

BONGO TOWS

EXPEDITION	SHIP	STANO	Sample Date	Start Time	Event No.	Tow Type	Max Depth	Vol H2O filtered
CCE-LTER-P1706	R/V REVELLE	Transect 1-1	6/7/2017	1838	134	Vertical	98.27	40.5
CCE-LTER-P1706	R/V REVELLE	Transect 1-2	6/7/2017	1944	139	Vertical	99.69	44.3
CCE-LTER-P1706	R/V REVELLE	Transect 1-3	6/7/2017	2050	143	Vertical	100.00	49.5
CCE-LTER-P1706	R/V REVELLE	Transect 1-4	6/7/2017	2213	151	Vertical	99.90	43.9
CCE-LTER-P1706	R/V REVELLE	Transect 1-5	6/8/2017	0002	159	Vertical	99.67	44.4
CCE-LTER-P1706	R/V REVELLE	Transect 1-6	6/8/2017	0143	166	Vertical	99.52	46.0
CCE-LTER-P1706	R/V REVELLE	Transect 1-7	6/8/2017	0252	171	Vertical	99.85	36.0
CCE-LTER-P1706	R/V REVELLE	Transect 1-8	6/8/2017	0356	178	Vertical	99.56	41.9
CCE-LTER-P1706	R/V REVELLE	Transect 1-9	6/8/2017	0456	184	Vertical	99.14	44.2
CCE-LTER-P1706	R/V REVELLE	Transect 1-10	6/8/2017	0627	192	Vertical	99.94	40.6
CCE-LTER-P1706	R/V REVELLE	Transect 1-11	6/8/2017	0729	197	Vertical	100.00	37.0
CCE-LTER-P1706	R/V REVELLE	Cycle 1-1	6/9/2017	0839	214	Oblique	208.13	378.2
CCE-LTER-P1706	R/V REVELLE	Cycle 1-2	6/9/2017	2034	229	Oblique	194.37	332.4
CCE-LTER-P1706	R/V REVELLE	Cycle 1-3	6/10/2017	0836	244	Oblique	216.71	372.4
CCE-LTER-P1706	R/V REVELLE	Cycle 1-4	6/10/2017	2034	258	Oblique	176.99	304.0
CCE-LTER-P1706	R/V REVELLE	Cycle 1-5	6/11/2017	0832	269	Oblique	213.98	344.1
CCE-LTER-P1706	R/V REVELLE	Cycle 1-6	6/11/2017	2048	279	Oblique	195.60	362.4
CCE-LTER-P1706	R/V REVELLE	Cycle 2-1	6/13/2017	0731	310	Oblique	209.55	358.2
CCE-LTER-P1706	R/V REVELLE	Cycle 2-2	6/13/2017	2112	324	Oblique	219.70	414.8
CCE-LTER-P1706	R/V REVELLE	Cycle 2-3	6/14/2017	0733	339	Oblique	200.03	389.9
CCE-LTER-P1706	R/V REVELLE	Cycle 2-4	6/14/2017	2033	348	Oblique	214.71	362.4
CCE-LTER-P1706	R/V REVELLE	Cycle 2-5	6/15/2017	0829	362	Oblique	208.40	445.3
CCE-LTER-P1706	R/V REVELLE	Cycle 2-6	6/15/2017	2109	373	Oblique	203.55	362.4
CCE-LTER-P1706	R/V REVELLE	Cycle 2-7	6/16/2017	0830	383	Oblique	213.31	384.1
CCE-LTER-P1706	R/V REVELLE	Cycle 2-8	6/16/2017	2035	393	Oblique	197.69	362.4
CCE-LTER-P1706	R/V REVELLE	Transect 2-1	6/17/2017	1935	412	Vertical	99.98	58.8
CCE-LTER-P1706	R/V REVELLE	Transect 2-2	6/17/2017	2111	416	Vertical	99.83	61.8
CCE-LTER-P1706	R/V REVELLE	Transect 2-3	6/17/2017	2303	422	Vertical	99.62	65.2
CCE-LTER-P1706	R/V REVELLE	Transect 2-4	6/18/2017	0035	428	Vertical	100.00	67.3
CCE-LTER-P1706	R/V REVELLE	Transect 2-5	6/18/2017	0207	434	Vertical	99.36	73.4
CCE-LTER-P1706	R/V REVELLE	Transect 2-6	6/18/2017	0410	441	Vertical	98.70	59.3
CCE-LTER-P1706	R/V REVELLE	Transect 2-7	6/18/2017	0605	448	Vertical	98.88	59.2
CCE-LTER-P1706	R/V REVELLE	Transect 2-8	6/18/2017	0723	453	Vertical	99.88	72.8
CCE-LTER-P1706	R/V REVELLE	Transect 2-9	6/18/2017	0846	459	Vertical	100.00	55.9
CCE-LTER-P1706	R/V REVELLE	Transect 2-10	6/18/2017	1010	465	Vertical	96.13	67.3
CCE-LTER-P1706	R/V REVELLE	Transect 2-11	6/18/2017	1208	473	Vertical	99.66	44.7
CCE-LTER-P1706	R/V REVELLE	Cycle 3-1	6/19/2017	0832	488	Oblique	217.35	313.5
CCE-LTER-P1706	R/V REVELLE	Cycle 3-2	6/19/2017	2051	506	Oblique	216.36	364.5
CCE-LTER-P1706	R/V REVELLE	Cycle 3-3	8/20/2017	0832	521	Oblique	214.96	365.3
CCE-LTER-P1706	R/V REVELLE	Cycle 3-4	6/20/2017	2048	535	Oblique	211.56	380.2
CCE-LTER-P1706	R/V REVELLE	Cycle 3-5	8/21/2017	0835	548	Oblique	216.06	384.1
CCE-LTER-P1706	R/V REVELLE	Cycle 3-6	8/21/2017	2036	559	Oblique	197.42	342.6
CCE-LTER-P1706	R/V REVELLE	Transect 3-1	6/22/2017	1813	574.7	Vertical	98.77	62.8
CCE-LTER-P1706	R/V REVELLE	Transect 3-2	6/22/2017	1914	578	Vertical	98.48	59.1

