

Rosette Log for IOS Cruise ID 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 8UTC Date (ddmmmyyyy) 2 Aug 2019Lat (N): 70 32.22Station Name: CPB-01UTC Time: 2031Lon (W): 127 44.15Christine Michael's Station #: 1

+sp log 8

CTD File: 2019-86-0008.hdfWater Depth(from surface): 20 mSound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) 0.005 0.066

CTD Operator: MD

Weather/Sea State wind 5 kts scattered

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	nuts	Comments
1		15	1			x			in 120 ml HM salt bottles.
2		10	2			x			
3	chlmed	5	3			x			
4	chlmax	5	4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 26UTC Date (ddmmmyyyy) 3 | Aug | 2019Lat (N): 70 34.06Station Name: CPB-02UTC Time: 1357Lon (W): 127 33.39Christine Michael's Station #: 2CTD File: 2019-86_0026_hexWater Depth(from surface): 121 mSound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) 0.05 0.02

CTD Operator: MD

Weather/Sea State wind SE 15-20 /m seas.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
5	Bottom	119	1			✓			no 33.1 layer yet.
6		100	2			✓			
7		80	3			✓			
8		70	4			✓			
9		60	5			✓			
10		50	6			✓			
11		40	7			✓			
12	chlmax	31	8			✓			
13	chlmax	31	9						
14		20	10			✓			
15		10	11			✓			
16		5	12			✓			
17		5	13						
			14						
			15						
			16						

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 30UTC Date (ddmmmyyyy) 3 | Aug | 2019Lat (N): 70° 35.72'Station Name: CPB-03UTC Time: 1753Lon (W): 127° 35.77'Christine Michael's Station #: 3CTD File: 2019-86-0030_hexWater Depth(from surface): 238 mSound Speed used by depth sounder: 1448 m/s

CTD Operator: MD

In Air pressure (before/after) 0.06, 0.04Weather/Sea State wind 15 SE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
18		226	1			X			
19		200	2			X			
20	33.1	150	3			X			
21		100	4			X			
22		80	5			X			
23		70	6			X			
24		60	7			X			
25		50	8			X			
26	chl max	44	9			X			
27	chl max	44	10						
28		30	11			X			
29		20	12			X			
30		10	13			X			
31		5	14			X			
32		5	15						
			16						

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 47 UTC Date (ddmmmyyyy) 4 Aug | 2019Lat (N): 70° 40.91'Station Name: CPL-06 UTC Time: 1623Lon (W): 126° 49.00'Christine Michael's Station #: 4CTD File: 2019-86-0047.hexWater Depth(from surface): 305 mSound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) 0.08, -0.05

CTD Operator: MD

Weather/Sea State 1-2 m seas wind 15-22 SE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	nuts	Comments
33		293	1			X			
34		200	2			X			
35		150	3			X			
36	33.1	126	4			X			
37		100	5			XX			
38		80	6			XX			
39		70	7			X			
40		60	8			X			
41	chlmer	47	9			X			
42	chlmer	47	10						
43		40	11			X			
44		30	12			X			
45		20	13			X			
46		10	14			X			
47		5	15			X			
48		5	16						

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 51 UTC Date (ddmmmyyyy) 4 Aug | 2019Lat (N): 70° 48.40'Station Name: CPB-07 UTC Time: 2230Lon (W): 126° 06.67'Christine Michael's Station #: 5CTD File: 2019-86-0051-4exWater Depth(from surface): 358 mSound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) 0.03, 0.05

CTD Operator: MD

Weather/Sea State wind < 15 kts SE low swell

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	nuts	Comments
49		349	1			X			Teemviewer locked up.
50		300	2			X			
51		200	3			X			
52		150	4			X			
53	33.1	70.6	5			X			
54		100	6			XX			
55		80	7			X			
56		70	8			X			
57		60	9			X			
58		50	10			X			
59		40	11			X			
60	cllms	32	12						
61	cllms	32	13						
62		20	14			X			
63		10	15			X			
64		5	16			X			

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 59UTC Date (ddmmmyyyy) 6 Aug 2019Station Name: CPB-08UTC Time: 1538Lat (N): 70 55.Christine Michael's Station #: 6Lon (W): 125 21.CTD File: 2019-86-0059Water Depth(from surface): 34 mSound Speed used by depth sounder: 1448 m/s

CTD Operator: MD

In Air pressure (before/after) 0.03 0.05Weather/Sea State wind ~20 NW 1-2m.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
65		350	1	✓		X			
66		300	2	✓		X			
67		200	3	✓		X			
68		150	4	✓		X			
69		100	5	✓		X			
70	33.1	85	6	✓		X			
71		80	7	✓		X			
72		70	8	✓		X			
73		60	9	✓		X			
74	chl a	47	10	✓		X			
75	chl a	47	11	✓		X			
76		40	12	✓		X			
77		30	13	✓		X			
78		20	14	✓		X			
79		10	15	✓		X			
80		7	16	✓		X			

