

CTD/ PLANKTON NET TOW LOG SHEET

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Cruise #: 2018-60		Institution: PBS		Net#: 01		Month: SEP		Tow Type: Vertical VNH Bongo		Recorder: W		Flowmeter Serial#: 6069		69290					
Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Latitude			Longitude			Bottom Depth	Target Depth	Wire Out	Wire Angle	Flowmeter Start	Flowmeter Finish	Sampling Condition*	Note
002	Set 1	11	1520	BE	CTD	49	32	402	124	06	396	400	250	250	0	PAUSED DOWN ~ 100m	~ 200m		CTD 456 Hydraulic Pk
003	↓		1545		NET	49	32	703	124	06	872	380	250	250	10	69290	71730	3	
007	4		1935		CTD	49	41	966	124	18	867	313	250	250	0				
008	↓	↓	1951		NET	49	42	280	124	19	138	317	250	250	20	71730	74460	3	
013	8	12	0058		CTD	49	49	571	124	34	585	270	250	250	0				
014	↓		0113		NET	49	49	728	124	34	733	273	250	250	0	74460	76840	4	Vmain = 11.5
016	9		1504		CTD		50	520		46	461	175	160	160	0				
017	↓		1515		NET		50	566		46	503	173	160	160	0	76840	78150	4	
021	12		1848		CTD		51	076		56	772	278	250	250	0				
022	↓		1901		NET		51	224	↓	56	809	288	250	250	0	78150	80510	5	
027	16	↓	2355		CTD		57	414	↓	05	327	264	250	250	0				
028	↓	13	0008		NET	↓	57	545	↓	05	383	255	240	240	0	80510	82756	4	Vmain = 11.5
031	18		1541		CTD	50	18	398		18	567	120	110	110	0				
032	↓		1549		NET		18	400		18	873	107	90	90	0	82758	83604	5	
1036	21		1911		CTD		20	551		25	062	231	220	220	0				
037	↓		1922		NET		20	837		25	165	238	50	50	0	83604	83985	4	ASKED 50
040	23		2253		CTD		23	011		20	647	239	220	220	0				
041	↓	↓	2305		NET		22	923		20	719	247	230	230	10	83985	86262	4	Vmain = 11.3
045	26	4	1622		CTD		19	412		05	735	337	250	250	10				
046	↓		1634		NET		19	562		05	816	338	250	255	10	86262	—	4	STRONG CURRENT CODEND FLIPPED
046	↓		1650		↓		19	830		05	964	391	190	100	10	87580	88418	4	REDONE TOW
051	30		2120		CTD		15	518		00	587	521	250	250	0				
052	↓	↓	2134		NET		15	530		00	672	534	250	250	0	88418	90392	4	
057	34	15	1518		CTD		04	774		08	866	187	170	170	0				
058	↓	↓	1535	↓	NET	↓	05	580	↓	08	660	218	150	160	20	90392	92762	2	STRONG WIND/CURRENT DAS

NOTES: CTD TEMP 3130 COND 3500 PRESS 0668 DO 1592 FLRD 4185

CTD/ PLANKTON NET TOW LOG SHEET

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Cruise # 2018-60

Institution: PBS

Net# 01

Month: SEP

Tow Type: Vertical VNH Bongo

Recorder: YJ

Flowmeter Serial#: 6089

Event Number	Station Name	Day	Time UTC	Time Code	Event Type	Latitude			Longitude			Bottom Depth	Target Depth	Wire Out	Wire Angle	Flowmeter Start	Flowmeter Finish	Sampling Condition*	Note
						D	M	S	D	M	S								
062	37	15	2114	BE	CTD	49	55	616	124	59	799	180	170	170	0				
063	↓	↓	2126		NET		55	754	125	00	022	211	150	150	20	92762	94530	2	STRONG CURRENT / WIND
067	40	16	0115		CTD		59	306	124	50	875	256	240	240	0				
068	↓		0128		NET		59	414		50	945	259	250	250	10	94530	96750	3	
071	42		1638		CTD		54	646		41	451	155	140	140	0				
072	↓		1647		NET		54	716		41	570	155	140	140	10	96750	97922	3	
075	44		2000		CTD		42	845		49	438	78	65	65	0				
076	↓	↓	2007		NET		42	749		49	386	75	65	65	0	97922	98520	3	
081	48	17	0023		CTD		34	882		43	128	79	70	70	0				
082	↓		0029		NET		34	835		43	177	76	65	65	10	98520	98760	3	
084	49		1514		CTD		39	821		40	931	159	150	150	0				
085	↓		1525		NET		39	823		40	958	160	150	150	0	98760	99500	4	
091	53		2016		CTD		35	714		25	157	300	250	250	0				
092	↓	↓	2028		NET		35	686		25	235	313	250	250	0	99500	100690	4	
095	56	18	0027		CTD		29	570		28	276	178	165	165	0				
096	↓		0041		NET		29	653		28	282	176	160	160	10	00690	02108	4	
098	57		1502		CTD		24	257		21	395	339	250	250	0				
099	↓		1517		NET		24	236		21	489	337	250	250	0	02108	03840	4	
103	60		1843		CTD		24	559		31	612	146	130	130	0				
104	↓		1853		NET		24	554		31	626	144	130	130	0	03840	04665	5	
109	64		2315		CTD		29	489		32	313	220	210	210	0				
110	↓	↓	2328		NET		29	429		32	306	231	220	220	0	04665	06190	5	
113	66	19	1449		CTD		24	486		18	734	348	250	250	0				
114	↓	↓	1504	✓	NET	✓	24	489	✓	18	755	348	250	250	0	06190	07390	5	
-	-	-	-	-	-														

NOTES:

*Sampling conditions are judged on a 0-5 scale. 0: cancelled due to weather/sea conditions; 1-4: sub-optimal due to conditions; 5: perfect sampling conditions. Bongo ends - A: flowmeter side, 8/1.7/1.0/0.25 mm, frozen; B: non flowmeter side, picker

PLANKTON NET TOW LOG SHEET

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Cruise #: 2018-60

Institution: PBS

Net#: 01

Month: SEP

Tow Type: Vertical VNH Bongo

Recorder: YJ

Flowmeter Serial#: 6069

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Latitude			Longitude			Bottom Depth	Target Depth	Wire Out	Wire Angle	Flowmeter Start	Flowmeter Finish	Sampling Condition*	Note
						D	M	S	D	M	S								
118	69	19	1836	BE	CTD	49	24	405	124	09	769	274	240	240	0				
119	↓		1849		NET		24	517	↓	09	850	249	230	230	0	07390	09109	4	
124	73A		2310		CTD		26	078	123	58	648	263	250	250	0				
125	↓		2325		NET		26	054		58	405	261	250	250	10	09109	10868	4	
126	73B	20	0106		CTD		24	585		44	444	171	160	160	0				DEPTH MISREAD RE DONE
127	↓		0054		NET		24	620		44	201	171	160	160	0	10868	11980	4	
129	74		1528		CTD		13	422		18	855	146	130	130	0				
130	↓		1537		NET		13	423		18	879	148	130	130	0	11980	12600	4	
135	78		2046		CTD		02	468		17	216	107	100	100	0				
136	↓		2055		NET	↓	02	523	↓	17	515	104	90	90	20	12600	13453	3	
139	80	21	1507		CTD	48	26	660	124	18	213	113	100	100	0				VMATH = 10.9
140	↓		1520		NET		26	689	↓	18	545	115	100	100	0	13453	14000	4	MAY CONTAIN FISH TISUES
144	83		1914		CTD		21	136	123	52	672	117	100	100	0				
145	↓		1923		NET		21	055		52	512	118	100	100	0	14000	14768	4	
147	85		2155		CTD		18	971		29	977	150	50	50	0				VARIABLE DEPTH
148	↓		2202		NET		18	926		30	064	117	50	55	20	14768	14978	3	STRONG CURRENT
151	86	22	1538		CTD		49	666		05	561	184	170	172	10				STRONG CURRENT
152	↓		1531		NET		49	668		05	452	183	170	172	10	14978	16025	3	DAS
157	90		2013		CTD		58	470		29	538	93	80	80	0				
158	↓		2021		NET	↓	58	456		29	566	92	80	80	0	16025	16472	4	
163	94		1504		CTD	49	15	887		48	531	409	250	250	0				
164	↓		1519		NET		15	835		48	423	409	100	105	20	16472	16480*	2	STRONG WIND/CURRENT FM NO WORK
168	97		1848		CTD		21	940		32	176	158	150	150	0				
169	↓		1900		NET	↓	21	979	↓	32	249	154	140	140	0	16480	16482*	4	FM NOT WORKING
—	—		—																BONGO NET THREAD TANGLE IN FLOW METER CAUSED MALFUNCTION

NOTES:

*Sampling conditions are judged on a 0-5 scale. 0: cancelled due to weather/sea conditions; 1-4: sub-optimal due to conditions; 5: perfect sampling conditions. Bongo ends - A: flowmeter side, 8/1.7/1.0/0.25 mm, frozen; B: non flowmeter side, picket

CTD/PLANKTON NET TOW LOG

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Cruise #: 2018-60

Institution: PBS

Net#: 01

Month: SEP

Tow Type: Vertical VNH Bongo

Recorder: OM

Flowmeter Serial#: 6069

Event Number	Station Name	Day	Time (UTC)	Time Code	Event Type	Latitude			Longitude			Bottom Depth	Target Depth	Wire Out	Wire Angle	Flowmeter Start	Flowmeter Finish	Sampling Condition*	Note
						D	M	S	D	M	S								
229	131	27	20:02	BE	NET	48	43	950	123	24	555	88	70	70	0	36560	37163	4	
234	135	27	20:48		CTD	48	48	358	123	34	077	122	110	110	0				
235	135	28	00:02		NET	48	48	322	123	33	765	114	100	100	5	37163	37705	4	
238	137		15:03		CTD	49	23	224	123	36	182	155	140	140	0				
239	137		15:18		NET	49	23	207	123	36	140	155	140	140	0	37710	38510	4	
244	141		19:31		CTD	49	26	938	123	57	284	203	190	190	0				
245	141		19:48		NET	49	26	862	123	57	287	199	190	190	0	38510	39862	4	
249	144		22:48		CTD	49	23	177	123	48	829	181	170	170	0				
250	144	27	23:03		NET	49	23	168	123	48	680	182	170	170	0	39862	40740	4	
* 20	END OF SURVEY *	20				20			20			20							
21		21				21			21			21							
22		22				22			22			22							
23		23				23			23			23							
24		24				24			24			24							
25		25				25			25			25							
26		26				26			26			26							
27		27				27			27			27							
28		28				28			28			28							
29		29				29			29			29							
30		30				30			30			30							
31		31				31			31			31							
32		32				32			32			32							
33		33				33			33			33							
34		34				34			34			34							
35		35				35			35			35							

NOTES: