

Bottle #		Cruise	CAST TIME/DATE LOCAL					Depth to Bottom (m)	Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG				
			Year	Month	Day	Hour	Minute		Degree	Minute	Degree	Minute	Observers:				
		SKQ2021-15S	2021	11	8	13	04	49.8	67	40.598	168	108	56.93	SD	AS = 2		
		Ship	CAST TIME/DATE GMT					Consecutive Station Number	Station Name				-0.5 °C @ Surface				
		R/V Sikuliaq	2021	11	8	22	04		001	DB03.8				+0.5 °C @ Depth			
		Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.								Depth Of		Comments:				
		Target Trip Depth (m)	Nuts	Chl-A	SF Chl-A	FCM	DIC	eDNA	Domoic Acid	HABS WC	$^{18}\text{O}/^{16}\text{O}$	Bottom Nuts	Chl-a Max	MLD			
		1	46	46.2											FOR JACKIE		
		2	46	46.3											FOR JACKIE		
		3	46	46.1	X1				X								
		4	46	46.0					E1053	X	X						
		5	46	46.0		X						X	X		+ phytoplankton @ chl-a depths for Jackie		
		6	40	40.4	X2				X								
		7	40	40.6													
		8	40	40.6		X											
		9	30	30.5	X3			X									
		10	30	30.5					E1054	X	X						
		11	30	30.5		X	X	(X)									
		12	20	20.5	X4			X									
		13	20	20.5													
		14	20	20.5		X											
		15	10	10.3	X5			X					X				
		16	10	10.3					E1055	X	X		X				
		17	10	10.3		X	(X)	(X)					X				
		18	0	2.0	X6			X									
		19	0	2.1						X	X						
		20	0	2.1		X					X						
		21															
		22															
		23															
		24															

MLD C 22m
FCM NOT PUT IN REFLT FOR 2 HR SOAK

Bottle #		Cruise		CAST TIME/DATE LOCAL					Depth to Bottom (m)		Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG							
				Year	Month	Day	Hour	Minute			Degree	Minute	Degree	Minute								
		SKQ2021-15S		2021	11	09	17	39	53.2		71	11.589	160	15.884								
		Ship		CAST TIME/DATE GMT					Consecutive Station Number					Station Name								
		R/V Sikuliaq		2021	11	10	2	39	002					DBO 4.1								
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.												Depth Of						
1		BOT	49.4	X7					X													
2		BOT	49.1							E1056												
3		BOT	49.3		X	X	X		X		X	X	X	X								
4		40	40.4	X8					X													
5		40	40.4																			
6		40	40.4		X	X	X															
7		30	30.1	X9					X													
8		30	30.2							E1057												
9		30	30.2		X	X	X															
10		20	20.3	X10					X													
11		20	20.4								X	X										
12		20	20.2		X	X	X															
13		10	10.6	X11					X													
14		10	9.9							E1058												
15		10	10.0		X	X	X				X	X										
16		0	2.2	X12					X													
17		0	2.2								X	X										
18		0	2.2		X	X	X				X											
19																						
20																						
21																						
22																						
23																						
24																						

Observers:

@ BOTTOM FT↓, S↑

SD

Comments:

Bottle #		Cruise		CAST TIME/DATE LOCAL					Depth to Bottom (m)		Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG					
				Year	Month	Day	Hour	Minute			Degree	Minute	Degree	Minute						
		SKQ2021-15S		2021	11	10	1	26	47.0		81	35.34	-161	24.35						
		Ship		CAST TIME/DATE GMT					Consecutive Station Number				Station Name							
		R/V Sikuliaq		2021	11	10	10	26	005				DB04.4							
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.										Depth Of						
		Nuts	Chl-A	SF Chl-A	FCM	DIC	eDNA	Domoic Acid	HABS WC	$^{18}\text{O}/^{16}\text{O}$	Bottom Nuts			Chl-a Max	MLD	Comments:				
1		130	52				X													
2		130	43.3																	
3		130	43.8	X				E1065			X X									
4		30	30.3	53			X													
5		30	30.4					E1066												
6		30	30.3	X						X X										
7		20	20.5	54			X													
8		20	20.5																	
9		20	20.5	X																
10		10	10.3	55			X													
11		10	10.3					E1067												
12		10	10.3	X X X					X X											
13		0	2.1	56			X													
14		0	2.1							X X										
15		0	2.1	X						X										
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				

Observers:

SD

Subsurface

t-max

Bottle #		Cruise	CAST TIME/DATE LOCAL					Depth to Bottom (m)	Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG						
			Year	Month	Day	Hour	Minute		Degree	Minute	Degree	Minute	Observers:						
		SKQ2021-15S	2021	11	10	3	18	46	71	35.45	161	31.49	SD						
		Ship	CAST TIME/DATE GMT					Consecutive Station Number	Station Name										
		R/V Sikuliaq	Year	Month	Day	Hour	Minute		006	CEO									
	Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.										Depth Of						
1	BOT	42.3	58					✓								Comments:			
2	BOT	42.3							E1068										
3	BOT	42.3		X															
4	34	34.5	59					✓											
5	34	34.5																	
6	34	34.5		X															
7	30	30.2	60					✓											
8	30	27.2						E1069											
9	30	30.2		X					X X										
10	20	20.1	61					✓											
11	20	20.1																	
12	20	20.1		X															
13	10	10.2	62					✓											
14	10	10.2						E1070											
15	10	10.2		X X X					X X										
16	0	2.4	63					✓											
17	0	2.4							X X										
18	0	2.4		X															
19																			
20																			
21																			
22																			
23																			
24																			

Bottle #		Cruise		CAST TIME/DATE LOCAL					Depth to Bottom (m)		Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG			
				Year	Month	Day	Hour	Minute			Degree	Minute	Degree	Minute				
		SKQ2021-15S		2021	11	10	20	10	44		71		164					
		Ship		CAST TIME/DATE GMT					Consecutive Station Number			Station Name						
		R/V Sikuliaq		2021	11	11	5	10	009			C2						
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.										Depth Of				
		Nuts	Chl-A	SF Chl-A	FCM	DIC	eDNA	Domoic Acid	HABS WC	$^{18}\text{O}/^{16}\text{O}$	Bottom Nuts			Chl-a Max	MLD	Comments:		
1	BOT	40.3	74				X											
2	BOT	40.3						E1077										
3	BOT	40.3		X	X	X				X	X	X	X					
4	30	30.4	75				X											
5	30	30.4						E1078										
6	30	30.4		X	X	X				X	X							
7	20	20.2	76				X											
8	20	20.2																
9	20	20.2		X	X	X												
10	10	10.2	77				X											
11	10	10.2						E1079										
12	10	10.2		X	X	X				X	X							
13	0	2.2	78				X											
14	0	2.3								X	X							
15	0	2.2		X	X	X												
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

MOORING C2 CAL
42 for cal CAST

Bottle #		Cruise	CAST TIME/DATE LOCAL					Depth to Bottom (m)	Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG		
			Year	Month	Day	Hour	Minute		Degree	Minute	Degree	Minute	Observers:		
SKQ2021-15S		Ship	2021	11	11	19		47.1	68	11.29	167	17.687	SD		
			Year	Month	Day	Hour	Minute	Consecutive Station Number		Station Name					
R/V Sikuliaq			2021	11	12	4		012	DBO 303						
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.								Depth Of			
1		30T	43.1		X			X			X		Chi-a Max	MLD	Comments:
2		30T	43.2					E1085							
3		30T	43.2						X	X					
4		30.	30.1		X			X							
5		30	30.1					E1086							
6		30	30.4						X	X					
7		20	20.2		X			X							
8		20	20.2												
9		20	20.2						X	X					
10		10	10.0		X			X							
11		10	10.0					E1087							
12		10	10.0						X	X					
13		0	1.6					X			X				
14		0	1.6												
15		0	1.7						X	X					
16															
17															
18															
19															
20															
21															
22															
23															
24															

FRAZIR ICE IN UW/C? → see photos of today

FISH IN Lava WC

Dense scattering layer @ pycnocline

Bottle #		Cruise	CAST TIME/DATE LOCAL					Depth to Bottom (m)	Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG				
			Year	Month	Day	Hour	Minute		Degree	Minute	Degree	Minute	Observers:				
		SKQ2021-15S		2021	11	12	6	39	49	67	66.97	168	35.698	SD			
		Ship		CAST TIME/DATE GMT					Consecutive Station Number			Station Name					
		R/V Sikuliaq		2021	11	12	15	39	017			DB03.7					
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.										Depth Of					
		Nuts	Chl-A	SF Chl-A	FCM	DIC	eDNA	Domoic Acid	HABS WC	$^{18}\text{O}/^{16}\text{O}$	Bottom Nuts	Chi-a Max	MLD	Comments:			
1	30T	45.1	/11				X										
2	30T	45.1															
3	30T	45.1	X								X X						
4	30T	45.1					E109										
5	40	50.5	112			X											
6	40	40.5															
7	40	40.5	X														
8	40	40.5															
9	30	50.4	113			X											
10	30	30.4									X						
11	30	30.4	X														
12	30	30.4					E1098										
13	20	20.4	114			X											
14	20	20.4															
15	20	20.4	X														
16	20	20.4															
17	10	10.3	115			X											
18	10	10.3									X						
19	10	10.3	X	X	X			X									
20	10	10.3					E1099										
21	0	2.1	116			X											
22	0	3.1									X						
23	0	2.1		X							X						
24	0	2.1															

Bottle #		Cruise		CAST TIME/DATE LOCAL					Depth to Bottom (m)		Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG				
		Year	Month	Day	Hour	Minute	Degree	Minute	Degree	Minute	Observers:								
		SKQ2021-15S	2021	11	14	13	19	66	62	28.1	179	51.08	SD						
		Ship		CAST TIME/DATE GMT					Consecutive Station Number			Station Name							
		R/V Sikuliaq		2021	11	14	22	19	23	DB01.5									
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.										Depth Of					
				Nuts	Chl-A	SF Chl-A	FCM	DIC	eDNA	Domoic Acid	HMBS WC	180 160	BOT NUT	Chi-a Max	MLD	Comments:			
1		Bot	62.7	154				X											
2		Bot	62.7																
3		Bot	62.6						E115		X	X							
4		40	50.7	155				X											
5		40	50.9																
6		50	50.9																
7		40	40.4	156				X											
8		40	40.2																
9		40	40.5																
10		30	30.0	157				X											
11		30	29.7						X										
12		30	29.5						E116		X								
13		20	20.2	158				X											
14		20	20.5																
15		20	19.9																
16		10	10.0	159				X											
17		10	10.0						X										
18		10	9.8					X	+ E117		X								
19		0	3.5	160				X											
20		0	3.6							X									
21		0	3.4							X	X								
22																			
23																			
24																			

Bottle #		Cruise	CAST TIME/DATE LOCAL					Depth to Bottom (m)	Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG				
			Year	Month	Day	Hour	Minute		Degree	Minute	Degree	Minute	Observers:				
			SKQ2021-15S		2021	11	14	15	66	62	33.63	173	33.027	SD			
			Ship		CAST TIME/DATE GMT				Consecutive Station Number		Station Name						
R/V Sikuliaq		2021		11	15	00		24	DBO16								
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.										Depth Of					
		Nuts	Chl-A	SF Chl-A	FCM	DIC	eDNA	Domoic Acid	HAB	50'8	Bot M	Chl-a Max	MLD	Comments:			
1	Bottom	61.0	161			X											
2	Bottom	61.6							X								
3	Bottom	60.2		X			E118	X		X	X						
4	50	51.0	162			X											
5	50	50.7															
6	50	50.9		X													
7	40	41.0	163			X											
8	40	40.8															
9	40	40.8		X													
10	30	30.1	164			X											
11	30	30.4							X								
12	30	30.6		X			E119	X									
13	20	19.9	165			X											
14	20	20.4															
15	20	21.1		X													
16	10	10.7	166			X											
17	10	10.7				X				X							
18	10	10.9		X X	X		E1120	X									
19	0	4.0	167			X											
20	0	3.5							X								
21	0	3.8							X		X						
22																	
23																	
24																	