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 68UTC Date (ddmmmyyyy) 6 | Aug | 2019Lat (N): 71 03.67Station Name: CPB-09UTC Time: 2314Lon (W): 124 37.82Christine Michael's Station #: 7CTD File: 2019-86-0068Water Depth(from surface): 329 mSound Speed used by depth sounder: 1448 m/s

CTD Operator: MD

In Air pressure (before/after) —, 0.07Weather/Sea State <10 kts NW swell 1.5m

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
81	Bot	319	1	✓		X			down 55m then back to surface to start pump
82		300	2	✓		X			
83		200	3	✓		X			
84		190	4	✓		X			
85	33.1	132	5	✓		X			
86	33.1	100	6	✓		X			
87		80	7	✓		X			
88		70	8	✓		X			
89		60	9	✓		X			
90	Chng	48	10	✓		X			
91	Chng	48	11	✓		X			
92	Chng	40	12	✓		X			
93	Chng	30	13	✓		X			
94		20	14	✓		X			
95		10	15	✓		X			
96		5	16	✓		X			

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #:

77

UTC Date (ddmmmyyyy)

7 Aug 2019

Lat (N):

71° 10.73'

Station Name:

CPB-10

UTC Time:

1342

Lon (W):

123° 51.87'

Christine Michael's Station #:

8

CTD File: 2019-86-0077

Water Depth(from surface):

255

m

Sound Speed used by depth sounder:

1448

m/s

In Air pressure (before/after)

0.04/0.08

CTD Operator: MD

Weather/Sea State

calm by ripple

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
96	Bot	243	1	✓		X			
97		200	2	✓		X			
98		150	3	✓		X			
99	33.1	139	4	✓		X			
100		100	5	✓		X			
101		80	6	✓		X			
102		70	7	✓		X			
103		60	8	✓		X			
104	chl	50	9	✓		X			
105	chl	50	10	✓		X			
106		40	11	✓		X			
107		30	12	✓		X			
108		20	13	✓		X			
109		10	14	✓		X			
110		5	15	✓		X			
111		5	16	✓		X			

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 87UTC Date (ddmmmyyyy) 7 Aug 2019Lat (N): 71 15.23Station Name: CPB-11UTC Time: 1946Lon (W): 123 28.21Christine Michael's Station #: 9CTD File: 2019-86-0087Water Depth(from surface): 171 mSound Speed used by depth sounder: 1440 m/s

CTD Operator: MD

In Air pressure (before/after) 0.14, 0.01Weather/Sea State <5kt> low swell

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	nuts	Comments
112	Bottom	164	1	✓		X			triggered 4m from slope!
113		150	2	✓		X			
114	33.1	126	3	✓		X			
115		100	4	✓		X			
116		80	5	✓		X			
117		60	6	✓		X			
118		60	7	✓		X			
119	ch/mex	53	8	✓		X			
120	ch/mex	33	9	✓		X			
121		40	10	✓					
122		30	11	✓		X			
123		20	12	✓		X			
124		10	13			X			
125		5	14			X			
126		5	15			X			
			16						

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 111 UTC Date (ddmmmyyyy) 10 | Aug | 2019Lat (N): 71 03.07Station Name: KUB-05 UTC Time: 2152Lon (W): 134 52.44Christine Michael's Station #: 10 cast 1CTD File: 2019-86-0111

Wire angle ~ 25° to Port.

Water Depth(from surface): 504 mSound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) 0.04, 0.07

CTD Operator: MD

Weather/Sea State W 15-20 seas < 1.0m

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	nuts	Comments
127	BOT	453	14	✓		X			teamviewer hung!
128		300	2	✓		X			
129		200	3	✓		X			
130		152	4	✓		X			
131		100	5	✓		X			
132		80	6	✓		X			
133		70	7	✓		X			
134		60	8	✓		X			
135	chl	50	9	✓		X			
136	chl	40	10	✓					
137		40	11	✓		X			
138		30	12	✓		X			
139		20	13	✓		X			
140		10	14	✓		X			
141		15	15	✓		X			
142		5	16	✓					

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 118UTC Date (ddmmmyyyy) 11 Aug 2019Lat (N): 71 17.Station Name: KVL-07UTC Time: 13Lon (W): 135 06.Christine Michael's Station #: 11CTD File: 2019-86-0118Water Depth(from surface): 1008 mSound Speed used by depth sounder: 1448 m/s

CTD Operator: MD

In Air pressure (before/after) 0.02, 0.04Weather/Sea State WNW 15 choppy

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
143	670m	985	1			X			
144	750		2			X			
145	500		3			X			
146	300		4			X			
	200		5						
33.1			6						
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 120UTC Date (ddmmmyyyy) 11 Aug 2019Lat (N): 71 16.97Station Name: R06-07UTC Time: 1515Lon (W): 135 06.72Christine Michael's Station #: 11CTD File: 2019-86- 0120Water Depth(from surface): 1009 mSound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) 0.02, 0.03

CTD Operator: MD

Weather/Sea State WNW 10-15 choppy.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
147		200	✓1			X			
148	33.1	149	✓2			X			
149		100	✓3			X			
150		80	✓4			X			
151		70	✓5			X			
152		60	✓6			X			
153	chl	50	✓7			X			
154	chl	50	✓8						
155		40	✓9			X			
156		30	✓10			X			
157		20	✓11			X			
158		10	✓12			X			
159		5	✓13			X			
160		5	✓14						
			15						
			16						

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 128UTC Date (ddmmmyyyy) 12 Aug | 2019Lat (N): 71°09.45Station Name: KUG-06UTC Time: 1325Lon (W): 134°58.20Christine Michael's Station #: 12CTD File: 2019-86-0128Water Depth(from surface): 738 mSound Speed used by depth sounder: 1448 m/s

CTD Operator: MD

In Air pressure (before/after) 0.06, -0.01Weather/Sea State NW 20-25 1-2m.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	nuts	Comments
161	Bot	720	1	✓		X			
162	500	500	2	✓		X			
163	300	300	3	✓		X			
164		200	4	✓		X			
165	S=33.1	151	5	✓		X			screen lost 1353.
166		100	6	✓		X			
167		80	7	✓		X			
168		70	8	✓		X			
169		60	9	✓		X			
170	Chl max	47	10	✓	XX	X			fishes from top. #08-1-10
171	Chl max	47	11	✓		X			
172		40	12	✓		X			
173		30	13	✓		X			
174		20	14	✓		X			
175		10	15	✓		X			
176		5	16			X			

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 134UTC Date (ddmmmyyyy) 12 | Aug | 2019Lat (N): 70 58.86Station Name: RUB-04UTC Time: 2002Lon (W): 134 48.23Christine Michael's Station #: 13CTD File: 2019-86-0134Water Depth(from surface): 344 mSound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) 0.05, 0.09

CTD Operator: MD

Weather/Sea State W20 seas 1-2m.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
177	Bot	343	1	✓		X			
178	200	300	2	✓		X			
179	200	200	3	✓		X			
180	33.1	168	4	✓		X			
181	100	150	5	✓		X			
182	80	100	6	✓		X			
183	70	80	7	✓		X			
184	60	70	8	✓		X			
185	50	60	9	✓		X			
186	40	50	10	✓		X			
187	Ch1	44	11	✓		X			
188	Ch1	41	12	✓		X			
189		30	13	✓		X			
190		20	14	✓		X			
191		10	15	✓		X			
192		5	16	✓		X			

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 144UTC Date (ddmmmyyyy) 13 Aug 2019Lat (N): 71 22.54Station Name: KUG-08UTC Time: 1321Lon (W): 135 12.84Christine Michael's Station #: 14CTD File: 2019-86-0144Water Depth(from surface): 11306 m EK80 1274 mSound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) 0.03

CTD Operator: MD

Weather/Sea State Wind SE 12-15 knots well 1m.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
193	bot	1293	1	✓		X			
194		1060	2	✓		X			
195		750	3	✓		X			
196		500	4	✓		X			
197		300	5	✓		X			
198		200	6	✓		X			
			7						
			8						
			9						
			10						
			11						
			12						
			13						
			14						
			15						
			16						

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 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 146 UTC Date (ddmmmyyyy) 13 | Aug | 2019Station Name: RUB-08 UTC Time: 15Christine Michael's Station #: 14CTD File: 2019-86-0146Lat (N): 71 22Lon (W): 135Water Depth(from surface): 1253 m EK80Sound Speed used by depth sounder: 1462 m/s

CTD Operator: MD

In Air pressure (before/after) 0.12, 0.04Weather/Sea State SE20 1m seas.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	nuts	Comments
199	33.1	150	1	✓		X			
200		100	2	✓		X			
201	33.1	80	3	✓		X			
202	33.1	60	4	✓		X			
203		60	5	✓		X			
204		50	6	✓		X			
205	chl a	45	7	✓		X			
206	chl a	45	8	✓		X			
207		40	9	✓		X			
208		30	10	✓		X			
209		20	11	✓		X			
210		10	12	✓		X			
211		5	13			X			
212		2	14						
			15						
			16						

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: