

Cruise	Event	Cycle	Order Occupied (Tow)	Haul	Date	Net	Tow	Begin Tow (PDT)	End Tow (PDT)	Actual Depth of Tow (m)	STB Volume Water Strained (m3)
CCE-LTER-P2107		Test	Test	0	7/14/2021	Bongo	Oblique	800	930	216	296
CCE-LTER-P2107		N	1	1	7/17/2021	Bongo	Oblique	2157	2217	210	308
CCE-LTER-P2107		N	2	2	7/18/2021	Bongo	Oblique	847	911	207	305
CCE-LTER-P2107		1	1	3	7/22/2021	Bongo	Oblique	917	942	196	269
CCE-LTER-P2107		1	2	4	7/22/2021	Bongo	Oblique	1029	1054	219	312
CCE-LTER-P2107		1	3	5	7/22/2021	Bongo	Oblique	2121	2143	215	335
CCE-LTER-P2107		1	4	6	7/23/2021	Bongo	Oblique	806	836	203	376
CCE-LTER-P2107		1	5	7	7/23/2021	Bongo	Oblique	2040	2104	212	269
CCE-LTER-P2107		1	6	8	7/24/2021	Bongo	Oblique	901	926	203	308
CCE-LTER-P2107		1	7	9	7/25/2021	Bongo	Oblique	902	926	203	282
CCE-LTER-P2107		1	8	10	7/25/2021	Bongo	Oblique	2256	2319	204	286
CCE-LTER-P2107		1	9	11	7/25/2021	Bongo	Oblique	2256	2317	218	294
CCE-LTER-P2107		2	1	12	7/26/2021	Bongo	Oblique	2158	1021	209	368
CCE-LTER-P2107		2	2	13	7/27/2021	Bongo	Oblique	2158	2219	205	305
CCE-LTER-P2107		2	3	14	7/28/2021	Bongo	Oblique	856	921	205	277
CCE-LTER-P2107		2	4	15a	7/28/2021	Bongo	Oblique	2110	2133	220	268
CCE-LTER-P2107		2	5	15b	7/29/2021	Bongo	Oblique	805	828	224	281
CCE-LTER-P2107		2	6	16	7/29/2021	Bongo	Oblique	2104	2125	200	300
CCE-LTER-P2107		2	7	17	7/30/2021	Bongo	Oblique	901	927	225	280
CCE-LTER-P2107		2	8	18	7/30/2021	Bongo	Oblique	2134	2145	201	303
CCE-LTER-P2107		2	9	19	7/31/2021	Bongo	Oblique	905	927	217	252
CCE-LTER-P2107		3	1	20	8/3/2021	Bongo	Oblique	910	936	221	296
CCE-LTER-P2107		3	2	21	8/3/2021	Bongo	Oblique	2138	2159	206	291
CCE-LTER-P2107		3	3	22	8/4/2021	Bongo	Oblique	808	831	202	278
CCE-LTER-P2107		3	4	23	8/4/2021	Bongo	Oblique	2127	2148	185	301
CCE-LTER-P2107		3	5	24	8/5/2021	Bongo	Oblique	805	829	214	299
CCE-LTER-P2107		3	6	25	8/5/2021	Bongo	Oblique	2139	2159	176	290
CCE-LTER-P2107		3	7	26	8/6/2021	Bongo	Oblique	805	833	215	280
CCE-LTER-P2107		3	8	27	8/6/2021	Bongo	Oblique	2134	2155	215	259
CCE-LTER-P2107		T1	1	28	8/7/2021	Bongo	Oblique	2322	2343	214	279
CCE-LTER-P2107		T1	2	29	8/8/2021	Bongo	Oblique	607	628	182	278
CCE-LTER-P2107		T1	3	30	8/8/2021	Bongo	Oblique	1238	1301	187	301
CCE-LTER-P2107		T1	4	31	8/9/2021	Bongo	Oblique	2012	2033	181	328
CCE-LTER-P2107		T1	5	32	8/9/2021	Bongo	Oblique	217	238	213	265
CCE-LTER-P2107		T1	6	33	8/9/2021	Bongo	Oblique	803	814	208	297
CCE-LTER-P2107		T1	7	34	8/9/2021	Bongo	Oblique	1816	1835	195	331
CCE-LTER-P2107		T1	8	35	8/10/2021	Bongo	Oblique	9	31	193	264
CCE-LTER-P2107		T2	1	36	8/10/2021	Bongo	Oblique	735	758	226	273
CCE-LTER-P2107		T2	2	37	8/10/2021	Bongo	Oblique	1001	1024	226	252
CCE-LTER-P2107		T2	3	38	8/10/2021	Bongo	Oblique	1302	1326	177	301
CCE-LTER-P2107		T2	4	39	8/10/2021	Bongo	Oblique	1639	1701	173	308
CCE-LTER-P2107		T2	5	40	8/10/2021	Bongo	Oblique	1955	2013	228	249
CCE-LTER-P2107		T2	6	41	8/11/2021	Bongo	Oblique	742	805	221	246
CCE-LTER-P2107		T2	7	42	8/11/2021	Bongo	Oblique	1016	1040	211	252
CCE-LTER-P2107		T2	8	43	8/11/2021	Bongo	Oblique	1259	1324	195	270

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)										
						BEGIN TOW	END TOW									
CCE-P 2107	Rodli	Station N	1		2021/7/17	2157	2217									
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL										
SINKING (descend)	10	20	NET NO.			TOW NO. 1 OF 1										
TOWING (at depth)		39	METER NO.	806706		SEA (Conditions): <input checked="" type="radio"/> Calm										
			FINAL	088913		Moderate										
			INITIAL	058991		Rough										
Total (ascend)	11	03	DIFF.			WIND: 7 knots										
			MESH SIZE													
AMT. OF WIRE OUT:			meters	OBSERVERS: MO, AS, DC												
TOTAL NO. OF ANGLES:																
ANGLES	45	45	43	43	42	44	44	43	44	45	47	45	45	44	45	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160	
ANGLES	46	47	47	45	43	42	44	42	43	44	47	49	50	53	58	
WIRE OUT	40	40	40	40	40	40	40	40	40	45	48	48	45	45	10	
	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
	PORT		STB.													
No. OF JARS					NET CLOGGING	none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)	P	Q	P	Q		none	rinsed	washed								
FORMALIN & BORATE ADDED					NET WASHING	none	location	when mended:	Before station							
ALCOHOL ADDED						none	location	(Circle one)	After station							
COLLECTORS INITS.					RIPS AND HOLES IN NET	none	location	when mended:	Before station							
REMARKS:																

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle Station	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	N	1	1		2021/07/17	21 57

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split:	Pre-weighed	Split:	
Cup #: 131	Size fraction:	petri #:	Size fraction:	Petri #:
	5mm:		5mm:	1001
Dewar #: 1 Canister # 1	2mm:		2mm:	1002
Notes:	1mm:		1mm:	1003
	500µm:		500µm:	1004
	200µm:		200µm:	1005
	Dewar #: 1 Canister #:		Dewar #: 1 Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE <i>station</i>	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)										
						BEGIN TOW	END TOW									
CCE-P 2107	Revelle	N	BT# 2		18 July 2001											
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL										
SINKING (descend)	10	33	NET NO.			TOW NO. 1 OF 1										
TOWING (at depth)	3	38	METER NO.			SEA (Conditions): <u>Calm</u> Moderate Rough										
Total (ascend) (descend)	22	35	FINAL	118393		WIND: 2-4 knots										
			INITIAL	088917												
			DIFF.	294763												
			MESH SIZE													
AMT. OF WIRE OUT:			meters	OBSERVERS: Dante, Pete, Anya, Mine, Moira, Grace, Steph												
TOTAL NO. OF ANGLES:																
ANGLES	58 60	55 62	57 62	56 62	55 62	54 64	54 64	52 64	51 64	50 67	47 68	47 68	45 70	43 73	43 66	Down
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160	
ANGLES	43 65	40 64	40 66	38 70	38 62	35 59	35 59	35 58	35 59	35 50	40 51	45 45	50 45	59 40	58 37	Down
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
PORT		STB.														
No. OF JARS							none or slight	moderate	heavy	very heavy						
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING											
FORMALIN & BORATE ADDED					NET WASHING		none	rinsed	washed							
ALCOHOL ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station						
COLLECTORS INITS.										After station						
REMARKS:																

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle <i>Station</i>	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	N	2	2		18 July 2024	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split:	Pre-weighed	Split:	
Cup #:	Size fraction:	petri #:	Size fraction:	Petri #:
	5mm:	378 + 1 bag w/ 2 PYNOS (not N44 sample)	5mm:	1006 + 1 bag w/ 1 PYNOS
Dewar #: Canister #	2mm:	377	2mm:	1007
Notes:	1mm:	376	1mm:	1008
	500µm:	375	500µm:	1009
	200µm:	374	200µm:	1010
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P 2107	Riviera	1	1		21-7-22										
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	15	"	NET NO.			TOW NO. 1 OF 1									
TOWING (at depth)	5	40"	METER NO.			SEA (Conditions): (Circle one) Calm <u>Moderate</u> Rough									
Total (ascend)	9	49"	FINAL	146557		WIND: 18 knots									
			INITIAL	120447											
			DIFF.	26110											
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: <u>Maira, Anya, Grace, Peter</u>											
TOTAL NO. OF ANGLES:															
ANGLES	ⁱⁿ 45		46		48		49		50		50		50		48
	_{out}						52				45		45		41
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	ⁱⁿ 40	50		50		52		49		50		50		50	
	_{out}	35		20											
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT STB.															
No. OF JARS							none or slight		moderate		heavy		very heavy		
SIZE OF JAR (Circle One)	P	Q	P	Q			NET CLOGGING								
FORMALIN & BORATE ADDED							NET WASHING	none	rinsed		washed				
ALCOHOL ADDED															
COLLECTORS INIT'S							RIPS AND HOLES IN NET	none	location		when mended: (Circle one)		Before station		After station
REMARKS: <u>speed at start 1 knot - angle was shallow.</u>															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	1	1	3		2021/7/22	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split: 3/8		Split:	
Cup #:	Size fraction:	Pre-weighed petri #:	Size fraction:	Petri #:
	5mm:	3081	5mm:	1011
Dewar #: Canister #	2mm:	3082	2mm:	1012
Notes:	1mm:	3083	1mm:	1013
	500µm:	3084	500µm:	1014
	200µm:	3085	200µm:	1015
				2% of sample lost
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																											
						BEGIN TOW	END TOW																																										
CCE-P P2107	R/V Kevell	1		2	21-07-22																																												
<table border="1"> <thead> <tr> <th>TIME</th> <th>Min.</th> <th>Sec.</th> <th>PORT</th> <th>STB.</th> <th>TOW TYPE: CALBOBL</th> </tr> </thead> <tbody> <tr> <td>SINKING (descend)</td> <td>13</td> <td>13:40"</td> <td>NET NO.</td> <td></td> <td>TOW NO. 1 OF 1</td> </tr> <tr> <td>TOWING (at depth)</td> <td>35</td> <td>35:59"</td> <td>METER NO.</td> <td></td> <td>SEA (Conditions): <u>Calm</u> Moderate Rough</td> </tr> <tr> <td>Total (ascend)</td> <td>10</td> <td>10:29:35"</td> <td>FINAL</td> <td>17G891</td> <td>WIND: knots</td> </tr> <tr> <td></td> <td></td> <td></td> <td>INITIAL</td> <td>146565</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>DIFF.</td> <td>30326</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>MESH SIZE</td> <td></td> <td></td> </tr> </tbody> </table>								TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL	SINKING (descend)	13	13:40"	NET NO.		TOW NO. 1 OF 1	TOWING (at depth)	35	35:59"	METER NO.		SEA (Conditions): <u>Calm</u> Moderate Rough	Total (ascend)	10	10:29:35"	FINAL	17G891	WIND: knots				INITIAL	146565					DIFF.	30326					MESH SIZE		
TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL																																												
SINKING (descend)	13	13:40"	NET NO.		TOW NO. 1 OF 1																																												
TOWING (at depth)	35	35:59"	METER NO.		SEA (Conditions): <u>Calm</u> Moderate Rough																																												
Total (ascend)	10	10:29:35"	FINAL	17G891	WIND: knots																																												
			INITIAL	146565																																													
			DIFF.	30326																																													
			MESH SIZE																																														
AMT. OF WIRE OUT:			meters		OBSERVERS:																																												
TOTAL NO. OF ANGLES:																																																	
ANGLES	33°	30°	35°	35°	5°	35°	38°	41°	43°	45°	Ascend Descend																																						
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160																																		
ANGLES		45°	46°	45°	45°	50°	49°	60°																																									
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10																																		
PORT		STB.																																															
No. OF JARS							none or slight	moderate	heavy	very heavy																																							
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING																																												
FORMALIN & BORATE ADDED					NET WASHING		none	rinsed	washed																																								
ALCOHOL ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station																																							
COLLECTORS INITS.										After station																																							
REMARKS:																																																	

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	1	2	4		21/07/22	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split:		Split:	
Cup #:	Size fraction:	Pre-weighed petri #:	Size fraction:	Petri #:
	5mm:	3086	5mm:	1016 <i>4000000 fluorescent</i>
Dewar #: Canister #:	2mm:	3087	2mm:	1017 <i>2000000 fluorescent</i>
Notes:	1mm:	3088	1mm:	1018 <i>2000000 fluorescent</i>
	500µm:	3089	500µm:	1019
	200µm:	3090	200µm:	1020
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P 2107	R2	1	Taw3		2011/7/22	21:21									
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10	12	NET NO.			TOW NO. 1 OF 1									
TOWING (at depth)		33	METER NO.			SEA (Conditions): (Circle one) Calm <u>Moderate</u> Rough									
Total (ascend)	11	15	FINAL	314040		WIND: knots									
			INITIAL	281500											
			DIFF.												
			MESH SIZE	202											
AMT. OF WIRE OUT:			meters	OBSERVERS: Danta, Steph, Minerva											
TOTAL NO. OF ANGLES:															
ANGLES	43				44	45	4A	45	42						
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	42		45		48		45		40		42		44	44	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS		PORT STB.		NET CLOGGING		none or slight	moderate	heavy	very heavy						
SIZE OF JAR (Circle One)		P	Q	P	Q	NET WASHING		none	rinsed	washed					
FORMALIN & BORATE ADDED				RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station	After station					
ALCOHOL ADDED															
COLLECTORS INITS.															
REMARKS: Put on new cod end prior to deployment															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P207	1	3	5		22 Jul 2021	2121

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: $\frac{1}{4}$	Split:	Pre-weighed	Split:	
Cup #:	Size fraction:	petri #:	Size fraction:	Petri #:
	5mm:	1086	5mm:	387
Dewar #: Canister #:	2mm:	1085	2mm:	388
Notes:	1mm:	1084	1mm:	389
	500 μ m:	1083	500 μ m:	390
	200 μ m:	1087	200 μ m:	391
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P R2109	Ruelle	1	4		2021/7/23	08:06	108:36								
TIME		Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)		13	0	NET NO.		TOW NO. 1 OF 1									
TOWING (at depth)		29.99		METER NO.		SEA (Conditions): (Circle one) Calm <u>Moderate</u> Rough									
Total (ascend)		13	34	FINAL	350550	WIND: 10 knots									
				INITIAL	314078										
				DIFF.	36472										
				MESH SIZE											
AMT. OF WIRE OUT: meters				OBSERVERS: Petr, Anya, Grace, MOIRA											
TOTAL NO. OF ANGLES:															
ANGLES	50		50		48		47		48		48		49		50
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		46		50		47		45		46		45		42	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS		PORT STB.		NET CLOGGING	none or slight	<u>moderate</u>	heavy	very heavy							
SIZE OF JAR (Circle One)		P	Q		P	Q									
FORMALIN & BORATE ADDED				NET WASHING	none	rinsed	washed								
ALCOHOL ADDED															
COLLECTORS INITS				RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station After station							
REMARKS: Green water															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
R2107	1	4	6		2021/7/23	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #: 178	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	394	5mm:	1088
Dewar #: Canister #:	2mm:	395	2mm:	1089
Notes:	1mm:	396	1mm:	1090
	500µm:	397	500µm:	1092
	200µm:	398	200µm:	1091
	Dewar #:		Dewar #:	
	Canister #:		Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	Revelle	1	5		2021/7/23										
TIME		Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)			NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u> Moderate Rough									
TOWING (at depth)	30 secs		FINAL	376645		WIND: knots									
			INITIAL	350550											
Total (ascend)			DIFF.	26095											
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS:											
TOTAL NO. OF ANGLES:															
ANGLES		45	44°	45°	45°	45°	45°								
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		45°	45°	45°	46°	45°	45°	45°							
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS			2	NET CLOGGING	none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)		P Q	P <u>Q</u>												
FORMALIN & BORATE ADDED			Y	NET WASHING	none	rinsed	<u>washed</u>								
ALCOHOL ADDED			N												
COLLECTORS INITS.			DC	RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station After station							
REMARKS: Kept 50% of pyrosomes in formalin (10/20) Quite satisfied, would do again															

get net from last haul

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
		5	7			

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #: 170	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	3152	5mm:	1093
Dewar #: Canister #	2mm:	3151	2mm:	1094
Notes:	1mm:	3150	1mm:	1095
	500µm:	3148	500µm:	1096
	200µm:	3149	200µm:	1097
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	1	6	2021/24	2021/7/24	0901									
Haul #8															
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)			NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): Calm									
TOWING (at depth)	35		FINAL	400663		Moderate									
			INITIAL	376804		Rough									
Total (ascend)	11' 39"		DIFF.	2980		WIND: knots									
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS:											
TOTAL NO. OF ANGLES:															
ascend															
ANGLES															
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	50		49		46		45		41		37		29		
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT STB.															
No. OF JARS					NET CLOGGING		none or slight	moderate	heavy	very heavy					
SIZE OF JAR (Circle One)	P	Q	P	Q	NET WASHING		none	rinsed	washed						
FORMALIN & BORATE ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station					
ALCOHOL ADDED										After station					
COLLECTORS INITS.															
REMARKS:															

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	<i>Perdelle</i>	1	Tow 7		201/7/25	09:02	09:26								
<i>Haul 9</i>															
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	9:47	"	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u> Moderate Rough									
TOWING (at depth)	0:31:84	"	FINAL	434131		WIND: knots									
			INITIAL	406713											
Total (ascend)	11:16	"	DIFF.	27418											
			MESH SIZE												
AMT. OF WIRE OUT: 300 meters			OBSERVERS:												
TOTAL NO. OF ANGLES:															
ANGLES	52°		50°		49°		52°		50°		49°		50°		50°
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		45°		44°		43°		42°		43°		41°		49°	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS							none or slight	<u>moderate</u>		heavy				very heavy	
SIZE OF JAR (Circle One)	P	<u>Q</u>	P	<u>Q</u>			NET CLOGGING								
FORMALIN & BORATE ADDED		<u>V</u>		<u>V</u>			NET WASHING	none	<u>rinsed</u>		washed				
ALCOHOL ADDED							RIPS AND HOLES IN NET	none	location <i>Small on Starboard</i>		when mended: (Circle one)	Before station		After station	
COLLECTORS INITS															
REMARKS:															

406713 Flowmeter = Port

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	1	7	9		2021/7/25	0902

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #: 167	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	3296	5mm:	1026
Dewar #: Canister #	2mm:	3295	2mm:	1027
Notes: <i>formalinside; imaged 100%, filled Qt jar, threw out remaining</i>	1mm:	3294	1mm:	1028
	500µm:	3293	500µm:	1029
	200µm:	3292	200µm:	1030
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT# (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	1	8		21-07-25										
TIME		Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL								
SINKING (descend)	9	56	"	NET NO.			TOW NO. 1 OF 1								
TOWING (at depth)	X	30	"	METER NO.			SEA (Conditions): <u>Calm</u> Moderate Rough								
Total (ascend)	13	10	"	FINAL	461882		WIND: 0.5 knots								
				INITIAL	434145										
				DIFF.	27737										
				MESH SIZE											
AMT. OF WIRE OUT: meters				OBSERVERS: <u>Moira, Anya, Grace, Peter</u>											
TOTAL NO. OF ANGLES:															
ANGLES			41		45		44		44		49		49		48
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		49		51		49		48		45		46		52	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS															
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING		none or slight	moderate	heavy	very heavy					
FORMALIN & BORATE ADDED					NET										
ALCOHOL ADDED					RIPS										
COLLECTORS INITS															
REMARKS:															

Haul 10

OUT

29 July 2021

~~Feop~~ heteropod

BT#8 Removed and placed in other w/ Jar & Tag

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	1	8	10		2021/09/25	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #: 171	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	3297	5mm:	1031
Dewar #: Canister #	2mm:	3298	2mm:	1032
Notes:	1mm:	3299	1mm:	1033
	500µm:	3300	500µm:	1034
	200µm:	3301	200µm:	1035
	Dewar #:		Dewar #:	
	Canister #:		Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	1	9		July 25, 2021	12:56									
Haul 11															
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	19	39	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u> Moderate Rough									
TOWING (at depth)		36	FINAL	49 0420											
			INITIAL	461896											
Total (ascend)	10	20	DIFF.	28524		WIND: knots									
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: <i>Min. Capt. / Mrs. Julie</i>											
TOTAL NO. OF ANGLES:															
ANGLES	41°		37°		39°		37°		39°		39°		40°		40°
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES		41°		43°		46°		52°		52°		53°		54°	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS							none or slight	moderate	heavy	very heavy					
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING										
FORMALIN & BORATE ADDED					NET WASHING		none	rinsed	washed						
ALCOHOL ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station					
COLLECTORS INITS.										After station					
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	1	09	11		2021/7/25	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #:	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	3306	5mm:	
Dewar #: Canister #	2mm:	3305	2mm:	
Notes: forgot to get petri dish numbers + GC cup #s	1mm:	3304	1mm:	
	500µm:	3303	500µm:	
	200µm:	3302	200µm:	
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)											
						BEGIN TOW	END TOW										
CCE-P	Roville	2 Day 0	B1 Home 10		2021/7/24	0158	1021										
TIME		Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL										
SINKING (descend)		10	10	NET NO.			TOW NO. 1 OF 1										
TOWING (at depth)		33		METER NO.			SEA (Conditions): (Circle one) <u>Calm</u> Moderate Rough										
Total (ascend)		10	07	FINAL	516192												
				INITIAL	490538												
				DIFF.			WIND: knots										
				MESH SIZE	202												
AMT. OF WIRE OUT: 300.2 meters				OBSERVERS: Dante, Moira, Steph													
TOTAL NO. OF ANGLES:																	
ANGLES	46		46			47	46	44	45		44						
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160		
ANGLES		45		44		45		45		45		46		53			
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10		
117																	
PORT		STB.															
No. OF JARS																	
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING		none or slight	moderate	heavy	very heavy							
FORMALIN & BORATE ADDED					NET WASHING		none	rinsed	washed								
ALCOHOL ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station	After station						
COLLECTORS INITS.																	
REMARKS:																	

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
2107	2	1	12		2021/7/26	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #:	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	3318	5mm:	1045
Dewar #: Canister #	2mm:	3311	2mm:	1044
Notes:	1mm:	3310	1mm:	1043
	500µm:	3309	500µm:	1042
	200µm:	3308	200µm:	1041
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	C2	T2 H.13		27 Jul 2021	21:58	22:19								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	9:56	"	NET NO.			TOW NO.	1 OF 1								
			METER NO.			SEA (Conditions):	<u>Calm</u>								
TOWING (at depth)	:35	"	FINAL	545851		(Circle one)	Moderate								
			INITIAL	516186			Rough								
Total (ascend)	10:20	"	DIFF.	29665		WIND:	knots								
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: steph, grace, miney julia											
TOTAL NO. OF ANGLES:			mina												
ANGLES			52°		50°		50°		49°		49°		50°		49°
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES			49°		45°		45°		43°		43°		41°		42°
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS		PORT STB.		NET CLOGGING	none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)	P	Q	P		Q										
FORMALIN & BORATE ADDED			NET WASHING		none	rinsed	washed								
ALCOHOL ADDED			RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station After station							
COLLECTORS INITS			REMARKS:												

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	2	2	13		2021/07/27	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split: 3/8		Split: 3/8	
Cup #: 175	Size fraction:	Pre-weighed petri #:	Size fraction:	Petri #:
	5mm:	3335 Extra fish petri	5mm:	1065
Dewar #: 2 Canister # 6	2mm:	3334	2mm:	1064
Notes: 4/7 pyrosomes in jar, 3 frozen (-80°C) all imaged :)	1mm:	3333	1mm:	1063
	500µm:	3332	500µm:	1062
	200µm:	3331	200µm:	1061
	Dewar #: 1 Canister #: 4		Dewar #: 2 Canister #: a	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	2	T3 H14		28 July 2001	0856	0921								
TIME		Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL								
SINKING (descend)	9	39	"	NET NO.			TOW NO. 1 OF 1								
TOWING (at depth)	00	30	"	METER NO.			SEA (Conditions): <u>Calm</u> Moderate Rough								
Total (ascend)	14	44	"	FINAL	572676		WIND: 25 knots								
				INITIAL	545978										
				DIFF.	26798										
				MESH SIZE											
AMT. OF WIRE OUT: meters				OBSERVERS: AS, DC, PF, SM											
TOTAL NO. OF ANGLES:															
ANGLES	53		51		48		48		49		49		48	out	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		49		46		46		43		41		38		35	out
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS															
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING		none or slight	moderate	heavy	very heavy					
FORMALIN & BORATE ADDED					NET WASHING		none	rinsed	washed						
ALCOHOL ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station	After station				
COLLECTORS INITS															
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	2	3	14		28	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #:	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	3360	5mm:	1066 + 1 more
Dewar #: 1 Canister # 4	2mm:	3359	2mm:	1067
	1mm:	3358	1mm:	1068
	500µm:	3357	500µm:	1069
	200µm:	3356	200µm:	1070
	Dewar #: 1 Canister #: 4		Dewar #: 1 Canister #: 3	

(forgot to get 2nd #)

Notes:

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	2	T4H15		28 July 2021	21:10	21:33								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	9	55	NET NO.			TOW NO. 1 OF 1									
TOWING (at depth)		32	METER NO.			SEA (Conditions): (Circle one) Calm Moderate Rough									
Total (ascend)	20	43	FINAL	598531		WIND: knots									
			INITIAL	57242											
			DIFF.	2585A											
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS:											
TOTAL NO. OF ANGLES:															
ANGLES	55		55		55		49		50		49		45		45
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		39		38		32		32		32		35		32	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS		PORT STB.		NET CLOGGING	none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)	P	Q	P		Q										
FORMALIN & BORATE ADDED			NET WASHING		none	rinsed	washed								
ALCOHOL ADDED			RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station After station							
COLLECTORS INITS.			REMARKS:												

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	2	4	14		2021/7/28	21:10

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: 1/4 Cup #: 168	Split: 3/8 Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	3406	5mm:	1071
Dewar #: Canister #	2mm:	3407	2mm:	1072
Notes: 1x pyrosome	1mm:	3408	1mm:	1073
	500µm:	3409	500µm:	1074
	200µm:	3410	200µm:	1075
	Dewar #: Canister #:		Dewar #: Canister #:	MVEI-6

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																	
						BEGIN TOW	END TOW																																																
CCE-P	RR	2	T5H15		21-07-29 29-07-21	8:05	08:28																																																
<table border="1"> <thead> <tr> <th>TIME</th> <th>Min.</th> <th>Sec.</th> <th>NET NO.</th> <th>METER NO.</th> <th>PORT</th> <th>STB.</th> <th>TOW TYPE: CALBOBL</th> </tr> </thead> <tbody> <tr> <td>SINKING (descend)</td> <td>10</td> <td>05</td> <td></td> <td></td> <td></td> <td></td> <td>TOW NO. 1 OF 1</td> </tr> <tr> <td>TOWING (at depth)</td> <td>30</td> <td></td> <td>FINAL 625772</td> <td></td> <td></td> <td></td> <td>SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough</td> </tr> <tr> <td>Total (ascend)</td> <td>12</td> <td>45</td> <td>INITIAL 598532</td> <td></td> <td></td> <td></td> <td>WIND: 2 knots</td> </tr> <tr> <td></td> <td></td> <td></td> <td>DIFF. 27240</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>MESH SIZE</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								TIME	Min.	Sec.	NET NO.	METER NO.	PORT	STB.	TOW TYPE: CALBOBL	SINKING (descend)	10	05					TOW NO. 1 OF 1	TOWING (at depth)	30		FINAL 625772				SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough	Total (ascend)	12	45	INITIAL 598532				WIND: 2 knots				DIFF. 27240								MESH SIZE				
TIME	Min.	Sec.	NET NO.	METER NO.	PORT	STB.	TOW TYPE: CALBOBL																																																
SINKING (descend)	10	05					TOW NO. 1 OF 1																																																
TOWING (at depth)	30		FINAL 625772				SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough																																																
Total (ascend)	12	45	INITIAL 598532				WIND: 2 knots																																																
			DIFF. 27240																																																				
			MESH SIZE																																																				
AMT. OF WIRE OUT:			meters		OBSERVERS: Gracey Peter, Anyar Steph																																																		
TOTAL NO. OF ANGLES:																																																							
ANGLES	45		38		37		34		38		38		37		35																																								
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160																																								
ANGLES		38		39		41		45		46		53		61																																									
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10																																								
<table border="1"> <thead> <tr> <th>No. OF JARS</th> <th colspan="2">PORT</th> <th colspan="2">STB.</th> <th rowspan="2">NET CLOGGING</th> <th rowspan="2">none or slight</th> <th rowspan="2">moderate</th> <th rowspan="2">heavy</th> <th rowspan="2">very heavy</th> </tr> <tr> <th>SIZE OF JAR (Circle One)</th> <th>P</th> <th>Q</th> <th>P</th> <th>Q</th> </tr> </thead> <tbody> <tr> <td>FORMALIN & BORATE ADDED</td> <td></td> <td></td> <td></td> <td></td> <td>NET WASHING</td> <td>none</td> <td>rinsed</td> <td>washed</td> <td></td> </tr> <tr> <td>ALCOHOL ADDED</td> <td></td> <td></td> <td></td> <td></td> <td>RIPS AND HOLES IN NET</td> <td>none</td> <td>location</td> <td>when mended: (Circle one)</td> <td>Before station After station</td> </tr> <tr> <td>COLLECTORS INITS.</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								No. OF JARS	PORT		STB.		NET CLOGGING	none or slight	moderate	heavy	very heavy	SIZE OF JAR (Circle One)	P	Q	P	Q	FORMALIN & BORATE ADDED					NET WASHING	none	rinsed	washed		ALCOHOL ADDED					RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station After station	COLLECTORS INITS.												
No. OF JARS	PORT		STB.		NET CLOGGING	none or slight	moderate	heavy	very heavy																																														
SIZE OF JAR (Circle One)	P	Q	P	Q																																																			
FORMALIN & BORATE ADDED					NET WASHING	none	rinsed	washed																																															
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COLLECTORS INITS.																																																							
REMARKS:																																																							

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	2	5	15		21-07-29	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #: 130	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	3412	5mm:	1077
Dewar #: Canister #	2mm:	3413	2mm:	1078
Notes: <i>2 pyrosomas in dewar in 5L, immaged and preserved</i>	1mm:	3414	1mm:	1079
	500µm:	3415	500µm:	1080
	200µm:	3416	200µm:	1100
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)										
						BEGIN TOW	END TOW									
CCE-P	RR	2	H16		2021-7-29	21:04	21:25									
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL										
SINKING (descend)	10:10	"	NET NO.			TOW NO. 1 OF 1										
			METER NO.			SEA (Conditions): <u>Calm</u>										
TOWING (at depth)	:39	"	FINAL	673321		(Circle one) Moderate										
			INITIAL	644213		Rough										
Total (ascend)		"	DIFF.	29,108		WIND: knots										
			MESH SIZE													
AMT. OF WIRE OUT:			meters	OBSERVERS:												
TOTAL NO. OF ANGLES:																
ANGLES	51°		51°		49°		49°		49°		48°		47°		47°	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160	
ANGLES		45°		49°		49°		49°		49°		47°		45°		
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
PORT		STB.														
No. OF JARS							none or slight	moderate	heavy	very heavy						
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING											
FORMALIN & BORATE ADDED					NET WASHING				none	rinsed	washed					
ALCOHOL ADDED					RIPS AND HOLES IN NET				none	location	when mended: Before station					
COLLECTORS INITS.											(Circle one) After station					
REMARKS:																

20:57

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	2	BT6	16		2021-7-29	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: 1/4 Cup #: 177	Split: 3/8 Size fraction:	Pre-weighed petri #:	Split:	Petri #:
	5mm:	3417	5mm:	1101
Dewar #: Canister #:	2mm:	3418	2mm:	1102
Notes:	1mm:	3419	1mm:	1103
	500µm:	3420	500µm:	1104
	200µm:	3421	200µm:	1105
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
P2107 CCE-P	RV Revelle	Cycle 2 Day 3		C2D3 BT 7 H17	21-07-30	9:01	9:27								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	11	07	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough									
TOWING (at depth)	1	34	FINAL	700488		WIND: 0.5 knots									
			INITIAL	673315											
Total (ascend)	15	07	DIFF.	27173											
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: <i>Grace, Anya, Peter</i>											
TOTAL NO. OF ANGLES:															
ANGLES	49		48		48		48		44		44		43		43
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		41		40		39		36		36		34		30	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS				NET CLOGGING	none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)	P	Q	P		Q										
FORMALIN & BORATE ADDED				NET WASHING	none	rinsed	washed								
ALCOHOL ADDED															
COLLECTORS INITS.				RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station After station							
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	2	BT 7	17		2021-7-30	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: 1/4	Split: 3/8		Split: 3/8	
Cup #: 174	Size fraction:	Pre-weighed petri #:	Size fraction:	Petri #:
	5mm:	3422	5mm:	1106
Dewar #:	2mm:	3423	2mm:	1107
Canister #				
Notes:	1mm:	3424	1mm:	1108
	500µm:	3425	500µm:	1109
	200µm:	3426	200µm:	1110
	Dewar #:		Dewar #:	
	Canister #:		Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	2	Tow 8 #18		July 30	21:39									
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10	38	NET NO.			TOW NO.	1 OF 1								
			METER NO.			SEA (Conditions):	<u>Calm</u>								
TOWING (at depth)		35	FINAL	756485		(Circle one)	Moderate								
			INITIAL	727080			Rough								
Total (ascend)	10	15	DIFF.	29405		WIND: <5	knots								
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: Miny Steen, Pete											
TOTAL NO. OF ANGLES:															
ANGLES	45		54		50		50		50		51		50		
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		49		47		47		45		45		38		37	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS															
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING	none or slight	moderate	heavy	very heavy						
FORMALIN & BORATE ADDED					NET WASHING	none	rinsed	washed							
ALCOHOL ADDED					RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station						
COLLECTORS INITS.															
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	2	BT8	18			

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #:	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	3435	5mm:	1111
Dewar #: Canister #:	2mm:	3434	2mm:	1112
Notes:	1mm:	3433	1mm:	1113
	500µm:	3432	500µm:	1114
	200µm:	3431	200µm:	1115
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																											
						BEGIN TOW	END TOW																																																										
CCE-P	RR	2	BT 9 H# 19		2021 July 31	9:05																																																											
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				MESH SIZE																																																													
AMT. OF WIRE OUT: meters				OBSERVERS: Anya, Grace & Peter																																																													
TOTAL NO. OF ANGLES:																																																																	
ANGLES	54		50		46		46		45		46		45		42																																																		
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160																																																		
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REMARKS:																																																																	

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	2	BT9	19		2011 July 31	0905

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split: 3/3		Split: 3/3	
Cup #: 158	Size fraction:	Pre-weighed petri #:	Size fraction:	Petri #:
	5mm:	3427	5mm:	1116
Dewar #: main lab Canister # 2	2mm:	3428	2mm:	1117
Notes:	1mm:	3429	1mm:	1118
	500µm:	3430	500µm:	1119
	200µm:	3436	200µm:	1120
	Dewar #: main lab Canister #: 3		Dewar #: main lab Canister #: 2	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																											
						BEGIN TOW	END TOW																																										
CCE-P 2107	no	3	Tow 1 Haul 20		2 Aug. 2021	9:10	9:36																																										
<table border="1"> <thead> <tr> <th>TIME</th> <th>Min.</th> <th>Sec.</th> <th>PORT</th> <th>STB.</th> <th>TOW TYPE: CALBOBL</th> </tr> </thead> <tbody> <tr> <td>SINKING (descend)</td> <td>10</td> <td>08</td> <td>NET NO.</td> <td></td> <td>TOW NO. 1 OF 1</td> </tr> <tr> <td></td> <td></td> <td></td> <td>METER NO.</td> <td></td> <td>SEA (Conditions): <u>Calm</u></td> </tr> <tr> <td>TOWING (at depth)</td> <td>-</td> <td>30</td> <td>FINAL</td> <td>809290</td> <td>(Circle one) Moderate</td> </tr> <tr> <td></td> <td></td> <td></td> <td>INITIAL</td> <td>780605</td> <td>Rough</td> </tr> <tr> <td>Total (ascend)</td> <td>14</td> <td>16</td> <td>DIFF.</td> <td>28685</td> <td>WIND: 3 knots</td> </tr> <tr> <td></td> <td></td> <td></td> <td>MESH SIZE</td> <td></td> <td></td> </tr> </tbody> </table>								TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL	SINKING (descend)	10	08	NET NO.		TOW NO. 1 OF 1				METER NO.		SEA (Conditions): <u>Calm</u>	TOWING (at depth)	-	30	FINAL	809290	(Circle one) Moderate				INITIAL	780605	Rough	Total (ascend)	14	16	DIFF.	28685	WIND: 3 knots				MESH SIZE		
TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL																																												
SINKING (descend)	10	08	NET NO.		TOW NO. 1 OF 1																																												
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AMT. OF WIRE OUT:			meters		OBSERVERS:																																												
TOTAL NO. OF ANGLES:																																																	
ANGLES	45			39		41		39		41		42		41																																			
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160																																		
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COLLECTORS INITS.				RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station	After station																																								
REMARKS:																																																	

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	3	1	20		2 Aug. 2021	0910

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: 1/4 Cup #: 149	Split: 3/8 Size fraction:	Pre-weighed petri #:	Split: 3/8 Size fraction:	Petri #:
	5mm:	4221	5mm:	1121
Dewar #: main lab Canister #9	2mm:	4220	2mm:	1122
Notes:	1mm:	4219	1mm:	1123
	500µm:	4218	500µm:	1124
	200µm:	4217	200µm:	1125
	Dewar #: main lab Canister #: 8		Dewar #: main lab Canister #: 8	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	3	BT 2 Haul 21		2021/8/3	21:38	2159								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10:07	"	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough									
TOWING (at depth)	:33	"	FINAL	837406											
			INITIAL	809327											
Total (ascend)	10:15	"	DIFF.	28279		WIND: 56 knots									
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: Panty, Julie, Mene, Steph											
TOTAL NO. OF ANGLES:															
ANGLES	40°		35°		38°		39°		43°		47°		50°		54°
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		52°		53°		51°		49°		49°		49°		50°	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS		PORT STB.		NET CLOGGING	none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)	P	Q	P						Q						
FORMALIN & BORATE ADDED			NET WASHING		none	rinsed	washed								
ALCOHOL ADDED			RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station After station							
COLLECTORS INITS.															
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	3	2	21		2011/8/3	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split: 3/8		Split: 3/8	
Cup #:	Size fraction:	Pre-weighed petri #:	Size fraction:	Petri #:
	5mm:	4231	5mm:	1126
Dewar #: 2 Canister # 4	2mm:	4232	2mm:	1127
Notes: All pyrosomes imaged, 1 jar preserved rest frozen	1mm:	4233	1mm:	1128
	500µm:	4234	500µm:	1129
	200µm:	4235	200µm:	1130
	Dewar #: 2 Canister #: 4		Dewar #: 2 Canister #: 4	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P 72107	RR	3	BT3 Haul 22		2021/8/4	0808	0831								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	9	56	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u>									
TOWING (at depth)		30	FINAL	864557		(Circle one) Moderate									
			INITIAL	83765		Rough									
Total (ascend)	12	47	DIFF.	26942		WIND: <5 knots									
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: Amy, Grace, Peter											
TOTAL NO. OF ANGLES:															
ANGLES	44			40	41	40	40	39	41						
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		42		45		48		51		60		67		68	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS					none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING										
FORMALIN & BORATE ADDED					NET WASHING	none	rinsed	washed							
ALCOHOL ADDED															
COLLECTORS INITS.					RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station	After station					
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	3	3	22		2021/8/4	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: 1/4 Cup #: 151	Split: 3/8 Size fraction:	Pre-weighed petri #:	Split: 3/8 Size fraction:	Petri #:
	5mm:	4239	5mm:	1131
Dewar #: main lab Canister # 7	2mm:	4240	2mm:	1132
Notes:	1mm:	4241 4242	1mm:	1133
	500µm:	4242 4241	500µm:	1134
	200µm:	4243	200µm:	1135
	Dewar #:		Dewar #: main lab	
	Canister #:		Canister #: 7	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P		3	Tow 4 Haul 23		4 Aug 2021	21:27	21:48								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	9:51	"	NET NO.			TOW NO. 1 OF 1									
TOWING (at depth)	:34	"	METER NO.			SEA (Conditions): <u>Calm</u> Moderate Rough									
Total (ascend)	9:51	"	FINAL	893817		WIND: >5 knots									
			INITIAL	864560											
			DIFF.	29257											
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: Dante, Julie, Mary, Steph											
TOTAL NO. OF ANGLES:															
ANGLES	60°		57°		57°		53°		53°		54°		51°		52°
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES			50°		50°		50°		49°		49°		49°		45°
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS															
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING		none or slight	moderate	heavy	very heavy					
FORMALIN & BORATE ADDED					NET WASHING		none	rinsed	washed						
ALCOHOL ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station					
COLLECTORS INITS.										After station					
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
	3	4	23		4 Aug 2021	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: 1/4 Cup #: 155	Split: 3/8 Size fraction:	Pre-weighed petri #:	Split: 3/8 Size fraction:	Petri #:
	5mm:	4244	5mm:	1136
Dewar #: Canister #:	2mm:	4245	2mm:	1137
Notes:	1mm:	4246	1mm:	1138
	500µm:	4247	500µm:	1139
	200µm:	4248	200µm:	1140
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P 22107	RR	3	BT 5 Haul 24		5 Aug 2021	8:05	8:29								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10	38	NET NO.			TOW NO.	1 OF 1								
TOWING (at depth)	X	34	METER NO.			SEA (Conditions): (Circle one)	Calm Moderate Rough								
Total (ascend)	12	01	FINAL	922817		WIND: 9 knots									
			INITIAL	893821											
			DIFF.	28996											
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS				Grace ANYA, Peter							
TOTAL NO. OF ANGLES:															
ANGLES			55	53	55	51	56	54	53						
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES			52	48	44	37	29	21	15						
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS															
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING	none or slight	moderate	heavy	very heavy						
FORMALIN & BORATE ADDED					NET WASHING	none	rinsed	washed							
ALCOHOL ADDED					RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station After station						
COLLECTORS INITS.															
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
08107	3	5	24		5 Aug 2021	0805

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: 1/1 Cup #: 165	Split: 3/3 Size fraction:	Pre-weighed petri #:	Split: 3/3 Size fraction:	Petri #:
	5mm:	4249	5mm:	1141
Dewar #: main lab Canister # 9	2mm:	4250	2mm:	1142
Notes:	1mm:	4251	1mm:	1143
	500µm:	4252	500µm:	1144
	200µm:	4253	200µm:	1145
	Dewar #: main lab Canister #: 9	Dewar #: main lab Canister #: 9		

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P 207	RR	3	Tow 6 haul 25		5 Aug 2021	21:39 _{PM}	21:59 _{PM}								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	9:27	"	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u>									
TOWING (at depth)	:34	"	FINAL	951027		Moderate									
			INITIAL	922835		Rough									
Total (ascend)	9:41	"	DIFF.	28192		WIND: 8.6 knots									
			MESH SIZE			(237 direction)									
AMT. OF WIRE OUT: 300 meters			OBSERVERS: Julie Mine, Steph												
TOTAL NO. OF ANGLES:															
ANGLES	58°		58°		55°		55°		56°		55°		55°		54°
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES		52°		52°		52°		55°		52°		52°		50°	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS							none or slight		moderate		heavy		very heavy		
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING										
FORMALIN & BORATE ADDED					NET WASHING		none		rinsed		washed				
ALCOHOL ADDED					RIPS AND HOLES IN NET		none		location		when mended: (Circle one)		Before station		
COLLECTORS INITS.													After station		
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
D9107	3	6	25		5 Aug 2021	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split:	Pre-weighed	Split:	
Cup #: 154	Size fraction:	petri #:	Size fraction:	Petri #:
	5mm:	4227	5mm:	1150
Dewar #: Canister #	2mm:	4226	2mm:	1149
Notes:	1mm:	4225	1mm:	1148
	500µm:	4224	500µm:	1147
	200µm:	4223	200µm:	1146
	Dewar #: Canister #:		Dewar #: Canister #:	

*All ponds
imaged
part frozen
stks in formalin*

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P 92107	RR	3	BT 7/1/26	Day 4	6 Aug 2021	0805	0833								
TIME		Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL								
SINKING (descend)		10	31	NET NO.			TOW NO. 1 OF 1								
TOWING (at depth)		x	32	METER NO.			SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough								
Total (ascend)		16	50	FINAL	978174										
				INITIAL	951050										
				DIFF.	27124		WIND: knots								
				MESH SIZE											
AMT. OF WIRE OUT: meters				OBSERVERS:											
TOTAL NO. OF ANGLES:															
ANGLES	45		42		39		35		36		38		41		42
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		45		48		52		52		52		53		42	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS															
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING	none or slight	moderate	heavy	very heavy						
FORMALIN & BORATE ADDED					NET WASHING	none	rinsed	washed							
ALCOHOL ADDED															
COLLECTORS INITS					RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station	After station					
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	3	7	26	2014	6 Aug 2011	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: 1/4 Cup #: 166	Split: 3/8 Size fraction:	Pre-weighed petri #:	Split: 3/8 Size fraction:	Sprayed with Ammonium Formate Petri #:
Dewar #: mainlab Canister # 10 Notes:	5mm:	3440	5mm:	1151
	2mm:	3441	2mm:	1152
	1mm:	3442	1mm:	1153
	500µm:	3443	500µm:	1154
	200µm:	3444	200µm:	1155
Dewar #: mainlab Canister #: 10	Dewar #: mainlab Canister #: 10		Dewar #: mainlab Canister #: 10	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																											
						BEGIN TOW	END TOW																																										
CCE-P 2107	RR	3	T 5 H 08		6 Aug '21	2134	2155																																										
<table border="1"> <thead> <tr> <th>TIME</th> <th>Min.</th> <th>Sec.</th> <th>PORT</th> <th>STB.</th> <th>TOW TYPE: CALBOBL</th> </tr> </thead> <tbody> <tr> <td>SINKING (descend)</td> <td>10</td> <td>01</td> <td>NET NO.</td> <td></td> <td>TOW NO. 1 OF 1</td> </tr> <tr> <td>TOWING (at depth)</td> <td></td> <td>30</td> <td>METER NO.</td> <td></td> <td>SEA (Conditions): <input checked="" type="radio"/> Calm (Circle one) <input type="radio"/> Moderate <input type="radio"/> Rough</td> </tr> <tr> <td>Total (ascend)</td> <td>9</td> <td>46</td> <td>FINAL</td> <td>1000007</td> <td>WIND: <5 knots</td> </tr> <tr> <td></td> <td></td> <td></td> <td>INITIAL</td> <td>978100</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>DIFF.</td> <td>25107</td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td>MESH SIZE</td> <td></td> <td></td> </tr> </tbody> </table>								TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL	SINKING (descend)	10	01	NET NO.		TOW NO. 1 OF 1	TOWING (at depth)		30	METER NO.		SEA (Conditions): <input checked="" type="radio"/> Calm (Circle one) <input type="radio"/> Moderate <input type="radio"/> Rough	Total (ascend)	9	46	FINAL	1000007	WIND: <5 knots				INITIAL	978100					DIFF.	25107					MESH SIZE		
TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL																																												
SINKING (descend)	10	01	NET NO.		TOW NO. 1 OF 1																																												
TOWING (at depth)		30	METER NO.		SEA (Conditions): <input checked="" type="radio"/> Calm (Circle one) <input type="radio"/> Moderate <input type="radio"/> Rough																																												
Total (ascend)	9	46	FINAL	1000007	WIND: <5 knots																																												
			INITIAL	978100																																													
			DIFF.	25107																																													
			MESH SIZE																																														
AMT. OF WIRE OUT:			meters		OBSERVERS: Miney Steph																																												
TOTAL NO. OF ANGLES:																																																	
ANGLES	42		42		42		42		42		42		42		42																																		
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160																																		
ANGLES		30		25		45		10		10		20		40																																			
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10																																		
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PORT		STB.		NET CLOGGING	NET WASHING	RIPS AND HOLES IN NET																																											
No. OF JARS	SIZE OF JAR (Circle One)	FORMALIN & BORATE ADDED	ALCOHOL ADDED				COLLECTORS INITS.																																										
	P Q	P Q		none or slight	none	none																																											
				moderate	rinsed	location																																											
				heavy	washed	when mended: Before station																																											
				very heavy		(Circle one) After station																																											
REMARKS:																																																	

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
207	3	8	27		6 Aug 2021	2134

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #: 153	Split: 3/8 Size fraction:	Pre-weighed petri #:	Split: 3/8 Size fraction:	Petri #:
gut contents cup is approx 1/8 of total	5mm:	3449	5mm:	1156
Dewar #: Canister #	2mm:	3448	2mm:	1157
Notes:	1mm:	3447	1mm:	1158
	500µm:	3446	500µm:	1159
	200µm:	3445	200µm:	1160
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	TRANSECT CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P P2107	RR	1	Trawl H28		2021-08-07	23:22	23:43								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	11	06	NET NO.			TOW NO. 1 OF 1									
TOWING (at depth)	30	secs	METER NO.			SEA (Conditions): (Circle one) Calm Moderate Rough									
Total (ascend)	9	42	FINAL	030396		WIND: 15 knots									
			INITIAL	003291											
			DIFF.	27105											
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: Miney, Grace, Meier, Steen											
TOTAL NO. OF ANGLES:															
ANGLES		45	42	43	45	46	44	46							
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		46	46	45	45	45	42	45	43						
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS		PORT		STB.		NET CLOGGING		none or slight	moderate	heavy	very heavy				
SIZE OF JAR (Circle One)		P	Q	P	Q	NET WASHING		none	rinsed	washed					
FORMALIN & BORATE ADDED						RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station After station				
ALCOHOL ADDED															
COLLECTORS INITS															
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	Rv Revelle	1	28	Tow: 1 Haul: 28	2021/08/07	2322

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: $\frac{1}{4}$	Split: $\frac{3}{8}$	Pre-weighed	Split: $\frac{3}{8}$	
Cup #: 161	Size fraction:	petri #:	Size fraction:	Petri #:
	5mm:	3450	5mm:	1161
Dewar #: 1 Canister # NA	2mm:	3451	2mm:	1162
Notes: gut fluorescence samples were collected in ammonium and were 35 ml of 25 biomass samples.	1mm:	3452	1mm:	1163
	500µm:	3453	500µm:	1164
	200µm:	3454	200µm:	1165
	Dewar #: 1 Canister #: NA		Dewar #: 1 Canister #: NA	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
P2107 CCE-P	RV Revelle	Transect 1	Station 2	Tow: 2 Haul: 29	0021/08/08	0607	0628								
<i>absent so I used initial value from next tow</i>															
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10	53	NET NO.			TOW NO. 1 OF 1									
TOWING (at depth)		31	METER NO.			SEA (Conditions): Calm (Circle one) Moderate Rough									
Total (ascend)	21	20	FINAL	057197		WIND: knots									
			INITIAL	030390											
			DIFF.	26807											
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: Steph, Pete, Dante, Moira											
TOTAL NO. OF ANGLES:															
ANGLES	60		57		58		58		59		55		57		55
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	178	160
ANGLES		56		51		52		47		42		34			
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS		PORT STB.		NET CLOGGING	none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)	P	Q	P		Q										
FORMALIN & BORATE ADDED			NET WASHING		none	rinsed	washed								
ALCOHOL ADDED			RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station After station							
COLLECTORS INITS			REMARKS:												

9.56 in delta sweep

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	1	2	29	Tow 1 Haul 29	2021/08/08	0607

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: 1/4	Split: 3/8		Split: 3/8	
Cup #:	Size fraction:	Pre-weighed petri #:	Size fraction:	Petri #:
	5mm:	3656	5mm:	1167
Dewar #: Canister # 320 R	2mm:	3657	2mm:	1168
Notes:	1mm:	3658	1mm:	1169
	500µm:	3659	500µm:	1170
	200µm:	3660	200µm:	1171
	Dewar #: Canister #:	MVC1 Sack	Dewar #: Canister #:	MVC1 Sack

Initials:

DC - removed a sample of the same

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	Transect 1	T3-H30		2021/8/18	12:38	1301								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10	28	NET NO.			TOW NO. 1 OF 1									
TOWING (at depth)		32	METER NO.			SEA (Conditions): Calm (Circle one) Moderate Rough									
Total (ascend)	11	30	FINAL	086375		WIND: knots									
			INITIAL	057197											
			DIFF.	29178											
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: Julie, Anya, Dante											
TOTAL NO. OF ANGLES:															
ANGLES	53		52		51		51		51		51		52		50
WIRE OUT	380	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		51		50		51		51		52		52		55	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS							none or slight	moderate	heavy	very heavy					
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING										
FORMALIN & BORATE ADDED					NET WASHING		none	rinsed	washed						
ALCOHOL ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station	After station				
COLLECTORS INTS.															
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle <i>Transect</i>	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	1	3	30		8/8/2021	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #: 163	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
Dewar #: 1 Canister # sock	5mm:	3665	5mm:	1176
	2mm:	3664	2mm:	1175
	1mm:	3663	1mm:	1174
	500µm:	3662	500µm:	1173
	200µm:	3661	200µm:	1172
Dewar #: 2	Canister #: sock		Dewar #: 2	Canister #: sock

Notes:

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P 2107	Revelle	Transect 1	BT4 Haul 31		2021/8/8	20:12									
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10	23	NET NO.			TOW NO. 1 OF 1									
TOWING (at depth)	30		METER NO.			SEA (Conditions): (Circle one) Calm Moderate Rough									
Total (ascend)	10	09	FINAL			WIND: knots									
			INITIAL	086375											
			DIFF.	118211 → 31886											
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS:											
TOTAL NO. OF ANGLES:															
ANGLES	53°		52°		52°		49°		50°		50°		52°		54°
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES		52°		55°		55°		55°		59°		55°		51°	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS							none or slight		moderate		heavy		very heavy		
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING										
FORMALIN & BORATE ADDED					NET WASHING		none		rinsed		washed				
ALCOHOL ADDED					RIPS AND HOLES IN NET		none		location		when mended: (Circle one)		Before station		
COLLECTORS INITS.													After station		
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	Transsect ↓	4	31	T ₃ H31	8/8/2021	

Gut Contents (cup)		Biomass (petris)		Gut Fluorescence (petris)	
Split:		Split:		Split:	
Cup #:		Size fraction:	Pre-weighed petri #:	Size fraction:	Petri #:
		5mm:	3666	5mm:	1046
Dewar #:		2mm:	3667	2mm:	1047
Canister #:		1mm:	3668	1mm:	1048
Notes:		500µm:	3669	500µm:	1049
		200µm:	3670	200µm:	1050
		Dewar #:		Dewar #:	
		Canister #:		Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P P2107	RR	Transsect 1	Tow 5 Haul 3 2		9 Aug 2021	0217	0238								
<i>see data sheet</i>															
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10	38	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): Calm									
TOWING (at depth)		32	FINAL	144016		(Circle one) <u>Moderate</u>									
			INITIAL	13281	18274	Rough									
Total (ascend)	21	23	DIFF.	25735		WIND: knots									
			MESH SIZE												
AMT. OF WIRE OUT: 300 meters			OBSERVERS: <i>Davis, for, Mike, Staff</i>												
TOTAL NO. OF ANGLES:															
ANGLES	55	50	47	45	44.5	45	46	45							
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES		44	42	42	44		37	42	44						
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT STB.															
No. OF JARS					none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING										
FORMALIN & BORATE ADDED					none	rinsed	washed								
ALCOHOL ADDED					NET WASHING										
COLLECTORS INITS.					none	location	when mended: (Circle one)	Before station After station							
REMARKS:															

Held at surface due to sea glass

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle <i>Transect</i>	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	1	5	32		9 Aug 2021	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split:	Pre-weighed	Split:	
Cup #: 160	Size fraction:	petri #:	Size fraction:	Petri #:
	5mm:	3671	5mm:	1051
Dewar #: Canister #	2mm:	3672	2mm:	1052
Notes:	1mm:	3673	1mm:	1053
	500µm:	3674	500µm:	1054
	200µm:	3675	200µm:	1055
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

1 x pyrosoma large medusae was frozen

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE <i>Transect</i>	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P P2107	RR	1	BTG Haw 133		9 Aug 2021	803 <i>air</i>	08:14								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10	21	"	NET NO.		TOW NO. 1 OF 1									
TOWING (at depth)	4	30	"	METER NO.		SEA (Conditions): (Circle one) <u>Moderate</u>									
				FINAL	172336	Calm									
				INITIAL	144030	Rough									
Total (ascend)	11	16	"	DIFF.	28,806	WIND: 10 knots									
				MESH SIZE											
AMT. OF WIRE OUT:			meters	OBSERVERS: <i>Moir, Anya, Peter</i>											
TOTAL NO. OF ANGLES:															
ANGLES	50	45		45		44		44		42		41		42	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		40		42		44		49		51		53		59	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS				NET CLOGGING	none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)	P	Q	P		Q										
FORMALIN & BORATE ADDED				NET WASHING	none	rinsed	washed								
ALCOHOL ADDED				RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station							
COLLECTORS INITS.					After station										
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle <i>(Traced)</i>	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P1107	1	6	33		9 Aug 2011	0803

Gut Contents (cup)	Biomass (petris)	Gut Fluorescence (petris)
Split: $\frac{1}{4}$	Split: $\frac{3}{8}$	Split: $\frac{3}{8}$
Cup #: 162	Size fraction: Pre-weighed petri #:	Size fraction: Petri #:
Dewar #:	5mm:	5mm:
Canister #	2mm:	2mm:
Notes:	1mm:	1mm:
	500µm:	500µm:
	200µm:	200µm:
	Dewar #:	Dewar #:
	Canister #:	Canister #:

Initials:

Ran out of GF Petri dishes
 Start Biomass # 4331 For Box # 8

+9 imaged
 pyrosomes in
 formalin

+

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	T1-BT7 H34			2021-08-09	6:16 PM									
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	9:15	"	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): (Circle one) <u>Moderate</u>									
TOWING (at depth)	:33	"	FINAL	205009		Rough									
			INITIAL	172879		WIND: knots									
Total (ascend)	9:19	"	DIFF.												
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: Moira, Grace, Anya, Julie											
TOTAL NO. OF ANGLES:															
ANGLES	55°	47°	48°	46°	46°	47°	48°	45°							
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	45°	48°	50°	50°	50°	52°	52°								
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT STB.															
No. OF JARS					NET CLOGGING	none or slight	moderate	heavy	very heavy						
SIZE OF JAR (Circle One)	P	Q	P	Q		none	rinsed	washed							
FORMALIN & BORATE ADDED					NET WASHING	none	location	when mended: (Circle one)	Before station						
ALCOHOL ADDED					RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	After station						
COLLECTORS INITS.															
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	T1	7	34		9 Aug 2021	1816

+21 pyrosomes in formalin

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #:	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
152	5mm:	3631	5mm:	1056
Dewar #: Canister #	2mm:	3632	2mm:	1057
Notes:	1mm:	4228	1mm:	1058
	500µm:	4229	500µm:	1059
	200µm:	4230	200µm:	1060
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	T1	T8	H 35	2004 8 10	0009	0031								
TIME		Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL								
SINKING (descend)	10	46	"	NET NO.			TOW NO. 1 OF 1								
				METER NO.			SEA (Conditions): (Circle one) Calm Moderate Rough								
TOWING (at depth)	32	"	FINAL	745015B											
			INITIAL	20519											
Total (ascend)	10	10	"	DIFF.			WIND: knots								
				MESH SIZE											
AMT. OF WIRE OUT: meters				OBSERVERS: Dante, Pete, Mike, Steph											
TOTAL NO. OF ANGLES:															
ANGLES	57		56		57		53		52		54		50		50
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		49		47		45		46		47		45		43	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS							none or slight	moderate	heavy	very heavy					
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING										
FORMALIN & BORATE ADDED					NET WASHING		none	rinsed	washed						
ALCOHOL ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station					
COLLECTORS INITS.										After station					
REMARKS: Saw a large salp enter congo upon deployment															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P9107	T1	8	35		10 Aug 2021	0009

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: 1/4 Cup #: 156	Split: 3/8 Size fraction:	Pre-weighed petri #:	Split: 3/8 Size fraction:	Petri #:
	5mm:	3633	5mm:	4332
Dewar #: Canister #:	2mm:	3634	2mm:	4333
Notes:	1mm:	3635	1mm:	4334
	500µm:	3636	500µm:	4335
	200µm:	3637	200µm:	4336
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

lots of microsomes in all ps

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	T2	9	H36		201810	0735

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split: 1/2		Split: 1/2	
Cup #:	Size fraction:	Pre-weighed petri #:	Size fraction:	Petri #:
/	5mm:	3647	5mm:	3638
	2mm:	3646	2mm:	3639
	1mm:	3645	1mm:	3640
	500µm:	3644	500µm:	3641
	200µm:	3643	200µm:	3642
	Dewar #: Canister #:			Dewar #: Canister #:

Notes:

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	T2	B2 H 36		2021-8-11	07:35	07:58								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	11	03	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u> Moderate Rough									
TOWING (at depth)	x	30	FINAL	257269		WIND: <5 knots									
			INITIAL	230705											
Total (ascend)	12	16	DIFF.												
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: Dante, Slope, Mine, Pete											
TOTAL NO. OF ANGLES:															
ANGLES	42	37	35	34	32	32	34	35							
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		37	41	47	50	49	56	65							
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS		PORT		STB.		NET CLOGGING		none or slight	moderate	heavy	very heavy				
SIZE OF JAR (Circle One)		P	Q	P	Q	NET WASHING		none	rinsed	washed					
FORMALIN & BORATE ADDED						RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station				
ALCOHOL ADDED										After station					
COLLECTORS INITS.															
REMARKS:															

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RR	T2	BTE H37		2021 Aug 10	1001	10:24								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10	27	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): Calm									
TOWING (at depth)	0	30	FINAL	281753		Moderate									
			INITIAL	257315		Rough									
Total (ascend)	11	51	DIFF.			WIND: knots									
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: Anyar, Stephen Peter											
TOTAL NO. OF ANGLES:															
ANGLES	44		44		40		42		41		42		41		40
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		39		40		39		38		40		43		45	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS							none or slight	moderate	heavy	very heavy					
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING										
FORMALIN & BORATE ADDED					NET WASHING		none	rinsed	washed						
ALCOHOL ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station					
COLLECTORS INITS.										After station					
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	T2	T2	H37		2021/8/10	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #:	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	3652	5mm:	4010
Dewar #: Canister #	2mm:	3651	2mm:	4009
Notes:	1mm:	3650	1mm:	4008
	500µm:	3649	500µm:	4007
	200µm:	3648	200µm:	4006
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)										
						BEGIN TOW	END TOW									
CCE-P P2107	RR	T2	BT3-H38		2021-08-10	1302	1326									
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL										
SINKING (descend)	10	09	NET NO.			TOW NO. 1 OF 1										
			METER NO.			SEA (Conditions): Calm										
TOWING (at depth)		30	FINAL	310982		Moderate										
			INITIAL	281752		Rough										
Total (ascend)	12	37	DIFF.			WIND: knots										
			MESH SIZE													
AMT. OF WIRE OUT:			meters	OBSERVERS:												
TOTAL NO. OF ANGLES:																
ANGLES	55		55		54		55		52		55		54		55	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160	
ANGLES		53		50		54		55		55		52		52		
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10	
PORT		STB.														
No. OF JARS																
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING	none or slight	moderate	heavy	very heavy							
FORMALIN & BORATE ADDED					NET WASHING	none	rinsed	washed								
ALCOHOL ADDED					RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station							
COLLECTORS INITS.										After station						
REMARKS:																

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	T2	T3	H38		2021/08/10	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split: 1/2		Split: 1/2	
Cup #:	Size fraction:	Pre-weighed petri #:	Size fraction:	Petri #:
	5mm:	3654	5mm:	4013
Dewar #: Canister #	2mm:	3653	2mm:	4014
Notes:	1mm:	3655	1mm:	4015
	500µm:	4012	500µm:	4016
	200µm:	4011	200µm:	4017
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P	RV Revelle	Transect 2	Bongo 4 Haul 39		2021/08/10	1639	1701								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	9	35	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u> Moderate Rough									
TOWING (at depth)	0	30	FINAL	340878		WIND: knots									
			INITIAL	310992											
Total (ascend)	11	55	DIFF.												
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS:											
TOTAL NO. OF ANGLES:				Anyon, Gross, Morco, Pete											
ANGLES	65		60		59		59		55		56		58		55
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		53		53		54		52		50		48		45	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS		PORT STB.		NET CLOGGING	none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)		P Q	P Q		NET WASHING	none	rinsed	washed							
FORMALIN & BORATE ADDED				RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station After station							
ALCOHOL ADDED															
COLLECTORS INITS.															
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	T2	BT4	H39		2021/08/10	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #:	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	4022	5mm:	4023
Dewar #: Canister #:	2mm:	4021	2mm:	4024
Notes:	1mm:	4020	1mm:	4025
	500µm:	4019	500µm:	4026
	200µm:	4018	200µm:	
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																											
						BEGIN TOW	END TOW																																																										
CCE-P P2107	RR	T2	BTS Haul 40		2021/08/10	7:55 PM																																																											
<table border="1"> <tr> <td>TIME</td> <td>Min.</td> <td>Sec.</td> <td></td> <td>PORT</td> <td>STB.</td> <td colspan="2">TOW TYPE: CALBOBL</td> </tr> <tr> <td rowspan="2">SINKING (descend)</td> <td rowspan="2">9:48</td> <td rowspan="2">"</td> <td>NET NO.</td> <td></td> <td></td> <td colspan="2">TOW NO. 1 OF 1</td> </tr> <tr> <td>METER NO.</td> <td></td> <td></td> <td colspan="2">SEA (Conditions): <u>Calm</u> Moderate Rough</td> </tr> <tr> <td rowspan="2">TOWING (at depth)</td> <td rowspan="2">:35</td> <td rowspan="2">"</td> <td>FINAL</td> <td>365050</td> <td></td> <td colspan="2" rowspan="2">WIND: <u>5</u> knots</td> </tr> <tr> <td>INITIAL</td> <td>340887</td> <td></td> </tr> <tr> <td rowspan="2">Total (ascend)</td> <td rowspan="2">12</td> <td rowspan="2">12</td> <td>DIFF.</td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <td>MESH SIZE</td> <td></td> <td></td> <td colspan="2"></td> </tr> </table>								TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL		SINKING (descend)	9:48	"	NET NO.			TOW NO. 1 OF 1		METER NO.			SEA (Conditions): <u>Calm</u> Moderate Rough		TOWING (at depth)	:35	"	FINAL	365050		WIND: <u>5</u> knots		INITIAL	340887		Total (ascend)	12	12	DIFF.					MESH SIZE																	
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Total (ascend)	12	12	DIFF.																																																														
			MESH SIZE																																																														
AMT. OF WIRE OUT: 300			meters	OBSERVERS:				Moira, Steph, Mine, Peter, Julie																																																									
TOTAL NO. OF ANGLES:																																																																	
ANGLES	44°			38°		37°		39°		38°		38°		40°																																																			
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160																																																		
ANGLES		39°		42°		42°		41°		42°		41°		42°																																																			
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10																																																		
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REMARKS:																																																																	

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	T2	BT5	H40		2021/Aug/10	

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: Cup #:	Split: Size fraction:	Pre-weighed petri #:	Split: Size fraction:	Petri #:
	5mm:	4029	5mm:	4343
Dewar #: Canister #	2mm:	4030	2mm:	4341
Notes:	1mm:	4028	1mm:	4342
	500µm:	4337	500µm:	4340
	200µm:	4338	200µm:	4339
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE <i>Transect</i>	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
<i>P9107</i> CCE-P	<i>R2</i>	<i>2</i>	<i>BTC</i> <i>Haul 41</i>		<i>11 Aug 2021</i>	<i>0742</i>	<i>0805</i>								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	<i>10</i>	<i>29</i>	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u> Moderate									
TOWING (at depth)		<i>30</i>	FINAL	<i>383376</i>		Rough									
			INITIAL	<i>365045</i>		WIND: <i>15</i> knots									
Total (ascend)	<i>12</i>	<i>04</i>	DIFF.												
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS:											
TOTAL NO. OF ANGLES:															
ANGLES	<i>50</i>			<i>54</i>	<i>53</i>	<i>53</i>	<i>51</i>	<i>49</i>	<i>46</i>						
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		<i>42</i>		<i>40</i>		<i>38</i>		<i>33</i>		<i>28</i>		<i>28</i>		<i>23</i>	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS				NET CLOGGING	none or slight	moderate	heavy	very heavy							
SIZE OF JAR (Circle One)	P	Q	P	Q											
FORMALIN & BORATE ADDED				NET WASHING	none	rinsed	washed								
ALCOHOL ADDED															
COLLECTORS INITS.				RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station	After station						
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle <i>Transect</i>	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	2	BT6	41		11 Aug 2021	

100% of pigments imaged + frozen (50-50 GF-bm)

Gut Contents (cup)	Biomass (petris)	Gut Fluorescence (petris)
Split:	Split: <i>1/4</i>	Split: <i>1/4</i>
Cup #:	Size fraction: Pre-weighed petri #:	Size fraction: Petri #:
	5mm: <i>4349</i> <i>nothing</i>	5mm: <i>4344</i> <i>Pseudo-cocci + good stuff</i>
Dewar #: Canister #	2mm: <i>4350</i>	2mm: <i>4345</i>
Notes:	1mm: <i>4351</i>	1mm: <i>4346</i>
	500µm: <i>4352</i>	500µm: <i>4347</i>
	200µm: <i>4353</i>	200µm: <i>4348</i>
	Dewar #:	Dewar #:
	Canister #:	Canister #:

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE TRANSECT	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P P2107	RR	2	BT 7. H 42		11 Aug 2021	10 16	10 40								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10	34	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough									
TOWING (at depth)		31	FINAL	413331											
			INITIAL	388882		WIND: knots									
Total (ascend)	12	23	DIFF.												
			MESH SIZE												
AMT. OF WIRE OUT:			meters	OBSERVERS: Grace, Peter, 3 Anya											
TOTAL NO. OF ANGLES:															
ANGLES	48		45		45		45		44		44		44		
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES		43		43		44		44		46		49		50	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
PORT		STB.													
No. OF JARS							none or slight	moderate	heavy	very heavy					
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING										
FORMALIN & BORATE ADDED					NET WASHING		none	rinsed	washed						
ALCOHOL ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station	After station				
COLLECTORS INITS.															
REMARKS:															

Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle <i>Transect</i>	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	2	BT7	42		11 Aug 2021	1016

← yes this is intentional →

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split:	Split: $\frac{1}{4}$		Split: $\frac{1}{2}$	
Cup #:	Size fraction:	Pre-weighed petri #:	Size fraction:	Petri #:
	5mm:	3981	5mm:	4356
Dewar #:	2mm:	3982	2mm:	4357
Canister #	1mm:	3983	1mm:	4358
	500µm:	3984	500µm:	4359
	200µm:	3985	200µm:	4360
	Dewar #:		Dewar #:	
	Canister #:		Canister #:	

Notes:

+1 pyrosoma biomass

Initials:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DV	BEGIN TOW	END TOW																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
CCP-P	RR	Ta	BT8.H43		2021-08-11	1259	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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Oblique Bongo Size Fractionated Data Sheet

Cruise	Cycle	Tow	Haul	Event # (deployed)	Date (Y/M/D)	Time (PDT) (Begin Tow)
P2107	T2	BT 8	H43		2021-08-11	1259

Gut Contents (cup)	Biomass (petris)		Gut Fluorescence (petris)	
Split: X Cup #:	Split: 1/4 Size fraction:	Pre-weighed petri #:	Split: 1/4 Size fraction:	Petri #:
	5mm:	3995	5mm:	3990
Dewar #: Canister #	2mm:	3994	2mm:	3989
Notes:	1mm:	3993	1mm:	3988
	500µm:	3992	500µm:	3987
	200µm:	3991	200µm:	3986
	Dewar #: Canister #:		Dewar #: Canister #:	

Initials: