

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

Event #: 216

UTC Date 2021-08-23

Lat (N): 70 15.25

Station Name: CPY-02

UTC Time: 0050

Lon (W): 124 30.58

Sequential Station #: 16

Water Depth(from EK80): 21 m

Weather/Sea State light breeze, r. fls, partly cloudy

CTD File: 2021-38-0216

CTD Operator: JE

Ice Coverage 1 /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
139	Bo	69.18	1			✓	✓				5.00	bot
140	50	50	2			✓	✓				5.00	1000
141	40	40	3			✓					5.00	500
142	30	30	4			✓					5.00	300
143	20	20	5			✓	✓		✓		5.00	200
144	10	12	6			✓					5.00	100
145	5	4	7			✓	✓				5.00	50
			8									40
			9									30
			10									20
			11									10
			12									5
			13									
			14									
			15									
			16									

Boiler 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 #: 220

UTC Date 2021-08-23

Lat (N): 69 38.14

Station Name: DV5-02

UTC Time: 1556

Lon (W): 120 42.57

Sequential Station #: 17

Water Depth (from EK80): 108 m

Weather/Sea State light breeze, small chop, mostly cloudy

CTD File: 2021-38-0220

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
146	80	98.9	1			✓	✓	✓		✓	56 3.2	bot
147	80	81	2			✓					64 4.5	1000
148	60	60	3			✓					66 5.4	500
149	50	50	4			✓	✓		✓		68 3.3	300
150	40	41	5			✓					10 0.6	200
151	30	30	6			✓					11 4.5	100
152	20	22	7			✓	✓				13 2.4	80
153	10	11	8			✓		✓		✓	15 0.6	60
154	5	5	9			✓		✓		✓	17 2.2	50
			10									40
			11									30
			12									20
			13									10
			14									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 2021-38 Ship: FV Frosti Program: CBS-MEA

Event #: 231

UTC Date 2021-08-23

Lat (N): 69 39 18

Station Name: WUS-03

UTC Time: 2052

Lon (W): 120 33 87

Sequential Station #: 18

Water Depth (from EK80): 222 m

Weather/Sea State light breeze, r. fls, partly cloudy

CTD File: 2021-38-0231

CTD Operator: JE

Ice Coverage 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
155	30	201+11	1			✓	✓	✓		✓	0055	bot
156	150	148	2			✓	✓	✓			0343	1000
157	100	98	3			✓	✓	✓			0633	500
158	80	80	4			✓		✓			0818	300
159	60	60	5			✓		✓			1012	200
160	50	48	6			✓		✓			1147 ChlMax	50
161	40	40	7			✓		✓			1320	100
162	30	30	8			✓		✓			1453	80
163	20	20	9			✓		✓			1631	60
164	10	12	10			✓		✓			1805	50
165	5	5	11			✓		✓			2020	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 #: 241

UTC Date 2021-08-24

Lat (N): 67 43 43

Station Name: DUS-04

UTC Time: 06 14 41

Lon (W): 119 56 33

Sequential Station #: 19

Water Depth (from EK80): 355 m

Weather/Sea State calm flat mostly cloudy, showers

CTD File: 2021-38-0241

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
166	300	338 ± 15	1			✓	✓	✓		✓	50 ± 1	bot
167	300	300	2			✓	✓	✓			52 ± 2	1000
168	200	191	3			✓	✓	✓			56 ± 4	500
169	150	143	4			✓	✓	✓			59 ± 5	300
170	100	98	5			✓	✓	✓			62 ± 8	200
171	80	81	6			✓	✓	✓			63 ± 4	± 33.1
172	60	58	7			✓	✓	✓			65 ± 3	100
173	50	48	8			✓	✓	✓		✓	64 ± 5	80
			9									60
174	40	38	10			✓		✓		✓	68 ± 5	50
175	30	31	11								10 ± 8	CHIMAX
176	20	19	12			✓	✓	✓			11 ± 3	40
177	10	10	13		XY	✓		✓			13 ± 8	30
178	5	4	14			✓	✓	✓		✓	bottle cracked top - rough landing	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 #: 252

UTC Date 2021-06-24

Lat (N): 69 44 12

Station Name: D05-05

UTC Time: 21 31

Lon (W): 119 24 71

Sequential Station #: 20

Water Depth (from EK80): 418 m

Weather/Sea State: 1st breeze, 1 mph, cloudy

CTD File: 2021-38-0252

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
179	Bo	406+7	1			✓	✓	✓		✓	423+ plankton in sample	bot
180	300	293	2			✓	✓	✓			4018	1000
181	200	197	3			✓	✓	✓			4945	500
182	150	148	4			✓	✓	✓			5211	300
183	100	100	5			✓	✓	✓			5142	200
184	80	77	6			✓	✓	✓			IL for zooplankton experiment 1823	5-33.1
185	60	60	7			✓	✓	✓			5102	100
186	50	51	8			✓	✓	✓		✓	5039 C1Max	80
			9									60
187	40	40	10			✓		✓		✓	0113	50
188	30	30	11			✓		✓			0250	40
189	20	20	12			✓	✓	✓			DIC bottle neck too narrow for hand space - hand space approx.	30
190	10	12	13			✓	✓	✓		✓	0555	20
191	5	6	14									10
			15									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 2021-38 Ship: FV Frosti Program: CBS-MEA

Event #: 261

UTC Date 2021-08-25

Lat(N): 69 51.66

Station Name: DUS-06

UTC Time: 1449

Lon(W): 118 44 22

Sequential Station #: 21

Water Depth(from EK80): 285 m

Weather/Sea State 10 kt wind, 1 m seas, cloudy, showery

CTD File: 2021-38-0261

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
192	30	277.15	1			✓	✓	✓		✓	58.50	bot
193	200	200	2			✓	✓	✓		✓	02.17	1000
194	150	151	3			✓	✓	✓		✓	01.58	500
195	100	101	4			✓	✓	✓		✓	03.33	300
196	80	78	5			✓	✓	✓		✓	09.08	200
197	60	60	6			✓	✓	✓		✓	16.53	100
198	50	50	7			✓	✓	✓	✓	✓	12.24 ChlMax	50
199	40	40	8			✓	✓	✓		✓	12.56	20
			9									10
200	30	30	10			✓	✓	✓		✓	13.26	5
201	20	19	11			✓	✓	✓		✓	17.52	ChlMax
202	10	11	12			✓	✓	✓		✓	18.22	40
203	5	5	13			✓	✓	✓		✓	18.54	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 #: 279 UTC Date 2021-08-26 Lat (N): 69 56 41
 Station Name: DUS-08 UTC Time: 1438 Lon (W): 118 01 33
 Sequential Station #: 22 Water Depth (from EK80): 348 m Weather/Sea State calm 0.5 m swell foggy
 CTD File: 2021-38-0279 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
204	R ₃	329**	1			✓	✓	✓		✓	38 35	bot
205	300	291	2			✓					51 50	1000
206	200	199	3			✓	✓				55 40	500
207	150	151	4			✓	✓				58 14	300
208	100	98	5				✓				01 50	200
209	80	80	6				✓				03 38	s=33.1
210	60	59	7								05 46	100
211	50	48	8			✓	✓	✓		✓	07 24	80
			9									60
212	40	40	10			✓	✓	✓	✓	✓	08 54 Ck/Plax	50
213	30	32	11								10 45	CHIRAX
214	20	16	12				✓				13 15	40
-245	10	6	13								15 30 no sample bottle missing	30
2145	5	6	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 #: 289

UTC Date 2021-08-24

Lat (N): 69 58 13

Station Name: DOS-09

UTC Time: 2203

Lon (W): 117 43 93

Sequential Station #: 23

Water Depth (from EK80): 205 m

Weather/Sea State: 15 kts 1m seas, sunny

CTD File: 2021-38-0259

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
216	Bu	191.11+	1			✓	✓	✓		✓	C3.15	bot
217	150	152	2			✓	✓	✓			13.40	1000
218	100	100	3			✓	✓	✓			1c 30	500
219	80	80	4			✓	✓	✓			1c 20 DIC bottle neck too narrow for head space - head space estimated	300
220	60	60	5			✓	✓	✓			20.11	200
221	40	50	6			✓	✓	✓			20.43 ChlMax	5-33.1
222	40	38	7			✓	✓	✓			20.18	100
223	20	27	8			✓	✓	✓			20.51	80
			9									60
224	20	20	10			✓	✓	✓			20.24	50
225	10	12	11			✓	✓	✓			20.55	ChlMax
226	5	5	12			✓	✓	✓		✓		40
			13									30
			14									20
			15									10
			16									5

Bottle integrity First test lower portcock then test top valve Check means pass, X means fail If riser fails, explain this in the comments column

Comments:

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

Event #: 2^c 6

UTC Date 2021-08-27

Lat (N): 59 59 46

Station Name: JUVS-10

UTC Time: 1438

Lon (W): 117 30 67

Sequential Station #: 24

Water Depth(from EK80): 98 m

Weather/Sea State 20k wind 1.5m seas, sunny

CTD File: 2021-38-02^c 6

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
227	Bo	74.11	1			✓	✓	✓		✓	4332	bot
228	60	60	2			✓					4630	1000
229	50	52	3			✓	✓		✓		4906 CLIMAX	500
230	40	42	4								4849	300
231	30	31	5								5040	200
232	20	19	6			✓	✓				5224	5-33.2
233	10	11	7								5404	100
234	5	3	8			✓	✓	✓		✓	5650	80
			9									60
			10									50
			11									CLIMAX
			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 #: 322

UTC Date 2021-08-30

Lat (N): 70 19 38

Station Name: PAS-02

UTC Time: 1432

Lon (W): 117 03 46

Sequential Station #: 25

Water Depth (from EK80): 270 m

Weather/Sea State Cal m r.f.f. 5.0 m

CTD File: 2021-38-0322

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
235	B ₆	263.11	1			✓	✓	✓		✓	4.41	bot
236	260	198	2			✓	✓				49.55	1000
237	156	148	3			✓	✓				49.51	500
238	100	97	4			✓	✓				48.15	300
239	80	76	5			✓	✓				49.61	200
240	66	60	6			✓					51.31	5-33.1
241	56	48	7			✓	✓				2.59 Chl a x	100
242	40	40	8			✓		✓			54.24	80
			9									60
243	30	28	10			✓		✓		✓	55.56	50
244	20	18	11			✓		✓		✓	57.11	Chl a x
245	10	11	12			✓		✓		✓	58.55	40
246	5	4	13			✓	✓	✓		✓	60.35	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 #: 332

UTC Date 2021-06-30

Lat (N): 70 11 55

Station Name: PAS-05

UTC Time: 2009

Lon (W): 116 48.59

Sequential Station #: 26

Water Depth (from EK80): 121 m

Weather/Sea State: calm, sunny

CTD File: 2021-38-0332

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
247	Bo	168+3	1			✓	✓	✓		✓	1235	100
248	100	99	2			✓	✓	✓		✓	1245	1000
249	80	79	3			✓	✓	✓		✓	2126	500
250	60	58	4			✓	✓	✓		✓	2208	300
251	50	50	5			✓	✓	✓	✓	✓	2200 C11Mox	200
252	40	38	6			✓	✓	✓		✓	2629	5-33.1
253	30	31	7			✓	✓	✓		✓	2131	100
254	20	19	8			✓	✓	✓		✓	2131	80
			9									60
255	10	11	10			✓	✓	✓		✓	3105	50
256	5	5	11			✓	✓	✓		✓		CHMax
			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 #: 347

UTC Date 2021-08-31

Lat (N): 70 26 46

Station Name: PAS-01

UTC Time: 1739

Lon (W): 117 17 16

Sequential Station #: 27

Water Depth (from EK80): 237 m

Weather/Sea State 15-20kts 15m seas, cloudy

CTD File: 2021-38-6347

CTD Operator: JE

Ice Coverage 0 /10

In Air pressure (before/after) /

Samp #	Target Property	Depth (m)	Nisklin #	Firing Order	Bottle Integrity	Salt	DIC/Aik	Nut	Taxonomy	O18	Comments	Std depths
257	B	262-26	1			✓	✓	✓		✓	53 51 48 17 3	bot
258	200	137	2			✓	✓	✓			51 27	1000
259	150	151	3			✓	✓	✓			54 05	500
260	100	113	4			✓	✓	✓			51 31	300
261	80	81	5			✓	✓	✓			53 51	200
262	60	60	6			✓	✓	✓			50 52	100
263	50	50	7			✓	✓	✓			52 29	50
264	40	39	8			✓	✓	✓			54 11	5
			9									
265	30	28	10			✓	✓	✓		✓	05 43 ChlMax	50
266	20	20	11			✓	✓	✓			02 14	ChlMax
267	10	12	12			✓	✓	✓			33 49	40
268	5	6	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 nisklin fails explain this in the comments column

Comments:

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

Event #: 263

UTC Date 2021-07-02

Lat (N): 70 28.46

Station Name: PA5.10

UTC Time: 1435

Lon (W): 114 38.00

Sequential Station #: 28

Water Depth (from EK80): 114 m

Weather/Sea State 5-10kts wind, small chop, partly cloudy

CTD File: 2021-38-0363

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
269	80	105 ¹⁰	1			✓	✓	✓		✓	45.18	bot
270	80	79	2			✓	✓	✓		✓	42.23	1000
271	60	60	3			✓	✓	✓		✓	44.07	500
272	50	49	4			✓	✓	✓		✓	41.42	300
273	40	38	5								43.16	200
274	30	35	6				✓		✓		48.42 CHIMax	s=33.1
275	20	25	7				✓				50.1	100
276	10	11	8			✓		✓		✓	52.06	80
		✓	9									60
277	5	4	10			✓	✓	✓		✓	53.35	50
			11									CHIMax
			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 #: 374

UTC Date 2021-09-02

Lat (N): 70 26 35

Station Name: PAS-11

UTC Time: 2022

Lon (W): 114 36 44

Sequential Station #: 29

Water Depth(from EK80): 83 m

Weather/Sea State 5-15 kts, 0.3m seas, cloudy, showers

CTD File: 2021-38-0374

CTD Operator: JE

Ice Coverage 0/10

In Air pressure (before/after) 7

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Taxonomy	O18	Comments	std depths
278	32	72+12	1			✓	✓	✓		✓	26.10	bot
279	60	60	2								27.44	1000
280	50	49	3			✓	✓				29.3	500
281	40	39	4			✓	✓		✓		30.42 ChlMax	300
282	30	28	5			✓	✓				32.11	200
283	20	21	6			✓	✓				33.48	s=33.1
284	10	12	7			✓	✓				35.26	100
285	5	6	8			✓	✓	✓		✓	37.10	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 #: 385

UTC Date 2021-09-03

Lat (N): 70 33 30

Station Name: FAS-01

UTC Time: 1428

Lon (W): 114 40 70

Sequential Station #: 30

Water Depth(from EK80): 60 m

Weather/Sea State 15-20kts, 0.35m seas, 5m waves

CTD File: 2021-38-0385

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
286	Bo	44.16	1			✓	✓	✓		✓	25.2 -	bot
287	40	39	2								33.40	1000
288	30	33	3			✓		✓			34.12	500
289	20	21	4			✓		✓	✓		34.06 CHIMax	300
290	10	10	5			✓		✓		✓	35.59	200
291	5	3	6			✓	✓	✓		✓	40.30	5-33.1
			7									100
			8									80
			9									60
			10									50
			11									CHIMax
			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: