

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 1 UTC Date (ddmmmyyy) 3 Aug 2018 Lat (N): 70 00.82

Station Name: KUG-01 UTC Time: 1516 Lon (W): 133 50.51

Christine Michael's Station #: 1

CTD File: 2018-98-0001

Water Depth(from surface): 24 m

Sound Speed used by depth sounder: 1500 m/s

CTD Operator: JE

In Air pressure (before/after) 1 - 0.1
Weather/Sea State 8 kts small chop, no ice

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
1	10.5	13	1		✓✓	✓	✓✓	✓✓	
2	Chl Max	10	2		✓✓	✓	✓	✓✓	
3		5	3		✓✓	✓	✓✓	✓✓	
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 13 UTC Date (ddmmmyyyy) 03 ²⁰¹⁸ | Aug | ~~2017~~
 Station Name: KUG-01b UTC Time: 2232
 Lat (N): 70 15.32
 Lon (W): 134 04.77

Christine Michael's Station #: _____

CTD File: 2018-98- 0013

Water Depth(from surface): 43 m

Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) 0.091 -0.06

Weather/Sea State 15 kts, .75m seas

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
4	ChlMax	12	1		✓✓	✓			
5	ChlMin	13	2		✓✓	✓			
6	ChlMin	9	3		✓✓				
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 15

UTC Date (ddmmYYYY) 4 ²⁰¹⁸ | Aug | 2017

Station Name: KUG-01c

UTC Time: 1333

Lat (N): 70 38.96

Lon (W): 134 28.69

Christine Michael's Station #: 2

CTD File: 2018-98-0015

Water Depth(from surface): 61 m

Sound Speed used by depth sounder: 1450 m/s

CTD Operator: JE

In Air pressure (before/after) 0.081 - 0.06

Weather/Sea State small chop 5kts, ice edge

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
7	D ₂ O-5	58	1		✓✓	✓	✓		
8	50	50	2			✓✓	✓		
9	Chl ^{Max}	40	3			✓	✓		
10	Chl ^{Min}	40	4						
11	Chl ^{Min}	40	5						extra bottle, not sampled.
12	Chl ^{Min}	30	6						
13	Chl ^{Min}	20	7				✓		
14	Chl ^{Min}	10	8						
15		5	9			✓	✓✓✓		
16		5	10		✓✓				
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

DIC ~~60~~⁵⁰ to Chl ~~30~~²⁰ 555

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 24 UTC Date (ddmmmyyyy) 5 | Aug ²⁰¹⁸ ~~2017~~ Lat (N): 70 50.05

Station Name: ICE-01 UTC Time: 0032 Lon (W): 133 12.17

Christine Michael's Station #: 3

CTD File: 2018-98-0024

Water Depth(from surface): 65 m

Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) 0.0 1 -0.05

Weather/Sea State calm, new ice edge

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
17	80-5	66 ✓	1			✓	✓		
18		50 ✓	2			✓	✓		
19	CHL	43 ✓	3			✓	✓		
20	CHL	43 ✓	4						
21	46	40 ✓	5			✓			
22	30	30 ✓	6			✓			
23		20 ✓	7			✓	✓		
24		10 ✓	8			✓			
25		5 ✓	9			✓	✓✓		
26		5 ✓	10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 36 UTC Date (ddmmYYYY) 2018 | Aug | 2017 Lat (N): 70 32.23
 Station Name: DAL-01 UTC Time: 2233 Lon (W): 130 50.09

Christine Michael's Station #: 4

CTD File: 2018-98-0036

Water Depth(from surface): 126 m

Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) -0.061 - 0.13

Weather/Sea State Wind ~10 kts, chop.

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
27	B _{0.5}	21 ✓	1		✓✓	✓	✓		
28	C _{1M}	16 ✓	2			✓	✓		
29	C _{1M}	16 ✓	3						
30		10 ✓	4						
31		5 ✓	5			✓	✓✓		
32		5 ✓	6		✓✓				
			7						
			8						
			9						
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 42 UTC Date (ddmmYYYY) 06 ²⁰¹⁸ | Aug | 2017
 Station Name: DAL-01b UTC Time: 1320
 Christine Michael's Station #: 5
 CTD File: 2018-98-0042
 Lat (N): 71 00.81
 Lon (W): 131 04.38

Water Depth(from surface): 56 m
 Sound Speed used by depth sounder: 1450 m/s
 In Air pressure (before/after) 0.02 / -0.11
 Weather/Sea State calm foggy, in 2/10 ice, snowing

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
33	Bo-S	51	✓1		✓✓	✓✓	✓		
34	ChlM	42	✓2		✓✓	✓	✓		
35	ChlM	42	✓3		✓✓				
36		30	✓4		✓✓	✓			
37		20	✓5		✓✓	✓			
38		10	✓6		✓✓	✓	✓		
39		5	7						forgot 2nd bottle at 5, down again, use bots 8&9 for sampling
40		5	8		✓✓	✓	✓✓		
41		5	9		✓✓				
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 52 UTC Date (ddmmmyyyy) 06 | Aug | ²⁰¹⁸~~2017~~ Lat (N): 70 59.28

Station Name: ICE-03 UTC Time: 2235 Lon (W): 130 12.80

Christine Michael's Station #: 6

CTD File: 2018-98-0052

Water Depth(from surface): 43 m

Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) -0.11 / -0.08
Weather/Sea State calm, in ice bay

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
42	Bo-S	38	1		✓✓	✓	✓		
43		30	2		✓X	✓			slow drip on lower end cap, fixed by repositioning
44	ChlM	20	3		✓✓	✓	✓		
45	ChlM	20	4		✓✓				
46		10	5		✓✓	✓	✓		
47		5	6		✓✓	✓	✓✓		
48		5	7		✓✓				
			8						
			9						
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 60 UTC Date (ddmmmyyy): 08 ²⁰¹⁸ | Aug | ~~2017~~ Lat (N): 70 10.32

Station Name: WIS-012 UTC Time: 1856 Lon (W): 124 50.13

Christine Michael's Station #: 7

CTD File: 2018-98-0060

Water Depth(from surface): 47 m
 Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) -0.031 -0.12
 Weather/Sea State calm, foggy, 4/10 ice

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
49	Pro-S	42	✓1		✓	✓	✓		
50	Chl	✓30	✓2		✓	✓	✓		
51	Chl	✓20	✓3		✓	✓	✓		
52	Chl 26	15	✓4		✓	✓	✓		
53	Chl 26	15	✓5						
54	10	10	✓6		✓✓	✓✓	✓✓		
55	5	5	7		✓	✓	✓✓		
56	5	5	8		✓✓				
			9						
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'X' means fail. If riskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 65 UTC Date (ddmmmyyyy) 8 | Aug ²⁰¹⁸ ~~2017~~ Lat (N): 70 06.12

Station Name: W15-01 UTC Time: 2217 Lon (W): 125 03.69

Christine Michael's Station #: 8

CTD File: 2018-98-0065

Water Depth(from surface): 58 m

Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) -0.08 / _____

Weather/Sea State calm, ripples in ice

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Comments
57	D ₀₋₅	53	✓1		✓✓	✓	✓	
58		40	✓2		✓	✓		
59		30	✓3		✓	✓		
60		20	✓4		✓	✓	✓	
61	CHM	16	✓5		✓	✓	✓	
62	CHM	16	✓6		✓			
63	CH	10	✓7		✓	✓		
64		5	✓8		✓✓	✓	✓✓✓	
65		5	✓9					
		5	10					
			11					
			12					

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 74 UTC Date (ddmmmyyyy) 09 ²⁰¹⁸ | Aug | 2017 Lat (N): 70 00.08

Station Name: FKN-06 UTC Time: 1322 Lon (W): 125 24.24

Christine Michael's Station #: 9

CTD File: 2018-98-0074

Water Depth(from surface): 151 m

Sound Speed used by depth sounder: 1450 m/s

CTD Operator: JE

In Air pressure (before/after) -608 / -08
Weather/Sea State calm, ice in area

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
66	Bo-5	46	1		✓✓	✓	✓		
67		40	2		✓	✓			
68		30	3		✓✓	✓✓			
69	ChlM	20	4		✓	✓	✓		
70	ChlM	10	5		✓	✓	✓		
71	ChlM	10	6		✓	✓	✓		
72		10	7		✓	✓	✓		
73		5	8		✓✓	✓✓	✓✓		
74		5	9		✓✓	✓✓	✓✓		
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 81 UTC Date (ddmmmyyy) 09 | Aug | ²⁰¹⁶~~2017~~ Lat (N): 70 05.14

Station Name: FXN-05 FRX-06 UTC Time: 1845 Lon (W): 125 25.52

Christine Michael's Station #: 10

CTD File: 2018-98-6081

Water Depth(from surface): 7283 m

Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) -0.07 / -0.08

Weather/Sea State calm, ice in area

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
75	B ₀ -5	79	✓ 1			✓	✓		
76		70	✓ 2			✓			
77		60	✓ 3			✓	✓		
78		50	✓ 4			✓	✓		
79		40	✓ 5			✓			
80		30	✓ 6			✓	✓		
81	CLIM	18	✓ 7			✓	✓		
82	CLIM	18	✓ 8						
83		10	✓ 9			✓			
84		5	✓ 10			✓	✓		
85		5	✓ 11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 89 UTC Date (ddmmmyyyy) 10 ²⁰¹⁸ Aug | 2017 Lat (N): 69 38.20

Station Name: DUS-02 UTC Time: 1902 Lon (W): 120 42.93

Christine Michael's Station #: 11

CTD File: 2018-98-0089

Water Depth(from surface): 102 m

Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) -0.041-0.08

Weather/Sea State calm, ice in area

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
86	Bots	98	✓1		✓✓	✓✓	✓		
87		80	✓2			✓			
88		70	✓3			✓			
89		60	✓4			✓			
90	ChlM	48	✓5			✓	✓		
91	ChlM	48	✓6						
92		40	✓7			✓			
93		30	✓8			✓			
94		20	✓9			✓	✓		
95		10	✓10			✓			
96		5	11			✓	✓✓	✓	bottle 11 mount broke, use only as extra Chl water
97		5	12		✓✓	✓✓	✓	✓	

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 97 UTC Date (ddmmmyyyy) 10 | Aug | 2018 Lat (N): 69 39.28

Station Name: DUS-03 UTC Time: 2304 Lon (W): 120 34.36

Christine Michael's Station #: 12

CTD File: 2018-98-0097

Water Depth(from surface): 1217 m

Sound Speed used by depth sounder: 1450 m/s

CTD Operator: JE

-0.05

In Air pressure (before/after) -0.05 -0.04

Weather/Sea State calm, distant ice

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
98	B-5	209	✓1			✓	✓		
99		200	✓2			✓	✓		
100	381	163	✓3			✓	✓		
101	381	150	✓4			✓	✓		
102		100	✓5			✓	✓		
			6						
			7						
			8						
			9						
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 98 UTC Date (ddmmmyyy) 10 ²⁰¹⁸ Aug 2017 Lat (N): 69 39.08

Station Name: DUS-03 (2) UTC Time: 2344 Lon (W): 120 33 90

Christine Michael's Station #: 12

CTD File: 2018-98-0098

Water Depth(from surface): 218 m

Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) -0.04, -0.05
Weather/Sea State calm, distant ice

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
103		80	✓1			✓			
104		70	✓2			✓			
105		60	✓3			✓			
106	Chlorophyll	50	✓4			✓	✓		
107		50	✓5						
108		40	✓6			✓			
109		30	✓7			✓			
110		20	✓8			✓	✓		
111		10	✓9			✓			
112		5	✓10			✓	✓✓		
113		5	✓11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 105 UTC Date (ddmmYYYY) 11 ²⁰¹⁸ | Aug | ~~2017~~
 Station Name: DUS-04 UTC Time: 1416
 Lat (N): 69 43.63
 Lon (W): 119 57.26

Christine Michael's Station #: 13

CTD File: 2018-98-0105

Water Depth(from surface): 352 m
 Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) 0.021 - 0.07
 Weather/Sea State 1m seas, 15kts wind

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
114	B ₀ -10	342	✓1		✓✓	✓✓	✓		
115		300	✓2			✓	✓		
116		200	✓3			✓	✓		
117	5.1	150	4			✓	✓		
118	33.1	140	5		✓✓	✓	✓		CHLOR 60
			6						
			7						
			8						
			9						
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 115 UTC Date (ddmmYYYY) 12 ²⁰¹⁸ | Aug | ~~2017~~ Lat (N): 69 54.37

Station Name: D05-07 UTC Time: 1313 Lon (W): 118 19.77

Christine Michael's Station #: 14

CTD File: 2018-98- 0115

Water Depth(from surface): 561 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) 0.04 / -0.08

Weather/Sea State ~ 1 m seas wind 10kts

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nts	Comments
119	B 0 -10	491	✓1		✓✓	✓	✓		
120		300	✓2		✓✓	✓✓			
121		200	✓3		✓✓	✓	✓		lower cap drip, fixed by repositioning
122		150	✓4		✓✓	✓			
123	33.1	115	✓5		✓✓	✓	✓		CHL Max 47
124		100	6						
			7						
			8						
			9						
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 117 UTC Date (ddmmmyyyy) 12 ²⁰¹⁸ Aug 2017 Lat (N): 69 54.27

Station Name: DUS-07 UTC Time: 1432 Lon (W): 118 20.27

Christine Michael's Station #: 14

CTD File: 2018-98-0117

Water Depth(from surface): 1499 m

Sound Speed used by depth sounder: 1451 m/s

CTD Operator: JE

In Air pressure (before/after) -09 1-0.05
Weather/Sea State 1 m seas, wind 15 kts

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
124		100	✓1			✓	✓		
125		80	✓2			✓			
126		70	✓3			✓			
127		60	✓4			✓			
128	Chl ₁₂₄	47	✓5			✓	✓		
129	Chl ₁₂₄	47	✓6						
130		40	✓7			✓			
131		30	✓8			✓			
132		20	✓9			✓	✓		
133		10	✓10			✓			
134		5	✓11			✓	✓✓		
135		5	✓12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'X' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 124 UTC Date (ddmmmyyy): 13 | Aug | ²⁰¹⁸~~2017~~
 Station Name: DUS-09 UTC Time: 1313
 Lat (N): 69 58.33
 Lon (W): 117 43.95

Christine Michael's Station #: 15

CTD File: 2018-98-0124

Water Depth(from surface): 203 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) -0.05 / -0.08

Weather/Sea State 5kts, small chop

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
136	B0-5	192	✓1		✓✓	✓	✓		
137	331	152	✓2		✓	✓	✓		
138	331	152	✓3		✓	✓	✓		
139		160	✓4		✓✓	✓	✓		
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 126 UTC Date (ddmmmyyyy) 13 ²⁰¹⁸ | Aug | 2017 Lat (N): 69 58.18

Station Name: DUS-09 UTC Time: 1402 Lon (W): 117 43.94

Christine Michael's Station #: 15

CTD File: 2018-98-0126

Water Depth(from surface): 206 m

Sound Speed used by depth sounder: 1451 m/s

CTD Operator: JE

In Air pressure (before/after) -0.06 / -0.14
Weather/Sea State 5kts small chop

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
140		80	✓1			✓			
141		70	✓2						
142		60	✓3						
143		50	✓4				✓		
144	Chlorophyll	45	✓5						
145	Chlorophyll	45	✓6			✓			
146	Chlorophyll	40	✓7						
147		30	✓8			✓			
148		20	✓9				✓		
149		10	✓10						
150		5	✓11				✓✓		
151		5	✓12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

05

Rosette Log for IOS Cruise ID 2018-98

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 133 UTC Date (ddmmmyyyy) 13 ²⁰¹⁸ | Aug | 2017

Lat (N): 69 59.70

Station Name: DUS-10 UTC Time: 1919

Lon (W): 117 30.97

Christine Michael's Station #: 16

CTD File: 2018-98-0133

Water Depth(from surface): 105 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) -0.13 / -0.11

Weather/Sea State 5kts, small chop, sunny

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Comments
152	B ₀₋₅	90	✓1		✓	✓	✓	
153		80	✓2		✓	✓		
154		70	✓3		✓	✓		
155	CHIM	61	✓4		✓	✓	✓	
156	CHIM	61	✓5		✓	✓	✓	
157		50	✓6		✓	✓		
158		40	✓7		✓	✓		
159		30	✓8		✓	✓		
160		20	9		✓	✓	✓	
161		10	10		✓	✓		
162		5	11		✓	✓	✓✓	
163		5	12					

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 142 UTC Date (ddmmmyyyy) 14 ²⁰¹⁸ Aug 2017
 Station Name: MTI-04 UTC Time: 1309
 Christine Michael's Station #: 17
 CTD File: 2018-98-0142

Water Depth(from surface): 173 m
 Sound Speed used by depth sounder: 1451 m/s
 CTD Operator: JE
 In Air pressure (before/after) -0.13 / -0.18
 Weather/Sea State 10kts, small chop

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
164	B-5	169	1		✓	✓	✓		
165		150	2		✓	✓	✓		
166	5-33.1	136	3		✓	✓	✓		
167		100	4		✓	✓	✓		
			5						Chlorophyll 48
			6						
			7						
			8						
			9						
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 144 UTC Date (ddmm/yyyy) 14 Aug 2018

Lat (N): 71 17.72

Station Name: MT1-04 UTC Time: 1400

Lon (W): 117 20.28

Christine Michael's Station #: 17

CTD File: 2018-98-0144

Water Depth(from surface): 179 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) -0.15 / -0.12

Weather/Sea State 10 kts 2.05m seas

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
169		80	✓1		✓	✓			
169		70	✓2		✓	✓			
170		60	✓3		✓	✓			
171	ChlM	48	✓4		✓	✓	✓		
1702	ChlM	48	✓5						
173		40	✓6		✓	✓			
174		30	✓7		✓	✓			
175		20	✓8		✓	✓	✓		
176		10	✓9		✓	✓			
177		5	✓10		✓	✓	✓		
178		5	✓11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 151 UTC Date (ddmmmyyyy) 14 ²⁰¹⁸ Aug 2017 Lat (N): 71 22.21

Station Name: MT1-03 UTC Time: 1905 Lon (W): 117 28.81

Christine Michael's Station #: 18

CTD File: 2018-98- 0151

Water Depth(from surface): 147 m

Sound Speed used by depth sounder: 1451 m/s

CTD Operator: JE

In Air pressure (before/after) 0.041 - 0.13
Weather/Sea State 10 kts, choppy

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
179	D ₂ -5	141	✓1		✓✓	✓✓	✓		
180	D ₂ -5		✓2			✓	✓		
181		100	✓3		✓✓	✓	✓		
			4						
			5						Chl Max 52
			6						
			7						
			8						
			9						
			10						
			11						
			12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 153 UTC Date (ddmmmyyyy) 14 ²⁰¹⁸ Aug 2017 Lat (N): 71 22.03

Station Name: MT1-03 UTC Time: 1941 Lon (W): 117 28.54

Christine Michael's Station #: 18

CTD File: 2018-98-0153

Water Depth(from surface): 153 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) 0.021 - 0.12

Weather/Sea State 10 kts Small chop

CTD Operator: JE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
87 182		80	✓1		✓✓	✓			
88 183		70	✓2			✓			
89 184		60	✓3			✓			
90 185	Chl	48	✓4		✓✓	✓	✓		
91 186	Chl	48	✓5						
92 187		40	✓6		✓✓	✓			
93 188		30	✓7			✓			
94 189		20	✓8			✓	✓		
95 190		10	✓9			✓			
96 191		5	✓10		✓✓	✓	✓✓		
97 192		5	✓11						
98 193		5	12						

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 160 UTC Date (ddmm/yyyy) 15 Aug 2018 Lat (N): 71 24.62
 Station Name: MT1-07 UTC Time: 1309 Lon (W): 116 08.32

Christine Michael's Station #: 19

CTD File: 2018-98- 0160

Water Depth(from surface): 145 m

Sound Speed used by depth sounder: 1451 m/s

CTD Operator: JE

In Air pressure (before/after) -0.12 / -0.09

Weather/Sea State 15kts, 5m seas, sheltered.

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/Aik	Comments
193	170-5	136	1	✓✓	✓✓	✓	
			2				
			3				
			4				Chl MaxE 52
			5				
			6				
			7				
			8				
			9				
			10				
			11				
			12				

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'X' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 162 UTC Date (ddmm/yyyy) 15 Aug 2018

Station Name: MT1_07 UTC Time: 1353

Christine Michael's Station #: 19

CTD File: 2018-98-0162

Water Depth(from surface): 136 m

Sound Speed used by depth sounder: 1451 m/s

CTD Operator: JE

Lat (N): 71 24 53

Lon (W): 116 08.27

In Air pressure (before/after) -0.10 / -0.11

Weather/Sea State 15 kts 0.75m chop sheltered

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/AIK	Comments
194		100	✓1	✓✓	✓		
195		80	✓2		✓		
196		70	✓3		✓		
197		60	✓4		✓		
198	ChlM _{ax}	52	✓5		✓		
199	ChlM _{ax}	52	✓6				
200		40	✓7		✓		
201		30	✓8		✓		
202		20	✓9		✓		
203		10	✓10		✓		
204		5	✓11		✓	✓✓	
205		5	✓12	✓✓			

