

Tows
Hauls

BONGO TOWS								
EXPEDITION	SHIP	STANO	Sample Date	Start Time	Event No.	Tow Type	Max Depth	Vol H2O filtered
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 1	04/04/07	1119	44	Oblique	172.64	474.02
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 2	04/04/07	2219	68	Oblique	191.09	446.17
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 3	04/05/07	1048	84	Oblique	192.30	436.38
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 4	04/05/07	1336	92	Oblique	190.42	427.42
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 5	04/05/07	1608	94	Oblique	155.52	349.02
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 6	04/05/07	1802	96	Oblique	195.10	492.00
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 7	04/05/07	2005	101	Oblique	211.89	492.03
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 8	04/05/07	2225	105	Oblique	201.26	479.94
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 9	04/06/07	0116	109	Oblique	188.52	492.00
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 10	04/06/07	0514	118	Oblique	221.42	409.04
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 11	04/06/07	0635	120	Oblique	221.09	418.62
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 12	04/06/07	1004	123	Oblique	180.13	521.46
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 13	04/06/07	2302	145	Oblique	199.96	466.26
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 14	04/07/07	1014	162	Oblique	175.91	449.00
CCE-LTER-P0704	R/V THOMPSON	Cycle 1 - 15	04/07/07	2135	180	Oblique	193.90	490.24
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 16	04/09/07	1119	204	Oblique	164.27	561.18
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 17	04/09/07	2246	224	Oblique	212.01	556.14
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 18	04/10/07	1104	236	Oblique	208.05	589.44
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 19	04/10/07	1343	242	Oblique	193.93	551.37
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 20	04/10/07	1600	247	Oblique	211.96	555.39
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 21	04/10/07	1802	251	Oblique	162.59	492.00
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 22	04/10/07	2013	256	Oblique	178.45	492.00
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 23	04/10/07	2158	258	Oblique	165.38	520.85
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 24	04/11/07	0100	260	Oblique	183.91	570.41
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 25	04/11/07	0450	267	Oblique	148.76	584.62
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 26	04/11/07	0640	269	Oblique	169.73	530.24
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 27	04/11/07	1005	272	Oblique	193.02	573.04
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 28	04/11/07	2224	295	Oblique	200.92	535.14
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 29	04/12/07	1042	316	Oblique	217.94	492.00
CCE-LTER-P0704	R/V THOMPSON	Cycle 2 - 30	04/12/07	2318	342	Oblique	203.73	553.01
CCE-LTER-P0704	R/V THOMPSON	Cycle 3 - 31	04/14/07	2211	367	Oblique	176.76	543.05
CCE-LTER-P0704	R/V THOMPSON	Cycle 3 - 32	04/15/07	1057	378	Oblique	243.52	525.46
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 33	04/16/07	1151	401	Oblique	204.22	417.42
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 34	04/16/07	1426	409	Oblique	203.22	454.72
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 35	04/16/07	1712	413	Oblique	177.74	565.18
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 36	04/16/07	1830	415	Oblique	176.48	452.43
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 37	04/16/07	1954	420	Oblique	146.05	484.80
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 38	04/16/07	2204	422	Oblique	163.54	448.24
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 39	04/17/07	0104	424	Oblique	195.89	393.93
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 40	04/17/07	0443	431	Oblique	154.36	462.46
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 41	04/17/07	0634	433	Oblique	181.94	426.92
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 42	04/17/07	1005	439	Oblique	171.21	473.89
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 43	04/17/07	2206	458	Oblique	178.03	492.00
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 44	04/18/07	1032	472	Oblique	193.11	490.82
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 45	04/18/07	2203	492	Oblique	201.45	565.53
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 46	04/19/07	1100	506	Oblique	201.45	502.65
CCE-LTER-P0704	R/V THOMPSON	Cycle 4 - 47	04/20/07	0014	532	Oblique	181.80	420.48

1.7

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P0704	TGT	1	1	44	2007 April	11h19 1119	11h40 1140								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	6	14	NET NO.			TOW NO.	1 OF 1								
			METER NO.		09446	SEA (Conditions):	Calm								
TOWING (at depth)	0	30	FINAL	60453-	13210-	(Circle one)	Moderate								
			INITIAL	55090-	08783-		Rough								
Total (ascend)	20	34	DIFF.	4763-	4487-	WIND:	knots 10-15								
	13:50		MESH SIZE	202um	202um										
AMT. OF WIRE OUT:			meters	OBSERVERS:											
TOTAL NO. OF ANGLES:															
ANGLES	60	60	60	60	60	60	60	60	58	56	56	56	56	57	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	57	56	56	55	54	50	46	45	45	45	46	49	50	55	58
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:	Before station							
COLLECTORS INITS.							(Circle one)	After station							
REMARKS:	NB: - Angle too important on the way back → stop ship when towing and slow down, both - wiring in speed a little bit too fast → slow @ 18 m/s !!														

4/04/07 Cycle #1 - Day 1 NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																									
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CCE-P0704	TGT	1	2	68	2007 April 4	2219	2242																																																								
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5/04/07 cycle #1 day #2

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REMARKS: Wh Went down (descnt) was @ 35 m/min																																																																							

NET TOW DATA SHEET

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CCE-P0704	TGT	1	5	94	2007 April 05	16:08	16:31																																																										
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REMARKS: *descent @15-20 m/min. New winch operator afraid to unspool cable. Depth to 215m wire out																																																																	

NET TOW DATA SHEET

BONGO must have been turned upside-down for next 28 tows

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)											
						BEGIN TOW	END TOW										
CCE-P0704	TGT	1	6	96 94	2007 April 05	18:02	18:30										
TIME		Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL											
SINKING (descend)		8	27	NET NO.		TOW NO. 1 OF 1											
				METER NO.	09446	SEA (Conditions): Calm											
TOWING (at depth)			30	FINAL	33244-81529-	(Circle one) Moderate											
				INITIAL	28910-76661-	Rough											
Total (ascend)		15	11	DIFF.	4334 4868	WIND: knots											
				MESH SIZE													
AMT. OF WIRE OUT: 300 meters				OBSERVERS:													
TOTAL NO. OF ANGLES: 30																	
ANGLES	45	44	46	47	46	46	46	46	47	48	49	49	49	50	50		
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160		
ANGLES	50	50	52	52	52	51	50	52	52	52	52	52	52	53	53		
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		After station						
ALCOHOL ADDED																	
COLLECTORS INITS.																	
REMARKS: flow meter spiny in wind @ beginning 20 mpm going down, 70 m out 40 mpm																	

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																		
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CCE-P0704	TGT	1	7	101	2007 April 05	2005	2028																																																	
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NET TOW DATA SHEET

* Questionable

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CCE-P0704	TGT	1	8	104 105	2007 April 05	22:25	22:47																																																																
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REMARKS: 32 mpm out 48 @ 210																																																																							

NET TOW DATA SHEET

*Questionable

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P0704	TGT	1	9	10g	2007 April 06	01:16	01:45								
						0138 59									
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	4	39	NET NO.			TOW NO. 1 OF 1									
			METER NO.	09446	25601	SEA (Conditions): Calm									
TOWING (at depth)		30	FINAL	45743-96880	(Circle one) <u>Moderate</u>										
			INITIAL	41835-90980-	Rough										
Total (ascend)	13	47	DIFF.	3908	5900 *	WIND: knots									
			MESH SIZE												
AMT. OF WIRE OUT:			300 meters	OBSERVERS:											
TOTAL NO. OF ANGLES:			30												
ANGLES	46	47	47	46	46	47	47	48	48	49	50	50	50	51	51
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	52	52	53	55	57	58	60	60	60	59	56	52	49	48	38
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 X	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: going out @ 35 mpm															

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)										
						BEGIN TOW	END TOW									
CCE-P0704	TGT	1	10	118	2007 April 06	0514	0537									
<p style="text-align: right; color: red;">? Event Log is different</p>																
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL										
SINKING (descend)	7	28	NET NO.			TOW NO.	1 OF 12									
			METER NO.	09446		SEA (Conditions):	Calm									
TOWING (at depth)		30	FINAL	50380-	00667-	(Circle one)	Moderate									
			INITIAL	46629-	96880-		Rough									
Total (ascend)	14	27	DIFF.	3751	3787	WIND:	knots									
			MESH SIZE													
AMT. OF WIRE OUT: 300 meters				OBSERVERS:												
TOTAL NO. OF ANGLES: 30																
ANGLES	40	40	40	40	41	41	41	41	42	42	42	41	41	43	44	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160	
ANGLES	44	43	43	43	42	42	44	45	45	46	47	47	42	40	41	
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: Initial deployment recovered due to winch readout problems. descent @ 30-40 m/min.																

this 0514 is more accurate

NET TOW DATA SHEET

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CCE-P0704	TGT	1	11	120	2007 April 06	0635	0657																																																		
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NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																									
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CCE-P0704	TGT	1	13	145	2007 April 06	2302	2323																																																								
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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-P0704	TGT	1	1A	162	2007 April 7	1014	1035									
TIME		Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL										
SINKING (descend)	6	54	"	NET NO.		TOW NO. 1 OF 1										
				METER NO.	09446	SEA (Conditions): Calm										
TOWING (at depth)	0	30	"	FINAL	66808-18701-	(Circle one) Moderate										
				INITIAL	62955-14522-	Rough										
Total (ascend)	13	58	"	DIFF.	3853 4179	WIND: knots										
				MESH SIZE												
AMT. OF WIRE OUT: 300 meters				OBSERVERS:												
TOTAL NO. OF ANGLES: 30																
ANGLES	58	57	57	57	57	57	57	57	57	57	58	59	59	60		
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160	
ANGLES	60	60	58	57	52	46	43	40	42	47	47	54	56	52	45	
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		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-P0704	TGT	1	15	180	2007 April 7	21:35	21:57

TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	7	40	"	NET NO.		TOW NO. 1 OF 1
				METER NO.	09446	SEA (Conditions): (Circle one) Calm Moderate Rough
TOWING (at depth)	0	40	"	FINAL	71036 23283	
				INITIAL	66811- 18705-	WIND: knots
Total (ascend)	13	57	"	DIFF.	4225 4578	
				MESH SIZE		

AMT. OF WIRE OUT:	300 meters	OBSERVERS:
TOTAL NO. OF ANGLES:	30	

ANGLES	43	44	45	45	47	50	52	54	56	57	59	59	59	59	55
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	52	47	43	38	34	31	33	37	45	55	60	61	62	60	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:

Cycle 2
 Day 1
 Trawl 16 (1st At this cycle)

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P0704	TGT	2	16	204	2007 April 09	11:19	1143

TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	9	25	NET NO.		TOW NO. 1 OF 1
TOWING (at depth)	33		METER NO.	09446	SEA (Conditions): (Circle one) Calm Moderate Rough
			FINAL	80207 32649	
Total (ascend)	14	00	INITIAL	75001-27386-	WIND: knots
			DIFF.	5206 5263	
			MESH SIZE	.202 .202	

AMT. OF WIRE OUT:	360 meters	OBSERVERS:
TOTAL NO. OF ANGLES:	30	

ANGLES	52	55	55	56	58	58	58	58	59	60	60	60	60	60	59
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	59	59	59	59	57	55	50	47	46	51	55	58	58	61	62
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
SIZE OF JAR (Circle One)	P	Q	P Q	NET CLOGGING		very heavy
FORMALIN & BORATE ADDED				NET WASHING	none	rinsed
ALCOHOL ADDED						washed
COLLECTORS INITS.				RIPS AND HOLES IN NET	none	location
						when mended: (Circle one) Before station After station

REMARKS: Mark Dhman used the nets to collect samples between this cast and the previous, so flowmeter values should not be consecutive.
 descending at 35^m/min

Cycle 2 Tow 2

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P0704	TGT	2	17	224	2007 April 09	2246	2312								
TIME		Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL								
SINKING (descend)	10	18	"	NET NO.			TOW NO. 1 OF 1								
TOWING (at depth)		32	"	METER NO.	09446		SEA (Conditions): Calm								
				FINAL	92462-45217-		(Circle one) Moderate								
				INITIAL	87374-40012-		Rough								
Total (ascend)	14	50	"	DIFF.	5088	5205	WIND: knots								
				MESH SIZE											
AMT. OF WIRE OUT: 300 meters				OBSERVERS: RR											
TOTAL NO. OF ANGLES: 30															
ANGLES	45	46	47	46	47	45	42	45	44	45	45	45	46	46	42
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	40	40	40	40	40	42	43	42	45	42	45	50	54	56	56
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: Prior to this cast, net used for a live tow, so flowmeter values will not be consecutive.
 Slow descent ~ 30 m/min

Cycle 2 Tow 3

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P0704	TGT	2	18	236	2007 April 10	11:04	11:30								
						AM	AM								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	10	53	NET NO.			TOW NO. 1 OF 1									
			METER NO.	09446			SEA (Conditions): Calm								
TOWING (at depth)	0	40	FINAL	97528-	50738-	(Circle one) Moderate									
			INITIAL	92460-	45216-	Rough									
Total (ascend)	15	09	DIFF.	5068	5522	WIND: knots									
			MESH SIZE												
AMT. OF WIRE OUT:			300 meters	OBSERVERS:											
TOTAL NO. OF ANGLES:			30	RR											
ANGLES	50	49	45	46	43	47	47	47	50	47	43	46	45	46	48
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	51	47	50	54	54	54	54	54	51	47	44	38	38	29	24
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:															

NET TOW DATA SHEET

Cycle 2 Tow 4

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																																	
						BEGIN TOW	END TOW																																																																
CCE-P0704	TGT	2	19	242	2007 April 10	13:43	1407																																																																
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NET TOW DATA SHEET

Cycle 2 Tow 5

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																																	
						BEGIN TOW	END TOW																																																																
CCE-P0704	TGT	2	20	247	2007 April 10	16:00	16:28																																																																
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ANGLES	46	47	48	50	50	47	49	51	52	53	53	54	53	48	47																																																								
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160																																																								
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Cycle 2 Tow 6

NET TOW DATA SHEET

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CCE-P0704	TGT	2	21	251	2007 April 10	1802	1834																																																																
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REMARKS: <u>Descent SLOW!</u> ~15m/min.																																																																							

Cycle 2 Tow 7

NET TOW DATA SHEET

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CCE-P0704	TGT	2	22	256	2007 April 10	2213 2013	2239 2011																																																											
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	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 After station																																																									
ALCOHOL ADDED																																																																		
COLLECTORS INITS.																																																																		
REMARKS: SLOW descent during first 150m.																																																																		

NET TOW DATA SHEET

Cycle 2 Tow 8

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P0704	TGT	2	23	258	2007 April 10	2158	2221								
TIME Min. Sec. PORT STB. TOW TYPE: CALBOBL															
SINKING (descend)	7	14	NET NO.			TOW NO. 1 OF 1									
TOWING (at depth)		30	METER NO.	09446		SEA (Conditions): Calm									
Total (ascend)	14	08	FINAL	22865-78977		(Circle one) Moderate									
			INITIAL	18372-74105-		Rough									
			DIFF.	4493	4872	WIND: knots									
			MESH SIZE	.202um	.202um										
AMT. OF WIRE OUT: 300 meters			OBSERVERS:												
TOTAL NO. OF ANGLES: 30															
ANGLES	50	50	50	48	49	51	49	52	52	51	51	53	55	54	53
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	53	55	55	56	55	55	57	58	60	60	65	65	65	63	59
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: Before station After station							
REMARKS:															

Cycle 2, Tow 9

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																							
						BEGIN TOW	END TOW																																																						
CCE-P0704	TGT	2	24	260	2007 April 11	0100	0123																																																						
<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">8</td> <td rowspan="2">15</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>09446</td> <td></td> <td></td> <td colspan="2">SEA (Conditions): Calm</td> </tr> <tr> <td rowspan="2">TOWING (at depth)</td> <td rowspan="2"></td> <td rowspan="2">30</td> <td>FINAL</td> <td>27732</td> <td>84327</td> <td colspan="2">(Circle one) Moderate</td> </tr> <tr> <td>INITIAL</td> <td>22865</td> <td>78977</td> <td colspan="2">Rough</td> </tr> <tr> <td rowspan="2">Total (ascend)</td> <td rowspan="2">14</td> <td rowspan="2">15</td> <td>DIFF.</td> <td>4867</td> <td>5350</td> <td colspan="2">WIND: knots</td> </tr> <tr> <td>MESH SIZE</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>								TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL		SINKING (descend)	8	15	NET NO.			TOW NO. 1 OF 1		METER NO.	09446			SEA (Conditions): Calm		TOWING (at depth)		30	FINAL	27732	84327	(Circle one) Moderate		INITIAL	22865	78977	Rough		Total (ascend)	14	15	DIFF.	4867	5350	WIND: knots		MESH SIZE										
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL																																																							
SINKING (descend)	8	15	NET NO.			TOW NO. 1 OF 1																																																							
			METER NO.	09446			SEA (Conditions): Calm																																																						
TOWING (at depth)		30	FINAL	27732	84327	(Circle one) Moderate																																																							
			INITIAL	22865	78977	Rough																																																							
Total (ascend)	14	15	DIFF.	4867	5350	WIND: knots																																																							
			MESH SIZE																																																										
AMT. OF WIRE OUT:			300 meters	OBSERVERS:																																																									
TOTAL NO. OF ANGLES:			30																																																										
ANGLES	52	55	55	53	55	53	52	52	52	52	53	52	53	52	53																																														
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160																																														
ANGLES	52	52	52	53	52	52	53	52	52	52	52	51	51	53																																															
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10																																														
<table border="1"> <thead> <tr> <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>P</th> <th>Q</th> <th>P</th> <th>Q</th> </tr> </thead> <tbody> <tr> <td>No. OF JARS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>SIZE OF JAR (Circle One)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>FORMALIN & BORATE ADDED</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 rowspan="2">RIPS AND HOLES IN NET</td> <td rowspan="2">none</td> <td rowspan="2">location</td> <td rowspan="2">when mended: (Circle one)</td> <td>Before station</td> </tr> <tr> <td>COLLECTORS INITS.</td> <td></td> <td></td> <td></td> <td>After station</td> </tr> </tbody> </table>								PORT		STB.		NET CLOGGING	none or slight	moderate	heavy	very heavy	P	Q	P	Q	No. OF JARS									SIZE OF JAR (Circle One)									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
PORT		STB.		NET CLOGGING	none or slight	moderate	heavy	very heavy																																																					
P	Q	P	Q																																																										
No. OF JARS																																																													
SIZE OF JAR (Circle One)																																																													
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:																																																													

Cycle 2 Tow 10

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P0704	TGT	2	25	267	2007 April 11	0450	0520								
<i>mean</i> → 267 to OK						<i>0512</i>									
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	8	05	NET NO.			TOW NO. 1 OF 1									
			METER NO.	09446			SEA (Conditions): Calm								
TOWING (at depth)		30	FINAL	32428	89819	(Circle one) Moderate									
			INITIAL	27733-	84328	<u>Rough</u>									
Total (ascend)	13	56	DIFF.	4695	5491	WIND: knots									
			MESH SIZE												
AMT. OF WIRE OUT: <i>300</i> meters				OBSERVERS:											
TOTAL NO. OF ANGLES: <i>30</i>															
ANGLES	60	60	59	59	60	61	61	62	63	62	63	63	62	62	61
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	67	62	61	67	67	67	60	60	59	59	55	52	50	46	46
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: <i>Started going @ 50 upm @ 80 m out</i>															

Cycle 2 Tow II

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																										
						BEGIN TOW	END TOW																																									
CCE-P0704	TGT	2	26	209	2007 April 11	0640	0701																																									
<table border="1"> <thead> <tr> <th>TIME</th> <th>Min.</th> <th>Sec.</th> <th>NET NO.</th> <th>PORT</th> <th>STB.</th> <th colspan="2">TOW TYPE: CALBOBL</th> </tr> </thead> <tbody> <tr> <td>SINKING (descend)</td> <td>6</td> <td>32</td> <td>METER NO.</td> <td>09446</td> <td></td> <td colspan="2">TOW NO. 1 OF 1</td> </tr> <tr> <td rowspan="2">TOWING (at depth)</td> <td rowspan="2">30</td> <td rowspan="2">"</td> <td>FINAL</td> <td>36752</td> <td>94797</td> <td colspan="2" rowspan="2">SEA (Conditions): (Circle one) Calm Moderate Rough</td> </tr> <tr> <td>INITIAL</td> <td>32438</td> <td>89840-</td> </tr> <tr> <td rowspan="2">Total (ascend)</td> <td rowspan="2">14</td> <td rowspan="2">39</td> <td rowspan="2">"</td> <td>DIFF.</td> <td>4314</td> <td>4957</td> <td colspan="2">WIND: knots</td> </tr> <tr> <td>MESH SIZE</td> <td>.202m</td> <td>.202m</td> <td></td> <td></td> </tr> </tbody> </table>								TIME	Min.	Sec.	NET NO.	PORT	STB.	TOW TYPE: CALBOBL		SINKING (descend)	6	32	METER NO.	09446		TOW NO. 1 OF 1		TOWING (at depth)	30	"	FINAL	36752	94797	SEA (Conditions): (Circle one) Calm Moderate Rough		INITIAL	32438	89840-	Total (ascend)	14	39	"	DIFF.	4314	4957	WIND: knots		MESH SIZE	.202m	.202m		
TIME	Min.	Sec.	NET NO.	PORT	STB.	TOW TYPE: CALBOBL																																										
SINKING (descend)	6	32	METER NO.	09446		TOW NO. 1 OF 1																																										
TOWING (at depth)	30	"	FINAL	36752	94797	SEA (Conditions): (Circle one) Calm Moderate Rough																																										
			INITIAL	32438	89840-																																											
Total (ascend)	14	39	"	DIFF.	4314	4957	WIND: knots																																									
				MESH SIZE	.202m	.202m																																										
AMT. OF WIRE OUT:			300 meters	OBSERVERS:																																												
TOTAL NO. OF ANGLES:			30																																													
ANGLES	52	52	52	51	52	52	51	52	54	55	56	59	59	59	60																																	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160																																	
ANGLES	60	61	61	60	59	59	58	58	56	55	50	50	47	44	42																																	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10																																	
<table border="1"> <thead> <tr> <th colspan="2">PORT</th> <th colspan="2">STB.</th> <th rowspan="2">NET CLOGGING</th> <th rowspan="2">NET WASHING</th> <th rowspan="2">RIPS AND HOLES IN NET</th> <th rowspan="2">when mended: (Circle one)</th> </tr> <tr> <th>No. OF JARS</th> <th>SIZE OF JAR (Circle One)</th> <th>FORMALIN & BORATE ADDED</th> <th>ALCOHOL ADDED</th> <th>none or slight</th> <th>moderate</th> <th>heavy</th> <th>very heavy</th> </tr> </thead> <tbody> <tr> <td></td> <td>P Q</td> <td>P Q</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>none</td> <td>rinsed</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>none</td> <td>location</td> <td></td> <td>Before station After station</td> </tr> </tbody> </table>								PORT		STB.		NET CLOGGING	NET WASHING	RIPS AND HOLES IN NET	when mended: (Circle one)	No. OF JARS	SIZE OF JAR (Circle One)	FORMALIN & BORATE ADDED	ALCOHOL ADDED	none or slight	moderate	heavy	very heavy		P Q	P Q										none	rinsed							none	location		Before station After station	
PORT		STB.		NET CLOGGING	NET WASHING	RIPS AND HOLES IN NET	when mended: (Circle one)																																									
No. OF JARS	SIZE OF JAR (Circle One)	FORMALIN & BORATE ADDED	ALCOHOL ADDED					none or slight	moderate	heavy	very heavy																																					
	P Q	P Q																																														
				none	rinsed																																											
				none	location		Before station After station																																									
REMARKS:																																																

Cycle 2 Tow 12

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																																	
						BEGIN TOW	END TOW																																																																
CCE-P0704	TGT	2	27	272	2007 April 11	10:05	10:28																																																																
<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>SINKING (descend)</td> <td>7</td> <td>01</td> <td>"</td> <td>NET NO.</td> <td></td> <td colspan="2">TOW NO. 1 OF 1</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>METER NO.</td> <td>09446</td> <td colspan="2">SEA (Conditions): Calm</td> </tr> <tr> <td>TOWING (at depth)</td> <td>0</td> <td>30</td> <td>"</td> <td>FINAL</td> <td>41087-00168-</td> <td colspan="2">(Circle one) <u>Moderate</u></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>INITIAL</td> <td>36752-04798-</td> <td colspan="2">Rough</td> </tr> <tr> <td>Total (ascend)</td> <td>4</td> <td>44</td> <td>"</td> <td>DIFF.</td> <td>4335 5370</td> <td colspan="2">WIND: knots</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>MESH SIZE</td> <td>.202m .202m</td> <td colspan="2"></td> </tr> </table>								TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL		SINKING (descend)	7	01	"	NET NO.		TOW NO. 1 OF 1						METER NO.	09446	SEA (Conditions): Calm		TOWING (at depth)	0	30	"	FINAL	41087-00168-	(Circle one) <u>Moderate</u>						INITIAL	36752-04798-	Rough		Total (ascend)	4	44	"	DIFF.	4335 5370	WIND: knots						MESH SIZE	.202m .202m										
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL																																																																	
SINKING (descend)	7	01	"	NET NO.		TOW NO. 1 OF 1																																																																	
				METER NO.	09446	SEA (Conditions): Calm																																																																	
TOWING (at depth)	0	30	"	FINAL	41087-00168-	(Circle one) <u>Moderate</u>																																																																	
				INITIAL	36752-04798-	Rough																																																																	
Total (ascend)	4	44	"	DIFF.	4335 5370	WIND: knots																																																																	
				MESH SIZE	.202m .202m																																																																		
AMT. OF WIRE OUT: 300,3(m) meters				OBSERVERS:																																																																			
TOTAL NO. OF ANGLES: 30																																																																							
<table border="1"> <tr> <td>ANGLES</td> <td>58</td><td>58</td><td>58</td><td>57</td><td>56</td><td>56</td><td>55</td><td>55</td><td>55</td><td>55</td><td>55</td><td>54</td><td>52</td><td>52</td><td>52</td> </tr> <tr> <td>WIRE OUT</td> <td>300</td><td>290</td><td>280</td><td>270</td><td>260</td><td>250</td><td>240</td><td>230</td><td>220</td><td>210</td><td>200</td><td>190</td><td>190</td><td>170</td><td>160</td> </tr> <tr> <td>ANGLES</td> <td>52</td><td>50</td><td>50</td><td>49</td><td>48</td><td>47</td><td>49</td><td>48</td><td>45</td><td>45</td><td>45</td><td>46</td><td>49</td><td>51</td><td>50</td> </tr> <tr> <td>WIRE OUT</td> <td>150</td><td>140</td><td>130</td><td>120</td><td>110</td><td>100</td><td>90</td><td>80</td><td>70</td><td>60</td><td>50</td><td>40</td><td>30</td><td>20</td><td>10</td> </tr> </table>								ANGLES	58	58	58	57	56	56	55	55	55	55	55	54	52	52	52	WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160	ANGLES	52	50	50	49	48	47	49	48	45	45	45	46	49	51	50	WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
ANGLES	58	58	58	57	56	56	55	55	55	55	55	54	52	52	52																																																								
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160																																																								
ANGLES	52	50	50	49	48	47	49	48	45	45	45	46	49	51	50																																																								
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10																																																								
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		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:																																																																							

Cycle 2 Tow 13

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P0704	TGT	2	28	295	2007 April 11	2224	2249								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	9	07	NET NO.			TOW NO. 1 OF 1									
TOWING (at depth)		30	METER NO.	09446		SEA (Conditions): Calm									
			FINAL	51699	12944-	(Circle one) Moderate									
			INITIAL	47263-	07950-	Rough									
Total (ascend)	15	39	DIFF.	4436	4994	WIND: knots									
			MESH SIZE	202 μ m	202 μ m										
AMT. OF WIRE OUT: 300 meters				OBSERVERS:											
TOTAL NO. OF ANGLES: 30				RR. Surra											
ANGLES	40	39	43	48	51	52	58	58	55	56	54	50	45	48	47
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	45	47	49	50	52	54	59	61	60	53	45	40	35	25	26
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: Net used for live tow prior to this cast, so flowmeter values are not consecutive. Descent slow ~ 35 m/min															



Cycle 2 Tow 14

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																																	
						BEGIN TOW	END TOW																																																																
CCE-P0704	TGT	2	29	316	2007 April 12	10:42	11:05																																																																
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Cycle 2 Tow 15

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)										
						BEGIN TOW	END TOW									
CCE-P0704	TGT	2	30	342	2007 April 12	23:18	23:43									
						14:35										
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL										
SINKING (descend)	9	01	"	NET NO.		TOW NO. 1 OF 12										
				METER NO.	09446	SEA (Conditions): Calm										
TOWING (at depth)	0	30	"	FINAL	06467-30241	(Circle one) Moderate										
				INITIAL	02085-25003	Rough										
Total (ascend)	14	35	"	DIFF.	4302	5178	WIND: 30 knots									
				MESH SIZE	.202	.202										
AMT. OF WIRE OUT: 300.2 meters				OBSERVERS: RR, MDO, Baptiste, Sara												
TOTAL NO. OF ANGLES: 30																
ANGLES	48	45	45	45	45	47	50	49	45	47	49	45	40	40	40	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160	
ANGLES	40	43	43	43	47	47	50	50	51	53	49	52	55	55	55	
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.																
REMARKS: Net used for live tow prior to cast; flowmeter values not continuous Cast was a 2nd try — during 1st cast, line out readings on winch display went haywire.																

NET TOW DATA SHEET

Cycle 3, Tow 1

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P0704	TGT	3	31	367	2007 April 14	2211	2234								
TIME		Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL								
SINKING (descend)		8	12	"	NET NO.		TOW NO. 1 OF 13								
TOWING (at depth)		0	41	"	METER NO.	09446	SEA (Conditions): Calm (Circle one) Moderate Rough								
Total (ascend)		14	38	"	FINAL	72358-37146-									
					INITIAL	67738-32067-									
					DIFF.	4620 5079	WIND: 35 knots								
					MESH SIZE	202m 202m									
AMT. OF WIRE OUT: 300 meters				OBSERVERS:											
TOTAL NO. OF ANGLES: 30				RR											
ANGLES	47	45	43	44	49	50	50	50	50	52	51	56	60	58	57
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	58	55	53	51	52	53	53	54	56	60	60	62	65	65	58
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: 3rd try on deployment due to line-out reading on winch and position of boat w/reference to wind															

1/2 - 1/4 - 1/8 - 1/8 - 1/2 →
 ↓ ↓ ↓ ↓
 1/2 1/4 1/8 1/8

NET TOW DATA SHEET

Cycle 3 Tow 2

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P0704	TGT	3	32	378	2007 April/5	1057	1120

TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	8	56	NET NO.			TOW NO. 1 OF 1
			METER NO.	09446		SEA (Conditions): Calm
TOWING (at depth)	0	30	FINAL	80262	40306	(Circle one) Moderate
			INITIAL	75276	49220	Rough
Total (ascend)	14	03	DIFF.	4986		WIND: 30 knots
			MESH SIZE	202 μ m	202 μ m	

AMT. OF WIRE OUT: 300 meters	OBSERVERS: RR. Beth
TOTAL NO. OF ANGLES: 30	

ANGLES*	29	30	32	32	40	25	32	38	32	24	33	32	25	25	34
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160

ANGLES	43	40	20	28	20	25	20	30	30	43	47	57	62	47	69
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	After station		
ALCOHOL ADDED													
COLLECTORS INITS.													

REMARKS:

* wire angles inaccurate due to high winds

* Questionable - - -

Cycle 4 Tow 1

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)									
						BEGIN TOW	END TOW								
CCE-P0704	TGT	4	33	401	2007 April 16	1151	12:12								
TIME Min. Sec. PORT STB. TOW TYPE: CALBOBL															
SINKING (descend)	6	52	NET NO.			TOW NO. 1 OF 1									
			METER NO.		09446	SEA (Conditions): Calm									
TOWING (at depth)	0	30	FINAL	50975-	84222-	(Circle one) Moderate									
			INITIAL	46323-	80284-	Rough									
Total (ascend)	13	35	DIFF.	4152	3938	WIND: knots									
			MESH SIZE	.202	.202										
AMT. OF WIRE OUT: 360 meters				OBSERVERS:											
TOTAL NO. OF ANGLES: 30															
ANGLES	46	46	45	45	45	44	44	45	43	44	45	45	45	45	44
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	45	45	45	46	45	45	46	46	47	49	50	51	56	60	66
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:															

Cycle 4 Tow 2

NET TOW DATA SHEET

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CCE-P0704	TGT	4	34	409	2007 April 16	1426	14:52																																																								
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Cycle 4 tow 3

NET TOW DATA SHEET

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CCE-P0704	TGT	4	35	413	2007 April 6	17:12	1737																																																																
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ANGLES	45	47	49	50	51	53	56	57	57	58	57	59	60	61	60																																																								
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NET TOW DATA SHEET

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CCE-P0704	TGT	4	36	415	2007 April 16	1830	1854																																																																			
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tow 5

NET TOW DATA SHEET

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CCE-P0704	TGT	4	37	420	2007 April 16	1954	20:17																																																						
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tow 6

NET TOW DATA SHEET

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CCE-P0704	TGT	4	38	422	2007 April 16	22:04	22:27																																																																
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CCE-P0704	TGT	4	39	424	2007 April 17	01:04	01:27																																																															
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						BEGIN TOW	END TOW								
CCE-P0704	TGT	4	40	431	2007 April 17	0443	0503								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	6	50	NET NO.			TOW NO. 1 OF 1									
			METER NO.		09446	SEA (Conditions): Calm									
TOWING (at depth)	0	30	FINAL	82683-	15020-	(Circle one) Moderate									
			INITIAL	78273-	10646-	Rough									
Total (ascend)	13	53	DIFF.	4610	4374	WIND: knots									
			MESH SIZE	202 μ m	202 μ m										
AMT. OF WIRE OUT: 200 meters				OBSERVERS:											
TOTAL NO. OF ANGLES: 30															
ANGLES	60	60	59	58	57	57	57	57	57	60	60	61	62	62	62
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	61	59	50	57	56	56	56	57	57	57	59	60	62	63	64
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 X Q	P	Q												
FORMALIN & BORATE ADDED				NET WASHING	none	rinsed	washed								
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CCE-P0704	TGT	4	41	433	2007 April 17	0634	0656																																																																
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NET TOW DATA SHEET

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CCE-P0704	TGT	4	43	458	2007 April 17	22:06	2229																																																
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NET TOW DATA SHEET

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						BEGIN TOW	END TOW								
CCE-P0704	TGT	4	44	472	2007 April 18	10:32	1054								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	7	27	"	NET NO.		TOW NO. 1 OF 1									
				METER NO.	09446	SEA (Conditions): Calm									
TOWING (at depth)	0	30	"	FINAL	01521-33350-	(Circle one) Moderate									
				INITIAL	96900-28701-	Rough									
Total (ascend)	14	01	"	DIFF.	4621 4649	WIND: knots									
				MESH SIZE	202µm 202µm										
AMT. OF WIRE OUT: 300.0 meters				OBSERVERS:											
TOTAL NO. OF ANGLES: 30 29															
ANGLES	55	56	51	^{wind} -	50	51	51	54	51	51	45	45	45	48	48
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	51	55	55	55	54	54	54	52	48	48	45	40	40	41	55
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 X Q	P	Q												
FORMALIN & BORATE ADDED				NET WASHING	none	rinsed	washed								
ALCOHOL ADDED															
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REMARKS:															

NET TOW DATA SHEET

** Questionable*

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CCE-P0704	TGT	4	45	492	2007 April 18	2203	2226																																																																
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NET TOW DATA SHEET

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CCE-P0704	TGT	4	46	506	2007 April 19	1100	1122																																																	
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WP2 Regent

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																																	
						BEGIN TOW	END TOW																																																																
CCE-P0704	TGT	4	48 47	532	2007 April 20	00:14	00:36																																																																
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<p>REMARKS: I noticed the stb. flowmeter is stiff... I can't see what hinders it now, but the resistance is too much. Perhaps it can be recalibrated, but I'm not certain when the problem began.</p>																																																																							