

Water Chemistry Sampling			Cruise: EOS 312 Jan 20		Cruise ID: 2020			
Station Name: S1			Date: Jan 27 122		Time Sampled: 9:55			
Cast #: 1 Event #: 2			Sampler Names: Meghan, Erin, Tia					
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8	90	009C	C-01	A-83	✓	✓	✓	✓
7	95	007C, 008C		A-80	✓	✓	✓	✓
6	100	006C		A-79	✓✓	✓	✓	✓
5	105	005C		A-78	✓	✓	✓	✓
4	110	004C		A-77	✓	✓	✓	✓
3	115	003C		A-76	✓	✓	✓	✓
2	120	002C		A-75	✓	✓	✓	✓
1	135	001C		A-73				✓

NOTES:
 Bottle 4 water - 100 sample
 1 did not five.
 Sulfide smelled from Niskins: ✓
 Time Mn spiked with acid: ✓
 NH4 Standards: Vial #: Conc:
 NH4 Standards: Vial #: Conc:

Time NH4 spiked with working reagent:
 Vial #: Conc:

bottle 2,3,4 = SMELLY!

Water Chemistry Sampling

Cruise: EOS 312 Jan 2022

Cruise ID: 202201

Station Name: S1

Date: Jan 27/22

Time Sampled: 12:00

Cast #: 2

Event #: 3

Sampler Names: Meghan, Erinn, Tia

Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8								
7	135	001D	C-04	A-75				✓
6	0	015C/016C	C-03	A-98	✓	✓	✓	✓
5	20	014C		A-94	✓	✓	✓	NA
4	40	013C	E05	A-91	✓		✓	
3	60	012C	C-02	A-89	✓	✓	✓	✓
2	80	011C		A-88	✓	✓	✓	
1	85	010C		A-85	✓	✓	✓	

NOTES:

After returning to dock to repair Niskins 1, 4 and 9 with tubing (wouldn't fire/leaky).

Vent open Niskin 2 bottle leaking again

Sulfide smelled from Niskins: BOTTLE 7 (135m).

Time Mn spiked with acid: ✓

Time NH4 spiked with working reagent:

NH4 Standards: Vial #: Conc:

Vial #: Conc:

NH4 Standards: Vial #: Conc:

Vial #: Conc:

Water Chemistry Sampling				Cruise: EOS 312 Jan 20		Cruise ID: 202201		
Station Name: S1.5		Date: 27 Jan 2022		Time Sampled: _____				
Cast #: 3		Event #: 5		Sampler Names: ERIN, Meghan, Tia				
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8	95	021C / 022C	* C-08	A137	✓	✓	✓	✓
7	100	020C		A134	✓	✓	✓	✓
6	105	019C	* C-06	A138	✓	✓	✓	✓
5	115	018C		A133	✓	✓	✓	✓
4	135			A131				
3	155			A130	✓	✓	✓	✓
2	175	017C		A118				
1	200			A112				✓

NOTES: Deep.

Sulfide smelled from Niskins: 1, 2, 3, 4, 5, 6 ✓

Time Mn spiked with acid: _____

NH4 Standards: Vial #: _____ Vial #: _____ Vial #: _____

NH4 Standards: Conc: _____ Conc: _____ Conc: _____

Time NH4 spiked with working reagent: _____

Water Chemistry Sampling			Cruise: EOS 312 Jan 20		Cruise ID: 202201			
Station Name: S15			Date: 27 Jan 2022		Time Sampled:			
Cast #: 3			Event #: 5		Sampler Names: Meghann Erinn Tia			
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	NH4 DIE Bottle #	DIC Vial #	NO3	NO2	PO4	Mn
8								
7								
6	5		A160		✓	✓	✓	
5	10	042C / 043	A145	* C-11	✓	✓	✓	✓
4	50	041C	A143		✓	✓	✓	
3	80	46D / 045F	A142	* C-10	✓	✓	✓	✓
2	85	047C	A141	* C-09	✓	✓	✓	✓
1	90	023C / 024C	A139		✓	✓	✓	✓

NOTES: Shallow
bottle leaking

Sulfide smelled from Niskins: ✓

Time Mn spiked with acid: ✓

NH4 Standards: Vial #: Vial #: Vial #:

NH4 Standards: Conc: Conc: Conc:

Time NH4 spiked with working reagent:

Water Chemistry Sampling				Cruise: EOS 312 Jan 2022		Cruise ID: 202201		
Station Name: S2		Date: Jan 27/22		Time Sampled: 15:25				
Cast #: 8		Event #: 8		Sampler Names: Eriq, Meghan, Tia				
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8	8							
7	5	033C/032C	* C-12	A03	✓	✓	✓	
6	10	034D/035C		A04	✓	✓	✓	✓
5	15	036C/037C		A06	✓	✓	✓	
4	30	038C		A07	✓	✓	✓	✓
3	45	039C	* C-13	A08	✓	✓	✓	
2	60	040E		A11	✓	✓	✓	✓
1	75	044C		A-14	✓	✓	✓	

NOTES: 15m and 75m = spigot in open position during cast
Niskin b NO3 sample lost

Sulfide smelled from Niskins:

Time Mn spiked with acid:

NH4 Standards: Vial #: Vial #: Vial #:

NH4 Standards: Conc: Conc: Conc:

Water Chemistry Sampling				Cruise: EOS 312 Jan 20 22		Cruise ID: 202201		
Station Name: S2		Date: Jan 27/22		Time Sampled: 16:00				
Cast #: 9		Event #: 9		Sampler Names: Erin, Meghan, Tia				
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8								
7	90	* 029C		A15	✓	✓	✓	✓
6	95	* 029C	* C16	A16	✓	✓	✓	✓
5	100	* 030C		A18	✓	✓	✓	✓
4	105	* 031C		A19	✓	✓	✓	✓
3	110		* C15	A20	✓	✓	✓	✓
2	190			A21				✓
1	205		* C14	A28	✓	✓	✓	✓
NOTES: deep								
Sulfide smelled from Niskins: 1, 2, 3								
Time Mn spiked with acid:								
NH4 Standards: Vial #:		Vial #:		Vial #:		Vial #:		
NH4 Standards: Conc:		Conc:		Conc:		Conc:		

Water Chemistry Sampling				Cruise: EOS 312 Jan 2022		Cruise ID: 202201		
Station Name: S25		Date: Jan 27/22		Time Sampled: 16:55				
Cast #: 11		Event #: 11		Sampler Names: TIGERIN, MEYHAN				
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8	90	0684E	RC-23	A72	✓	✓	✓	✓
7	100	065E/066C		A81	✓	✓	✓	✓
6	110	067C	RC-22	A82	✓	✓	✓	✓
5	120	068E		A84	✓	✓	✓	✓
4	140	069E		A87	✓	✓	✓	✓
3	180	0645 0670C	RC-22	A95	✓	✓	✓	✓
2	200	071C		A96				✓
1	220	063C		A97	✓	✓	✓	✓
NOTES:								
Sulfide smelled from Niskins: 1, 2, 3, 4								
Time Mn spiked with acid:								
Time NH4 spiked with working reagent:								
NH4 Standards: Vial #:		Vial #:		Vial #:		Vial #:		
NH4 Standards: Conc:		Conc:		Conc:		Conc:		

Water Chemistry Sampling			Cruise: EOS 312 Jan 20 <u>22</u>		Cruise ID: <u>202201</u>			
Station Name: <u>S2.5</u>			Date: <u>Jan 27 2022</u>		Time Sampled: <u>17:15</u>			
Cast #: <u>12</u>			Sampler Names: <u>Meghan, Tara, Brian</u>					
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8								
7								
6	5	056		A66	✓	✓	✓	
5	10	057	* C-19	A67	✓	✓	✓	
4	20	058	* C-20	A68	✓	✓	✓	
3	30	060E/059C		A69				✓
2	40	061		A70	✓	✓	✓	
1	80	062C		A71	✓	✓	✓	✓

NOTES:

Sulfide smelled from Niskins: ✓

Time Mn spiked with acid: 21:40

NH4 Standards: Vial #: A.33 Vial #: A.34 Vial #: A.36 Vial #: A.37 Vial #: A.32

NH4 Standards: Conc: 2 Conc: 4.06 Conc: 5.92 Conc: 9.16 Conc: 14.91

Conc: 0

Water Chemistry Sampling			Cruise: EOS 312 Jan 2022		Cruise ID: 202201			
Station Name: S3		Date: Jan 28/22	Time Sampled: 8:50					
Cast #:	Event #: 14	Sampler Names: Tia, Brian, Meghan						
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8	85	105D		A58	✓	✓	✓	✓
7	95	103F / 104E	* C24	A57	✓	✓	✓	✓
6	105	102C		A50	✓	✓	✓	✓
5	115	101C		A55	✓	✓	✓	✓
4	125	100C	* C27	A53	✓	✓	✓	✓
3	135	099C		A52				✓
2	155	098E		A51				✓
1	180	097C		A50	✓	✓	✓	✓
NOTES:								
Sulfide smelled from Niskins:								
Time Mn spiked with acid: ✓		Time NH4 spiked with working reagent:						
NH4 Standards: Vial #:		Vial #:		Vial #:		Vial #:		
NH4 Standards: Conc:		Conc:		Conc:		Conc:		

Water Chemistry Sampling			Cruise: EOS 312 Jan 2022		Cruise ID: 202201			
Station Name: 23		Date: Jan 28/2022	Time Sampled: 9:35					
Cast #:	Event #: 15	Sampler Names: Erin, Tian, Meghan						
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8								
7								
6	15	106C	* C30	A64	✓	✓	✓	NO2
5	10	107F	* C25	A63	✓	✓	✓	✓
4	2040	108C		A62	✓	✓	✓	NO2
3	40	109C		A61	✓	✓	✓	NO2
2	65	110F	* C26	A60	✓	✓	✓	✓
1	75	112		A59	✓	✓	✓	✓

NOTES:

Sulfide smelled from Niskins:

Time Mn spiked with acid: ✓

NH4 Standards: Vial #: Vial #: Vial #:

NH4 Standards: Conc: Conc: Conc:

Time NH4 spiked with working reagent:

Water Chemistry Sampling			Cruise: EOS 312 Jan 2022		Cruise ID: 202201			
Station Name: S3.5			Date: 28 Jan 22		Time Sampled: 10:30			
Cast #: 17			Sampler Names: Tia, Ennn, Meghan					
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8					✓	✓	✓	
7					✓	✓	✓	
6	0	118	* C29	A140	✓	✓	✓	
5	5	114C / 117C		A103	✓	✓	✓	
4	10	116E		A 82	✓	✓	✓	
3	15	115C		A58	✓	✓	✓	
2	40	113D	* C28	A34	✓	✓	✓	✓
1	80	111D	* C32	A31	✓	✓	✓	✓
NOTES:								
Sulfide smelled from Niskins:								
Time Mn spiked with acid: ✓								
Time NH4 spiked with working reagent:								
NH4 Standards: Vial #:			Vial #:		Vial #:		Vial #:	
NH4 Standards: Conc:			Conc:		Conc:		Conc:	

Water Chemistry Sampling			Cruise: EOS 312 Jan 2022		Cruise ID: 202201			
Station Name: 53.5			Date: 28 Jan 22		Time Sampled: 11:05			
Cast #: 18			Event #: 18		Sampler Names: Erin, Tia, Meghan			
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8	85	0966		A65	✓	✓	✓	✓
7	90	095		A86	✓	✓	✓	✓
6	95	0896 / 0946	* C-11	A90	✓	✓	✓	✓
5	100	085C		A193	✓	✓	✓	✓
4	105	091C		A128	✓	✓	✓	✓
3	150	090C		A132				✓
2	180	093		A135				✓
1	205	092D	* C-31	A144	✓	✓	✓	✓

NOTES:

Sulfide smelled from Niskins: 1, 2, 3... less smelly than yesterday

Time Mn spiked with acid: ✓

Time NH4 spiked with working reagent:

NH4 Standards: Vial #: Vial #: Vial #:

NH4 Standards: Conc: Conc: Conc:

Water Chemistry Sampling			Cruise: EOS 312 Jan 2022			Cruise ID: 002201		
Station Name: 54			Date: 28 Jan 22			Time Sampled: 13:00		
Cast #: Event #: 20			Sampler Names: Tia, Eanni, Meghan					
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8	50	88C		A19				✓
7	80	87E		A23	✓	✓	✓	✓
6	90	86C		A40	✓	✓	✓	✓
5	100	83C / 84C	*C33	A42	✓	✓	✓	✓
4	110	81C / 82C		B43	✓	✓	✓	✓
3	120	80C		A70	✓	✓	✓	✓
2	150	79C		A46	✓	✓	✓	✓
1	195	78C		A49				✓

NOTES: event 20 + 21 switched Niskin 5 ~~spigot~~ spigot dead @ end of sampling

Sulfide smelled from Niskins:

Time Mn spiked with acid:

NH4 Standards: Vial #: Vial #: Vial #:

NH4 Standards: Conc: Conc: Conc:

Time NH4 spiked with working reagent:

Water Chemistry Sampling			Crusie: EOS 312 Jan 2020		202001			
Station Name: <u>54</u>			Date: <u>28 Jan 22</u>		Time Sampled: <u>13:40</u> 12:40			
Cast #: <u>21</u> Event #: <u>21</u>			Sampler Names: <u>Neghan, Tia, Erin</u>					
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8								
7								
6	5	133D	* C35	A48 43	✓	✓	✓	
5	10	77D	* C43	A44	✓	✓	✓	✓
4	15	76C	* C36	A46	✓	✓	✓	
3	20	75C	* C44	A45	✓	✓	✓	
2	25	74C		A44	✓	✓	✓	
1	30	73C		A48	✓	✓	✓	✓

NOTES:

Sulfide smelled from Niskins: ✓

Time Mn spiked with acid: ✓

NH4 Standards: Vial #: Vial #: Vial #:

NH4 Standards: Conc: Conc: Conc:

Time NH4 spiked with working reagent:

Water Chemistry Sampling			Cruise: EOS 312 Jan 20 <u>22</u>		Cruise ID: <u>22020</u>			
Station Name: <u>4.5</u>			Date: <u>28 Jan 22</u>		Time Sampled: <u>13:45</u> <u>002201</u>			
Cast #: <u>23</u>			Sampler Names: <u>Tia, Meghan, Brinn</u>					
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8	90			A17	✓	✓	✓	✓
7	110	054D		A22	✓	✓	✓	✓
6	125	053C/031U		A23	✓	✓	✓	✓
5 9	135			A25	✓	✓	✓	✓
4	140	125E		A26	✓	✓	✓	✓
3	145			A27	✓	✓	✓	✓
2	150			A29				✓
1	155			A30				✓
NOTES: too shallow for deepest samples → cut them and used Niskin 3 (145m) as bottom bottle								
Sulfide smelled from Niskins: <u>NONE</u>								
Time Mn spiked with acid:								
NH4 Standards: Vial #:			Vial #:		Vial #:		Vial #:	
NH4 Standards: Conc:			Conc:		Conc:		Conc:	

Water Chemistry Sampling			Cruise: EOS 312 Jan 2022		Cruise ID: 202201			
Station Name: 54.5			Date: 28 Jan 22		Time Sampled: 14:30			
Cast #: Event #: 24			Sampler Names: Meghan, Tia, Erin					
Niskin Bottle	Target Depth (m)	Oxygen Bottle #s	DIC Bottle #	NH4 Vial #	NO3	NO2	PO4	Mn
8								
7								
6	0	124C / 126C	* C38	A02	✓	✓	✓	
5	5	132D / 134D		A05	✓	✓	✓	
4	10	049C / 134D	* C38	A05	✓	✓	✓	
3	20	055C / 051C	* C40	A10	✓	✓	✓	
2	40	132D / 050E	* C41	A12	✓	✓	✓	✓
1	70	052C / 130C	* C42	A12	✓	✓	✓	✓

NOTES: Bottle 9 @ 5m didn't get put on the line.
Whoops!

Sulfide smelled from Niskins:

Time Mn spiked with acid:

NH4 Standards: Vial #: A37 Vial #: A38 Vial #: A39 Vial #: A40 Vial #: A41

NH4 Standards: Conc: 0 Conc: 2 Conc: 46 Conc: 10 Conc: 15