

Cruise Number:	2023-007	Contact:	Julian Smith
Vessel:	Franklin	Equipment Description/Serial Number (ex. Bongo #1)	New Bongo Style, 60cm mouth
Project:	SoG Pelagic Eco Survey	Additional Notes	

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
7129	79108	BONGO	VNH	236	YES	YES	NO

Print
Zooplankton
Labels - Under
Construction

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
				Latitude	Longitude													
24-02-2023 03:31:28	SC-04	2	3	48 43.441 N	123 25.161 W	86	13	96	BONGO	250	VNH	15620	16212	7099	79108	New Bongo S	Formalin	
24-02-2023 04:59:28	GI-01	5	4	48 45.759 N	123 20.627 W	54	10	64	BONGO	250	VNH	16212	18659	7099	79108	New Bongo S	Frozen	flow looks too high, likely spun in wind
24-02-2023 06:41:40	59	6	7	48 36.847 N	123 14.648 W	215		27 220	BONGO	250	VNH	18660	25300	7099	79108	New Bongo S	Formalin	kept wire out at 215 even if shallowing up due to wire angle/very windy strong current
24-02-2023 11:21:30	46	9	10	48 51.432 N	123 10.879 W	166		20 175	BONGO	250	VNH	25300	26485	7099	79108	New Bongo S	Frozen	
25-02-2023 03:46:14	42	12	12	49 1.951 N	123 26.387 W	306		10 316	BONGO	250	VNH	26485	28490	7099	79108	New Bongo S	Formalin	picked 20 Parasagitta elegans in etoh for Cat from flow side
25-02-2023 06:18:26	38	14		39 49 11.976 N	123 26.277 W		292	0 301	BONGO	250	VNH	28490	30338	7099	79108	New Bongo S	Formalin	Removed 20 EUPPA from flow side for Cat lipids
25-02-2023 09:41:26	40	16		17 49 8.646 N	123 36.586 W		124	7 133	BONGO	250	VNH	30338	31169	7099	79108	New Bongo Style		
25-02-2023 11:06:25	GEO1	18	19	49 15.071 N	123 44.94 W	387		0 397	BONGO	236	VNH	31170	33600	7099	79108	New Bongo S	Formalin	removed 14xPATEL for Cat gut DNA, 3xTOMPA in EtOH, 6xTHYSP & 6xEUPPA both for Cat lipids all from non-flow side
25-02-2023 19:29	MPS1		21	49 14.711	123 41.781			390 MPS		250	HOR		72				Formalin	Net 1 - 0-370m
25-02-2023 19:32	MPS1		21	49 14.573	123 41.954			390 MPS		250	HOR		12				Formalin	Net 2 - 370-275-350-250m
25-02-2023 19:43	MPS1		21	49 14.484	123 42.079			390 MPS		250	HOR		21				Formalin	Net 3 - 250-130-200-125m
25-02-2023 19:52	MPS1		21	49 14.397	123 42.196			390 MPS		250	HOR		4				Formalin	Net 4 - 125-75-125-75m
25-02-2023 19:58	MPS1		21	49 14.364	123 42.253			390 MPS		250	HOR		0				Formalin	Net 5 - 75-0
25-02-2023 20:49:33	MPS1	22	NA	49 13.899 N	123 42.701 W		45	389	TUCKER	1000	Oblique	66695	75418				Formalin	TUCKER
26-02-2023 04:49:48	CPF1		25 24	49 22.04 N	124 4.984 W	232	12	242	BONGO	250	VNH	33746	38079	7099	79108	New Bongo S	Formalin	20+ knots wind. Picked 20xEUPPA, 3xTHYSP, 3xTHYLO for Cat lipids from non-flow side
26-02-2023 10:16:13	CPF2		29 30	49 28.027 N	124 30.012 W	313	5	323	BONGO	250	VNH	38114	40181	7099	79108	New Bongo S	Formalin	Picked 20xPATEL for Cat into EtOH, 42xPSE-- stages V & VI for Cat into -80C for lipids all from non-flow side
26-02-2023 22:37:35	CT05		31	49 21.148 N	124 7.611 W		390	0 409	MPS	250	Oblique		102,21,34,13,20				Formalin	Time stamps in log for net firing

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number:	2023-007	Contact:	Julian Smith
Vessel:	Franklin	Equipment Description/Serial Number (ex. Bongo #1)	New Bongo Style, 60cm mouth
Project:	SoG Pelagic Eco Survey	Additional Notes	

Zooplankton Default Parameters

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
7129	79108	BONGO	VNH	236	YES	YES	NO

Print
Zooplankton
Labels - Under
Construction

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
				Latitude	Longitude													
26-02-2023 23:10:47	CT05	32		49 21.401 N	124 8.37 W	495	35	409	TUCKER	1000	Oblique	82560	86295				Formalin	10xPATEL for Cat in EtOH, 20xEUPPA and 4xTHYSP for Cat frozen -80C
27-02-2023 03:24:27	BS-11	33 34		49 28.984 N	124 45.906 W	55	0	60	BONGO	250	VNH	40180	40185 7099		79108	New Bongo S	Frozen	Flow-meter stuck- Better to calculate volume by wire out, angle, and net diameter.
27-02-2023 07:40:49	12	36 37		49 43.49 N	124 40.892 W	340	0	350	BONGO	250	VNH			7099	79108	New Bongo S	Frozen	there is a problem with the flow meter...didn't move. Swapped TSK7099 for TSK7129. Removed 3x Calliopius into EtOH (two from flow and one from non-flow side)
27-02-2023 10:22:46	14	38 39		49 53 N	124 59.549 W	302	0	312	BONGO	250	VNH	21010	22969	7129	79108	New Bongo S	Frozen	Picked 16xPATEL from non-flow for Cat Gut DNA => EtOH
27-02-2023 23:09:12	CT06	40		49 44.753 N	124 43.145 W	460	45	352	TUCKER	1000	Oblique	86295	90533				Formalin	Picked 20x PATEL for Cat in EtOH; 20x EUPPA, 1x THYSP, 20x CYPCH, 20x THEPA, 14x PRIAB for Cat lipids in -80C; 10x 16mm EUPPAf, 2x 19mm EUPPAf, 5x 15mm EUPPAf, 5x 16mm EUPPAf, 5x 16mm EUPPAf, 5x 13mm EUPPAf, 5x 16mm EUPPAf picked for biomass-length stored at -80C
28-02-2023 04:58:42	22	42 43		49 39.97 N	124 16.376 W	337	10	347	BONGO	250	VNH	22978	25345	7129	79108	New Bongo S	Frozen	Removed 20xEUPPA s3, 1XFlat Fish larva s3, 10xCLILI >s1 into EtOH from non-flow side
Time	JE03	46 47		Lat	Long	658	0	668	BONGO	250	VNH	25347	29502	7129	79108	New Bongo S	Ethanol	
01-03-2023 03:34:07	BU04	48 49		50 35.332 N	124 53.92 W	621		0 626	BONGO	250	VNH	29501	33410 7129		79108	New Bongo S	Ethanol	Removed 30xCALMA females for lipids, 30xEUCBU V and VI females for lipids, 1xCLILI s3, 1xCLILI s1, 3x LIMHE all from non-flow side

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number:	2023-007	Contact:	Julian Smith
Vessel:	Franklin	Equipment Description/Serial Number (ex. Bongo #1)	New Bongo Style, 60cm mouth
Project:	SoG Pelagic Eco Survey	Additional Notes	

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
7129	79108	BONGO	VNH	236	YES	YES	NO

Print
Zooplankton
Labels - Under
Construction

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
				Latitude	Longitude													
01-03-2023 09:57:42	BU08		54 53	50 53.27 N	124 50.479 W	216	0	221	BONGO	250	VNH	33410	34802	7129	79108	New Bongo S	Formalin Ethanol	Bottom time likely missed by a couple of minutes
01-03-2023 18:54:02	CT08	55		50 39.384 N	124 53.465 W		25	556	Multi-Net	250	Oblique		112-72-26-7-0				Formalin	Net time stamps in log
01-03-2023 19:32:51	CT08		56	50 38.548 N	124 53.284 W		550 45		585 TUCKER	1000	oblique	90530	97410				Ethanol	No fin
																		Fin on; Picked 20x PATEL for DNA, 20x EUPPA, 2x THYSP, 20x CYPCH for Cat lipids. Picked 5x 18mm EUPPA, 5x 19mm EUPPA, 5x 20mm EUPPA, 2x 23mm EUPPA, 3x 22mm EUPPA, 3x 13mm EUPPA for length-biomass
01-03-2023 20:35:47	CT08		57	50 36.849 N	124 53.473 W		550 45	603	TUCKER	1000	Oblique	97410	08320				Formalin	some clay on the weights, sediment in the sample, heart urchin caught and preserved in EtOH side
02-03-2023 06:32:06	HC2		60 61	50 17.682 N	124 40.1 W	700	0		705 BONGO	250	VNH	34802	39195	7129	79108	New Bongo S	Formalin etoh	Removed 1xMysis into EtOH, 10xNANBI into -80 for Cat lipids, all from non-flow side.
02-03-2023 12:47:33	T05		67 66	50 27.75 N	124 23.855 W	180	0	190	BONGO	250	VNH	39195	40347	7129	79108	New Bongo S	Formalin	Time stamps on log
02-03-2023 17:13:12	Toba1	68		50 21.501 N	124 42.732 W	475	25	495	Multi-Net	250	Oblique		95-2-5-49-23				Ethanol	Picked 20x PATEL in EtOH for Cat; 20x CYPCH, 12x THYSP, 20x EUPPA for Cat lipids at -80C; 5x 15mm EUPPA, 3x 20mm EUPPA, 2x 13mm THYSP, 5x 17mm EUPPA, 1x 21mm EUPPA, 5x 13mm EUPPA, 5x 14mm EUPPA, 1x 16mm THYSP for length-biomass
02-03-2023 17:41:57	Toba1	70		50 20.999 N	124 43.332 W	475	25	495	TUCKER	1000	Oblique	08320		19220			Formalin	First flow reading is wrong
02-03-2023 23:18:30	CT10	71		50 1.172 N	124 52.808 W	250	25	273	TUCKER	1000	Oblique	19220	14357				Formalin	

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number:	2023-007	Contact:	Julian Smith
Vessel:	Franklin	Equipment Description/Serial Number (ex. Bongo #1)	New Bongo Style, 60cm mouth
Project:	SoG Pelagic Eco Survey	Additional Notes	

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
7129	79108	BONGO	VNH	236	YES	YES	NO

Print
Zooplankton
Labels - Under
Construction

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
				Latitude	Longitude													
Time	CT10	71		Lat	Long		25	273	Multi-Net	250	Oblique		38				Formalin	Cast was a fail. Got turned sideways and net release lever got hung up and nets did not drop. Put all 5 codends in one jar as was not confident in where nets were firing
03-03-2023 18:33:31	CT11	78		49 43.502 N	124 21.356 W	300	45	315	TUCKER	1000	Oblique	14357	17995				Formalin	Picked 20x PATEL in EtOH for Cat DNA; 15x THYSP and 20x EUPPA for Cat lipids; 3x 21mm EUPPA, 5x 17mm EUPPA, 5x 18mm EUPPA, 5x 16mm EUPPA, 5x 15mm EUPPA, 3x 19mm EUPPA, 5x 14mm EUPPA for length-biomass
04-03-2023 00:37:38	CT12	79		49 31.248 N	124 6.013 W	400	45	410	TUCKER	1000	Oblique	17995	23931				Formalin	Picked 4x THYSP and 20x EUPPA for Cat lipids at -80C; picked 5x 14mm EUPPA, 5x 16mm EUPPA, 1x 20mm EUPPA, 5x 15mm EUPPA, 5x 17mm EUPPA, 5x 13mm EUPPA for length-biomass
04-03-2023 01:47:14	CT12	80		49 31.023 N	124 7.032 W	370	45	410	Multi-Net	250	Oblique		122,17,50,103,				Formalin	Time stamps in log for net firing
04-03-2023 03:01:42	24		82 81	49 30.307 N	124 6.101 W	412	0	422	BONGO		250 VNH	40347	43990	7129		79108 New Bongo S	Frozen Formalin	Removed 2xTHYSP into -80 for Cat lipis, and 11xCLILI and 1xMysis into EtOH, all from non-flow side
04-03-2023 13:48:35	JE10		91 90	50 11.377 N	123 57.38 W	252		261	BONGO		250 VNH		43990	44609	7129	79108 New Bongo S	Ethanol	
04-03-2023 18:08:45	CT13	92		50 4.653 N	123 47.919 W	500	45	527	Multi-Net	250	Oblique		208,154,63,32,				Formalin	Time stamps in log for net firing

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Cruise Number:	2023-007	Contact:	Julian Smith
Vessel:	Franklin	Equipment Description/Serial Number (ex. Bongo #1)	New Bongo Style, 60cm mouth
Project:	SoG Pelagic Eco Survey	Additional Notes	

Zooplankton Default Parameters

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
7129	79108	BONGO	VNH	236	YES	YES	NO

Print
Zooplankton
Labels - Under
Construction

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
				Latitude	Longitude													
04-03-2023 18:45:15	CT13	93		50 4.453 N	123 48.153 W	500	45	511	TUCKER	1000	Oblique	23931	29460				Formalin	Picked 10x PATEL for Cat in EtOH; 5x 18mm EUPPA, 5x 17mm EUPPA, 3x 19mm EUPPA, 5x 15mm EUPPA, 5x 14mm EUPPA, 5x 20mm EUPPA, 5x 16mm EUPPA, 1x 20mm THYSP for length-biomass
05-03-2023 00:02:42	CT13	94		49 52.221 N	123 53.572 W	600	45	656	TUCKER	1000	Oblique	29460	37137				Formalin	
05-03-2023 04:57:47	28		95 96	49 24.085 N	123 45.285 W	121	7	131	BONGO	250	VNH	44609	45460	7129	79108	New Bongo S	Formalin	Removed ~18 PATEL s3 for Cat for Gut DNA analysis. Also took two 4L water samples for eDNA to accompany the chaetos. Samples taken from surface and bot-10.
05-03-2023 09:09:30	HS6	99	100	49 30.503 N	123 16.726 W	222		5 234	BONGO	250	VNH		45460	46941	7129	79108	New Bongo S	Frozen
05-03-2023 13:02:13	HS11		104 105	49 39.282 N	123 14.412 W	212	0		222	BONGO	250	VNH	46943	48295	7129	79108	New Bongo S	Ethanol
05-03-2023 18:51:08	CT15	107		49 27.058 N	123 16.984 W	225	45	244	TUCKER	1000	Oblique	36865	40975	8558				Formalin
06-03-2023 00:03:16	CT16	111		49 16.957 N	123 22.26 W	225	45	253	TUCKER	1000	Oblique	40989	45590	8558				Formalin