

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-PI106 ¹²⁰⁸	MV	E-front (loss: y)	1		2011-8-4	1831	1841																																																																														
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Wire going out

Wire coming in
to make bongo
to towing stern

NET TOW DATA SHEET

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1208 CCE-PL106	MV	E-Point Crossing 1	2		2012-8-4	2014	2023																																																																
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: Vertical Bongo																																																																	
SINKING (descend)	4	08	NET NO.			TOW NO. 1 OF 1																																																																	
			METER NO.	808786	808645	SEA (Conditions): <u>calm</u>																																																																	
TOWING (at depth)		39	FINAL	372682	074600	(Circle one) <u>calm</u> Rough																																																																	
			INITIAL	366814	070134	WIND: 9.7 knots																																																																	
Total (ascend)	3	45	DIFF.																																																																				
			MESH SIZE	202mm	202mm																																																																		
AMT. OF WIRE OUT: 100.2 meters			OBSERVERS:																																																																				
TOTAL NO. OF ANGLES:																																																																							
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REMARKS: down @ 30 m/min, up @ 40 m/min																																																																							

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						BEGIN TOW	END TOW
1208 CCE-P1106	MV	F-Front (Crossing)	3		2011-8-4	2232	2240
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: Vertical Bongo	
SINKING (descend)	3	58	"	NET NO.		TOW NO. 1 OF 1	
				METER NO.	B08786	B08695	SEA (Conditions): <u>Calm</u>
TOWING (at depth)	29	"		FINAL	377473	078662	(Circle one) <u>Calm</u>
				INITIAL	372683	074595	ROUGH
Total (ascend)	2	40	"	DIFF.			WIND: 13.0 knots
				MESH SIZE	2027m	2027m	
AMT. OF WIRE OUT: 100 meters				OBSERVERS: PT			
TOTAL NO. OF ANGLES:							
ANGLES							
WIRE OUT	300	290	280	270	260	250	240
							10
ANGLES							
WIRE OUT	150	140	130	120	110	100	90
							5
PORT STB.							
No. OF JARS							
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING	none or slight	moderate
FORMALIN & BORATE ADDED					NET WASHING	none	rinsed
ALCOHOL ADDED							
COLLECTORS INITS.					RIPS AND HOLES IN NET	none	location
REMARKS: down @ 30 m/min, up @ 40 m/min							

giving
out

coming
in

NET TOW DATA SHEET

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1208 CCE-P1106	MV	8-front (crossing)	4		2011-8-4	2355	0003																																																																																																			
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NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
1208 CCE-P4106	MV	E-Front (crossing)	7	123	2011-8-5	0321	0327
Final & Initial did not match							
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: Vertical Bongo	
SINKING (descend)	3	26	"	NET NO. 39546		TOW NO. 1 OF 1	
				METER NO. 808786	808645	SEA (Conditions): <u>Calm</u>	
TOWING (at depth)	0	30	"	FINAL 393461	094658	(Circle one) <u>Calm</u>	
				INITIAL 391225	090952	Rough	
Total (ascend)	2	35	"	DIFF.		WIND: knots	
				MESH SIZE 200m	200m		
AMT. OF WIRE OUT: 100 meters				OBSERVERS: CN			
TOTAL NO. OF ANGLES: 10							
ANGLES							
WIRE OUT	300	290	280	270	260	250	240
							230
							220
							210
							200
							190
							180
							170
							160
ANGLES							5
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
FORMALIN & BORATE ADDED					NET WASHING	none	rinsed
ALCOHOL ADDED							
COLLECTORS INITS.					RIPS AND HOLES IN NET	none	location
				when mended: Before station (Circle one) After station			
REMARKS: down @ 30 m/min, up at 40 m/min							

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																					
						BEGIN TOW	END TOW																																				
CCE-P1106	MV	6-Front (crossing)	8	127	2011-8-5	0434	0441																																				
<table border="1"> <thead> <tr> <th>TIME</th> <th>Min.</th> <th>Sec.</th> <th>PORT</th> <th>STB.</th> <th>TOW TYPE: Vertical Bongo</th> </tr> </thead> <tbody> <tr> <td>SINKING (descend)</td> <td>3</td> <td>26</td> <td>NET NO.</td> <td></td> <td>TOW NO. 1 OF 1</td> </tr> <tr> <td rowspan="2">TOWING (at depth)</td> <td rowspan="2">0</td> <td rowspan="2">36</td> <td>METER NO.</td> <td>808786</td> <td>808695</td> </tr> <tr> <td>FINAL</td> <td>399520</td> <td>098545</td> </tr> <tr> <td rowspan="2">Total (ascend)</td> <td rowspan="2">2</td> <td rowspan="2">40</td> <td>INITIAL</td> <td>395462</td> <td>094654</td> </tr> <tr> <td>DIFF.</td> <td></td> <td></td> </tr> <tr> <td colspan="3"></td> <td>MESH SIZE</td> <td>202-m</td> <td>202-m</td> </tr> </tbody> </table>								TIME	Min.	Sec.	PORT	STB.	TOW TYPE: Vertical Bongo	SINKING (descend)	3	26	NET NO.		TOW NO. 1 OF 1	TOWING (at depth)	0	36	METER NO.	808786	808695	FINAL	399520	098545	Total (ascend)	2	40	INITIAL	395462	094654	DIFF.						MESH SIZE	202-m	202-m
TIME	Min.	Sec.	PORT	STB.	TOW TYPE: Vertical Bongo																																						
SINKING (descend)	3	26	NET NO.		TOW NO. 1 OF 1																																						
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			FINAL	399520	098545																																						
Total (ascend)	2	40	INITIAL	395462	094654																																						
			DIFF.																																								
			MESH SIZE	202-m	202-m																																						
AMT. OF WIRE OUT: 100 meters			OBSERVERS: CN																																								
TOTAL NO. OF ANGLES: 10																																											
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ANGLES	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	COLLECTORS INITS.																																				
No. OF JARS	SIZE OF JAR (Circle One)	FORMALIN & BORATE ADDED	ALCOHOL ADDED																																								
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				none	location	when mended: (Circle one)	Before station After station																																				
REMARKS: down @ 30 m/min, up @ 40 m/min																																											

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	Front Crossing 1	X 10	132	2012-8-5	0554	0600
(skipped 9 for zooplankton sampling)							
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: Vertical Bongo	
SINKING (descend)	3	28	"	NET NO.		TOW NO. 1 OF 1	
				METER NO.	808786	808695	SEA (Conditions): <u>Calm</u>
TOWING (at depth)	0	31	"	FINAL	403131	102029	(Circle one) <u>Calm</u>
				INITIAL	399525	098548	Rough
Total (ascend)	2	42	"	DIFF.			WIND: knots
				MESH SIZE	202µm	202µm	
AMT. OF WIRE OUT: 160 meters				OBSERVERS: CN			
TOTAL NO. OF ANGLES: 10							
ANGLES							
WIRE OUT	300	290	280	270	260	250	240
							230
							220
							210
							200
							190
							180
							170
							160
							150
ANGLES							
WIRE OUT	150	140	130	120	110	100	90
							80
							70
							60
							50
							40
							30
							20
							10
PORT STB.							
No. OF JARS			1				
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING	none or slight	moderate
FORMALIN & BORATE ADDED					NET WASHING	none	rinsed
ALCOHOL ADDED							washed
COLLECTORS INITS.					RIPS AND HOLES IN NET	none	location
				when mended: Before station (Circle one) After station			
REMARKS: down @ 30 m/min, up @ 40 m/min beginning of down during tow							

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P4106	MV	8-Front (crossing)	110		2011-8-5	0748	0755
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: Vertical Bongo	
SINKING (descend)	3	32	"	NET NO.		TOW NO. 1 OF 1	
				METER NO.	808786	808695	
TOWING (at depth)		41	"	FINAL	407188	105626	
				INITIAL	403132	102029	
Total (ascend)	3	07	"	DIFF.		WIND: 13 knots	
				MESH SIZE	202m	202m	
AMT. OF WIRE OUT: 100 meters				OBSERVERS: PT			
TOTAL NO. OF ANGLES:							
ANGLES							
WIRE OUT	300	290	280	270	260	250	240
ANGLES							
WIRE OUT	150	140	130	120	110	100	90
PORT STB.							
No. OF JARS							
SIZE OF JAR (Circle One)	P	Q	P	Q	NET CLOGGING	none or slight	moderate
FORMALIN & BORATE ADDED					NET WASHING	none	rinsed
ALCOHOL ADDED							
COLLECTORS INITS.					RIPS AND HOLES IN NET	none	location
REMARKS:							
20 m/min first 30 m, then up to 40 m/min							
(winch operator still waking up)							

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
1208 CCE-RL106	MV	C-From (Crossing)	12		2012-8-5	1014	1021								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: vertical beam									
SINKING (descend)	3	43	NET NO.			TOW NO. 1 OF 1									
			METER NO.	808786	808645	SEA (Conditions): <u>Calm</u>									
TOWING (at depth)		30	FINAL	411562	109649	(Circle one) <u>Calm</u>									
			INITIAL	4107189	105628	Rough									
Total (ascend)	2	41	DIFF.			WIND: 9.6 knots									
			MESH SIZE	202um	202um										
AMT. OF WIRE OUT: 100 meters			OBSERVERS: PT												
TOTAL NO. OF ANGLES:															
ANGLES						-2	-1	0	-2	-5					
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES						2	3	5	10	15					
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	<u>P</u> Q												
FORMALIN & BORATE ADDED			✓	NET WASHING	none		<u>rinsed</u>		washed						
ALCOHOL ADDED															
COLLECTORS INITS.			PT	RIPS AND HOLES IN NET	<u>none</u>		location		when mended: (Circle one)		Before station After station				
REMARKS: done @ 30 m/min 10 @ 40 m/min															

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-1106 1208	MV	Front crossing	13		2011-8-5	1216	1223
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: vertical buoy	
SINKING (descend)	3	38	NET NO.			TOW NO. 1 OF 1	
			METER NO.	308786	308645	SEA (Conditions): <u>Calm</u>	
TOWING (at depth)		31	FINAL	416100	113282	(Circle one) <u>Calm</u>	
			INITIAL	411638	109652	Rough	
Total (ascend)	2	43	DIFF.			WIND: 11.7 knots	
			MESH SIZE	202 um	202 um		
AMT. OF WIRE OUT: 100.2 meters			OBSERVERS: JT				
TOTAL NO. OF ANGLES:							
ANGLES						-4	-2
WIRE OUT	300	290	280	270	260	250	240
ANGLES						0	0
WIRE OUT	150	140	130	120	110	100	90
							0
							2
							1
							10
PORT		STB.					
No. OF JARS				NET CLOGGING	none or slight	moderate	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)
ALCOHOL ADDED							Before station After station
COLLECTORS INITS.			JT				
REMARKS:							

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																																																																																																																																																																																																								
						BEGIN TOW	END TOW																																																																																																																																																																																																																																							
CCE-PI 106	MV	E-Gross 2	Station 1	508	2011-08-20	17:49	17:58																																																																																																																																																																																																																																							
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OF WIRE OUT: 100</td> <td>meters</td> <td colspan="4">OBSERVERS:</td> </tr> <tr> <td colspan="4">TOTAL NO. 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positive
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reaching
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NET TOW DATA SHEET

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CCE-P1106	MV	ECross 2	Station 4	525	2011-08-20	23:01	23:09																																																																		
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CCE-P1106	MV	Egmont crossing 2	station 5		2011-8-21	0025	0034																																																								
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NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1106	MV	R-From C/OSS, NY 2	Station 7	541	2011-8-21	0324	0333
542 changed in database labels were not changed							
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: Vertical Bongo	
SINKING (descend)	3	55	"	NET NO.		TOW NO. 1 OF 1	
				METER NO.		SEA (Conditions): <u>Calm</u>	
TOWING (at depth)		30	"	FINAL	267237	934394	Circle one: <u>te</u>
				INITIAL	262916	931244	Rough
Total (ascend)	3	19	"	DIFF.			WIND: 18 knots
				MESH SIZE	202-7m	202-7m	
AMT. OF WIRE OUT: 100			meters	OBSERVERS: CN			
TOTAL NO. OF ANGLES: 8							
ANGLES						0	5
WIRE OUT	300	290	280	270	260	250	240
							90
ANGLES							10
WIRE OUT	150	140	130	120	110	100	90
							80
							70
							60
							50
							40
							30
							20
							10
PORT STB.							
No. OF JARS			1		none or slight	moderate	heavy
SIZE OF JAR (Circle One)	P	Q	<u>P</u>	Q	NET CLOGGING	✓	
FORMALIN & BORATE ADDED			✓		NET WASHING	none	rinsed
ALCOHOL ADDED						✓	washed
COLLECTORS INITS.			CN		RIPS AND HOLES IN NET	none	location
					when mended: (Circle one)	Before station	After station
REMARKS:							

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																																																						
						BEGIN TOW	END TOW																																																																																					
CCE-P1106	MV	front crossing	Station 8	549	2011-8-21	0513	0521																																																																																					
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CCE-P1106	MV	ECross 2	Station 9	551	2011 08 21	0601	0609																																																	
vertical																																																								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: BONGO																																																		
SINKING (descend)	3	44	"	NET NO.		TOW NO. 1 OF 1																																																		
				METER NO.		SEA (Conditions): <u>Calm</u>																																																		
TOWING (at depth)		30	"	FINAL	273140	440119	(Circle one) <u>te</u>																																																	
				INITIAL	271387	937456	Rough																																																	
Total (ascend)	3	29	"	DIFF.			WIND: 22 knots																																																	
				MESH SIZE	202-7m	202-7m																																																		
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down
up

NET TOW DATA SHEET

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CCE-P1208 106	MV	EC082	Station 10	563	2011-08-21	08:49	08:58																																																																																																																																																																																																																																																	
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