

199m

201801

OCEAN SCIENCES STRICKLAND CTD LOG

DATE (dd-mm)	TIME (local)	LAT. (N)	LONG. (W)	STN NAME	BOTTOM DEPTH (m)	CAST DEPTH (m)	CTD File Name
25 Jan	1040	48 35.586	123 30.001	S3	229	220	20180125-S3
	1310	48 30.897	123 32.400	S1	146	140	20180125-S1
26 Jan	1010	48 35.50	123 29.98	S4	195	185	20180126-S4
	1222	48 33.828	123 30.339	S2.5	232	220	20180126-S25
	1416	48 32.248	123 32.894	S1.5	207	197	20180126-S15
27 Jan	0950	48 40' 12" (*)	123 30' 6"	S4.5	164	150	20180127-S45
	1155	48 37.053	123 29.971	S3.5	223	210	20180127-S35
	1410	48 33.185	123 32.022	S2	217	205	20180127-S2
		S4.5 is at: 48 40.2' 123 30.1 W					
		* NOTE UNITS					

201801

UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: StricklandCollected By: BrentDate: Jan 25th, 2018Consecutive Stn #: 1Station Name: S3

Notes: (temperature, wind, barometer, weather, sea-state, etc)

~5°C, Overcast, Depth 229m

EVENT NUMBER	EVENT TYPE	TIME (local, 24h format)	LATITUDE (N) (dd mm.mmm)	LONGITUDE (W) (ddd mm.mmm)	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)																								
1	CTD	10:40	48° 35.586'	123° 30.001'	229	220	CTD 20180125_S3 - File name																								
2	NISK	1122			228		1: 200, 2: 180, 3: 155, 4: 125 5: 110, 6: 105,																								
3	NISK	1213			228		1: 100, 2: 95, 3: 70, 4: 40 5: 15, 6: 10, 7: 5, 8: 0																								
							<table border="1"> <tr> <td>0</td><td>5</td><td>10</td><td>15</td><td>40</td><td>70</td><td>95</td><td>100</td></tr> <tr> <td>10</td><td>95</td><td>100</td><td>95</td><td>40</td><td>70</td><td>15</td><td>0</td></tr> <tr> <td></td><td></td><td>90</td><td></td><td></td><td></td><td></td><td></td></tr> </table>	0	5	10	15	40	70	95	100	10	95	100	95	40	70	15	0			90					
0	5	10	15	40	70	95	100																								
10	95	100	95	40	70	15	0																								
		90																													
cast ① 180m bottle - slight leak through nozzle on recovery.																															

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Mariko

Date: 25th January 2018

Consecutive Stn #: 2

Station Name: S1

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Relatively warm (it is sunny). Not very windy. Sea is calm.

EVENT NUMBER	EVENT TYPE	TIME (local, 24h format)	LATITUDE (N) (dd mm.mmm)	LONGITUDE (W) (ddd mm.mmm)	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)
4	CTD	13:10	48°30.897'	123°32.400'	146	140	20180125_S1_hex
5	NISK	13:48	48°30.945'	123°32.335'	143	135	95 100 105 140 120 135 40 35 30 25 15 0
6	NISK	14:36	11	11	143	90	90 70 50 20 15 10 5 0 5 10 15 20 50 70 90 90 85 80 75 70 60 50 40 30 20 10 0
		depart @ 1445					

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: DANA ZURKO

Date: Jan 26 2018

Consecutive Stn #: 3

Station Name: S4

Notes: (temperature, wind, barometer, weather, sea-state, etc)

7°C 30.15 inches Mercury calm sea light air
visibility 10-12 miles cloud 70%

EVENT NUMBER	EVENT TYPE	TIME (local, 24h format)	LATITUDE (N) (dd mm.mmm)	LONGITUDE (W) (ddd mm.mmm)	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)
7	CTD	10:10AM	48 35.50	123.29.98	195	185	20180126 - S4 here
8	Niskon	10:44 AM	"	"	197	180	100, 105, 120, 140, 160, 180 80 75 60 40 20 0
9	Niskon	11:36 AM	48 36 445	123 29 937	195		0, 5, 10, 30, 50, 65, 80, 95 95 90 85 65 45 30 15

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Devon Wenger

Date: Jan 26

Consecutive Stn #: 4

Station Name: S2.5

Notes: (temperature, wind, barometer, weather, sea-state, etc)
windy

EVENT NUMBER	EVENT TYPE	TIME (local, 24h format)	LATITUDE (N) (dd mm.mmm)	LONGITUDE (W) (ddd mm.mmm)	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)
10	CTD	1222	48° 33.828 N	123° 30.339 W	232	220	Towing on line a bit 20180126-S25, Lex
11	Niskin bottle cast	12:50	48° 33.724	123° 30.624	232	210	105 110 120 130 140 210 depths. 105 110 120 130 140 0
12	NISK	13:31	48° 33.667	123° 30.680	229	100	0 5 10 15 25 55 85 100 100 95 90 85 75 15 0 ✓ ✓ ✓ ✓ ✓ ✓ ✓
							cast 1 = Event 11 Niskin #105m slide on wire

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Alex, Sarah, Evan, Cameron

Date: Jan 26, 2018

Consecutive Stn #: 5

Station Name: S1.5

Notes: (temperature, wind, barometer, weather, sea-state, etc) intermittent overcast, ~ 7°C, high humidity, light "mist-like" rain, feelings: generally optimistic

EVENT NUMBER	EVENT TYPE	TIME (local, 24h format)	LATITUDE (N) (dd mm.mmm)	LONGITUDE (W) (ddd mm.mmm)	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)
13	CTD	14:46	N 48° 32.248 W 123° 32.894	W 123° 32.894	207	197	20180126 - S1.5.hwp
14	NISK	14:49	N 48° 32.246	W 123° 32.910	207	195	195, 170, 145, 125, 110, 105 125, 110, 105 25 70 85 90
15	NISK	15:38	48 32.333	123 32.841	207	100	100, 95, 80, 60, 40, 20, 10, 0 0% 5% 20% 40% 60% 80% 90% 100%

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Group 6 - Pandora Gibb

Date: Jan 27 2018

Consecutive Stn #: 6

Station Name: S4.5

Notes: (temperature, wind, barometer, weather, sea-state, etc)

Overcast, light ON/OFF misty. RAIN, FOG, 6°C, NEARLY SNOW
→ REAL RAIN

WATER
mild wind
inside inlet

→ PICKED UP @ 18

EVENT NUMBER	EVENT TYPE	TIME (local, 24h format)	LATITUDE (N) (dd mm.mmm)	LONGITUDE (W) (ddd mm.mmm)	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)
54.5 16	CTD	9:50 AM	48° 40' 12" N	123° 30' 6" W	164m/ 161m	150m	20180127-S45
17	NISKIN	10:25	"	"	165m	150m	6 DEEP BOTTLES ✓1=150 ✓4=115 interface @ 105m ✓2=130 ✓5=110 ✓3=120 ✓6=105
18	NISKIN	11:15					8 shallow BOTTLES ✓1=100 ✓4=50 ✓7=5 ✓2=95 ✓5=30 ✓8=0 ✓3=80 ✓6=10

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: Group H.C. Alexis Bazzel

Date: 27 Jan 2018

Consecutive Stn #: 7

Station Name: S3.5

Notes: (temperature, wind, barometer, weather, sea-state, etc)

15°C, foggy, slight wind/rain,

EVENT NUMBER	EVENT TYPE	TIME (local, 24h format)	LATITUDE (N) (dd mm.mmm)	LONGITUDE (W) (ddd mm.mmm)	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)
19	CTD	11:53am	48° 37.053'	123° 29.971'	223	210	20180127-S35.hex
20	Niskin	12:37	48° 36.685'	123° 29.895'	223	215	110, 115, 135, 160, 185, 215 105 100 80 55 30 0
21	Nisk	13:20	48° 36.864'	123° 30.030'	223	105	0, 10, 25, 50, 75, 90, 100, 105 105 95 80 55 30 15 10 5 0

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

UVIC OCEAN SCIENCES STRICKLAND EVENT LOG

VESSEL: Strickland

Collected By: group F

Date: 27 Jan 2018

Consecutive Stn #: 8

Station Name: S2

Notes: (temperature, wind, barometer, weather, sea-state, etc)

$T=6^{\circ}$; W 26 km/h, Sunny, windy some rain.

EVENT NUMBER	EVENT TYPE	TIME (local, 24h format)	LATITUDE (N) (dd mm.mmm)	LONGITUDE (W) (ddd mm.mmm)	BOTTOM DEPTH (m)	CAST DEPTH (m)	NOTES (e.g. CTD file names, bottle depths, flow meter readings, problems, etc)
22	CTD	14:10 1m/s	N48 33.166 N48 33.185	W123 32.022	217 207	205	20180127-S2
		14:08	N48 33.166	W123 32.105	120	120	
23	NISK	1445	"	"	214	210	105 110 120 130 170 210 105 115 125 135 175 215 -10 -10 -10 -40 -40 0/
24	NISK	1530	N48 33.180	W123 32.104	217	95	0 5 10 20 40 75 85 95 5 5 10 20 35 10 10 0

EVENT NUMBER = each "cast" of equipment is given a new number, sequential from the beginning of the cruise.

EVENT TYPE = CTD, NISK, ZOOP, PHYTO, GRAB

Bottom Depth = depth of water

Cast Depth = deepest depth the equipment reaches

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S3Date: 25/01/18Time Sampled: 11:30 amCast #: 1 Event #: 2Sampler Names: Cassandra, Brandon, Mariko, Cavanaugh, Scott

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)	
8									
7									
6	105	001D ✓ 002C ✓	C-02 ✓	A-20 ✓	✓	✓	✓	✓	
5	110	003C ✓	/	A-21 ✓	✓	✓	✓	✓	
sulphide → small 4	125	004C ✓	C-03 ✓	A-22 ✓	✓	✓	✓	✓	
3	155	/	/	A-23 ✓	✓	✓	✓	✓	
slight leak 2	180	/	C-05 ✓	A-24 ✓	/	/	✓	✓	
1	200	/	/	A-25 ✓	/	/	✓	✓	

NOTES: - No sulfide smelled in Niskin #5 and #6

- sulphide smell in Niskin 4

- Small leak in Niskin 2

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? 3:45

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S3Date: Jan 25, 2018Time Sampled: 12:13 pmCast #: 2 Event #: 3Sampler Names: Cassandra, Brandon, Mariko, Cavanaugh, Scott

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)
8	0	² 005C ✓ 006C ✓	C-06 ✓	A-26 ✓	✓	✓	✓	✓
7	5	007C ✓	/	A-27 ✓	✓	✓	/	/
6	10	021C ✓	C-11 ✓	A-28 ✓	✓	✓	✓	/
5	15	009E ✓	/	A-29 ✓	✓	✓	/	/
4	40	010F ✓	/	A-30 ✓	✓	✓	✓	✓
3	70	011C ✓	C-08 ✓	A-31 ✓	✓	✓	✓	/
2	95	² 012C ✓ 019C ✓	C-09 ✓	A-32 ✓	✓	✓	✓	/
1	100	² 014C ✓ 015C ✓	C-10 ✓	A-33 ✓	✓	✓	✓	/

NOTES: C-07 do not run

Niskin # 6 RO4 sample had bubbles present

NH4 Stds Vial# ^{0.0M} STD1 = A34 ^{2.2} STD2 = A35 ^{7.5} STD3 = A36 ^{12.1} STD4 = A37 ^{15.8} STD5 = A38NH4 Spiked with Working Reagent: yes no Time Spiked? 3:45

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S1Date: Jan 25thTime Sampled: 13:50Cast #: 1 Event #: 5Sampler Names: Ben Clemens, Kate Chadwick, Hanaiko Ischikawa, Brend

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)
8								
7								
6	95	016F ✓	—	A-39 ✓	✓			
5	100	✓ 017C/018C ✓	—	A-40 ✓	✓			
4	105	✓ 013C/020C ✓	—	A-41 ✓	✓		—	
3	110	—	—	A-42 ✓	✓			
Sulfide 2	120	—	—	A-43 ✓	✓	—		
1	135	—	—	A-44 ✓	—			

NOTES:

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: SIDate: Jan. 25, 2018Time Sampled: 14:50Cast #: 2 Event #: 6Sampler Names: Ben Clemens, Kate Chadance, Hanako/sshiki, Brent

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	✓ NO3	NO2	PO4	Mn (✓ when acid spiked)
8	0	* 0296/028C	C-12 ✓	A-52 ✓				
7	5	* 026C/027C ✓	—	A-51 ✓				—
6	10	* 024C/025C ✓	C-13 ✓	A-50 ✓				—
5	15	023C ✓	—	A-49 ✓	—		—	—
4	20	022C ✓	—	A-48				—
3	50	—	—	A-47 ✓		—		
2	70	—	—	A-46 ✓				
1	90	008D ✓	—	A-45 ✓				

NOTES:

NH4 Stds Vial# ^{0.0M} STD1 = A53 ^{2.2} STD2 = A54 ^{~7.5} STD3 = A55 ^{~12.1} STD4 = A56 ^{~15.5} STD5 = A57

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S4Date: Jan. 26th / 2018Time Sampled: 10:49Cast #: 1 Event #: 8Sampler Names: Sarah, Carmen, Alex, Evan

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)	
8									
7									
6	100	030C ✓ 031C ✓	C-14 ✓	A-115 ✓	✓	✓	✓	✓	✓
5	105	032C ✓	X	A-116 ✓	✓	✓	✓	✓	✓
4	120	033C ✓	C-15 ✓	A-117 ✓	✓	✓	✓	✓	✓
3	140	X	X	A-118 ✓	X	X	✓	✓	✓
2	160	X	X	A-119 ✓	X	X	X	✓	✓
1	180	X	C-16 ✓	A-120 ✓	✓	✓	✓	✓	✓

NOTES: sulphur smell @ 4 (120m), strong smell @ 3 (140m)

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S4Date: Jan 26, 2018Time Sampled: 11:40Cast #: 2 Event #: 9Sampler Names: Sarah, Carmen, Alex, Evan

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)	
8	0	034-D ✓ 035-C ✓	C-17 ✓	A121 ✓	✓	✓	✓	X	
7	5	036C ✓	X	A122 ✓	✓	✓	✓	X	
6	10	037C ✓	C-18 ✓	A123 ✓	✓	✓	X	X	
5	30	038C ✓	X	A124 ✓	✓	✓	✓	X	
4	50	039C ✓	C-19 ✓	A125 ✓	✓	✓	✓	✓	✓
3	65	040E ✓	X	A126 ✓	✓	✓	✓	✓	✓
2	80	041C ✓	C-20 ✓	A127 ✓	✓	✓	✓	✓	✓
1	95	042C ✓ 043 ✓	C-21 ✓	A128 ✓	✓	✓	✓	✓	✓

NOTES:

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3= _____ STD4= _____ STD5= _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: SZ.5Date: Jan. 26 /18Time Sampled: 1:19 PMCast #: 1 Event #: 11Sampler Names: Felix, Tan, Dana, Chloe

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)
8								
7								
6	105	044C ✓ 045F ✓	X	✓ A-58	✓	✓	✓	✓ ✓
5	110	46D ✓		✓ A-59	✓	✓	✓	✓ ✓
4	120	047C ✓		✓ A-60	✓	✓	✓	✓ ✓
3	130			✓ A-61	✓	✓	✓	✓ ✓
2	170			✓ A-62				✓ ✓
1	210			✓ A-63			✓	✓ ✓

NOTES: smelled sulphide on 4 & below

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S2.5Date: Jan 26 / 2018Time Sampled: 1:53 PMCast #: 2 Event #: 12Sampler Names: Felix, Tan, Dana, Chloe

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)	
8	0	049C ✓ 050E ✓ *	C22 ✓	A-64 ✓	✓	✓	✓	✓	✓
7	5	051C ✓	C23 ✓	A-65 ✓	✓	✓	✓		
6	10	052C ✓ 053C ✓ *	X	A-66 ✓	✓	✓	✓		
5	15			A-67 ✓	✓	✓	✓	✓	✓
4	25	054D ✓ 055C ✓ *		A-68 ✓	✓	✓	✓		
3	55	056C ✓		A-69 ✓	✓	✓		✓	✓
2	85	057C ✓ 058C ✓ *		A-70 ✓	✓	✓	✓		
1	100	059C ✓		A-71	✓	✓	✓	✓	✓

NOTES:

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: 1.5Date: Jan 26 2018Time Sampled: 3:00 PMCast #: 1 Event #: 14Sampler Names: Devon, He, Marisa, Wiley

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)
8			/					
7								
6 ✓	105	060 E ✓ 061 C ✓	X	A-01 ✓ * A-02 ✓	✓	x ✓	✓	✓
leakage 5	110	062 C ✓	X	A-03 ✓	✓	✓	✓	✓
4	125	063 C ✓	C24 ✓	A-04 ✓	✓	✓	✓	✓
3	145	X	X	A-05 ✓	✓	X	✓	✓
2	170	X	X	A-06 ✓	✓	✓	✓	✓
1	195	X	C25 ✓	1 X	X	X	X	✓

NOTES: Nisk 5, leakage Sulfide smell 4' definite 5 maybe
Nisk 6 - leakage

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: 1,5Date: Jan 26 2018Time Sampled: 4:15 pmCast #: 2 Event #: 15Sampler Names: Devon, Wiley, Marisa, HC

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)
8	0	064C ✓ * 065E ✓ 066C ✓	C26 ✓	A-07 ✓	✓	✓	✓	✓ ✓
7	10	067C ✓	C27 ✓	X	✓	✓	✓	X
6	20	068E ✓	C28 ✓	A08 ✓	✓	X	✓	X
5	40	069E ✓	C29 ✓	X	X	X	X	X
4	60	070C ✓	X	A09 ✓	✓	✓	✓	X
3	80	071C ✓	C30 ✓	A10 ✓	✓	✓	✓	✓ ✓
2	95	* 072C ✓	X	* A11 ✓ A12 ✓	✓	✓	✓	✓ ✓
1	100	075C ✓ * 076C ✓	C31 ✓	* A13 ✓ A14 ✓	✓	* ✓ ✓	✓	✓ ✓

NOTES:

rain

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S. 4.5Date: 27-Jan-18Time Sampled: 10:30 amCast #: ^{#1}dawn Event #: 17Sampler Names: Anieha, Trevor, Dawson, Dawson

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)
8								
7								
6	105	073C 074C	X	A-134				
5	110	077D	X	A-135				
4	115	X	X	A-136				
3	120	X	X	A-137				
2	130	X	X	A-138	X	X	X	
1	150	X	X	A-139	X	X		

NOTES:

sulfide smelled @ N#2

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S4.5Date: 27-Jan-18Time Sampled: 11:20Cast #: #2 Event #: 1BSampler Names: Aniesha, Trevor, Dawson, Dawn

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)
8	0	<u>78C</u> <u>79C</u>	<u>C-33</u> ✓	✓ <u>A-140</u>	✓	✓	✓	✓
7	5	<u>80C</u> <u>81C</u>	X	✓ <u>A-141</u>	✓	✓	✓	✓
6	10	<u>82C</u> <u>83C</u>	<u>C-34</u> ✓	✓ <u>A-142</u>	✓	✓	✓	✓
5	30	X	X	✓ <u>A-143</u>	✓	✓	X	X
4	50	<u>84C</u> ✓	X	✓ <u>A-144</u>	✓	✓	✓	✓
3	80	<u>85C</u> ✓	X	✓ <u>A-145</u>	✓	✓	✓	✓
2	95	<u>86C</u> ✓	X	✓ <u>A-146</u>	✓	✓	✓	✓
1	100	<u>87E</u> <u>88C</u>	X	✓ <u>A-147</u>	✓	✓	✓	✓

*Spigot bung
"possible"

*Cap broke

NOTES:

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3= _____ STD4= _____ STD5= _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S3.5Date: Jan 27 2018Time Sampled: 12:50Cast #: 1 Event #: 20Sampler Names: pandora, shoa, stephanie, lee

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)	
8	X	X	X	X	X	X	X	X	X
7	X	X	X	X	X	X	X	X	X
6	110	089C ✓	X	A-96 ✓	/	/	/	/	
5	115	090C ✓ 091C ✓*	X	A-97 ✓	/	/	/	/	
4	135	X	X	A-98 ✓	/	/	X	/	
3	160	X	X	A-99 ✓	/	/	/	/	
2	185	X	X	A-100 ✓	X	X	X	/	
1	215	X	X	A-101 ✓	X	X	/	/	

NOTES:

Smelled H_2S at Niskin 4

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S3-5Date: Jan 27 2018Time Sampled: 13:30Cast #: 2 Event #: 21Sampler Names: pandora, shea, stephanie, lee

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)	
8	0	✓092D★ ✓093C	✓C-35	A-102✓	/	/	/	X	X
7	10	✓094C	✓C-36	A-103✓	/	/	/	X	X
6	25	✓095C	X	A-104✓	/	/	/	X	X
5	50	✓096C★ ✓097C	X	A-105✓	/	/	/	X	X
4	75	✓098E	X	A-106✓	/	/	/	/	/
3	90	✓099C★ ✓100C	X	A-107✓	/	/	/	/	/
2	100	✓101C	X	A-108✓	/	/	/	/	/
1	105	✓102C★ ✓103F	X	A-109✓	/	/	/	/	/

NOTES:

Vent for Niskin #5 left open / Niskin ³⁴4 was leaking

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S2Date: Jan 27, 2018Time Sampled: 15:00Cast #: 1 Event #: 23Sampler Names: Alvord, Jorg, Mott, Emma

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)
8	105	104E 105D	C-37	A77	✓	✓	✓	✓
7	110	106C 107F	C-38	A78	✓	✓	✓	✓
6	105	^D 104E 105D	C-37 ✓	A77 ✓	✓	✓	✓	✓
5	110	^D 106C 107F	C-38 ✓	A78	✓	✓	✓	✓
4	120	108G 109H	C-39	A79 ✓	✓	✓	✓	✓
3	130	110I 111J	C-40	A80 ✓	✓	✓	✓	✓
2	170	112K 113L	C-39 ✓	A81 ✓	✓	✓	✓	✓
1	210	114M 115N	C-41	A82 ✓	✓	✓	✓	✓

NOTES:

Smelled Sulphide at Niskin 4.

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Water Chemistry Sampling

Cruise: EOS 312 JAN 2018

201801

Station Name: S2Date: Jan 27, 2018Time Sampled: 15:37Cast #: 2 Event #: 24Sampler Names: Alexis, Jing, Emma, Mast

Niskin Bottle	Target Depth (m)	Oxygen Bottle #'s	DIC Bottle#	NH4 Vial#	NO3	NO2	PO4	Mn (✓ when acid spiked)	
8	0	^D ✓ 108C 109C	C-40 ✓	A83✓	✓	✓	✓	✗	✗
7	5	^D ✓ 110F 111D	C-41 ✓	A84✓	✓	✓	✓	✗	✗
6	10	112C ✓	C-41✓	A85✓	✓	✓	✓	✗	✗
5	20	113D ✓	C-42✓	A86✓	✓	✗	✓	✗	
4	40	114C ✓	C-43 ✓	A87✓	✓	✓	✓	✓	
3	75	115C ✓	C-44 ✓	A88✓	✓	✓	✓	✓	
2	85	116E ✓	C-43✓	A89✓	✓	✓	✓	✓	
1	95	^D ✓ 117C 118C	C-44✓	A90✓	✓	✓	✓	✓	

NOTES:

NH4 Stds Vial# STD1 = _____ STD2 = _____ STD3 = _____ STD4 = _____ STD5 = _____

NH4 Spiked with Working Reagent: yes no Time Spiked? _____

NH4 Time Analysed? _____

Small bubbles
in tubing
for carbon →