

Zooplankton Net Tow Log

Ocean Sciences Division, Institute of Ocean Sciences

Zooplankton Default Parameters

Cruise Number:	2024-032	Contact:	Kelly Young
Vessel:	Franklin	Equipment Description/Serial Number (ex. Bongo #1)	#1
Project:	Strait of Georgoa Ecosystem Survey		Spectacles

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
7129	Silver	BONGO	VNH	250	YES	YES	NO

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Date Time (UTC)	GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth BE (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
					Latitue	Longitude													
22-02-2024 04:31:43	SC-04		2	3	48 43.532 N	123 24.825 W	70	5	80	BONGO	250	VNH	76040	76469	7129	Silver	spectacles	Formalin Frozen	
22-02-2024 06:11:01	GI-01		5	4	48 45.735 N	123 20.472 W	54	15	64	BONGO	250	VNH	76469	76819	7129	Silver	spectacles	Frozen	missed BO time stamp; using EN time stamp
22-02-2024 07:57:01	59		6	7	48 37.127 N	123 14.938 W	213	10	223	BONGO	250	VNH	76819	78271	7129	Silver	spectacles	Frozen	depth changed during cast
22-02-2024 11:16:50	46		9	10	48 51.364 N	123 10.986 W	186	0	186	BONGO	250	VNH	78275	79310	7129	Silver	spectacles	Frozen	
22-02-2024 18:52:16	MPS01		11		48 57.235 N	123 22.799 W	185		206	HMPS	250	HNH		62			MPS	formalin	net 1 open 0-185m 62m3. horizontal ship speed ~1.5kn, winch 30m/s
22-02-2024 19:01:38	MPS01		11		48 57.082 N	123 22.518 W	185		206	HMPS	250	HNH		8			MPS	formalin	net 2 open 185-150m 8m3
22-02-2024 19:03:22	MPS01		11		48 57.052 N	123 22.486 W	150		206	HMPS	250	HNH		14			MPS	formalin	net3 open 150-100m 14m3
22-02-2024 19:06:23	MPS01		11		48 57.016 N	123 22.409 W	100		206	HMPS	250	HNH		31			MPS	formalin	net4 open 100-50m 31m3
22-02-2024 19:10:08	MPS01		11		48 56.963 N	123 22.314 W	50		206	HMPS	250	HNH		28			MPS	formalin	net5 open 50-0m 28m3
23-02-2024 00:24:51	MPS02		12		49 6.835 N	123 29.746 W	320		350	HMPS	250	HNH		174			MPS	formalin	net 1 open 0-320m 174m3. horizontal ship speed ~1.0kn, winch 30m/s
23-02-2024 00:49:00	MPS02		12				320			HMPS	250	HNH		42			MPS	formalin	net 2 open 320-200m 42m3
23-02-2024 00:53:26	MPS02		12		49 7.066 N	123 29.063 W	200			HMPS	250	HNH		44			MPS	formalin	net 3 open 200-100m 44m3
23-02-2024 00:59:44	MPS02		12		49 7.075 N	123 28.944 W	100			HMPS	250	HNH		21			MPS	formalin	net 4 open 100-50m 21m3
23-02-2024 01:04:23	MPS02		12		49 7.09 N	123 28.874 W	50			HMPS	250	HNH		16			MPS	formalin	net 5 open 50-0m 16m3
23-02-2024 04:45:51	GEO1		13	14	49 14.882 N	123 44.895 W	390	0	399	BONGO	250	VNH	79310	81549	7129	Silver	spectacles	Formalin Frozen	
23-02-2024 07:18:16	42		15	16	49 01.788 N	123 26.618 W	306	10	319	BONGO	250	VNH	81549	83476	7129	Silver	spectacles	Frozen	
23-02-2024 09:54:28	38		18	17	49 12.214 N	123 26.298 W	290	5	299	BONGO	250	VNH	83478	85205	7129	Silver	spectacles	Formalin Frozen	
23-02-2024 11:27:57	40		20	21	49 08.607 N	123 36.825 W	143	0	146	BONGO	250	VNH	85206	86119	7129	Silver	spectacles	Frozen	
23-02-2024 19:38:41	MPS03		22		49 15.358 N	123 38.961 W	360		378	HMPS	250	HNH		151		NA	MPS	formalin	0-360m NMEA feed timeout error. 360-250
23-02-2024 19:55:30	MPS03		22				360		378	HMPS	250	HNH		34			MPS	formalin	250
23-02-2024 20:02:37	MPS03		22		49 15.269 N	123 39.837 W	250			HMPS	250	HNH		77			MPS	formalin	250-150m
23-02-2024 20:11:31	MPS03		22		49 15.236 N	123 40.161 W	150			HMPS	250	HNH		72			MPS	formalin	150-50m
23-02-2024 20:20:25	MPS03		22		49 15.214 N	123 40.482 W	50		387	HMPS	250	HNH		36			MPS	formalin	50-0m
24-02-2024 02:40:55	Tucker1		23		49 18.321 N	123 58.302 W	400	40	414	Tucker	1000	Oblique	5113	13013	4926		Tucker	Formalin	Picked and frozen at -80C for Cat Stevens (Uvic): 10x EUPPA, 9x THYSP, 4x THYLO; Picked for Julian EtOH DNA: 3x PRIAB, 1x LIMHE
24-02-2024 05:19:26	28		26	25	49 24.06 N	123 45.248 W	122	0	132	BONGO	250	VNH	86119	86814	7129	Silver	spectacles	Formalin Frozen	
24-02-2024 07:30:46	24		27	28	49 30.323 N	124 5.979 W	412	0	421	BONGO	250	VNH	86813	89122	7129	Silver	spectacles	Formalin Frozen	
24-02-2024 09:52:32	CPF1		30	31	49 22.009 N	124 5.219 W	235	0	243	BONGO	250	VNH	89122	90448	7129	Silver	spectacles	Frozen	
24-02-2024 19:52:16	MPS04		32		49 23.077 N	124 17.242 W	325		320	HMPS	250	HNH		237			MPS	formalin	net 1 open 0-325m. Picked 10 euppa-s3 for Cat