CCE-LTER-P1706	R/V REVELLE	Transect 3-3 6/22/2017	2021	583	Vertical	100.00	60.4
CCE-LTER-P1706	R/V REVELLE	Transect 3-4 6/22/2017	2130	588	Vertical	100.00	59.5
CCE-LTER-P1706	R/V REVELLE	Transect 3-5 6/22/2017	2237	593	Vertical	99.86	60.1
CCE-LTER-P1706	R/V REVELLE	Transect 3-6 6/23/2017	0016	600	Vertical	95.22	80.0
CCE-LTER-P1706	R/V REVELLE	Transect 3-7 6/23/2017	0143	605	Vertical	99.92	75.0
CCE-LTER-P1706	R/V REVELLE	Transect 3-8 6/23/2017	0249	610	Vertical	99.67	66.4
CCE-LTER-P1706	R/V REVELLE	Transect 3-9 6/23/2017	0354	615	Vertical	99.99	57.7
CCE-LTER-P1706	R/V REVELLE	Transect 3-10 6/23/2017	0456	620	Vertical	99.20	61.9
CCE-LTER-P1706	R/V REVELLE	Transect 3-11 6/23/2017	0635	627	Vertical	99.69	61.1
CCE-LTER-P1706	R/V REVELLE	Cycle 4-1 6/24/2017	0829	647	Oblique	207.82	319.0
CCE-LTER-P1706	R/V REVELLE	Cycle 4-2 6/24/2017	2036	671	Oblique	200.59	362.6
CCE-LTER-P1706	R/V REVELLE	Cycle 4-3 6/25/2017	0830	686	Oblique	209.99	330.0
CCE-LTER-P1706	R/V REVELLE	Cycle 4-4 6/25/2017	2038	695	Oblique	205.00	341.6

007927

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																																			
						BEGIN TOW	END TOW																																																																		
CCE-P	KAO Rogers Revelle	C1, T1		214	17 06 09	0939	1006																																																																		
Flow meter start: 007927 stb																																																																									
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL																																																																			
SINKING (descend)	6	45	NET NO.		0071	TOW NO. 1 OF 1																																																																			
			METER NO.			SEA (Conditions): (Circle one) Calm Moderate Rough																																																																			
TOWING (at depth)	7	02	FINAL		042600																																																																				
			INITIAL			007927																																																																			
Total (ascend)	22	33	DIFF.			WIND: knots																																																																			
			MESH SIZE																																																																						
AMT. OF WIRE OUT:			meters		OBSERVERS:																																																																				
TOTAL NO. OF ANGLES:																																																																									
<table border="0"> <tr> <td>ANGLES</td> <td>45°</td> <td>45°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>55°</td> <td>55°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> </tr> <tr> <td>WIRE OUT</td> <td>10m</td> <td>20m</td> <td>30m</td> <td>40m</td> <td>50</td> <td>60</td> <td>70</td> <td>80</td> <td>90</td> <td>100</td> <td>120</td> <td>140</td> <td>160</td> <td>180</td> <td>200</td> <td>220</td> <td>240</td> </tr> <tr> <td>ANGLES</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> <td>50°</td> </tr> <tr> <td>WIRE OUT</td> <td>240m</td> <td>260</td> <td>280</td> <td>300</td> <td>320</td> <td>340</td> <td>360</td> <td>380</td> <td>400</td> <td>420</td> <td>440</td> <td>460</td> <td>480</td> <td>500</td> <td>520</td> <td>540</td> <td>560</td> </tr> </table>								ANGLES	45°	45°	50°	50°	50°	55°	55°	50°	50°	50°	50°	WIRE OUT	10m	20m	30m	40m	50	60	70	80	90	100	120	140	160	180	200	220	240	ANGLES	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	50°	WIRE OUT	240m	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560
ANGLES	45°	45°	50°	50°	50°	55°	55°	50°	50°	50°	50°																																																														
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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-P	Revelle	1	Tow 2	229	170609	2134	2157							
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL								
SINKING (descend)	6	17	NET NO.			TOW NO. 1 OF 1								
			METER NO.			SEA (Conditions): <u>Calm</u>								
TOWING (at depth)	6	51	FINAL		072572	(Circle one) Moderate								
			INITIAL		042609	Rough								
Total (ascend)	22	48	DIFF.			WIND: knots								
			MESH SIZE											
AMT. OF WIRE OUT:			meters	OBSERVERS: KK, VB, CM										
TOTAL NO. OF ANGLES:														
ANGLES	30°	40°	140°	45°	50°	50°	45°	45°	40°	40°	35°	40°	45°	
WIRE OUT	10	30	50	70	90	110	130	150	170	190	210	230	250	
ANGLES	20	40	60	80	100	120	140	160	180	200	220	240	260	
WIRE OUT	40°	40°	50°	45°	45°	50°	55°	55°	55°	50°	50°	55°	55°	
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: Approx 5% of the Gl cup was spilled														

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P	Rex 12	C173		244	17 06 10	0936	1003
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL	
SINKING (descend)	39	"	NET NO.			TOW NO. 1 OF 1	
			METER NO.			SEA (Conditions): Calm	
TOWING (at depth)	0	30	FINAL		107398	(Circle one) Moderate	
			INITIAL		072600	Rough	
Total (ascend)	16	45	DIFF.			WIND: 15 knots	
			MESH SIZE				
AMT. OF WIRE OUT:			meters	OBSERVERS:			
TOTAL NO. OF ANGLES:							
ANGLES	42 43 44 45 46 47 48 49 50 51 52 53 54						
WIRE OUT	20 40 60 80 100 120 140 160 180 200 220 240 260						
ANGLES	46 47 48 49 50 51 52 53 54 55 56 57 58						
WIRE OUT	20 40 60 80 100 120 140 160 180 200 220 240 260						
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:							

RWS

NET TOW DATA SHEET

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						BEGIN TOW	END TOW																																																							
CCE-P	Revelle	1	Tow 4	258	170610	2134	2157																																																							
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AMT. OF WIRE OUT: meters				OBSERVERS: VB, C, P, JG																																																										
TOTAL NO. OF ANGLES:																																																														
ANGLES	40°	40°	40°	45°	45°	45°	45°	45°	40°	35°	40°	45°	55°																																																	
WIRE OUT	10	30	50	70	90	110	130	150	170	190	210	230	250																																																	
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NET TOW DATA SHEET ^{RWS}

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						BEGIN TOW	END TOW																																																														
CCE-P	RV Roger Revelle	1	6	272 ⁹	2017 June 1 st	21:48	22:12																																																														
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			INITIAL	166065																																																																	
			DIFF.																																																																		
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AMT. OF WIRE OUT: 300 meters				OBSERVERS: KK, BMW, JG, PL																																																																	
TOTAL NO. OF ANGLES:																																																																					
ANGLES			46°	45°	45°	54°	54°	52°	53°	53°	48°	46°	45°																																																								
WIRE OUT	10	30	50	70	90	110	130	150	170	190	210	230	250	270																																																							
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REMARKS: Flowmeter Free wheeled on the way out																																																																					

NET TOW DATA SHEET

Tow

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																									
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CCE-P	Reveler	2	Tow 2	310	17 06 13	0831	0854																																																								
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AMT. OF WIRE OUT: meters				OBSERVERS:																																																											
TOTAL NO. OF ANGLES:																																																															
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ANGLES	32	41	44	52	55	59	60	58	59	61	57	57	55																																																		
WIRE OUT	20	30	30	30	30	30	30	30	30	30	30	30	30																																																		
ANGLES	50	47	35	40	45	44	46	45	44	45	48	50	55																																																		
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REMARKS:																																																															

NET TOW DATA SHEET

Tow

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P	<i>Revelle</i>	<i>2</i>	<i>2</i>	<i>324</i>	<i>17 06 13</i>	<i>22:12</i>	<i>22:34</i>

TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	<i>8</i>	<i>02</i>	"	NET NO.		TOW NO. <i>1</i> OF <i>1</i>
				METER NO.		SEA (Conditions): <i>Calm</i>
TOWING (at depth)	<i>8</i>	<i>32</i>	"	FINAL	<i>271068</i>	(Circle one) <i>Moderate</i>
				INITIAL	<i>232806</i>	<i>Rough</i>
Total (ascend)	<i>22</i>	<i>26</i>	"	DIFF.		WIND: <i>knots</i>
				MESH SIZE		

AMT. OF WIRE OUT: *300* meters

OBSERVERS:

TOTAL NO. OF ANGLES:

JG, ktk, PL, BMW

ANGLES		45	35	40	45	50	50	45	45	35	45	40	40	45
WIRE OUT	10	30	50	70	90	110	130	150	170	190	210	230	250	270
ANGLES	25	35	40°	45	50		50	40	45	45	45	45	50	
WIRE OUT	20	40	60	80	100	120	140	160	180	200	220	240	260	

PORT		STB.					
No. OF JARS				NET CLOGGING	none or slight	moderate	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

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																										
						BEGIN TOW	END TOW																																																									
CCE-P	Revele	2	3	2339	17 06 14	0833	0856																																																									
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TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL																																																											
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			MESH SIZE																																																													
AMT. OF WIRE OUT:			meters		OBSERVERS: LL, VB, Cynthia																																																											
TOTAL NO. OF ANGLES:																																																																
ANGLES	35°	35°	30°	35°	45°	45°	50°	55°	50°	55°	55°	55°	50°																																																			
WIRE OUT	20	40	60	80	100	120	140	160	180	200	220	240	260	280																																																		
ANGLES	50	45°	50	50°	50°	55°	55°	50°	45°	40°	40°	40°	40°	50°																																																		
WIRE OUT	10	30	50	70	90	110	130	150	170	190	210	230	250	270																																																		
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REMARKS:																																																																

30
sec
tow

NET TOW DATA SHEET

CalBOBL

Tow

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																											
						BEGIN TOW	END TOW																																																										
CCE-P	Reville	2	4	348	170614	21:33	21:57																																																										
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CCE-P	Revelle	C2, T7		383	17 06 16	0930	0953																																																												
<table border="1"> <thead> <tr> <th>TIME</th> <th>Min.</th> <th>Sec.</th> <th></th> <th>PORT</th> <th>STB.</th> <th colspan="2">TOW TYPE: CALBOBL</th> </tr> </thead> <tbody> <tr> <td>SINKING (descend)</td> <td>8</td> <td>03</td> <td>"</td> <td>NET NO.</td> <td></td> <td>TOW NO.</td> <td>1 OF 1</td> </tr> <tr> <td>TOWING (at depth)</td> <td>8</td> <td>30</td> <td>"</td> <td>METER NO.</td> <td></td> <td colspan="2">SEA (Conditions): Calm (Circle one) <u>Moderate</u></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>FINAL</td> <td>461491</td> <td colspan="2"></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>INITIAL</td> <td>434434</td> <td colspan="2"></td> </tr> <tr> <td>Total (ascend)</td> <td>23</td> <td>35</td> <td>"</td> <td>DIFF.</td> <td></td> <td colspan="2">WIND: knots</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td>MESH SIZE</td> <td></td> <td colspan="2"></td> </tr> </tbody> </table>								TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL		SINKING (descend)	8	03	"	NET NO.		TOW NO.	1 OF 1	TOWING (at depth)	8	30	"	METER NO.		SEA (Conditions): Calm (Circle one) <u>Moderate</u>						FINAL	461491							INITIAL	434434			Total (ascend)	23	35	"	DIFF.		WIND: knots						MESH SIZE							
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL																																																													
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Total (ascend)	23	35	"	DIFF.		WIND: knots																																																													
				MESH SIZE																																																															
AMT. OF WIRE OUT: meters				OBSERVERS:																																																															
TOTAL NO. OF ANGLES:																																																																			
<table border="1"> <thead> <tr> <th>ANGLES</th> <th colspan="14">35° 40° 40° 30° 50° 40° 45° 45° 45° 50° 45° 50° 45° 50° 50°</th> </tr> </thead> <tbody> <tr> <td>WIRE OUT</td> <td colspan="14">10 20 30 40 50 60 70 80 90 100 110 120 130 140 150</td> </tr> <tr> <td>ANGLES</td> <td colspan="14">50° 50° 45° 50° 45° 45° 40° 40° 40° 40° 45° 45°</td> </tr> <tr> <td>WIRE OUT</td> <td colspan="14">160 170 180 190 200 210 220 230 240 250 260 270 280</td> </tr> </tbody> </table>								ANGLES	35° 40° 40° 30° 50° 40° 45° 45° 45° 50° 45° 50° 45° 50° 50°														WIRE OUT	10 20 30 40 50 60 70 80 90 100 110 120 130 140 150														ANGLES	50° 50° 45° 50° 45° 45° 40° 40° 40° 40° 45° 45°														WIRE OUT	160 170 180 190 200 210 220 230 240 250 260 270 280													
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WIRE OUT	10 20 30 40 50 60 70 80 90 100 110 120 130 140 150																																																																		
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REMARKS:																																																																			

Tow NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																								
						BEGIN TOW	END TOW																																																							
CCE-P	Reville	2	8	393	170616	21:35	21:56																																																							
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TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL																																																								
SINKING (descend)	6	50	"	NET NO.		TOW NO. 1 OF 1																																																								
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TOWING (at depth)	7	20	"	FINAL	507453	(Circle one) <u>Moderate</u>																																																								
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Total (ascend)	20	38	"	DIFF.		WIND: knots																																																								
				MESH SIZE	202 μ m																																																									
AMT. OF WIRE OUT: meters				OBSERVERS:																																																										
TOTAL NO. OF ANGLES:				BMW, PL, KK, J6																																																										
ANGLES		38	32	44	50	55	55	55	55	55	55	55	55																																																	
WIRE OUT	10	30	50	70	90	110	130	150	170	190	210	230	250																																																	
ANGLES		45	55	55	55	50	50	50	50	45	40	45	50																																																	
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PORT		STB.		NET CLOGGING	none or slight	moderate	heavy	very heavy																																																						
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COLLECTORS INIT'S.					none	location	when mended: (Circle one)	Before station: After station																																																						
REMARKS: Freewheeled on the way down																																																														

tow



Tow NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																								
						BEGIN TOW	END TOW																																																							
CCE-P 1706	A/V Roger Bevelle	3	2	506	2017 06 19	21:51	22:18																																																							
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TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL																																																								
SINKING (descend)	10	10	"	NET NO.		TOW NO. 1 OF 1																																																								
TOWING (at depth)	10	40	"	METER NO.		SEA (Conditions): Calm (Circle one) <u>Moderate</u> Rough																																																								
Total (ascend)	26	36	"	FINAL	623677	WIND: knots																																																								
				INITIAL	591001																																																									
				DIFF.	623677																																																									
				MESH SIZE	202 μ m																																																									
AMT. OF WIRE OUT: 300 MWQ meters				OBSERVERS: BMW, JG.kk, PL																																																										
TOTAL NO. OF ANGLES:																																																														
ANGLES	39	41	49	45	44	40	45	45	49	48	45	41	42																																																	
WIRE OUT	10	30	50	70	90	110	130	150	170	190	210	230	250	270																																																
ANGLES	41	40	40	45	41	45	46	45	49	41	45	46	46																																																	
WIRE OUT	20	40	60	80	100	120	140	160	180	200	220	240	260																																																	
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PORT		STB.		NET CLOGGING	none or slight	moderate	heavy	very heavy																																																						
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COLLECTORS INTS.																																																														
REMARKS:																																																														

NET TOW DATA SHEET

Tow

RWS

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)								
						BEGIN TOW	END TOW							
CCE-P	Revelle	3	3	521	17 06 20	0932	0955							
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL								
SINKING (descend)	7	26	NET NO.			TOW NO. 1 OF 1								
TOWING (at depth)	7	56	METER NO.			SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough								
Total (ascend)	22	37	FINAL		623745	WIND: knots								
			DIFF.											
			MESH SIZE											
AMT. OF WIRE OUT:			meters	OBSERVERS: CM, VB, LL										
TOTAL NO. OF ANGLES:														
ANGLES	45°	50°	55°	55°	50°	50°	50°	45°	50°	45°	45°	45°		
WIRE OUT	20	40	60	80	100	120	140	160	180	200	220	240	260	
WIRE OUT ANGLES	10	30	50	70	90	110	130	150	170	190	210	230	250	270
WIRE OUT Angles		45°	45°	45°	45°	45°	45°	50°	50°	50°	45°	40	35°	35°
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:														

30
Sec

↓ 45m/min
hold 30
↑ 18m/min

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)								
						BEGIN TOW	END TOW							
CCE-P	Reville	3	Tow 4	535	170620	21:48	22:11							
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL								
SINKING (descend)	06	53	NET NO.		X	TOW NO. 1 OF 1								
			METER NO.			SEA (Conditions): Calm								
TOWING (at depth)	07	23	FINAL	691741		(Circle one) <u>Moderate</u>								
			INITIAL	657020		Rough								
Total (ascend)	23	17	DIFF.			WIND: knots								
			MESH SIZE	202mm										
AMT. OF WIRE OUT:			meters	OBSERVERS:										
TOTAL NO. OF ANGLES:				BMW, Kk, Jb, PL										
ANGLES		48°	47°	51°	48°	40°	38°	40°	41°	40°	35°	45°	45°	
WIRE OUT	10	30	50	70	90	110	130	150	170	190	210	230	250	270
ANGLES		42°	43°	42°	40°	50°	45°	48°	48°	45°	48°	48°	45°	43°
WIRE OUT	20	40	60	80	100	120	140	160	180	200	220	240	260	
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

2005

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P	Revelle	3	5	548	17 06 21	0935	0952

30 sec

TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	7	44	NET NO.			TOW NO. 1 OF 1
TOWING (at depth)	8	10	METER NO.			SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough
Total (ascend)			FINAL		727048	
			INITIAL		691758	
			DIFF.			WIND: knots
			MESH SIZE			

AMT. OF WIRE OUT:	meters	OBSERVERS:
TOTAL NO. OF ANGLES:		VB, LL, CM

ANGLES	45°	40°	45°	45°	45°	45°	50°	50°	50°	55°	50°	55°		
WIRE OUT	20	40	60	80	100	120	140	160	180	200	220	240	260	
ANGLES	10	30	50	70	90	110	130	150	170	190	210	230	250	270
WIRE OUT	40	45	50	50	45	45	45	45	45	45	40	35	40	45

PORT		STB.					
No. OF JARS				NET CLOGGING	none or slight	moderate	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:

REMARKS:



NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																					
						BEGIN TOW	END TOW																																																				
CCE-P	Reville	3	Tow 6	559	170621	2136	2158																																																				
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TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL																																																					
SINKING (descend)	06	23	"	NET NO.	X	TOW NO. 1 OF 1																																																					
				METER NO.		SEA (Conditions): Calm																																																					
TOWING (at depth)	06	53	"	FINAL		(Circle one) <u>Moderate</u>																																																					
				INITIAL		Rough																																																					
Total (ascend)	22	15	"	DIFF.		WIND: 13 knots																																																					
				MESH SIZE	202µm																																																						
AMT. OF WIRE OUT: 300mwo meters				OBSERVERS:																																																							
TOTAL NO. OF ANGLES:				BMW/KK, PL, JG																																																							
ANGLES	59	52	42	39	40	40 ⁽¹⁰⁰⁾	47	55	52	51	31	23	29																																														
WIRE OUT	10	30	50	70	90	110	130	150	170	190	210	230	250	270																																													
ANGLES	42	48	50	52	49	52	49	49	51	50	51	47	45																																														
WIRE OUT	20	40	60	80	100	120	140	160	180	200	220	240	260																																														
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REMARKS: Free wheeling slightly on descent																																																											

NET TOW DATA SHEET

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CCE-P	RR	4	1	647	17 06 24	0929	0951																																																				
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NET TOW DATA SHEET

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CCE-P 1706	Reville	4	Tow 2	671	20170624	21:36	21:58																																																																
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REMARKS: Mistabelled inner paper label; says "T1" rather than "T2"																																																																							

P1706
Revelle

↓ 45
hold 30
↑ 18

Cycle 4, Tow 2

event #

Begin tow	end Tow
21:36	21:58

total {	Flow meter	initial	Final
		841019	874080
	Start time	06:12	
	tow time	06:42	
	End time	22:14	

Angle		53	50°	50°	47°	45°	45°	45°	45°	45°	45°	50°	50°	
Wireout	10	30	50	70	90	110	130	150	170	190	210	230	250	
Angle		45°	45°	48°	45°	48°	48°	49°	48°	50°	50°	50°	50°	
Wireout		20	40	60	80	100	120	140	160	180	200	220	240	260

Observers: Bmw, KK, Jh, PL

NET TOW DATA SHEET

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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-P 1706	RV Bevelle	4	4	695	2017 06 25	21:38	22:00																																																																
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