

Tow
↓

BONGO TOWS			Sample	Start	Event	Tow	Max	Vol H2O
EXPEDITION	SHIP	STANO	Date	Time	No.	Type	Depth	filtered
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 1 -1	4/22/2016	0833	35	oblique	195.45	324
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 1 -2	4/22/2016	2043	45.1	oblique	205.78	416
CCE-LTER-P1604	R/V SIKULIAQ	NMB -1	4/24/2016	2027	64	oblique	193.30	415
CCE-LTER-P1604	R/V SIKULIAQ	NMB -2	4/24/2016	2104	66	oblique	212.13	370
CCE-LTER-P1604	R/V SIKULIAQ	NMB -3	4/24/2016	2200	68	oblique	231.49	348
CCE-LTER-P1604	R/V SIKULIAQ	NMB -4	4/24/2016	2240	70	oblique	206.51	386
CCE-LTER-P1604	R/V SIKULIAQ	NMB -5	4/24/2016	2339	72	oblique	215.44	386
CCE-LTER-P1604	R/V SIKULIAQ	NMB -6	4/25/2016	0023	74	oblique	200.87	386
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 2 -1	4/28/2016	2035	94	oblique	202.53	419
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 2 -2	4/29/2016	0841	108	oblique	203.28	424
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 2 -3	4/30/2016	0844	131	oblique	196.25	457
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 2 -4	4/30/2016	2029	139	oblique	206.32	348
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 2 -5	5/1/2016	0833	154	oblique	172.07	447
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 2 -6	5/1/2016	2028	169	oblique	213.81	386
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 3 -1	5/3/2016	0829	195	oblique	214.63	365
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 3 -2	5/3/2016	2028	206	oblique	225.70	361
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 3 -3	5/4/2016	0828	219	oblique	208.54	379
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 3 -4	5/4/2016	2029	231	oblique	209.93	376
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 3 -5	5/5/2016	0854	246	oblique	210.34	373
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 3 -6	5/5/2016	2028	261	oblique	222.36	369
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 4 -1	5/7/2016	0831	294	oblique	216.67	336
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 4 -2	5/7/2016	2025	309	oblique	217.92	354
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 4 -3	5/8/2016	0831	322	oblique	203.09	430
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 4 -4	5/8/2016	2029	334	oblique	216.34	360
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 4 -5	5/9/2016	0827	347	oblique	197.63	380
CCE-LTER-P1604	R/V SIKULIAQ	Cycle 4 -6	5/9/2016	2027	357	oblique	211.60	408

NET TOW DATA SHEET



CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ	1	1	RWS-35	2016 May ^{April} 22	09:33	09:55

TIME	Min.	Sec.	NET NO.	METER NO.	PORT	STB.	TOW TYPE: CALBOBL	TOW NO. 1 OF 1
SINKING (descend)	6	31			X		SEA (Conditions): <u>Calm</u>	
TOWING (at depth)		31	FINAL			885775	(Circle one) Moderate	
			INITIAL			855570	Rough	
Total (ascend)	14	48	DIFF.				WIND: knots	
AMT. OF WIRE OUT: 300 meters			OBSERVERS: MDO, CB, JAB					
TOTAL NO. OF ANGLES:								

ANGLES	50	53	47	50	45	55	48	55	49	54	47	52	48	52	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	49	52	50	55	50	53	45	52	44	52	43	52	40	50	39
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10

	PORT		STB.						
No. OF JARS					NET CLOGGING	none or slight	moderate	heavy	very heavy
SIZE OF JAR (Circle One)	P	Q	P	Q	NET WASHING	none	rinsed	washed	
FORMALIN & BORATE ADDED					RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station
ALCOHOL ADDED								After station	
COLLECTORS INITS.									

REMARKS:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ	1	Z	RWS-45.1	2016 April 21	2143	2207

TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	07	25	"	NET NO.		TOW NO. 1 OF 1
TOWING (at depth)	00	30	"	METER NO.		SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough
Total (ascend)	15	41	"	FINAL 928105	X	WIND: knots
				INITIAL 888886		
				DIFF.		
				MESH SIZE		

AMT. OF WIRE OUT:	meters	OBSERVERS:
TOTAL NO. OF ANGLES:		LAL, B/H, GARLANDO

ANGLES	51	51	52	43	51	44	51	42	51	48	30	50	53	52	50
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160