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 168 UTC Date (ddmmYYYY) 15 Aug 2018 Lat (N): 71 29.77

Station Name: MTI-08 UTC Time: 1835 Lon (W): 116 00.83

Christine Michael's Station #: 20

CTD File: 2018-98-0168

Water Depth(from surface): 170 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) -0.091 -0.13

CTD Operator: JE Weather/Sea State 20kts 1m Sw

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/Alk	Comments
206	B ₂ -10	157	1	✓✓	✓	✓	
207		150	2	✓✓	✓		
208		100	3	✓✓	✓	✓	
			4				
			5				
			6				Chl/Phx @ 43
			7				
			8				
			9				
			10				
			11				
			12				

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 169 UTC Date (ddmmmyyyy) 15 Aug 2018 Lat (N): 71 29.69
 Station Name: MTI-08 UTC Time: 1913 Lon (W): 116 01.21

Christine Michael's Station #: 20

CTD File: 2018-98- 0169

Water Depth(from surface): 165 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) -0.07 / -0.12
 Weather/Sea State 15 kts 75 m seas

CTD Operator:

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/Aik	Comments
209		80	✓1	✓✓	✓		
210		70	✓2	✓	✓		
211		60	✓3	✓	✓		
212		50	✓4	✓	✓		
213	ChlMax	43	✓5	✓✓	✓	✓	
214	ChlMax	43	✓6				
215		43	✓7				accidental extra bottle
216		30	✓8	✓✓	✓	✓	
217		20	✓9	✓	✓	✓	
218		10	✓10	✓	✓		
219		5	✓11	✓✓	✓	✓✓	
220		5	✓12				

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 176 UTC Date (ddmm/yyyy) 16 Aug 2018

Lat (N): 71 24.33

Station Name: MTL-06 UTC Time: 1307

Lon (W): 116 32.13

Christine Michael's Station #: 21

CTD File: 2018-98-0176

Water Depth(from surface): 200 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) -0.20 / -0.20

CTD Operator: JE

Weather/Sea State 20 kts f m seas
increasing

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/Aik	Comments
221	Bo-10	187	V1	✓	✓	✓	
222	33.1	164	V2		✓	✓	
223		150	V3		✓	✓	
224		80	V4		✓	✓	
225		60	V5	✓	✓	✓	
226		66	V6				
227		50	V7	✓	✓	✓	
228		40	V8		✓		
229		30	V9		✓		
230		20	V10		✓	✓	
231		5	V11	✓	✓	✓	
232		5	V12				

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'X' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 182 UTC Date (ddmm/yyyy) 16 Aug 2018

Station Name: NT1-05 UTC Time: 2145

Christine Michael's Station #: 22

CTD File: 2018-98-0182

Water Depth(from surface): 282 m

Sound Speed used by depth sounder: 1451 m/s

CTD Operator: JE

In Air pressure (before/after) -0.18 / -0.26

Weather/Sea State 15 kts, 0.75 m seas, calm

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/Aik	Comments
233	Bo-S	268	1	✓✓	✓	✓	
234		200	2	✓✓	✓	✓	Lower O-ring drip fixed by re-sealing cap
235	33.1	160	3	✓✓	✓	✓	
236		100	4	✓✓	✓	✓	
237		100	5	✓✓	✓	✓	
			6				Ch Max @ 53
			7				
			8				
			9				
			10				
			11				
			12				

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 184 UTC Date (ddmm/yyyy) 16 Aug 2018 Lat (N): 71 14.06

Station Name: M11-05 UTC Time: 2245 Lon (W): 117 16.39

Christine Michael's Station #: 22

CTD File: 2018-98-0184

Water Depth(from surface): 284 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) -0.24 / -0.24

Weather/Sea State 15 kts .75 m seas

CTD Operator:

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/Aik	Comments
237		80	✓1	✓✓	✓		
238		70	✓2	✓✓			
239		60	✓3	✓✓			
240		52	✓4	✓✓	✓		
241		52	✓5				
242		40	✓6	✓✓	✓		
243		30	✓7				
244		20	✓8		✓		
245		10	✓9	✓✓	✓		
246		5	✓10				
247		5	✓11	✓✓	✓	✓✓	
2			12				

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 191 UTC Date (ddmmmyyyy) 18 Aug 2018 Lat (N): 71 24.52
 Station Name: BIN-01 UTC Time: 1436 Lon (W): 117 26.69

Christine Michael's Station #: 23

CTD File: 2018-98-0191

Water Depth (from surface): 70 m

Sound Speed used by depth sounder: 1451 m/s

CTD Operator: JE

In Air pressure (before/after) -0.17 / -0.12

Weather/Sea State 30 kts, 75 m seas in Chatham Bay

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/AIK	Comments
248	B _{0.5}	66	✓1	✓✓	✓	✓	
249		60	✓2	✓✓	✓✓		
250	Chl _{MAX}	56	✓3	✓✓	✓	✓	
251	Chl _{MAX}	56	✓4				
252		56	✓5		✓	✓	
253		50	✓6	✓✓	✓	✓	
254		40	✓7	✓✓	✓		
255		30	✓8	✓✓	✓		
256		20	✓9	✓✓	✓	✓	
257		10	✓10	✓✓	✓		
258		5	✓11	✓✓	✓	✓✓	
259		5	✓12				

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: MTL-02 UTC Date (ddmm/yyyy) 19 Aug 2018 Lat (N): 71 15.23

Station Name: 193 UTC Time: 1330 Lon (W): 118 12.27

Christine Michael's Station #: 24

CTD File: 2018-98-0193

Water Depth(from surface): 222 m

Sound Speed used by depth sounder: 1451 m/s

CTD Operator: JE

In Air pressure (before/after) -0.05 / -0.14

Weather/Sea State lumpy waves decreasing

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/AIK	Comments
260	B ₀₋₅	211	1✓		✓	✓	
261		200	2✓		✓	✓	
262	33.1	157	3✓		✓	✓	
263	150	190	4✓		✓		
264		100	5✓		✓	✓	
			6				
			7				
			8				
			9				
			10				
			11				
			12				

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'X' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 195 UTC Date (ddmmmyyyy) 19 Aug 2018

Station Name: MT1-02 UTC Time: 1413

Christine Michael's Station #: 24

CTD File: 2018-98- 6195

Water Depth(from surface): 223 m

Sound Speed used by depth sounder: 1451 m/s

CTD Operator: JE

In Air pressure (before/after) -0.04 / -0.05

Weather/Sea State long low swell, decreasing
wind increasing with

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/AIK	Comments
265		80	1	✓	✓		
266		70	2	✓	✓		
267		60	3	✓	✓		
268		50	4	✓	✓	✓	
269	Chlor	40	5	✓	✓	✓	
270	Chlor	40	6	✓			
271		40	7	✓	✓		
272		30	8	✓	✓		
273		20	9	✓	✓	✓	
274		10	10	✓	✓		
275		5	11		✓	✓	
276		5	12				

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 203 UTC Date (ddmmmyyyy) 19 Aug 2018

Lat (N): 71 04.16

Station Name: MT1-01 UTC Time: 2110

Lon (W): 119 20.65

Christine Michael's Station #: 25

CTD File: 2018-98-0203

Water Depth(from surface): 167 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) 0.01 / -0.10

CTD Operator: _____ Weather/Sea State 1 m seas 10 kts

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/Aik	Comments
277	B-5	155	1		✓	✓	
278	B-1	125	2		✓	✓	
279	1	100	3		✓	✓	
			4				
			5				
			6				
			7				
			8				
			9				
			10				
			11				
			12				

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2018-98 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 205 UTC Date (ddmm/yyyy) 19 Aug 2018 Lat (N): 71 04.03

Station Name: MT1-01 UTC Time: 2154 Lon (W): 119 20.50

Christine Michael's Station #: 25

CTD File: 2018-98-0205

Water Depth(from surface): 166 m

Sound Speed used by depth sounder: 1451 m/s

CTD Operator: SE

In Air pressure (before/after) 0.17 1-0.04
Weather/Sea State 1 m / unpy seas wind 0-15 kts

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity	Salinity	DIC/AIK	Comments
280		80	1	✓	✓		
281		70	2	✓	✓		
282		60	3	✓	✓		
283	Chl	51	4	✓	✓	✓	
284	Chl	51	5	✓			
285		40	6	✓	✓		
286		30	7	✓	✓		
287		20	8	✓	✓	✓	
288		10	9	✓	✓		
289		5	10	✓	✓		
290		5	11	✓	✓	✓	
			12				

Bottle integrity: First test lower petcock then test top valve. 'Check' means pass, 'x' means fail. If niskin fails, explain this in the comments column.

Comments: