

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	Operator:	SD, SS					
		SKQ2023-23S		2023	09	14	5	17	73	62	11.70	174	40.40	Comments:					
		Ship		CAST TIME/DATE GMT					Consecutive Station Number			Station Name							
		R/V Sikuliaq		2023	09	14	13	16	001			M8 MOORINGS							
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																	
		DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto Lugols	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	Bottom Water	N2 cycling			
1	B	67.7							/	/	/	/	/	174					
2	B	67.4		/															
3	B	67		/															
4		67																	
5		67																	
6	55	55.8																	
7	50	49.9	/																
8	50	50.2		/	/	/	/												
9	40	40.6	/			/	/												
10	40	40.6		/	/	/	/												
11	30	30.4	/			/	/												
12	30	30.4		/	/	/	/												
13	30	30.4																	
14	CHL	25.4			/	/	/												
15	20	20.5	/			/	/												
16	20	20.5		/		/	/												
17	10	10.3	/																
18	10	10.2		/															
19	10	10.0			/	/	/												
20	0	1.2	/																
21	0	1.2																	
22	0	1.1																	
23	0	1.1																	
24																			

30, 20, (25)

Bottle #		Cruise	CAST TIME/DATE LOCAL					Depth to Bottom (m)	Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG						
		SKQ2023-23S	Year	Month	Day	Hour	Minute	49.2	Degree	Minute	Degree	Minute	Operator:	SD					
		Ship	CAST TIME/DATE GMT					Consecutive Station Number			Station Name			Comments:					
		R/V Sikuliaq	Year	Month	Day	Hour	Minute	002			DBO 1.1								
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.												N2 cycling	NTS	A85	Phyto ID		
		DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto Lugols	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	Bottom Water				
		1	3	24.2	X		X												
		2	3	24.2			X										X		
		3	3	24.2													X		
		4	50	50.2			X										X		
		5	50	50.4	X			X									X		
		6	40	40.9			X										X		
		7	40	40.6			X										X		
		8	30	30.9			X										X		
		9	30	30.7			X										X		
		10	30	30.4															
		11	CTRL	27.9			X			X	X	X							
		12	20	20.4			X										X		
		13	20	20.4			X										X		
		14	10	10.3			X			X							X		
		15	10	10.3			X										X		
		16	10	10.6															
		17	0	2.3			X												
		18	0	2.2	X		X			X							X		
		19	0	2						X									
		20	0	2						X									
		21	0	2			X												
		22																	
		23					X												
		24																	

25 mils lost formula

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				
		SKQ2023-12S		2023	09	17	22	53	48	64	40.35	150	151.78				
		Ship		CAST TIME/DATE GMT					Consecutive Station Number			Station Name					
		R/V Sikuliaq		2023	09	17	6	53	013			DB02.0a					
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.													
DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absor-ption	
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Operator: SS

Comments:

Dry cast

127

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)

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	Operator:	SS	Comments:					
	SKQ2023-12S	2023	09	20	20	58	124	71	24.542	157	29.663								
	Ship	CAST TIME/DATE GMT					Consecutive Station Number					Station Name							
	R/V Sikuliaq	2023	09	21	04	58	029	DBO 5.5											
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																	
		DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption	
1	B	120.2		X						X	X								
2	B	119.9		X			X												
3	B	120.0																	
4	100	101.3		X				X											
5	100	101.4																	
6	75	75.7																	
7	50	51.0		X				X											
8	50	50.7			X					X									
9	40	41.2		X				X											
10	40	41.3			X					X									
11	CHL	25.8				X				X	X	X	X						
12	30	30.7		X			X												
13	30	30.3			X														
14	30	30.4																	
15	20	20.5		X			X												
16	20	20.6			X														
17	10	10.1		X			X												
18	10	10.1			X					X	X								
19	10	10.3																	
20	0	3.6			X														
21	0	3.5			X														
22	0	3.3	332			X													
23	0	3.4		X															
24																			

55

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	Operator:	SS								
		SKQ2023-12S	2023	09	20	23	25	109	71	27.309	157	35.465	Comments:									
		Ship	CAST TIME/DATE GMT					Consecutive Station Number			Station Name											
			Year	Month	Day	Hour	Minute															
		R/V Sikuliaq	2023	09	21	07	25	030			DBO 5.6											
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																		
				DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption		
1	B	104.8				/						X	X									
2	B	104.7					X															
3	B	104.6	353									35										
4	75	74.5																				
5	50	50.7				X						X										
6	50	50.8				283						36										
7	40	40.7				X						X										
8	40	40.8				X		285				37										
9	30	30.3				X						X										
10	30	30.5						285				38										
11	30	30.7										X										
12	20	20.0				X																
13	20	19.0				283						39										
14	18	18.2		X																		
15	CHL	15.4				X						X										
16	10	10.1				X						X										
17	10	10.3						279				40										
18	10	10.4										X										
19	10	10.5				X																
20	0	4.1				X						X										
21	0	3.9				283						41			X							
22	0	3.8																				
23	0	4.0				X						X										
24																						

10
20
40

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	Operator:								
		SKQ2023-12S	2023	09	21	1	11	81	71	29.94	157	40.36	SJ								
		Ship	CAST TIME/DATE GMT					Consecutive Station Number					Station Name								
		R/V Sikuliaq	2023	09	21	9	41	031		DB05.7											
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																	
1		B	76.6											N2 cycling	Bottom Water	Absorption					
2		B	76.3															LEAK PCO2 OPEN			
3		B	76.1																		
4		50	51.1																		
5		50	51.2																		
6		44.1	44.1																		
7		40	40.4																		
8		40	40.3																		
9		30	30.4																		
10		30	30.1																		
11		30	30.6																		
12		20	19.3																		
13		20	20.2																		
14		20	20.1																		
15		10	10.0															Small leak w/ vent closed			
16		10	10.0															Antibio filter seawater			
17		10	9.9																		
18		0	3.1																		
19		0	3.6																		
20		0	3.5	331																	
21		0	3.3																		
22																					
23																					
24																					

Small leak w/ vent closed
Antibio filter seawater

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	Comments:							
		SKQ2023-12S		2023	09	22	6	03	990	72	27.92	156	32.97					
		Ship		CAST TIME/DATE GMT					Consecutive Station Number		Station Name							
		R/V Sikuliaq		2023	09	22	14	08	036		CK9							
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																
		DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption
1	3	993.3		X					77	X				X				
2	3	993.5	31.5															
3	900	911.3	323						78									
4	800	808.8	291						79									
5	700	709.2	333						80									
6	600	606.6	319						81									
7	500	505.6	341						82	X								
8	400	404.8	318						83									
9	300	303.4	359						84									
10	250	252.2	342						85									
11	200	202.0	31d0	X					86									
12	175	176.7							87									
13	150	152.2		X					88									
14	125	126.4							89									
15	100	100.8		X					90	X								
16	75	75.2							91									
17	50	50.3		X	283				92									
18	40	40.5			283				93									
19	30	30.5			283				94	X								
20	25m	26.1																
21	20	20.9			283	X	X		95									
22	10	10.3	31.5			283			96	X								
23	0	2.6				283			97									
24	0	1.3		X														

8, 500, 100, 30, 10 - 1.5

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	Operator:	SS	Comments:			
Ship	SKQ2023-12S	2023	09	22	23	57	54	71	11.549	160	15.945						
	R/V Sikuliaq	2023	09	23	07	57	037	DBO 4.1n									
	Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.										N2 cycling	Bottom Water	Absorption		
1	B	49.2															
2	B	49.5															
3	B	49.5	367														
4	40	40.4															
5	40	40.3															
6	30	30.1															
7	30	30.1															
8	30	30.2															
9	20	20.4															
10	20	20.5															
11	CHL	18.4															
12	CHL	18.2															
13	13	13.3															
14	10	10.3															
15	10	10.5															
16	10	10.3															
17	0	2.3															
18	0	2.5															
19	0	1.4															
20	0	2.2															
21																	
22																	
23																	
24																	

18

13

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							
		SKQ2023-12S	2023	09	23	03	53	48	71	11.3	160	39.04							
		Ship	CAST TIME/DATE GMT					Consecutive Station Number						Station Name					
		R/V Sikuliaq	2023	09	23	11	50	039						DB04.2n					
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.															
1		B	43.2							X									
2		B	43.4						X								X		
3		B	43.2	371				283		X							X		
4		B	43.2															X	
5		B	43.3																
6		40	40.6																
7		40	40.9					283		8									
8		30	30.6							X									
9		30	30.6					283		9									
10		30	30.4							X							X		
11		30	30.5							X							X		
12		20	20.3					1		X									
13		20	20.1					283		10									
14		20	20.3															X	
15		5cm	20.3							X									
16		10	10.1							X									
17		10	10.1					279		W									
18		10	10.4							X									
19		0	2.8							X								X	
20		0	2.8					288		12									
21		0	2.11															X	
22		0	2.9															X	
23		0	2.9																
24																			

Stuart wants water here

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	Operator: SD Comments:									
			SK02023-12S	2023	09	23	20		47	71	27.221	161										
			Ship	CAST TIME/DATE GMT					Consecutive Station Number			Station Name										
			R/V Sikuliaq	Year	Month	Day	Hour	Minute	042			DB04.3n										
			Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																		
			DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption			
1	B	42.1			X						X											
2	B	42.1			X				X													
3	B	42.1				X				13												
4	30	30.6			X				X													
5	30	30.6				X				X												
6	30	30.6																				
7	30	30.4		X																		
8	SCM	22.4				X																
9	20	20.3			X		X															
10	20	20.4				X				X												
11	20	20.4																				
12	15	15.2		X																		
13	10	10.4			X			X														
14	10	10.4				X				X												
15	10	10.5					X															
16	0	2.1			X				X													
17	0	2.0				X				X												
18	0	2.0		X			X															
19	0	2.2	332																			
20	0	2.3		X																		
21																						
22																						
23																						
24																						

30
15
0

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	Operator:	SS	Comments:		
		SKQ2023-12S		2023	09	24	00	11	47	71	35.184	161	23.687				
		Ship	CAST TIME/DATE GMT					Consecutive Station Number	Station Name								
		R/V Sikuliaq	Year	Month	Day	Hour	Minute		DBO 4,4n								
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.													
		1	B	42.4										N2 cycling	Bottom Water	Absorption	
		2	B	42.4													
		3	B	42.4	3553												X
4	B	42.3															X
5	B	42.4															
6	30	30.2															
7	30	30.4															
8	30	30.4															
9	30	30.4															
10	CHL	25.5															
11	20	20.6															
12	20	20.6															
13	10	10.2															
14	10	10.2															
15	10	10.0															
16	0	2.2															
17	0	2.3															
18	0	2.2															
19	0	2.4															
20																	
21																	
22																	
23																	
24																	

DIC bottle broken - No sample

Jackie

Bottle #		Cruise SKQ2023-12S	CAST TIME/DATE LOCAL					Depth to Bottom (m)	Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG							
			Year 2023	Month 09	Day 24	Hour 22	Minute		Degree 41	Minute 71	Degree 51.003	Minute 162	Degree 9.410	Minute	Operator: SS	Comments:				
			Ship R/V Sikuliaq	CAST TIME/DATE GMT					Consecutive Station Number		Station Name									
				Year 2023	Month 09	Day 25	Hour 06	Minute	049		DBO 4.6n									
Target Trip Depth (m)		Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																	
DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phylo ID	Nuts	edDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorp- tion				
1	B	36.2	373	X																
2	B	36.3		X	X			X	24											
3	B	36.3		X														Jackie		
4	30	30.7		X				X												
5	30	30.7		X			X													
6	30	30.6		X			X													
7	30	30.7	X																	
8	20	20.5		X			X													
9	20	20.5			X				36											
10	CHL	15.5	X		X		X			X	X	X								
11	10	10.3		X			X													
12	10	10.4		X			X													
13	10	10.4	X							X										
14	0	3.0		X			X													
15	0	2.8		X			X													
16	0	2.8		-						X										
17	0	2.9	X																	
18																				
19																				
20																				
21																				
22																				
23																				
24																				

30
15
10

Bottle #		Cruise	CAST TIME/DATE LOCAL					Depth to Bottom (m)	Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG									
		SKQ2023-12S	Year	Month	Day	Hour	Minute	38	Degree	Minute	Degree	Minute	Operator: SD Comments:									
		Ship	CAST TIME/DATE GMT					Consecutive Station Number		Station Name												
		R/V Sikuliaq	Year	Month	Day	Hour	Minute	050	1C1													
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																				
		DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption				
		1	34.2		X					X												
		2	34.2		X					X												
		3	34.2	37.6		285			T													
		4	34.2																			
		5	20	22.1		X		X														
		6	20	22.0		283			Z													
		7	20	22.0																		
		8	10	10.3		X		X														
		9	10	10.3		279			Z													
		10	10	10.3				X														
		11	10	10.3																		
		12	8	2.7		X											DID NOT SEAL					
		13	8	2.8		283	X		4													
		14	8	2.8						X												
		15	0	2.8		X	X										DIC may not be good					
		16																				
		17																				
		18																				
		19																				
		20																				
		21																				
		22																				
		23																				
		24																				

CH2

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	Operator:	SD	Comments:		
		SKQ2023-12S	2023	09	26	11	03	42	40	43.03	162	51.30					
		Ship	CAST TIME/DATE GMT					Consecutive Station Number					Station Name				
		R/V Sikuliaq	2023	09	26	19	03	051	IC10								
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.															
		DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water
1	B	37.1		X						X							
2	B	37.2		X													
3	B	37		288					5							X	
4	B	37														X	
5	30	30.6		X												X	
6	30	30.6		285					16								
7	30	30.6														X	
8	30	30.3		X													
9	20	20.4		285					7								
10	20	20.3															
11	CHL	17.3			X					X	X	X	X				
12	10	10.4		X													
13	18	10.3		289					8								
14	18	10.4								X	X	X					
15	5	2.5		X													
16	0	2.1	326		-283				9							/	
17	0	2.0		X		X				X						/	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

CHL

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	Operator:	SD					
		SKQ2023-12S		2023	09	26	8	22	45	70	59.23	163	33.991	Comments:					
		Ship		CAST TIME/DATE GMT					Consecutive Station Number		Station Name								
		R/V Sikuliaq		2023	09	27	22	22	054		IC8								
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.												N2 cycling	Bottom Water	Absorption	
				DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N		
1		B	40.2			X													
2		B	40.1			X	X												
3		B	40.3	367															
4		30	32.6			X													
5		30	30.6				X												
6		30	30.6																
7		20	29.7																
8		20	20.6			X													
9		20	20.6				X												
10		20	20.6																
11		10	10.5			X													
12		10	10.5				X												
13		10	10.4																
14		0	2.3			X													
15		0	2.3				X	X											
16		0	2.5			X	-												
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

5cm

Bottle #		Cruise SKQ2023-12S	CAST TIME/DATE LOCAL					Depth to Bottom (m)	Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG						
			Year 2023	Month 09	Day 27	Hour 03	Minute 36		Degree 42	Minute 71	Degree 26.894	Minute 164	Degree 54.958	Minute 55	Operator: Comments:				
			Ship R/V Sikuliaq		CAST TIME/DATE GMT					Consecutive Station Number		Station Name							
			Year 2023	Month 09	Day 27	Hour 11	Minute 36	058		1C4									
Target Trip Depth (m)		Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																
1	B	37.1	DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	edDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absor-ption
2	B	37.2			X														
3	B	37.1	365		283		38										X		
4	B	37.1															X		
5	30	30.5		X															
6	30	30.4			283		39										X		
7	30	30.4															X		
8	20	20.3		X															
9	20	20.1			283		40												
10	10	10.3			X														
11	10	10.3			283		41												
12	10	10.3																	
13	0	2.5		X															
14	0	2.5	368		283		42										X		
15	0	2.4															X		
16	0	2.5			-												X		
17																			
18																			
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	Operator:	SD							
		SKQ2023-12S		2023	09	27	14	05	42	71	36.06	112.5	18.26	Comments:							
		Ship		CAST TIME/DATE GMT					Consecutive Station Number		Station Name										
		R/V Sikuliaq		2023	09	27	22	05	60		JC3										
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																	
				DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	edDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption	
1	B	37.3																			
2	B	32.1																			
3	B	37.3																			
4	30	30.5				X															
5	30	30.4				X															
6	30	30.6																			
7	CPL	26.5																			
8	20	20.5				X															
9	20	20.5																			
10	20	20.4																			
11	10	10.1				X															
12	10	10.0				X															
13	10	10.1																			
14	0	2.5																			
15	0	2.6	295																		
16	0	2.6																			
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					

Vents were open 1st 3 bottles

No Sample Taken

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	Operator:	SD						
		SKQ2023-12S	2023	09	27	17	23	48	71	42.33	165	36.381	Comments:							
		Ship	CAST TIME/DATE GMT					Consecutive Station Number				Station Name								
		R/V Sikuliaq	2023	09	28	01	23	062	IC2											
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																		
		DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption		
1	3	36.2	276	/	X															
2	3	36.2			X														DIC indicates	
3	3	36.2			X															
4	3	36.2																		
5	30	30.5																		
6	30	30.5																		
7	30	30.5																		
8	C46	23.5																		
9	20	20.4			X															
10	20	20.4			X															
11	20	20.4																		
12	16	1012			X															
13	10	10.3			X															
14	10	10.2																		
15	0	2.9			X														DIC duplicates	
16	0	2.6			-	X	X													
17	0	2.9			/															
18																				
19																				
20																				
21																				
22																				
23																				
24																				

23

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	Operator:	SD		
			CAST TIME/DATE GMT					Consecutive Station Number				Station Name				Comments:
		R/V Sikuliaq	Year	Month	Day	Hour	Minute	067				C15				MOORING SITE
Target Trip Depth (m)		Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.										N2 cycling	Bottom Water	Absor-ption	
1	S	43.3				X										
2	S	43.4	287			X										
3	S	43.2														
4	S	30.7			X											
5	S	30.5			X											
6	S	30.4														
7	S	20.3			X											
8	S	20.2			X											
9	S	20.3														
10	I	10.3			X											
11	I	10.2	305		X											
12	I	10.2			X											
13	I	2.0			X											
14	I	2.4			X											
15	I	2.8														
16																
17																
18																
19																
20																
21																
22																
23																
24																

SEND

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	Operator:	SD				
			SKQ2023-12S					2023	09	29	20	54	67	53.86	168	14.2		
		Ship	CAST TIME/DATE GMT					Consecutive Station Number					Station Name					
	R/V Sikuliaq		Year	Month	Day	Hour	Minute	070					DBU 3-6					
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																
		DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption
1	3	53.5								X								
2	3	53.3			X			X										
3	3	53.5				X			X									
4	3	53.6	037															
5	40	40.8			X			X										
6	40	40.8				X					TMK							
7	30	30.4			X			X										
8	30	30.3				X			X		15							
9	30	30.3	X															
10	30	30.3										X						
11	20	20.6			X			X										
12	20	20.4				X			X		16							
13	20	20.	X															
14	20	20.																
15	10	10.4			X			X										
16	10	10.2				X			X									
17	10	10.2			X													
18	10	10.3								X	X							
19	80cm	10.3				X			X									
20	0	2.7			X			X										
21	0	2.6				X		X	X									
22	0	2.7	100															
23	0	2.8								X								
24																		

37
22
10

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	Operator: SD Comments:							
		SKQ2023-12S		2023	09	1	10	45	52	58	0.26	162	52.46							
		Ship		CAST TIME/DATE GMT					Consecutive Station Number		Station Name									
		R/V Sikuliaq		2023	09	1	18	45	072		DB03,5									
		Target Trip Depth (m)		Sample Log: List sample number or use a checkmark to indicate sample taken.																
				DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	edDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption
1	B	47.4			X							X	X							
2	B	47.2				X														
3	B	47.6					X	283			12									
4	B	46.8																	X	
5	46	40.8				X														
6	40	40.9					X	285			7									
7	30	30.1			X															
8	30	29.9				X		285			8									
9	30	30.1									X									
10	20	20.4			X															
11	20	20.6				X		283			9									
12	20	20.6																		
13	10	10.1			X							X								
14	10	10.1				X		279			10		X	X	X	X	X			
15	SDM	10.5						X				X	X	X	X	X	X			
16	10	11.0			X															
17	0	3.3				X	X											X		
18	0	2.7	331				X	283			11		X							
19	0	3.2										X								
20	0	3.2			X															
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	Operator:	30				
		SKQ2023-12S		2023	100	1	19	39	48	68	11,23	167	17,73	Comments:				
		Ship	CAST TIME/DATE GMT					Consecutive Station Number		Station Name								
		R/V Sikuliaq	Year	Month	Day	Hour	Minute											
		R/V Sikuliaq	2023	100	12	3	39	074		DB03.3								
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																
		DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption
1	42.0			X						X	X							
2	42.1				X													
3	42.3					X	X			X								
4	30.3				X					X								
5	30.2											X						
6	30.0																	
7	20			X						X								
8	20											X						
9	20																	
10	13																	
11	10																	
12	10																	
13	10																	
14	2.9			X														
15	4.0	264																
16	3.6			X														
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

SCM

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	Operator:	SO				
			SKQ2023-12S					2023	10	1	21	38	43	68	14.8	167	233	Comments:
		Ship	CAST TIME/DATE GMT					Consecutive Station Number			Station Name							
	R/V Sikuliaq	2023	10	2	5	40		075			DS03.2							
	Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.										N2 cycling	Bottom Water	Absorption			
			DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N		
1	B	38.3																
2	B	38.6			X													
3	B	38.4	270				285			26							X	
4	30	30.7			X													
5	30	30.4					285			21								
6	30	30.1															X	
7	20	20.6			X													
8	20	20.6					283			22								
9	20	20.4	X															
10	10	10.5			X													
11	10	10.7					289			23								
12	10	10																
13	7	7.3	X															
14	7	2.5														X		
15	8	3.2			X													
16	8	3.4					283	X		24		X					X	
17	V	3.0		/														
18																		
19																		
20																		
21																		
22																		
23																		
24																		

7
20, 6

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	Operator: SD								
			SKQ2023-12S					2023	10	20	15	34	68	18.15	166	55.60	Comments:				
		Ship	CAST TIME/DATE GMT					Consecutive Station Number				Station Name									
		R/V Sikuliaq	Year	Month	Day	Hour	Minute	076				DSO 301									
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																	
		1	29.8			/										N2 cycling	Bottom Water	Absor-ption			
		2	29.7			X				X											
		3	29.7	352		295				25											
		4	20.1			X				X											
		5	20.2			283				26											
		6	20.0																		
		7	16.0					X				X	X	X							
		8	10	10.5			X		X												
		9	10	10.5		279			27												
		10	10	10.5								X	X								
		11	0	2.4			X														
		12	0	2.5		283	X		26												
		13	0	2.3								X		X							
		14																			
		15																			
		16																			
		17																			
		18																			
		19																			
		20																			
		21																			
		22																			
		23																			
		24																			

5 cm

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	Operator:							
		SKQ2023-12S		2023	10	23	07	51	65	44.26	161	38.9	Comments:						
		Ship		CAST TIME/DATE GMT					Consecutive Station Number		Station Name								
R/V Sikuliaq		Year	Month	Day	Hour	Minute													
R/V Sikuliaq		2023	10	3	07	07	079		356										
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																	
		DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption	
1	3	46.3		X						X									
2	3	46.0		X				X											Drippy seal
3	3	46.1		X				X											
4	3	46.3			X					X		X	X						IFCB H2O
5	30	30.3		X			X												
6	30	30.1		X			X												
7	30	30.5								X									
8	20	21.5		X			X												
9	20	22.6		X			X		8										
10	20	22.6																	
11	10	10.3		X			X												
12	-10	10.2		X			X		9										
13	10	10.3								X									
14	0	3.0			X		X			X									
15	0	3.3	364			X	X		16										Drippy seal
16	0	30		X						X									IFCB H2O
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			

5cm

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	Operator: SD Comments:					
			SKQ2023-12S	2023	10	3	1	58	52	65	40.18	168	20.16					
		Ship	CAST TIME/DATE GMT					Consecutive Station Number	Station Name		B53							
		R/V Sikuliaq	2023	10	3	9	58		082	B53								
		Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.										N2 cycling	Bottom Water	Absor-ption		
				DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	
1		B	17.8				X			X						X		
2		B	17.1	3560			X	283		W								
3		B	17.7				X											
4		40	17.4				X		X							X		
5		40	40.2				X	285		17								
6		40	40.3				X				X							
7		30	20.4				X		X							X		
8		30	20.1				X	285		13								
9		30	30.3				X		X									
10		20	20.5				X		X							X		
11		20	20.4				X	283		14								
12		20	20.5				X		X									
13		10	10.9				X		X							X		
14		10	10.5				X	279		15								
15		10	10.6				X		X							X		
16		0	2.1				X		X							X		
17		0	2.5				X	283		16								
18		0	2.5				X		X									
19																		
20																		
21																		
22																		
23																		
24																		

scm

Bottle #		Cruise	CAST TIME/DATE LOCAL				Depth to Bottom (m)	Latitude		Longitude		NGA LTER HYDROGRAPHY & CTD LOG						
			Year	Month	Day	Hour		Degree	Minute	Degree	Minute	Operator: SD						
			SKQ2023-12S				2023	10	3	3	52	08	65	39.11	168	4.13		
			Ship				CAST TIME/DATE GMT				Consecutive Station Number		Station Name					
R/V Sikuliaq		2023		10	3	1	52	084		BSI								
Target Trip Depth (m)	Actual Trip Pressure (dbar)	Sample Log: List sample number or use a checkmark to indicate sample taken.																
		DO	O2/Ar	CH4	DIC	Chl Bulk	Chl SF	Phyto ID	Nuts	eDNA	HABS	FCM	IFCB	$^{18}\text{O}/^{16}\text{O}$	d13C d15N	N2 cycling	Bottom Water	Absorption
1	B	24.0				X				X								
2	B	24.1	271	273		285			17									
3	B	23.9																
4	20	20.4			X													
5	20	20.4				283			18									
6	20	20.2																
7	10	10.7			X													
8	10	10.6				279			19									
9	10	10.6								X								
10	0	2.4																early trip
11	0	2.1			X	283			20									
12	0	2.1																
13																		
14																		
15																		
16																		
17																		
18																		
19																		
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5cm

