

Rosette Log for IOS Cruise ID 2021-38 Ship: FV Frosti Program: CBS-MEA

Event #: 31

UTC Date 2021-08-07

Lat (N): 71 17.80

Station Name: MTI-04

UTC Time: 2023

Lon (W): 117 20.43

Sequential Station #: 1

Water Depth(from EK80): 175 m

Weather/Sea State 0.5m waves, wind N15, 5knot

CTD File: 2021-38-0031

CTD Operator: JE

Ice Coverage 0/10

In Air pressure (before/after) 1

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Aik	Nut	Taxonomy	O18	Comments	std depths
1	30	114.1	1			✓	✓	✓		✓	3300 bottom	bot
2	100	159.2	2			✓✓	✓✓✓				39.20	1000
3	80	154	3			✓					39.45	500
4	60	149	4			✓					42.23	300
5	50	143	5			✓					44.18	200
6	40	137	6					✓			46.11 S=33.1	s=33.1
7	30	130	7								48.18	100
8	20	124	8								50.14	80
9	10	118	9								52.16	60
10	3	111	10			✓	✓	✓		✓	54.27 ~100	50
			11									ChlMax
			12									40
			13									30
			14									20
			15									10
			16									5

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: AFM closed all bottles but bottom at wrong depth

Rosette Log for IOS Cruise ID 2021-38

Ship: FV Frosti

Program: CBS-MEA

AFM v 12.2
19.1 13.1

Event #: 40

UTC Date 2021-08-08

Lat (N): 71 14 09

Station Name: MTI-05

UTC Time: 1456

Lon (W): 117 16.65

Sequential Station #: 2

Water Depth(from EK80): 283 m

Weather/Sea State: Mod chop, 11 knots, high cloud

CTD File: 2021-38-0040

CTD Operator: JE

Ice Coverage 0/10

In Air pressure (before/after) 1

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Taxonomy	O18	Comments	std depths
11	Bot	257 ¹²⁵	1			✓	✓	✓			08.54 Magnet 255	bot
12	200	252	2			✓	✓	✓			2.42	1000
13	150	247	3			✓	✓	✓			16.21	500
14	100	240	4			✓	✓	✓			19.43	300
15	80	233	5								22.07	200
16	66	225	6								24.23	S=33.1
17	50	218	7			✓					26.25-CHIMAX	100
18	40	210	8								28.33	80
19	30	202	9								30.28	60
20	20	194	10				✓				32.35	50
21	10	188	11								34.28	CHIMAX
22	5	182	12			✓	✓	✓			37.15	40
23			13									30
2			14									20
			15									10
			16									5

Comments: drifting SE @ 21kt throughout cast

AFM closed all bottles but bottom at wrong depths

Rosette Log for IOS Cruise ID 2021-38 Ship: FV Frosti Program: CBS-MEA

Event #: 52 UTC Date 2021-08-08 Lat (N): 71 20.05
 Station Name: MT13.5 UTC Time: 2348 Lon (W): 117 29.02
 Sequential Station #: 3 Water Depth(from EK80): 177 m Weather/Sea State 0.5 m sea, 15 kts, cloudy
 CTD File: 2021-38-0052 CTD Operator: JE Ice Coverage 0 /10 In Air pressure (before/after) /

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Aik	Nut	Taxonomy	O18	Comments	std depths
23	B ₀	161.19	1			✓	✓	✓		✓	26.02	bot
24	106	102	2			✓	✓✓				29.41	1000
25	80	79	13			✓					31.50	500
26	60	60	4			✓					33.42	300
27	50	50	5				✓				35.21	200
28	40	40	6								37.56	S-33.1
29	30	30	7								40.00	100
30	20	20	8				✓			✓	41.35	80
31	10	11	9			+		+			43.15	60
32	5	4	10			✓		✓		✓	45.18	50
			11									ChlMax
			12									40
			13									30
			14									20
			15									10
			16									5

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 2021-38 Ship: FV Frosti Program: CBS-MEA

Event #: RRR-1

UTC Date 2021-08-11

Lat (N): 72 15.54

Station Name: JES-1.1

UTC Time: 2358

Lon (W): 120 11.77

Sequential Station #: _____

Water Depth(from EK80): 39 m

Weather/Sea State calm

CTD File: 2021-38-

CTD Operator: JE

Ice Coverage 0 /10

In Air pressure (before/after) _____ / _____

065579-20210812-1421.rsl

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Taxonomy	O18	Comments	std depths
33	Bot	35	1			VV					SL Niskin above RRR - bot depth 1m above 36.0m	bot
			2									1000
			3									500
			4									300
			5									200
			6									S=33.1
			7									100
			8									80
			9									60
			10									50
			11									ChlMax
			12									40
			13									30
			14									20
			15									10
			16									5

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:

Ruskin ver 1.13.13 RRR s/n 65579 Concerto
 Sampled from 165 RHIB off Frosti. Water depth from max CTD depth on 2nd cast (which hit bottom)
 Hit bottom on 2nd cast, hence very low salinity at bottom. However, the 2nd cast SD overlays the 1st elsewhere
 Raised up to close SL Niskin by messenger.

Rosette Log for IOS Cruise ID 2021-38 Ship: FV Frosti Program: CBS-MEA

Event #: 82

UTC Date 2021-08-13

Lat (N): 71 26.08

Station Name: DES-01

UTC Time: 1502

Lon (W): 121 40.00

Sequential Station #: 4

Water Depth/(from EK80): 31 m

Weather/Sea State 10 kts, 0.75m seas, cloudy

CTD File: 2021-38-0082

CTD Operator: JE

Ice Coverage 0 /10

In Air pressure (before/after) /

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Taxonomy	O18	Comments	std depths
34	Bo	19	1			✓✓	✓	✓✓		✓	0832 closest thing to a ChlMax	bot
35	10	12	2			✓		✓		✓	0832	1000
36	5	4	3			✓	✓	✓✓		✓	1040	500
			4									300
			5									200
			6									s=33.1
			7									100
			8									80
			9									60
			10									50
			11									ChlMax
			12									40
			13									30
			14									20
			15									10
			16									5

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 2021-38 Ship: FV Frosti Program: CBS-MEA

Event #: 93

UTC Date 2021-08-13

Lat (N): 71 22.50

Station Name: DE3-02

UTC Time: 2048

Lon (W): 121 34.91

Sequential Station #: 5

Water Depth (from EK80): 53 m

Weather/Sea State 1-2m seas, wind ~10kts, cloudy

CTD File: 2021-38-0093

CTD Operator: JE

Ice Coverage 0 /10

In Air pressure (before/after) 1

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Aik	Nut	Taxonomy	O18	Comments	std depths
37	B ₀	39 ⁺¹⁴	1			✓	✓	✓	✓	✓	2048.20	bot
38	30	30	2			✓					5320 CUMEX	1000
39	20	22	3			✓	✓				5515	500
40	10	14	4			✓					5447	300
41	5	4	5			✓	✓	✓			5938	200
			6								01-4802:36	s=33.1
			7									100
			8									80
			9									60
			10									50
			11									ChlMax
			12									40
			13									30
			14									20
			15									10
			16									5

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: