

Station
Tow

BONGO TOWS			Sample	Start	Event	Tow	Max	Vol H2O
Expedition	SHIP	STANO	Date	Time	No.	Type	Depth	filtered
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -1	8/4/2012	1931	90	Vertical	99.03	55.8
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -2	8/4/2012	2114	95	Vertical	100.00	51.2
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -3	8/4/2012	2332	102	Vertical	99.62	45.3
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -4	8/4/2012	0055	107	Vertical	100.00	50.3
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -5	8/5/2012	0207	113	Vertical	99.94	43.1
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -6	8/5/2012	0315	118	Vertical	97.81	42.8
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -7	8/5/2012	0421	123	Vertical	99.62	41.5
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -8	8/5/2012	0534	127	Vertical	98.16	43.7
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -10	8/5/2012	0654	132	Vertical	100.00	39.5
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -11	8/5/2012	0848	139	Vertical	100.00	41.6
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -12	8/5/2012	1114	149	Vertical	100.00	44.9
CCE-LTER-P1208	R/V MELVILLE	EFRONT1 -13	8/5/2012	1316	156	Vertical	99.94	41.1
CCE-LTER-P1208	R/V MELVILLE	Cycle 1 -1	8/6/2012	1048	176	Oblique	215.15	263.3
CCE-LTER-P1208	R/V MELVILLE	Cycle 1 -2	8/6/2012	2258	191	Oblique	215.15	145.7
CCE-LTER-P1208	R/V MELVILLE	Cycle 1 -3	8/7/2012	1032	206	Oblique	219.60	271.9
CCE-LTER-P1208	R/V MELVILLE	Cycle 1 -4	8/7/2012	2254	220	Oblique	202.81	325.0
CCE-LTER-P1208	R/V MELVILLE	Cycle 1 -5	8/8/2012	1031	233	Oblique	202.03	391.5
CCE-LTER-P1208	R/V MELVILLE	Cycle 1 -6	8/8/2012	2234	243	Oblique	210.59	345.2
CCE-LTER-P1208	R/V MELVILLE	Cycle 2 -1	8/10/2012	1048	270	Oblique	209.83	488.1
CCE-LTER-P1208	R/V MELVILLE	Cycle 2 -2	8/10/2012	0017	285	Oblique	238.22	481.0
CCE-LTER-P1208	R/V MELVILLE	Cycle 2 -3	8/11/2012	1031	300	Oblique	212.52	422.3
CCE-LTER-P1208	R/V MELVILLE	Cycle 2 -4	8/11/2012	2232	315	Oblique	208.40	410.0
CCE-LTER-P1208	R/V MELVILLE	Cycle 3 -1	8/13/2012	1023	342	Oblique	186.53	499.5
CCE-LTER-P1208	R/V MELVILLE	Cycle 3 -2	8/13/2012	2304	356	Oblique	191.90	459.9
CCE-LTER-P1208	R/V MELVILLE	Cycle 3 -3	8/14/2012	1035	371	Oblique	202.52	481.4
CCE-LTER-P1208	R/V MELVILLE	Cycle 3 -4	8/14/2012	2324	383	Oblique	205.00	476.2
CCE-LTER-P1208	R/V MELVILLE	Cycle 4 -1	8/16/2012	1029	413	Oblique	201.29	493.9
CCE-LTER-P1208	R/V MELVILLE	Cycle 4 -2	8/16/2012	2230	424	Oblique	206.01	473.5
CCE-LTER-P1208	R/V MELVILLE	Cycle 4 -3	8/17/2012	1033	437	Oblique	216.07	468.9
CCE-LTER-P1208	R/V MELVILLE	Cycle 4 -4	8/17/2012	2232	451	Oblique	211.89	480.7
CCE-LTER-P1208	R/V MELVILLE	Cycle 5 -1	8/19/2012	1036	482	Oblique	216.95	440.4
CCE-LTER-P1208	R/V MELVILLE	Cycle 5 -2	8/19/2012	2227	493	Oblique	204.33	429.5
CCE-LTER-P1208	R/V MELVILLE	EFRONT2 -1	8/20/2012	1849	508	Vertical	100.00	44.7
CCE-LTER-P1208	R/V MELVILLE	EFRONT2 -2	8/20/2012	2036	513	Vertical	99.62	39.3
CCE-LTER-P1208	R/V MELVILLE	EFRONT2 -3	8/20/2012	2230	520	Vertical	99.62	47.4
CCE-LTER-P1208	R/V MELVILLE	EFRONT2 -4	8/20/2012	0001	525	Vertical	100.00	44.0
CCE-LTER-P1208	R/V MELVILLE	EFRONT2 -5	8/21/2012	0125	530	Vertical	100.00	54.0
CCE-LTER-P1208	R/V MELVILLE	EFRONT2 -6	8/21/2012	0310	537	Vertical	100.00	52.7
CCE-LTER-P1208	R/V MELVILLE	EFRONT2 -7	8/21/2012	0424	542	Vertical	100.00	46.2
CCE-LTER-P1208	R/V MELVILLE	EFRONT2 -8	8/21/2012	0613	549	Vertical	99.62	47.1
CCE-LTER-P1208	R/V MELVILLE	EFRONT2 -9	8/21/2012	0701	551	Vertical	100.00	42.6
CCE-LTER-P1208	R/V MELVILLE	EFRONT2 -10	8/21/2012	0949	563	Vertical	100.00	43.2

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																		
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CCE-P1106	MV	1	1	176	2011-8-6	09:48	10:11																																																	
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ANGLES	35	38		35	42	45	50	55	60	55	50	47	45	35																																										
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CCE-1106 ¹²⁰⁸	MV	1	2	191	2011-8-6	2158	2224																																																																							
<i>190 on label changed in Database to event 191 but did not change label</i>																																																																														
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: Caldbbl																																																																								
SINKING (descend)	9	19	NET NO.			TOW NO. 1 OF 1																																																																								
			METER NO.			SEA (Conditions): <u>Calm</u> (Circle one) <i>rough</i>																																																																								
TOWING (at depth)	0	28	FINAL	460077	154638																																																																									
			INITIAL	445526	142573																																																																									
Total (ascend)	16	22	DIFF.			WIND: 20.5 knots																																																																								
			MESH SIZE	202 μ m	202 μ m																																																																									
AMT. OF WIRE OUT: 300 meters			OBSERVERS: CN																																																																											
TOTAL NO. OF ANGLES: 28																																																																														
ANGLES	50	50	55	55	52	51	51	51	50	52	53	46		47	46																																																															
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160																																																															
ANGLES	45	43	42	40	38	35	35	40	40	38	37	35	30	30																																																																
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REMARKS: 20 m/min down to 50m, then increase to 40 m/min up @ 20 m/min																																																																														

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1208 CCE-PL106	MV	1	TOW 3		2011-08-07	9:32	9:55																																																	
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: Oblique Trawl																																																		
SINKING (descend)	7	07	NET NO.			TOW NO. 1 OF 1																																																		
TOWING (at depth)	30		METER NO.			SEA (Conditions): <u>Calm</u> (Circle one)																																																		
Total (ascend)	15	45	FINAL	487343	179563	Rough																																																		
			INITIAL	460113	154741	WIND: 20.6 knots																																																		
			DIFF.																																																					
			MESH SIZE	202µm	202µm																																																			
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REMARKS: Port Side Flowmeter spinning on deployment																																																								

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CCE-P1106	MV	1	Tow 4	220	2011-08-07	21:54	22:18																																																	
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REMARKS: -starboard codend slipped in opening, some lost (prob <10%)																																																								

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																		
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CCE-PL106 ²⁰⁸	MV	1	5	233	2011-08-09	09:31	09:54																																																	
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REMARKS: Port side sample lost due to rip; split starboard sample for both preservation and size fractioning.																																																								

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1106 ¹²⁰⁸	MV	1	Tow 6	243	2011-08-08	21:34	21:59
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: Oblique beam	
SINKING (descend)	8	25	NET NO.			TOW NO. 1 OF 1	
			METER NO.	B08786	B08695	SEA (Conditions): Calm	
TOWING (at depth)		30	FINAL	603237	296539	(Circle one) <u>rough</u>	
			INITIAL	569752	264377	WIND: 25.1 knots	
Total (ascend)	15	54	DIFF.				
			MESH SIZE	202µm	202µm		
AMT. OF WIRE OUT: 300 meters			OBSERVERS:				
TOTAL NO. OF ANGLES:							
ANGLES	48	50	48	48	48	45	45
WIRE OUT	300	290	280	270	260	250	240
ANGLES	44	42	41	41	41	41	42
WIRE OUT	150	140	130	120	110	100	90
PORT	STB.						
No. OF JARS				NET CLOGGING	none or slight	moderate	heavy
SIZE OF JAR (Circle One)	P	Q	P	Q			very heavy
FORMALIN & BORATE ADDED				NET WASHING	none	<u>rinsed</u>	washed
ALCOHOL ADDED							
COLLECTORS INITS.				RIPS AND HOLES IN NET	none	location	when mended: (Circle one) Before station After station
REMARKS:							

NET TOW DATA SHEET

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CCE-PI106 ¹²⁰⁸	MV	2	1	270	2011-08-10	09:48	10:13																																																										
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CCE-PL 106	MV	2	2	285	2011 08 10	23:17	23:42																																																	
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1208 CCE-P1106	MV	5	1	342	2011-08-13	09:23	9:46																																																
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CCE-PI 106	MV	3	2	356	2011-08-13	22:04	22:29																																																	
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CCE-P1106	MV	4	Tow 1	413	2011-08-16	9:29	9:52																																																																								
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CCE-P1106 ¹²⁰⁸	MV	4	Tow 2	424	2011 08 16	21:30	21:53																																																	
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NET TOW DATA SHEET

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CCE-P1106 ¹²⁰⁸	MV	4	4	451	2011-0817	21:32	21:55																																																	
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NET TOW DATA SHEET

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1208 CCE-P1106	MV	5	Tow 1	482	2011-08-19	09:36	10:01																																																															
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						BEGIN TOW	END TOW
CCE-P1106	MV	5	Tow 2	492	2011-8-19	21:27	21:50
493 changed in Database but not on table							
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: Oblique Trawl	
SINKING (descend)	7	23	"	NET NO.		TOW NO. 1 OF 1	
				METER NO.		SEA (Conditions): Calm	
TOWING (at depth)		30	"	FINAL	238269	915354	(Circle one) <u>rough</u> te
				INITIAL	193087	874680	Rough
Total (ascend)	15	37	"	DIFF.			WIND: 19 knots
				MESH SIZE	202µm	202µm	
AMT. OF WIRE OUT: 300 meters				OBSERVERS: JP, DS, MDO, BS, JB, PT			
TOTAL NO. OF ANGLES:							
ANGLES	52	50	48	46	46	44	44
WIRE OUT	300	290	280	270	260	250	240
ANGLES	54	50	50	52	52	46	46
WIRE OUT	150	140	130	120	110	100	90
*line went outboard, changed viewing angle							
ANGLES	54	50	50	52	52	46	46
WIRE OUT	150	140	130	120	110	100	90
PORT STB.							
No. OF JARS					none or slight	moderate	heavy
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING	X	
FORMALIN & BORATE ADDED			✓		NET WASHING	none	rinsed
ALCOHOL ADDED							washed
COLLECTORS INITS.			JP		RIPS AND HOLES IN NET	none	X
REMARKS:							