22:19:19	49 17.047 N	134 40.034 W		250				Chloe Immonen				
41	P16	ROS	US	BE	04-05-2024 22:35:46	04-05-2024 22:35:39	49 17.011 N	134 40.031 W	3614	250	225	227	24	Marie Robert	yes	yes	yes	deep cs
41	P16	ROS	US	BO	04-05-2024 22:40:07	04-05-2024 22:40:03	49 17.016 N	134 40.009 W		250	225	227	24	Marie Robert				
41	P16	ROS	US	EN	04-05-2024 22:48:22	04-05-2024 22:48:16	49 17.003 N	134 40.028 W		250	225	227	24	Marie Robert				
42	P16	DRF	DE		04-05-2024 23:30:51	04-05-2024 23:30:48	49 16.233 N	134 37.15 W	3613					Marie Robert				PROVBIOH(CTS4) sn: P44168-230A001
43	P16	ROS	US	BE	05-05-2024 00:00:47	05-05-2024 00:00:40	49 17.005 N	134 39.967 W	3614		228	251	24	Chloe Immonen	yes	yes	no	deep, par off
43	P16	ROS	US	BO	05-05-2024 01:05:43	05-05-2024 01:05:38	49 16.988 N	134 39.977 W		3685	228	251	24	Chloe Immonen				oxy spike on downcast at 1300, 1500, 1700, chirps at 2100, oxygen spike at 3350, 3450, very fuzzy below ~2000m, big pressure spike at 3600. on upcast, had to stop for ~10 minutes at 3555 to adjust LARS head to stop the wire from touching a keeper on the sheave
43	P16	ROS	US	EN	05-05-2024 02:41:51	05-05-2024 02:41:43	49 16.99 N	134 39.963 W		3685	228	251	24	Chloe Immonen				after cast, swapped in new 9p-0443
44	Loop 44	LOOP	BE		05-05-2024 05:41:42	05-05-2024 05:41:35	49 20.289 N	135 27.244 W	3251	5	5044			Chloe Immonne NA	NA			1 sal, 2 chl
45	P17	ROS	US	BE	05-05-2024 06:35:02	05-05-2024 06:34:54	49 21.073 N	135 39.991 W	3380		252	253	2	Chloe Immonne yes	yes	no		new 9p-0443. also taking a loop at 5m (1 sal, 2 chl - 5045)
45	P17	ROS	US	BO	05-05-2024 06:51:46	05-05-2024 06:51:41	49 21.056 N	135 39.966 W		1000	252	253	2	Chloe Immonen				spikes on descent ~30m, 700m
45	P17	ROS	US	EN	05-05-2024 07:10:51	05-05-2024 07:10:46	49 21.064 N	135 39.943 W		1000	252	253	2	Chloe Immonen				
46	Loop 46	LOOP	UN	BE	05-05-2024 10:09:42	05-05-2024 10:09:38	49 25.243 N	136 26.778 W	3775	4.5	5046			Moira Galbrail NA	NA			
47	P18	ROS	US	BE	05-05-2024 11:11:26	05-05-2024 11:11:21	49 25.992 N	136 39.896 W	3810		254	277	24	Moira Galbrail yes	yes	no		oxy profile to calibrate new 9p
47	P18	ROS	US	BO	05-05-2024 12:16:32	05-05-2024 12:16:26	49 25.965 N	136 39.89 W		3892	254	277	24	Moira Galbraith				
47	P18	ROS	US	EN	05-05-2024 13:49:00	05-05-2024 13:48:55	49 25.931 N	136 39.922 W			254	277	24	Moira Galbraith				nut 277 didn't get frozen right away (probably 9 hours after sampling)
48	P18	LOOP	UN	BE	05-05-2024 11:32:23	05-05-2024 11:32:18	49 26.013 N	136 39.925 W	3810	4.5	5048			Lynn Wharran NA	NA			cesium loop
49	P19	CTD	BE		05-05-2024 19:44:23	05-05-2024 19:44:18	49 30.027 N	137 39.963 W	3902					Chloe Immonne yes	yes	yes		LARS tem adjusted the keeper on the sheave above the LARS head prior to cast
49	P19	CTD	EN		05-05-2024 20:03:53	05-05-2024 20:03:45	49 30.013 N	137 39.988 W		510				Chloe Immonen				computer glitch wasn't allowing archived data, noticed at 400. brought back to surface to start cast over. only going to 1500 to compensate
