

CTD/PLANKTON NET TOW LOG

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Cruise #: 2019-052 SOG 2				Institution: PBS		Net#: 01		Month: JUN		Tow Type: Vertical VNH Bongo		Recorder: YJ/CH		Flowmeter Serial#: 7292					
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								
004	E	18	2004	BE	CTD	49.24	960		123.45	255		167	150	150	0				
005	↓		2017		NET	49.25	018		123.45	172		166	150	150	0	11340	12302	3	FW CO ₂ = 0.1437
009	E	↓	2350		CTD		22 398			53 540		234	220	220	0				
010	↓	19	0002		NET		22 449			53 584		251	220	220	5	12305	13668	3	
013	8		1526		CTD	↓	27 605	↓		58 286		210	200	200	20				
—	↓		—		NET	—	—	—	—	—	—	—	—	—		13672	—	Q	CANCELLED
018	12		2158		CTD	49.37	358		124.13	586		322	250	250	10				
019	↓	↓	2220		NET	49.36	200		124.12	865		320	250	255	30	13680	17342	2	DAS
022	14	20	0231		CTD	49.46	012		124.26	072		95	80	80	5				
023	↓	20	0240		NET	49.46	013		124.25	802		68	60	60	10	17342	18110	3	DAS
025	15	20	14:48		CTD	49.50	938		124.49	097		192	180	180	5	—	—	3	
026	↓	20	15:02		NET	49.50	858		124.48	917		192	180	180	5	18115	20389	3	
030	18	20	18:46		CTD	49.50	527		124.56	401		229	220	220	5				
031	↓	20	18:59		NET	49.50	379		124.56	347		214	200	200	5	20389	22740	2	
035	21	21	14:58		CTD	49.53	981		125.05	609		118	110	110	5				
036	↓	21	15:08		NET	49.54	005		125.05	663		116	100	100	10	22743	23553	4	
039	23	21	17:22		CTD	49.55	953		125.02	569		299	250	250	0				
040	↓	21	17:36		NET	49.55	866		125.02	644		293	250	250	0	23553	25652	4	
046	28	21	23:43		CTD	50.05	130		125.08	197		221	210	210	0				
047	↓	21	23:55		NET	50.05	072		125.08	166		223	210	210	0	25653	—	4	Net flipped over itself, had to redo
047	↓	22	0:13		NET	50.05	004		125.08	172		223	210	210	0	26715	28112	4	
050	30	22	14:45		CTD	50.08	671		125.04	053		299	250	295	15				* went too deep
051	↓	22	15:00		NET	50.08	472		125.04	194		210	200	200	5	28112	30355	4	
055	33	22	18:46		CTD	50.13	531		125.01	513		489	250	250	5				brown algae @ skimmer
056	33	22	19:02		NET	50.13	322		125.01	537		489	250	250	5	30355	33138	5	

NOTES: * wrong event # recorded on jar label for Station 28. It should be 47 not 45-X

CTD/PLANKTON NET TOW LOG

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Cruise #: 2019-052 5062 Institution: PBS Net#: 01 Month: June Tow Type: Bongo VNH Recorder: CH/YJ Flowmeter Serial#: 7292

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
059	35	22	22:36	BE	CTD	50	18	523	124	52	568	499	250	250	0				
060	35	22	22:51		NET	50	18	510	124	52	417	445	250	250	0	33138	34699	4	445m deep
063	37	23	01:23		CTD	50	18	575	125	04	817	347	250	250	0				
064	37	23	01:41		NET	50	18	481	125	04	610	347	250	250	0	34699	36370	4	Brown algae @ surface
068	40	23	16:44		CTD	50	18	530	125	17	408	120	110	110	0				
069	40	23	16:52		NET	50	18	536	125	17	430	120	110	110	0	36372	37085	5	
074	44	23	22:25		CTD	50	21	290	125	20	020	75	60	60	0				
075	44	23	22:31		NET	50	21	287	125	19	996	75	60	60	0	37085	37402	4	Brown algae @ surface
079	47	24	14:44		CTD	50	18	501	125	17	090	121	110	110	0				
080	47	24	14:53		NET	50	18	482	125	17	112	121	110	110	0	37402	38113	4	
084	50	24	19:23		CTD	50	17	675	125	03	148	262	250	250	0				
085	50	24	19:39		NET	50	17	640	125	03	197	266	250	250	0	38113	40690	5	
087	51	24	21:53		CTD	50	13	720	124	58	298	318	250	250	10				
088	51	24	22:10		NET	50	13	990	124	58	621	324	250	250	30	40690	43787	3	DAS
094	56	25	16:50		CTD	50	12	227	124	45	699	398	250	250	0				
095	56	25	17:07		NET	50	12	238	124	45	807	398	250	250	5	43789	44762	5	Left out large red jelly/tunicate 17cm
099	59	25	21:42		CTD	50	02	613	124	54	047	327	250	250	5				
100	59	25	21:58		NET	50	02	705	124	54	123	327	250	250	5	44762	46448	3	
104	62	26	01:30		CTD	49	57	828	124	48	809	155	140	140	0				
105	62	26	01:41		NET	49	57	787	124	48	124	155	140	140	0	46448	47306	5	
109	65	26	19:15		CTD	49	46	417	124	32	620	307	250	250	5				
110	65	26	19:33		NET	49	46	430	124	32	876	294	250	250	5	47306	48764	3	
115	69	27	01:29		CTD	49	38	563	124	45	621	124	110	110	0				
116	69	27	01:39		NET	49	38	481	124	45	681	116	110	110	0	48764	49562	4	
119	71	27	16:15	✓	CTD	49	38	047	124	41	244	139	130	130	5				

NOTES:

t Type: CTD NET SET. 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 conditions. Bongo ends - A: flowmeter side, 8/1.7/1.0/0.25 mm, frozen; B: n

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Cruise #: 2019-052 SOG2				Institution: PBS		Net#: 0 Month: JUN/JUL			Tow Type: Vertical VNH Bongo			Recorder: YJ		Flowmeter, Serial#: 7292					
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								
120	71	27	1626	BE	NET	49	38	070	124	41	553	143	120	122	30	49562	51240	2	DAS STRONG CURR & WIND
125	75	27	2116		CTD	49	39	972	124	31	883	208	200	200	5				
126	75	27	2131		NET	49	40	272	124	32	338	194	180	182	20	51240	53490	3	
131	79	28	1538		CTD	49	32	110	124	28	918	177	170	170	0				
132	79	28	1552		NET	49	32	287	124	28	830	168	150	150	5	53490	54722	4	
137	83	28	2011		CTD	49	25	756	124	33	699	136	130	130	0				
138	83	28	2023		NET	49	25	815	124	33	996	132	120	120	10	54722	55800	3	STRONG WIND
143	87	29	0102		CTD	49	27	353	124	22	197	322	250	250	5				
144	87	29	0123		NET	49	27	529	124	22	734	324	250	252	15	55800	58380	3	
146	88	29	1449		CTD	49	24	359	124	18	922	350	250	250	0				SLOWED AT 40 M DOWN
147	88	29	1509		NET	49	24	418	124	19	024	350	250	250	0	58380	59932	4	
152	92	29	1938		CTD	49	27	914	124	07	725	254	240	240	0				
153	92	29	1954		NET	49	27	963	124	07	716	247	240	240	5	59932	62060	4	
157	95	30	1607		CTD	49	18	020	123	41	781	277	250	250	0				
158	95	30	1624		NET	49	18	145	123	41	827	272	250	250	5	62060	64812	4	
162	98	30	2004		CTD	49	20	416	123	27	612	119	110	110	0				
163	98	30	2015		NET	49	20	462	123	27	443	114	100	100	0	64812	65600	4	
167	101	30	2343		CTD	49	29	249	123	27	315	190	180	190	0			WENT	190 DUE TO MISCOMM.
168	101	30	2357		NET	49	29	333	123	27	218	189	180	180	0	65600	66695	4	
171	104	1	1521		CTD	49	31	015	123	16	459	224	210	210	0				
172	104	1	1536		NET	49	30	787	123	16	514	232	220	220	0	66695	68360	4	
177	107	1	1915		CTD	49	20	608	123	20	555	235	220	220	0				
178	107	1	1941		NET	49	20	648	123	20	480	238	230	230	0	68360	69654	5	
182	111	2	1359		CTD	49	02	314	123	17	009	106	100	100	0				CTP FIRST
183	111	2	1409	✓	NET	49	02	317	123	16	995	105	90	90	5	69654	70385	3	

NOTES

CTD/PLANKTON NET TOW LOG

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Cruise #: 2019-052 S032

Institution: PBS

Net#: 0 Month: JUL

Tow Type: Vertical VNH Bongo

Recorder: YJ

Flowmeter Serial#: 7292

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								
187	113	2	1831	BE	CTD	49	04	630	123	19	797	120	110	110	10				
188	113	2	1840		NET	49	04	704	123	20	013	128	120	122	20	70385	72040	3	STRONG CURRENT DAS
192	116	2	2321		CTD	49	07	906	123	30	777	359	250	250	15				
193	116	2	2340		NET	49	08	390	123	30	916	357	250	252	20	72040	74352	3	STRONG CURRENT DAS
196	118	3	1503		CTD	49	04	528	123	35	368	206	200	200	0				
197	118	3	1519		NET	49	04	416	123	35	273	206	200	200	0	74352	75562	5	
201	121	3	1833		CTD	48	56	352	123	24	764	110	100	100	0				
202	121	3	1842		NET	48	56	302	123	24	667	110	100	100	0	75562	76160	5	
206	124A	3	2230		CTD	48	48	980	123	05	955	169	160	160	0				V _{max} = 11.0
207	124A	3	2242		NET	48	49	087	123	06	354	171	160	160	0	76160	77510	4	124A & 124B NOT RELATED
208	124B	4	0004		CTD	48	46	021	123	04	508	220	150*	150	5				DOWN TO 150 DUE TO STRONG CURR AREA
209	124B	4	0015		NET	48	46	124	123	04	528	190	150	152	20	77510	79248	3	DOUBLE WEIGHT
211	125	4	1414		CTD	48	44	419	123	17	663	158	150	150	0				
212	125	4	1452		NET	48	44	152	123	17	460	165	160	160	5	79248	79610*	4	FLOWMETER MAL FLUCTUATION
216	128	4	1906		CTD	48	43	327	123	32	042	78	70	70	0				
217	128	4	1915		NET	48	43	231	123	32	930	78	70	70	15	79610	80390	3	DAS DUE TO SHIP MOVEMENT
219	129	4	2114		CTD	48	44	512	123	35	113	61	50	50	0				
220	129	4	2120		NET	48	44	569	123	35	239	60	50	50	0	80390	80860	3	STRONG WIND
223	131	5	0029		CTD	48	43	595	123	32	116	73	65	65	0				
224	131	5	0036		NET	48	43	662	123	32	216	75	65	65	0	80860	81180	4	
226	132	5	0153		CTD	48	39	312	123	31	035	162	150	150	0				V _{max} = 10.8
227	132	5	0205		NET	48	39	296	123	31	063	160	150	150	0	81180	81880	4	
230	134	5	1602		CTD	48	48	621	123	34	232	125	120	120	0				DATA DOWNLOADED BAT CHANGE
231	134	5	1611		NET	48	48	568	123	34	173	119	110	110	0	81880	82510	4	
235	137	5	1915	✓	CTD	48	53	713	123	36	409	180	170	170	0				V _{max} = 13.5

NOTES:

CTD/PLANKTON NET TOW LOG

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Cruise #: 2019-052 SCG2 Institution: PBS Net#: 01 Month: JUL Tow Type: Bongo VNH Recorder: YJ Flowmeter Serial#: 7292

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								
236	137	5	1928	BE	NET	48	53	709	123	36	378	180	170	170	5	82510	83590	4	
239	139	5	2256		CTD	49	04	886	123	41	348	55	50	50	0				
240	139	5	2308		NET	49	04	890	123	41	411	54	45	45	0	83590	83880	3	
241	139A	6	0159		CTD	49	16	687	123	21	656	245	230	230	10				STRONG CURRENT
242	139A	6	0215		NET	49	16	758	123	21	542	242	230	230	10	83880	85522	3	
246	142	6	1654		CTD	49	14	249	123	33	100	355	250	250	5				
247	142	6	1711		NET	49	14	393	123	33	301	355	250	250	15	85522	88420	3	
251	145	6	2120		CTD	49	11	020	123	42	134	199	190	190	0				V _{max} = 12.6
252	145	6	2134		NET	49	11	032	123	42	128	199	190	190	5	88420	89548	3	
=	END		OF		SURVEY	=													
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			

NOTES:

*Time Code: BE/EN, Event Type: CTD NET SET, Sampling conditions 0-5 scale. 0: cancelled due to conditions; 1-4: sub-optimal due to conditions; 5: perfect, Bongo ends - A: flowmeter side, 8/1.7/1.0/0.25 mm, frozen; B: non flowmeter side, picked