ANGLES	51	49	50	43	40	41	45	40	42	30	41	35	44	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	<u>P</u>	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: Net dropped into water, then retrieved with no wire tension.
 No specimens recovered from net.
 Passed debris at 12:50 PM. (see sketch)
 Jantina removed from cod end (not preserved)

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ		NMB 1	64 - RVS	2016 April 24	21 027	21 048

TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	6	20	NET NO.		TOW NO. 1 OF 1
TOWING (at depth)		31	METER NO.		SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough
Total (ascend)	22	21	FINAL 966427	INITIAL 928114	WIND: knots
AMT. OF WIRE OUT:			meters	OBSERVERS:	
TOTAL NO. OF ANGLES:					

ANGLES	42	52	43	51	39	55	40	58	45	52	45	48	55		
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	48	53	52	55	55	55	55	55	52	53	52	45	42		
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10

	PORT	STB.		none or slight	moderate	heavy	very heavy
No. OF JARS	1	1	NET CLOGGING				
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: ↳ 50% in formalin
50% frozen in Na cups 3+4 dewar 1 canister 1.
Cups given to Brandon Stevens June 2016 CFN

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ		NMB2	66 ²⁴⁵	2016 April 24	22:04	22:29

TIME	Min.	Sec.	NET NO.	METER NO.	PORT	STB.	TOW TYPE: CALBOBL	TOW NO. 1 OF 1
SINKING (descend)	7	13					SEA (Conditions): <u>Calm</u>	
TOWING (at depth)		30	FINAL	000188			(Circle one) Moderate	
			INITIAL	966428			Rough	
Total (ascend)	23	01	DIFF.				WIND: knots	
			MESH SIZE	202 _{um}	202 _{um}			

AMT. OF WIRE OUT: 300 meters OBSERVERS: JAS, LEL, CS

TOTAL NO. OF ANGLES:

ANGLES	46	51	46	53	42	54	40	52	42	52	41	50	41	48	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	42	45	44	45	46	41	53	40	53	35	51	33	48	25	46
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10

	PORT	STB.		none or slight	moderate	heavy	very heavy
No. OF JARS	1	1	NET CLOGGING				
SIZE OF JAR (Circle One)	<u>P</u> Q	<u>P</u> 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-P1604	SKQ		NMBJ	68 ^{-rvt}	2016 April 24	23:00	23:19

TIME	Min.	Sec.	NET NO.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	6	16	METER NO.			TOW NO. 1 OF 1
TOWING (at depth)		32	FINAL	033535		SEA (Conditions): Calm (Circle one) <u>Moderate</u>
Total (ascend)	19	37	INITIAL	000158		Rough
			DIFF.			WIND: knots
AMT. OF WIRE OUT:	250 meters		MESH SIZE	202µm	202µm	
TOTAL NO. OF ANGLES:	OBSERVERS: ZEL, CB, JAD					

ANGLES	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	49	31	48	35	45	40	43	42	45	38	46	31	44	33	39
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10

No. OF JARS	1	1	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: Before station (Circle one) After station
ALCOHOL ADDED							
COLLECTORS INITS.							

REMARKS:

F

PK

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ		NM134	70	2016 April 24	23:40	00:07
25							
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL	
SINKING (descend)		"	NET NO.			TOW NO. 1 OF 1	
			METER NO.		X	SEA (Conditions): <u>Calm</u>	
TOWING (at depth)		"	FINAL	078164		(Circle one) <u>Moderate</u>	
			INITIAL	033537		Rough	
Total (ascend)		"	DIFF.			WIND: knots	
			MESH SIZE	202µm	202µm		
AMT. OF WIRE OUT: 300 meters				OBSERVERS:			
TOTAL NO. OF ANGLES:							

ANGLES	50	45	47	46	50	45	51	50	46	49	47	48	46	51	45
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	51	48	45	49	42	51	47	49	39	54	37	48	35	45	39
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10

	PORT	STB.		none or slight	moderate	heavy	very heavy
No. OF JARS	1	1	NET CLOGGING				
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:

* Plowmeter free-wheeled on descent *

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																			
						BEGIN TOW	END TOW																																		
CCE-P1604	SKQ		NMB5	72 ^{RWS}	2016 April 25	00:39	1:06																																		
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>Min.</th> <th>Sec.</th> <th>PORT</th> <th>STB.</th> <th>TOW TYPE: CALBOBL</th> </tr> </thead> <tbody> <tr> <td rowspan="2">SINKING (descend)</td> <td rowspan="2"></td> <td rowspan="2">"</td> <td>NET NO.</td> <td></td> <td>TOW NO. 1 OF 1</td> </tr> <tr> <td>METER NO.</td> <td></td> <td>SEA (Conditions): Calm (Circle one) <u>Moderate</u></td> </tr> <tr> <td rowspan="2">TOWING (at depth)</td> <td rowspan="2"></td> <td rowspan="2">"</td> <td>FINAL</td> <td>118667</td> <td>Rough</td> </tr> <tr> <td>INITIAL</td> <td>078166</td> <td>WIND: knots</td> </tr> <tr> <td rowspan="2">Total (ascend)</td> <td rowspan="2"></td> <td rowspan="2">"</td> <td>DIFF.</td> <td></td> <td></td> </tr> <tr> <td>MESH SIZE</td> <td>202.00</td> <td>202.00</td> <td></td> </tr> </tbody> </table>								TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL	SINKING (descend)		"	NET NO.		TOW NO. 1 OF 1	METER NO.		SEA (Conditions): Calm (Circle one) <u>Moderate</u>	TOWING (at depth)		"	FINAL	118667	Rough	INITIAL	078166	WIND: knots	Total (ascend)		"	DIFF.			MESH SIZE	202.00	202.00	
TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL																																				
SINKING (descend)		"	NET NO.		TOW NO. 1 OF 1																																				
			METER NO.		SEA (Conditions): Calm (Circle one) <u>Moderate</u>																																				
TOWING (at depth)		"	FINAL	118667	Rough																																				
			INITIAL	078166	WIND: knots																																				
Total (ascend)		"	DIFF.																																						
			MESH SIZE	202.00	202.00																																				
AMT. OF WIRE OUT: 300 meters			OBSERVERS: BVW, BMW, CS																																						
TOTAL NO. OF ANGLES:																																									

ANGLES	45	45	42	44	43	46	45	44	47	39	45	39	44	38	49
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	38	51	44	52	43	48	45	46	46	47	47	36	45	35	45
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10

	PORT	STB.		none or slight	moderate	heavy	very heavy
No. OF JARS	1	1	NET CLOGGING				
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-P1604	SKQ		NMB6	74 ^{-RMS}	2016 April 25	1:23	1:50																																																								
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TIME	Min.	Sec.	PORT	STB.	TOW TYPE:	CALBOBL																																																									
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TOWING (at depth)			FINAL	162539		(Circle one)	Moderate																																																								
			INITIAL	118674			Rough																																																								
Total (ascend)			DIFF.	15:37		WIND:	knots																																																								
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AMT. OF WIRE OUT: 300 meters			OBSERVERS: CB, BMW, BVW																																																												
TOTAL NO. OF ANGLES:																																																															

ANGLES	45	46	52	46	55	40	52	50	55	45	54	46	45	50	45
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	48	53	50	55	51	58	43	50	43	41	47	35	55	29	55
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10

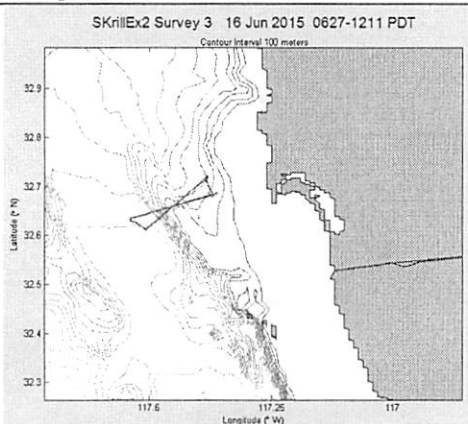
	PORT	STB.		none or slight	moderate	heavy	very heavy
No. OF JARS	1	1	NET CLOGGING				
SIZE OF JAR (Circle One)	P Q	P Q					
FORMALIN & BORATE ADDED	✓	✓	NET WASHING	none	rinsed	washed	
ALCOHOL ADDED			RIPS AND HOLES IN NET	none	location	when mended:	Before station
COLLECTORS INITS.						(Circle one)	After station

REMARKS: Freewheeled on way down
 75% in formalin
 50% frozen in N₂ cyp 5-7
 deliver containers 3
 cyps given to Brandon Stevens
 9 June 2016 CFN

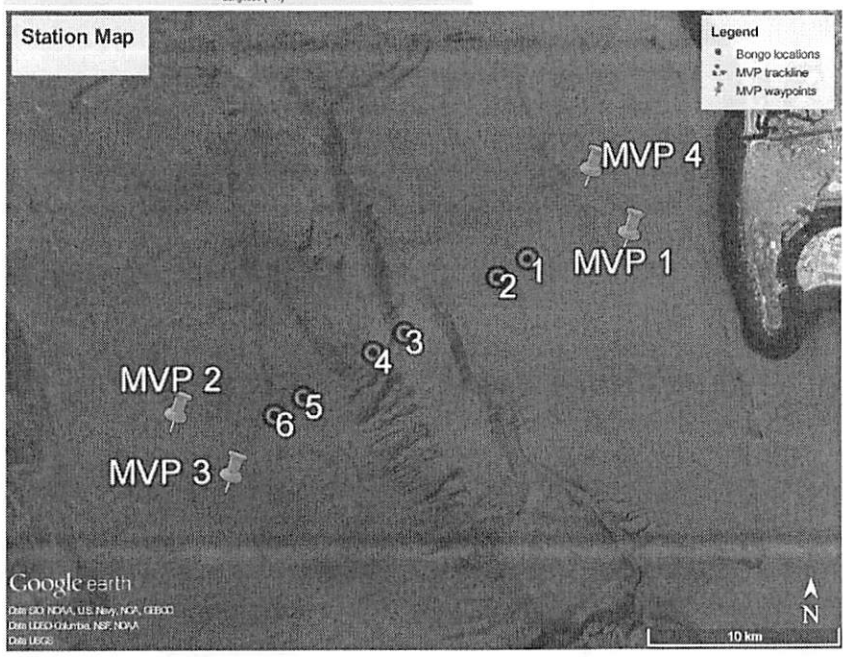
Operation	Latitude	Longitude
MVP 5 kts 30NM 1330		
MVP: 1	32.703285°	-117.325960°
MVP: 2	32.614924°	-117.583836°
MVP: 3	32.586449°	-117.552161°
MVP: 4	32.743931°	-117.337742°
Bongo Transect 2130		
Bongo Transect: Station 1, bongo to next station <i>★ 2127</i>	32.699817°	-117.379517°
Bongo Transect: Station 2 <i>2215</i> <i>2204</i>	32.690800°	-117.396550°
Bongo Transect: Station 3 <i>2315</i> <i>2300</i>	32.663533°	-117.449783°
Bongo Transect: Station 4 <i>0000</i>	32.654067°	-117.467783°
Bongo Transect: Station 5 <i>0100</i>	32.632200°	-117.507567°
Bongo Transect: Station 6 <i>0145</i> <i>★</i>	32.623717°	-117.523683°

Cat,
Caryn,
Jenni,
Laura

Cat,
Caryn,
Ben,
Brian



flowmeter's part



NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																										
						BEGIN TOW	END TOW																																									
CCE-P1604	SKQ	2	1	94-205	2016 April 28	21:35	21:59																																									
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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-P1604	SKQ	2	2	108-RWS	2016 April 29	09:41	10:09

TIME	Min.	Sec.	NET NO.	METER NO.	PORT	STB.	TOW TYPE: CALBOBL	TOW NO.	1	OF	1
SINKING (descend)	11	15					SEA (Conditions):				
TOWING (at depth)	30		FINAL	244895			(Circle one)				
			INITIAL	206295							
Total (ascend)	27	15	DIFF.				WIND:				knots
			MESH SIZE	202µm	202µm						
AMT. OF WIRE OUT:			300 meters		OBSERVERS: JAS, MDO, CR						
TOTAL NO. OF ANGLES:											

ANGLES	51	59	51	55	46	55	45	55	45	49	46	50	49	55	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	48	53	48	53	46	45	45	42	42	36	43	35	41	40	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	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: ~~Flowmeter prechecked on descent~~ - first descent - brought back on board because too narrow of an angle - had to go down at 17 m/min because of slick

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ	2	3	131- ^{2nd}	2016 April 30	09:44	10:07

TIME	Min.	Sec.	NET NO.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	8	27"	METER NO.			TOW NO. 1 OF 1
TOWING (at depth)		32"	FINAL	302177		SEA (Conditions): (Circle one) Calm Moderate Rough
			INITIAL	259851		
Total (ascend)	23	37"	DIFF.			WIND: high knots
			MESH SIZE	202	202	

AMT. OF WIRE OUT: 300 meters OBSERVERS: LEL, LB, JAB

TOTAL NO. OF ANGLES:

ANGLES	61	61	54	55	60	52	55	51	55	45	53	50	50	51	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	48	55	46	47	45	52	43	55	45	51	45	50	50	45	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10

	PORT	STB.	*keep to full speed at ~20m wire out				
No. OF JARS			NET CLOGGING	none or slight	moderate	heavy	very heavy
SIZE OF JAR (Circle One)	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:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ	2	4	NET-PWS	2016 April 30	21:29	21:52

TIME	Min.	Sec.	NET NO.	METER NO.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	6	32					TOW NO. 1 OF 1
TOWING (at depth)		31	FINAL	333780			SEA (Conditions): <u>Calm</u> (Circle one) <u>Moderate</u> Rough
Total (ascend)	22	27	INITIAL	302132			WIND: ~30 knots
AMT. OF WIRE OUT: 300 meters			DIFF.				
TOTAL NO. OF ANGLES:			MESH SIZE	202um	202um		
			OBSERVERS:				

ANGLES	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
WIRE OUT	47	49	45	48	42	52	45	52	43	45	58	45	55		

ANGLES	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
WIRE OUT	45	53	45	48	45	50	39	47	42	42	45	45	45	42	

		PORT		STB.									
No. OF JARS						NET CLOGGING	none or slight	moderate	heavy	very heavy			
SIZE OF JAR (Circle One)	P	Q	P	Q		NET WASHING	none	rinsed	washed				
FORMALIN & BORATE ADDED						RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station			
ALCOHOL ADDED										After station			
COLLECTORS INITS.													

REMARKS:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ	2	5	154	2016 May 1	09:33	09:56

TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	7	37	NET NO.		TOW NO. 1 OF 1
TOWING (at depth)		31	METER NO.		SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough
Total (ascend)	23	07	FINAL	375150	WIND: knots
			INITIAL	333778	
			DIFF.		
			MESH SIZE	202µm 202µm	

AMT. OF WIRE OUT:	300 meters	OBSERVERS:	JAB, MDO, CF
TOTAL NO. OF ANGLES:			

ANGLES	65	62	65	61	65	62	65	68	63	62	60	63			
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160

ANGLES	57	61	48	65	42	62	35	62	33	62	37	55	45	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									
COLLECTORS INITS.					RIPS AND HOLES IN NET	none	location	when mended: (Circle one)	Before station After station

REMARKS:

** ship barely moving*

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ	21 ^{tow} 6	6	169	2016 May 01	21:28	21:50

21:35:00

TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	6	31	NET NO.		TOW NO. 1 OF 1
TOWING (at depth)	0	30	METER NO.		SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough
Total (ascend)	21	50	FINAL	404229	WIND: knots
			INITIAL	93717	
			DIFF.		
			MESH SIZE	202 μm	

AMT. OF WIRE OUT: meters OBSERVERS: CAB, LEL, JAB

TOTAL NO. OF ANGLES:

ANGLES	50	46	51	46	48	45	48	42	48	42	50	40	51	38	51
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	38	53	41	50	34	50	30	53	34	49	38	49	45	46	50
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:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																						
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CCE-P1604	SKQ	J	1	195	2016 May J	09:29	09:52																																																					
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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-P1604	SKQ	J	Z	206 ^{PLWS}	2016 May 3	21028	21051								
TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL									
SINKING (descend)	8	45	NET NO.			TOW NO. 1 OF 1									
			METER NO.			SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough									
TOWING (at depth)		31	FINAL	470308											
			INITIAL	437594											
Total (ascend)	25	48	DIFF.			WIND: 10w knots									
			MESH SIZE												
AMT. OF WIRE OUT: 300 meters			OBSERVERS:												
TOTAL NO. OF ANGLES:			JAB, CATS, LEL												
ANGLES	35	39	40	38	42	38	40	42	39	43	40	45	40	45	40
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	45	35	45	35	47	38	45	39	43	45	45	40	45	42	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10
No. OF JARS		PORT		STB.		NET CLOGGING		none or slight	moderate	heavy	very heavy				
SIZE OF JAR (Circle One)	P	Q	P	Q	NET WASHING		none	rinsed	washed						
FORMALIN & BORATE ADDED					RIPS AND HOLES IN NET		none	location	when mended: (Circle one)	Before station					
ALCOHOL ADDED									After station						
COLLECTORS INITS.															
REMARKS:															

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ	3	3	219	2016 May 4	09:28	09:52

TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	9	20	NET NO.		TOW NO. 1 OF 1
TOWING (at depth)		30	METER NO.		SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough
Total (ascend)	24	26	FINAL	504785	WIND: 10 knots
			INITIAL	470306	
			DIFF.		
			MESH SIZE	202	202

AMT. OF WIRE OUT:	300 meters	OBSERVERS:	JKB, CAT
TOTAL NO. OF ANGLES:			

ANGLES	45	41	45	44	45	45	45	45	45	45	45	45	45	45	45
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160

ANGLES	45	45	49	48	45	47	49	45	55	50	45	52	39		
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

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ	J	4	231	2016 May 4	21:29	21:51

TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	6	39	"	NET NO.		TOW NO. 1 OF 1
TOWING (at depth)		30	"	METER NO.		SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough
Total (ascend)	21	41	"	FINAL	504214	WIND: <u>00</u> knots
				INITIAL	504786	
				DIFF.		
				MESH SIZE		

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

ANGLES	49	52	52	50	49	52	51	49	50	45	48	45	50		
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160

ANGLES	45	49	44	46	40	45	45	45	40	43	35	38	35	40	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10

	PORT		STB.			none or slight	moderate	heavy	very heavy
No. OF JARS					NET CLOGGING				
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-P1604	SKQ	3	5	246-RWS	2016 May 5	09:54	10:19

TIME	Min.	Sec.	NET NO.	METER NO.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	9	18					TOW NO. 1 OF 1
TOWING (at depth)		30	FINAL	573087			SEA (Conditions): <u>Calm</u> Moderate Rough
Total (ascend)	24	26	INITIAL	539226			WIND: <u>very</u> knots
			DIFF.				
			MESH SIZE	202		202	

AMT. OF WIRE OUT:	300 meters	OBSERVERS:	JAB, LAB
TOTAL NO. OF ANGLES:			

ANGLES	45	45	45	50	47	48	47	45	45	50	45	45	45	50	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160
ANGLES	48	47	50	45	52	45		41	52	40	45	35	46	30	
WIRE OUT	150	140	130	120	110	100	90	80	70	60	50	40	30	20	10

	PORT		STB.						
No. OF JARS					NET CLOGGING	none or slight	moderate	heavy	very heavy
SIZE OF JAR (Circle One)	P	Q	P	Q	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:

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																												
						BEGIN TOW	END TOW																																																											
CCE-P1604	SKQ	3	6	261	2016 May 5	21:28	21:53																																																											
<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>TOW TYPE: CALBOBL</th> </tr> </thead> <tbody> <tr> <td>SINKING (descend)</td> <td>8</td> <td>39</td> <td>METER NO.</td> <td></td> <td rowspan="4" style="text-align:center; vertical-align:middle;">X</td> <td>TOW NO. 1 OF 1</td> </tr> <tr> <td>TOWING (at depth)</td> <td></td> <td>30</td> <td>FINAL</td> <td>657801</td> <td>SEA (Conditions): <u>Calm</u> ish</td> </tr> <tr> <td>Total (ascend)</td> <td>14</td> <td>47</td> <td>INITIAL</td> <td>573095</td> <td>(Circle one) Moderate</td> </tr> <tr> <td></td> <td></td> <td></td> <td>DIFF.</td> <td></td> <td>Rough</td> </tr> <tr> <td></td> <td></td> <td></td> <td>MESH SIZE</td> <td></td> <td></td> <td>WIND: 5.31 knots</td> </tr> </tbody> </table>								TIME	Min.	Sec.	NET NO.	PORT	STB.	TOW TYPE: CALBOBL	SINKING (descend)	8	39	METER NO.		X	TOW NO. 1 OF 1	TOWING (at depth)		30	FINAL	657801	SEA (Conditions): <u>Calm</u> ish	Total (ascend)	14	47	INITIAL	573095	(Circle one) Moderate				DIFF.		Rough				MESH SIZE			WIND: 5.31 knots																				
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AMT. OF WIRE OUT: 300 mwo meters				OBSERVERS: BVW, LEL, CAB																																																														
TOTAL NO. OF ANGLES:																																																																		
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REMARKS:																																																																		

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ	4	1	293 ^{21x4}	2016 ^{May} April 7	9:03	9:54

TIME	Min.	Sec.	NET NO.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	8	00	METER NO.			TOW NO. 1 OF 1
TOWING (at depth)		32	FINAL	263407R	RWS	SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough
Total (ascend)	23	26	INITIAL	293744		WIND: 2 knots
			DIFF.			
			MESH SIZE			

AMT. OF WIRE OUT:	meters	OBSERVERS:	JAB, CAB
TOTAL NO. OF ANGLES:			

ANGLES	42	51	38	36	54	35	54	32	29	55	29	54			
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160

ANGLES	29	53	35	55	45	52	42	45	55	45	55	40	42		
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: 2 red crabs "port" side - (frozen)
5 red crabs "stbd" side - (stbd.)

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ	4	2	309 ^{RWS}	2016 May 7	21:25	21:50

TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	9	05	NET NO.		TOW NO. 1 OF 1
TOWING (at depth)	31		METER NO.		SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough
Total (ascend)	24	22	FINAL	669189	WIND: <u>No</u> knots
			INITIAL	637188	
			DIFF.		
			MESH SIZE	202	202
AMT. OF WIRE OUT: 300 meters			OBSERVERS: JAB, CAB, LEL		
TOTAL NO. OF ANGLES:					

ANGLES	46	48	45	45	43	46	42	45	43	45	40	44	42	45	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160

ANGLES	42	45	41	42	40	47	45	40	45	42	45	38	48	35	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	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: total red crabs: 1 on Port side
0 on Starboard side

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)	
						BEGIN TOW	END TOW
CCE-P1604	SKQ	4	3	322	2016 May 8	09:31	09:53

TIME	Min.	Sec.	PORT	STB.	TOW TYPE: CALBOBL
SINKING (descend)	7	41	NET NO.		TOW NO. 1 OF 1
TOWING (at depth)		31	METER NO.		SEA (Conditions): <u>Calm</u> (Circle one) Moderate Rough
Total (ascend)	22	27	FINAL	708991	WIND: <u>NO</u> knots
			INITIAL	669207	
			DIFF.		
			MESH SIZE	202	202

AMT. OF WIRE OUT:	300 meters	OBSERVERS:	JAB, CATS
TOTAL NO. OF ANGLES:			

ANGLES	54	48	51	55	46	50	50	48	51	48	52	48	53	45	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	190	170	160

ANGLES	52	45	50	45	51	43	48	43	45	43	45	40	40	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	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: total red crabs: 1, preserved side

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																					
						BEGIN TOW	END TOW																																																				
CCE-P1604	SKQ	4	4	334 - RWS	2016 May 8	21:29	21:52																																																				
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TIME	Min.	Sec.		PORT	STB.	TOW TYPE: CALBOBL																																																					
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AMT. OF WIRE OUT: 300 meters			OBSERVERS: JAB, CAB, LEL																																																								
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COLLECTORS INITS.						(Circle one)		After station																																																			
REMARKS: No red crabs - port side (size-front.) 2 red crabs - starboard side (preserved)																																																											

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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-P1604	SKQ	4	5	347	2016 May 9	9:27	9:49

TIME	Min.	Sec.	NET NO.	METER NO.	PORT	STB.	TOW TYPE: CALBOBL	TOW NO.	1 OF
SINKING (descend)	7	00					SEA (Conditions): <u>Calm</u>		
TOWING (at depth)		30	FINAL	776709			(Circle one) Moderate		
			INITIAL	741793			Rough		
Total (ascend)	21	34	DIFF.				WIND: low knots		
AMT. OF WIRE OUT: 300 meters			OBSERVERS: JAB, LAB						
TOTAL NO. OF ANGLES:									

ANGLES	52	57	52	55	51	55	55	53	50	52	52	57	51	54	
WIRE OUT	300	290	280	270	260	250	240	230	220	210	200	190	180	170	160
ANGLES	50	55	48	55	45	51	43	45	42	45	40	42	37	36	35
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: port - no red crabs
stbd - no red crabs.

NET TOW DATA SHEET

CRUISE	SHIP	CYCLE	ORDER OCCUPIED	EVENT # (Deployed)	DATE YR MO DY	HOUR (PDT)																																																																										
						BEGIN TOW	END TOW																																																																									
CCE-P1604	SKQ	4	6	357	2016 May 9	21:27	21:50																																																																									
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