50	P19	ROS	US	BE	05-05-2024 20:04:41	05-05-2024 20:04:35	49 30.024 N	137 39.984 W			278	279	2		yes	yes	yes	
50	P19	ROS	US	BO	05-05-2024 20:31:34	05-05-2024 20:31:28	49 30.049 N	137 39.972 W	3902	1500	278	279	2	Chloe Immonen				redo of P19, only going to 1500 to account for lost ltime. chirp at 360 and 400 on descent. spikes at 55 and 1000 on descent
50	P19	ROS	US	EN	05-05-2024 20:55:53	05-05-2024 20:55:46	49 30.023 N	137 39.941 W		1500	278	279	2	Chloe Immonen				
51	Loop 51	LOOP	UN	BE	06-05-2024 01:01:43	06-05-2024 01:01:38	49 32.618 N	138 18.222 W	3956	5	5051			Laurny Talbot NA	NA			1 sal 2 chl
52	Loop 52	LOOP	UN	BE	06-05-2024 04:28:14	06-05-2024 04:28:10	49 34.368 N	138 45.87 W	3934	5	5052			Chloe I NA	NA			1 sal, 2 chl, near P20
53	Loop 53	LOOP	UN	BE	06-05-2024 08:22:40	06-05-2024 08:22:33	49 36.097 N	139 11.505 W	3914	4.5	5053			Moira Galbr				

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Log WorkBook

Vessel: JP Tully					Date Time Log										Log Work Book										CTD/Rosette Status				Institute of Ocean Sciences
Event Number	Station Name	Cast Type	Firing Method	Time Code	Date Time (UTC) ("dd-mm-yyyy hh:mm:ss")	Date Time (UTC) GPS ("dd-mm-yyyy hh:mm:ss")	Positional Information (DD MM.MMM) ("dd-mm-yyyy hh:mm:ss")		Sounder Depth (m)	Max Sampling Pressure	Sample Number		# of Bottles	Watch Keepers	Trans. Cleaned	Fluorometer Cleaned	PAR Status	Comments											
							Latitude	Longitude			Start	End																	
69 P26	BOT	MR	EN		08-05-2024 08:22:39	08-05-2024 08:22:33	50 0.013 N	144 59.964 W		200	332	338	7	Danielle Caleb															
70 P26	ROS	US	BE		08-05-2024 08:40:31	08-05-2024 08:40:23	50 0.022 N	144 59.976 W	4231		339	362	24	Moira Galbrail	yes	no		Deep cast											
70 P26	ROS	US	BO		08-05-2024 09:52:48	08-05-2024 09:52:39	50 0 N	145 0.005 W		4318	339	362	24	Moira Galbraith				sal spike 609 descent											
70 P26	ROS	US	EN		08-05-2024 11:35:02	08-05-2024 11:34:52	50 0.041 N	144 59.992 W		4318	339	362	24	Moira Galbraith															
71 P26	NET		BE		08-05-2024 12:37:39	08-05-2024 12:37:34	50 0.042 N	145 0.136 W	4219					Moira Galbrail NA		NA		bongo											
71 P26	NET		BO		08-05-2024 12:48:17	08-05-2024 12:48:09	50 0.031 N	145 0.103 W		250				Moira Galbraith															
71 P26	NET		EN		08-05-2024 12:53:12	08-05-2024 12:53:03	50 0.034 N	145 0.081 W		250				Moira Galbraith															
72 P26	BOT	N/A	BE		08-05-2024 13:08:02	08-05-2024 13:07:57	50 0.011 N	145 0.128 W	4215	1500	363	368	6	Danielle Caleb NA		NA		deep tm											
72 P26	BOT	N/A	MR		08-05-2024 13:57:48	08-05-2024 13:57:43	50 0.073 N	145 0.02 W		1500	363	368	6	Danielle Caleb				mr 30 minutes											
72 P26	BOT	N/A	EN		08-05-2024 15:11:05	08-05-2024 15:11:00	50 0.039 N	145 0.006 W		1500	363	368	6	Danielle Caleb															
73 P26	ROS	US	BE		08-05-2024 15:23:41	08-05-2024 15:23:34	50 0.023 N	144 59.993 W	4214		369	371	3	Moira Galbrail	yes	yes		cesium deep											
73 P26	ROS	US	BO		08-05-2024 15:28:45	08-05-2024 15:28:35	50 0.022 N	145 0.052 W		250	369	371	3	Moira Galbraith				par on											
73 P26	ROS	US	EN		08-05-2024 15:38:01	08-05-2024 15:37:53	50 0.015 N	145 0.079 W		250	369	371	3	Moira Galbraith				unravelling the kevlar for TM winch											
74 P26	ROS	US	BE		08-05-2024 17:11:25	08-05-2024 17:11:15	50 0.046 N	145 0.001 W	4214		375	377	3	Moira Galbrail	yes	yes		cesium shallow											
74 P26	ROS	US	BO		08-05-2024 17:15:06	08-05-2024 17:14:58	50 0.045 N	145 0.001 W		150	375	377	3	Moira Galbraith															
74 P26	ROS	US	EN		08-05-2024 17:23:23	08-05-2024 17:23:15	50 0.044 N	145 0.002 W		150	375	377	3	Moira Galbraith															
75 P26	BOT	MR	BE		08-05-2024 17:32:40	08-05-2024 17:32:34	50 0.043 N	144 59.999 W	4215		372	374	3	Danielle Caleb NA		NA		Go-Flo to 70m											
75 P26	BOT	MR	BO		08-05-2024 17:46:15	08-05-2024 17:46:09	50 0.046 N	144 59.998 W		225	372	374	3	Danielle Caleb				daisy chain 10m sampling											
75 P26	BOT	MR	EN		08-05-2024 18:07:17	08-05-2024 18:07:12	50 0.049 N	144 59.989 W		225	372	374	3	Danielle Caleb															
76 P26	ROS	US	BE		08-05-2024 18:21:17	08-05-2024 18:21:09	50 0.049 N	144 59.984 W	4215		378	397	20	Chloe Immonne	yes	yes		dms, added back green transmissometer											
76 P26	ROS	US	BO		08-05-2024 18:31:57	08-05-2024 18:31:48	50 0.049 N	144 59.986 W		600	378	397	20	Chloe Immonen				par on											
76 P26	ROS	US	EN		08-05-2024 18:57:00	08-05-2024 18:56:51	50 0.05 N	144 59.979 W		600	378	397	20	Chloe Immonen															
77 Loop 77	LOOP		BE		09-05-2024 05:01:40	09-05-2024 05:01:36	49 49.624 N	142 27.381 W	4016	5	5077			Chloe Immonne NA		NA		1 sal 2 chl											
78 Loop 78	LOOP	UN	BE		09-05-2024 11:27:05	09-05-2024 11:27:00	49 42.102 N	140 37.471 W	3849	4.5	5078			Moira Galbrail NA		NA		1 sal 2chl											
79 P21	ROS	US	BE		09-05-2024 14:57:52	09-05-2024 14:57:45	49 38.026 N	139 40.01 W	3931		398	400	3	Moira Galbrail	yes	yes		loop1 sal 2chl											
79 P21	ROS	US	BO		09-05-2024 15:27:53	09-05-2024 15:27:44	49 38.031 N	139 40.009 W		1505	398	400	3	Moira Galbraith															
79 P21	ROS	US	EN		09-05-2024 15:56:03	09-05-2024 15:55:53	49 38.001 N	139 39.999 W		1505	398	400	3	Moira Galbraith															
80 P20	BOT	MR	BE		09-05-2024 19:43:24	09-05-2024 19:43:17	49 34.065 N	138 39.971 W	3986		400	409	10	Danielle Caleb NA		NA		Trace metals											
80 P20	BOT	MR	BO		09-05-2024 20:19:23	09-05-2024 20:19:18	49 34.064 N	138 39.859 W		800	400	409	10	Danielle Caleb															
80 P20	BOT	MR	MR		09-05-2024 20:19:25	09-05-2024 20:19:18	49 34.064 N	138 39.859 W			400	409	10	Danielle Caleb															
80 P20	BOT	MR	EN		09-05-2024 21:03:10	09-05-2024 21:03:03	49 34.047 N	138 39.766 W			400	409	10	Danielle Caleb															
81 P20	ROS	US	BE		09-05-2024 21:14:49	09-05-2024 21:14:38	49 34.012 N	138 39.77 W	3940		410	428	19	Chloe Immonne	yes	yes		dms, par on, seapoint on with new cable											
81 P20	ROS	US	BO		09-05-2024 21:25:41	09-05-2024 21:25:33	49 34.028 N	138 39.783 W		600	410	428	19	Chloe Immonen															
81 P20	ROS	US	EN		09-05-2024 21:51:06	09-05-2024 21:50:58	49 34.041 N	138 39.748 W		600	410	428	19	Chloe Immonen															
82 P20	NET		BE		09-05-2024 22:35:34	09-05-2024 22:35:27	49 34.031 N	138 40.008 W	3986	250				Chloe Immonne NA		NA		bongo											
82 P20	NET		BO		09-05-2024 22:44:24	09-05-2024 22:44:18	49 34.002 N	138 39.991 W		250				Chloe Immonen															
82 P20	NET		EN		09-05-2024 22:49:24	09-05-2024 22:49:18	49 33.987 N	138 39.962 W		250				Chloe Immonen															
83 P20	ROS	US	BE		09-05-2024 23:03:51	09-05-2024 23:03:43	49 33.988 N	138 40.002 W	3940		429	452	24	Marie Robert	yes	yes	no	deep cast, par off											
83 P20	ROS	US	BO		10-05-2024 00:11:41	10-05-2024 00:11:32	49 34.013 N	138 39.916 W		4027	429	452	24	Marie Robert															
83 P20	ROS	US	EN		10-05-2024 01:34:30	10-05-2024 01:34:19	49 33.978 N	138 39.952 W		4027	429	452	24	Marie Robert															
84 Loop 84	LOOP		BE		10-05-2024 05:34:12	10-05-2024 05:34:05	49 42.712 N	137 37.932 W	3907	5	5084			Chloe Immonne NA		NA		1 sal, 2 chl											
85 Loop 85	LOOP		BE		10-05-2024 10:58:21	10-05-2024 10:58:13	49 54.829 N	136 8.846 W		3661	4.5	5085		Moira Galbrail NA		NA		1 sal 2 chl											
86 Loop 86	LOOP		BE		10-05-2024 19:06:15	10-05-2024 19:06:10	50 15.075 N	133 46.286 W		3246	5	5086		Chloe Immonne NA		NA		1 sal, 2 chl											
87 Loop 87	LOOP		BE		10-05-2024 23:33:18	10-05-2024 23:33:11	50 16.298 N	132 36.298 W		2475	5	5087		Chloe Immonne NA		NA		1 sal, 2 chl											
88 Scott3	CTD		BE		11-05-2024 09:39:00	11-05-2024 09:38:49	50 50.721 N	129 29.415 W		239				Danielle Caleb	yes	yes	no												
88 Scott3	CTD		BO		11-05-2024 09:43:18	11-05-2024 09:43:07	50 50.715 N	129 29.409 W			230			Danielle Caleb															
88 Scott3	CTD		EN		11-05-2024 09:47:27	11-05-2024 09:47:18	50 50.705 N	129 29.397 W			230			Danielle Caleb															
89 Scott3	NET		BE		11-05-2024 09:58:13	11-05-2024 09:58:05	50 50.704 N	129 29.414 W	238	230				Moira Galbrail NA		NA		bongo											
89 Scott3	NET		BO		11-05-2024 10:07:21	11-05-2024 10:07:14	50 50.705 N	129 29.415 W			230			Moira Galbraith															
89 Scott3	NET		EN		11-05-2024 10:12:08	11-05-2024 10:12:03	50 50.717 N	129 29.41 W			230			Moira Galbraith															
90 CPE1	CTD		BE		11-05-2024 16:22:19	11-05-2024 16:22:07	51 0.018 N	127 50.235 W	142					Danielle Caleb	yes	yes	yes												
90 CPE1	CTD		BO		11-05-2024 16:25:15	11-05-2024 16:25:06	51 0.034 N	127 50.276 W			131			Danielle Caleb															
90 CPE1	CTD		EN		11-05-2024 16:28:11	11-05-2024 16:28:01	51 0.062 N	127 50.334 W			131			Danielle Caleb															
91 CPE1	NET		BE		11-05-2024 16:41:43	11-05-2024 16:41:34	51 0.004 N	127 50.038 W	142					Moira Galbrail NA		NA		bongo											
91 CPE1	NET		BO		11-05-2024 16:46:33	11-05-2024 16:46:28	51 0.006 N	127 50.015 W			135			Moira Galbraith															
91 CPE1	NET		EN		11-05-2024 16:49:14	11-05-2024 16:49:08	51 0.003 N	127 50.008 W			135			Moira Galbraith															
92 Loop 92	LOOP		BE		12-05-2024 03:57:21	12-05-2024 03:57:13	50 29.291 N	126 16.96 W	355	5	5092			Chloe Immonne NA		NA		1 sal, 2 chl											
93 Loop 93	LOOP		BE		12-05-2024 05:45:53	12-05-2024 05:45:47	50 22.584 N	125 46.896 W		162	5	5093		Andrew Hicks NA		NA		3H only											
94	16 CTD		BE		12-05-2024 12:11:28	12-05-2024 12:11:18	49 57.687 N	125 8.832 W		156				Danielle Caleb	yes	yes	yes												
94	16 CTD		BO		12-05-2024 12:14:40	12-05-2024 12:14:29	49 57.699 N	125 8.825 W		154	149			Danielle Caleb															
94	16 CTD		EN		12-05-2024 12:17:40	12-05-2024 12:17:28	49 57.708 N	125 8.792 W			149			Danielle Caleb															
95	12 NET		BE		12-05-2024 17:10:41	12-05-2024 17:10:32	49 43.61 N	124 40.536 W		355	350			Moira Galbrail NA		NA													
95	12 NET		BO																										

DAILY SCIENCE LOG

Ocean Sciences Division, Institute of Ocean Sciences



Cruise Number: 2024-006
Vessel: JP Tully

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 (DD 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	P&R Status	
101	GEO1	ROS	US	BE	13-05-2024 02:23:20	13-05-2024 02:23:08	49 15.016 N	123 44.952 W	400		493	500	8	Chloe Immonne	yes	yes	yes	chirp and error at 390 on ascent
101	GEO1	ROS	US	BO	13-05-2024 02:30:57	13-05-2024 02:30:46	49 15.011 N	123 44.977 W		399	493	500	8	Chloe Immonen				
101	GEO1	ROS	US	EN	13-05-2024 02:45:57	13-05-2024 02:45:44	49 15.037 N	123 44.993 W		399	493	500	8	Chloe Immonen				
102	42	NET		BE	13-05-2024 04:44:56	13-05-2024 04:44:50	49 1.765 N	123 26.184 W	319	314				Michael Arych	NA			bongo
102	42	NET		BO	13-05-2024 04:55:39	13-05-2024 04:55:33	49 1.789 N	123 26.229 W		314				Michael Arychuk				
102	42	NET		EN	13-05-2024 05:01:47	13-05-2024 05:01:38	49 1.815 N	123 26.253 W		314				Michael Arychuk				
103	42	ROS	US	BE	13-05-2024 05:18:24	13-05-2024 05:18:11	49 1.789 N	123 26.28 W	319		504	518	15	Chloe Immonne	yes	yes	yes	
103	42	ROS	US	BO	13-05-2024 05:24:50	13-05-2024 05:24:38	49 1.778 N	123 26.294 W		318	504	518	15	Chloe Immonen				
103	42	ROS	US	EN	13-05-2024 05:42:05	13-05-2024 05:41:54	49 1.774 N	123 26.319 W		318	504	518	15	Chloe Immonen				
104	loop 104	LOOP		BE	13-05-2024 01:00:46	13-05-2024 01:00:33	49 19.048 N	123 47.976 W	344	5	5104			Andrew Hicks				3H loop sample
105	46	ROS	US	BE	13-05-2024 07:27:42	13-05-2024 07:27:31	48 51.363 N	123 10.847 W			519	521	3		yes	yes	yes	
105	46	ROS	US	BO	13-05-2024 07:32:09	13-05-2024 07:31:57	48 51.364 N	123 10.849 W	181	179	519	521	3	Danielle Caleb				
105	46	ROS	US	EN	13-05-2024 07:37:17	13-05-2024 07:37:05	48 51.366 N	123 10.848 W		179	519	521	3	Danielle Caleb				
106	46	NET		BE	13-05-2024 07:47:20	13-05-2024 07:47:11	48 51.386 N	123 10.81 W	179	174				Moirra Galbrail	NA			
106	46	NET		BO	13-05-2024 07:53:04	13-05-2024 07:52:58	48 51.386 N	123 10.81 W		174				Moirra Galbraith				
106	46	NET		EN	13-05-2024 07:56:26	13-05-2024 07:56:19	48 51.39 N	123 10.807 W		174				Moirra Galbraith				