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Vessel:	Franklin	Equipment Description/Serial Number (ex. Bongo #1)	#1
Project:	Strait of Georgia Ecosystem Survey		Spectacles

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
7129	Silver	BONGO	VNH	250	YES	YES	NO

Date Time (UTC)	GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth BE (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
					Latitute	Longitude													
24-02-2024 20:16:25		MPS04	32		49 23.393 N	124 16.443 W	325		352	HMPS	250	HNH		28			MPS	formalin	net 2 open 325-250 net 3 open 250-150m net 4 open 150-50m. Layer of euphausiids and chaetognaths. Picked 5 euppa-s3, 4 Thryo-s3 for Cat
24-02-2024 20:21:03		MPS04	32		49 23.447 N	124 16.283 W	250			HMPS	250	HNH		60			MPS	formalin	
24-02-2024 20:30:08		MPS04	32		49 23.56 N	124 15.994 W	150			HMPS	250	HNH		68			MPS	formalin	
24-02-2024 20:38:36		MPS04	32		49 23.673 N	124 15.711 W	50			HMPS	250	HNH		35			MPS	formalin	
25-02-2024 01:57:02		MPS05	33		49 26.577 N	124 20.117 W	300		321	HMPS	250	HNH		180	NA	NA			
25-02-2024 02:18:38		MPS05	33		49 26.445 N	124 19.422 W	300			HMPS	250	HNH		26					net 1 0-300m Net 1 closed ~5 min before this; Start stop times and lats longs incorrect - correct with written logs. Net 2 300-250 Start stop times and lats longs incorrect - correct with written logs. Net 3 250-150 Check times and lats longs - may be incorrect. Net 4 150-50
25-02-2024 02:21:57		MPS05	33		49 26.423 N	124 19.31 W	250			HMPS	250	HNH		70					Check times and lats longs - may be incorrect. Net 5 50-0, 10 euppa-s3, 4 thysp-s3 removed for Cat
25-02-2024 02:25:36		MPS05	33		49 26.4 N	124 19.189 W	150			HMPS	250	HNH		73					
25-02-2024 02:33:17		MPS05	33		49 26.354 N	124 18.941 W	50			HMPS	250	HNH		35				Formalin	
25-02-2024 03:19:52		3	34	35	49 26.661 N	124 20.252 W	312	0	321	BONGO	250	VNH	90448	92413	7129	Silver		Frozen	
25-02-2024 04:54:14		CPF2	38	37	49 28.022 N	124 30.037 W	314		0 323	BONGO	250	VNH	92413	94340	7129	Silver		Formalin	
25-02-2024 09:22:29		12	41	42	49 43.711 N	124 40.776 W	342	0	352	BONGO	250	VNH	94340	96499	7129	Silver		Frozen	
26-02-2024 02:11:19		MPS06	43		49 48.406 N	124 50.139 W	310		345	HMPS	250	HNH		253	NA	NA		Formalin	net 1 0-310m. Picked 10 Euppa-s3 for Cat
26-02-2024 02:33:36		MPS06	43		49 48.519 N	124 51.113 W	310			HMPS	250	HNH		27				Formalin	net 2 310-250m
26-02-2024 02:37:29		MPS06	43		49 48.536 N	124 51.274 W	250			HMPS	250	HNH		57				Formalin	net 3 250-150
26-02-2024 02:44:58		MPS06	43		49 48.566 N	124 51.585 W	150			HMPS	250	HNH		71				Formalin	net 4 150-50
26-02-2024 02:53:21		MPS06	43		49 48.608 N	124 51.938 W	50			HMPS	250	HNH		28				Formalin	net 5 50-0
26-02-2024 04:09:00		14	44	45	49 53.027 N	124 59.905 W	302	0	311	BONGO	250	VNH	96620	98522	7129	Silver		Formalin	
26-02-2024 06:07:11		QU39	46	47	50 1.828 N	125 5.637 W	258	0	268	BONGO	250	VNH	98524	00119	7129	Silver		Frozen	
26-02-2024 17:33:38		MPS07	52		49 53.024 N	124 59.633 W	295		313	HMPS	250	HNH		137				Ethanol	
26-02-2024 17:52:27		MPS07	52		49 53.175 N	125 0.26 W	295			HMPS	250	HNH		25				formalin	net 1 0-295m net 2 295-250m net 3 250-150m. Picked 6 thryo-s3, 2 thysp-s3 for Cat
26-02-2024 17:57:22		MPS07	52		49 53.241 N	125 0.394 W	250			HMPS	250	HNH		43				formalin	net 4 150-50m
26-02-2024 18:06:16		MPS07	52		49 53.425 N	125 0.597 W	150			HMPS	250	HNH		45				formalin	net 5 50-0m
26-02-2024 18:13:08		MPS07	52		49 53.571 N	125 0.767 W	50			HMPS	250	HNH		40				formalin	

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Vessel:	Franklin	Equipment Description/Serial Number (ex. Bongo #1)	#1
Project:	Strait of Georgoa Ecosystem Survey		Spectacles

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
7129	Silver	BONGO	VNH	250	YES	YES	NO

Date Time (UTC)	GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth BE (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
					Latitude	Longitude													
26-02-2024 23:52:43	MPS08		53		50 5.736 N	125 7.775 W		175	252	HMPS	250	HNH		175				formalin	first try no communication. Changed battery. Net 1 0-175m-ship heading upslope, depth decreasing to 190m during downcast
27-02-2024 00:04:54	MPS08		53		50 5.822 N	125 8.224 W		175	195	HMPS	250	HNH		27				formalin	175-150. Picked 10 euppa-s3, 7 thysp-s3 for Cat.
27-02-2024 00:07:28	MPS08		53		50 5.843 N	125 8.324 W		150		HMPS	250	HNH		41				formalin	150-100
27-02-2024 00:12:33	MPS08		53		50 5.879 N	125 8.523 W		100		HMPS	250	HNH		52				formalin	100-50
27-02-2024 00:17:53	MPS08		53		50 5.911 N	125 8.728 W		50		HMPS	250	HNH		26				formalin	50-0
27-02-2024 06:24:12	T02A	56	57		50 21.812 N	124 42.378 W	490	0	498	BONGO	250	VNH	00119	03110	7129	Silver		Formalin Ethanol Formalin	picked 10xEUPPAs3 from flow side into two vials for Cat (lipids)
28-02-2024 03:33:03	BU01	62	63		50 22.113 N	125 4.938 W	584	0	594	BONGO	250	VNH	03125	06570	7129	Silver		Ethanol	
28-02-2024 08:24:39	BU04	66	67		50 35.24 N	124 53.676 W	622		629	BONGO	250	VNH	06571	10330	7129	Silver		Formalin Ethanol Formalin	picked 6x THYLOs3 and 1xEUPPAs3 from flow side for Cat lipids
28-02-2024 14:04:20	BU08	72	71		50 53.271 N	124 50.471 W	212	0	222	BONGO	250	VNH	10340	11672	7129	Silver		Ethanol	
29-02-2024 00:25:06	Tucker3	74			50 18.552 N	124 53.173 W	200	55	505	Tucker	250	Oblique	19020	24087	4926		Silver	Formalin	
29-02-2024 04:42:35	TO4A	76	77		50 25.677 N	124 30.935 W	364	0	374	BONGO	250	VNH	11672	13901	7129	Silver		Formalin Ethanol Formalin	Picked 2xTHYLOs3 for Cat lipids from flow side
29-02-2024 06:50:44	T05	79	78		50 27.694 N	124 23.986 W	182		192	BONGO	250	VNH	13901	15029	7129	Silver		Ethanol	
29-02-2024 16:51:17	MPS09	80			50 26.263 N	124 28.184 W	300		319	MPS	250	HNH		217					
29-02-2024 17:13:21	MPS09	80			50 25.986 N	124 28.977 W	300		319	MPS	250	HNH		47					
29-02-2024 17:17:26	MPS09	80			50 25.938 N	124 29.116 W	250		319	MPS	250	HNH		67					Picked 1 Munida quadrispina in EtOH
29-02-2024 17:24:59	MPS09	80			50 25.852 N	124 29.375 W	150		319	MPS	250	HNH		61					
29-02-2024 17:32:37	MPS09	80			50 25.769 N	124 29.654 W	50		319	MPS	250	HNH		37					
29-02-2024 17:51:54	Tucker4	81			50 25.788 N	124 29.731 W	300	60	335	Tucker	250	Oblique	24087	27730	4926		Silver	Formalin	Target depth 75m, reached 60m, held for 10min at 30m; removed 1 CYPCHs3
29-02-2024 18:18:27	Tucker5	82			50 25.992 N	124 29.165 W	348	45	348	Tucker	250	Oblique	27730	31528	4926		Silver	Formalin	Bottom dredged; mud; Target depth 335m
01-03-2024 08:21:11	JE03	83	84		49 47.974 N	124 2.471 W	668	0	678	BONGO	250	VNH	15030	19070	7129	Silver		Formalin Ethanol	Picked 6xEUPPAs3, 2xTHYSPs3, 1xTHYLOs3 from flow side for Cat lipids
01-03-2024 12:54:48	22	88	87		49 40.209 N	124 16.498 W	339	7	349	BONGO	250	VNH	19070	21136	7129	Silver		Formalin Frozen Formalin	picked 1xPRIAB from flow side into EtOH
02-03-2024 09:08:41	JE09	95	96		50 8.268 N	123 50.017 W	345	0	355	BONGO	250	VNH	21136	23309	7129		Silver	Ethanol	

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Project:	Strait of Georgia Ecosystem Survey		Spectacles

					Sampling Processing		
Current TSK Serial Number	Current RBR Serial Number	Net Type	Tow Type	Mesh Size (µM)	Formalin	Freezing	Ethanol
7129	Silver	BONGO	VNH	250	YES	YES	NO

Date Time (UTC) GPS	Station	Net Event	CTD Event	Positional Information		Wire Out	Wire Angle	Sounder Depth BE (m)	Net Type	Mesh Size (µm)	Tow Type	Flow Start	Flow End	TSK Serial #	RBR Serial #	Equipment #	Sampling Processing	Comments
				Latitude	Longitude													
02-03-2024 19:08:25	MPS10	98		49 52.181 N	123 53.263 W	600		675	Multi-Net	250	Oblique		492				Formalin	
02-03-2024 19:56:33	MPS10	98		49 50.884 N	123 53.959 W	600		675	Multi-Net	250	Oblique		161				Formalin	
02-03-2024 20:19:52	MPS10	98		49 50.328 N	123 54.306 W	200		675	Multi-Net	250	Oblique		45				Formalin	
02-03-2024 20:25:13	MPS10	98		49 50.198 N	123 54.385 W	100		675	Multi-Net	250	Oblique		38				Formalin	
02-03-2024 20:28:32	MPS10	98		49 50.111 N	123 54.434 W	50		675	Multi-Net	250	Oblique		49				Formalin	
03-03-2024 11:03:52	HS11	105	106	49 40.601 N	123 10.295 W	214	0	224	BONGO	250	VNH	24731	26045	7129	Silver		Ethanol	
																		Target depth 350m, actual depth 212m; Picked 40x EUPPAs3, 1x THYLOs3, 1xTHYSPs3 for Cat Stevens -80C; Picked 1x PRIABs3, 2x PRIABs2 for Julian EtOH
03-03-2024 22:41:23	Tucker7	107		49 16.212 N	123 48.763 W	540	50	406	Tucker	1000	Oblique	31528	41565	4926			Formalin	