

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 280UTC Date (ddmmmyyyy) 21 | Aug | 2017Lat (N): 70 03.707Station Name: AMG-01UTC Time: 1420Lon (W): 123 14.54530Christine Michael's Station #: 25CTD File: 2017-20-0280Water Depth(from surface): 210 mIce Coverage 0/10Sound Speed used by depth sounder: 1455 m/sIn Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State 20.5 m swell
5-10 knot wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Nuts	Comments
338	80		1	✓		✓		W	
339	70		2	✓				W	
340	60		3	✓				W	
341	50		4	✓		✓	✓	W	
342	40	38	5	✓		✓	✓	W	} weak chl max ~0.5 µg/l
343	40	38	6	✓					
344	40	38	7	✓					
345	30		8	✓				W	
346	20		9	✓		✓	✓	W	
347	10		10	✓				W	
348	5		11	✓		✓	W	W	
349	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 278UTC Date (ddmmmyyyy) 21 | Aug | 2017Lat (N): 70 3.653Station Name: AMG-01UTC Time: 1327Lon (W): 123 14.549Christine Michael's Station #: 25CTD File: 2017-20- 0278Water Depth(from surface): 212 mIce Coverage 0/10Sound Speed used by depth sounder: 1455 m/sIn Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State calm, 5-10 kn wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
									chlur x @ 42m on downcast
									S = 33.1 @ 156 m
335	Bottom	207	1	✓		✓	✓	✓✓	Bottom / 200 @ same depth
336	S=33.1	156	2	✓		✓	✓	✓✓	S=33.1 / 150 @ same depth
337	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 273 UTC Date (ddmmmyyyy) 20 | Aug | 2017Station Name: AMG-02 UTC Time: 2247Christine Michael's Station #: 24CTD File: 2017-20-0273Lat (N): 70° 11.840Lon (W): 70° 11123° 8.820Water Depth(from surface): 350 mSound Speed used by depth sounder: 1455 m/s

CTD Operator: SZ

Ice Coverage /10In Air pressure (before/after) /Weather/Sea State 2m swell 20kt wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Nuts	Comments
323	80		1	✓		✓		✓✓	
324	70		2	✓		✓			
325	60		3	✓					
326	50		4	✓		✓	✓		
327	40		5	✓					
328	30	32	6	✓		✓	✓	✓✓	} chl max @ 32
329	30	32	7	✓					
330	30	32	8	✓					
331	20		9	✓		✓	✓	✓✓	Niskin right at interface w/ mixed layer
332	10		10	✓					
333	5		11	✓		✓	✓✓	✓✓	
334	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 271UTC Date (ddmmmyyyy) 20 Aug | 2017Lat (N): 70 12.119Station Name: AMG-02UTC Time: 2129Lon (W): 123 9.334Christine Michael's Station #: 24CTD File: 2017-20-0271Water Depth(from surface): 353 mIce Coverage 0/10Sound Speed used by depth sounder: 1455 m/sIn Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State ~1.5m swell
15-20knt windy

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Nuts	Comments
318	Bottom	345m	1	✓		✓	✓	✓	chl u-x = 46u on downcast
319	300		2	✓		✓✓	✓	✓	S = 33.1 = 145m
320	200		3	✓		✓	✓	✓	
321	150/s = 33.1/145		4	✓		✓	✓	✓	S = 33.1 @ 145 so combine w/ 150m bottle
322	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 266

UTC Date (ddmmmyyyy) 20 | Aug | 2017

Lat (N): 70 33.182

Station Name: ANG-03

UTC Time: 1532

Lon (W): 122 54.391

Christine Michael's Station #: 23

CTD File: 2017-20-0266

Water Depth(from surface): 647 m

Ice Coverage 8/10

Sound Speed used by depth sounder: 1455 m/s

In Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State 1.5-2m swell

15-20 knot wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
306	80		1	✓		✓		W	missed name File # 265 and renamed after File collected to #266
307	70		2	✓				W	
308	60		3	✓		✓		W	
309	50		4	✓		✓	✓	W	
310	40/chl	46	5	✓		✓	✓	W	} chl max
311	40/chl	43	6	✓					
312	40/chl	43	7	✓					
313	30		8	✓				W	
314	20		9	✓		✓	✓	W	→ This bottle is right on change from mix layer to layer below. causing not using? Temp change is -4C!
315	10		10	✓				W	
316	5		11	✓		✓	W	W	
317	5		12						

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

Comments:

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 264UTC Date (ddmmmyyyy) 20 | Aug | 2017Lat (N): 70 32.950Station Name: AMG-03UTC Time: 1323Lon (W): 122 54.134Christine Michael's Station #: 23CTD File: 2017-20-0264Water Depth(from surface): 642 mIce Coverage 0 /10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) _____ / _____

CTD Operator: SZ

Weather/Sea State ^{1.5 to} 2m swell ~ skint wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Nuts	Comments
299	Bottom	628	1	✓		✓	✓	✓	S=3B.1 Chl max = 40 Bottom depth = 634 sounder says 628 used ya-yas with Rosette in order to get wire to spool on correctly (or at least better)
300	500		2	✓		✓	✓	✓	
301	300		3	✓		✓	✓	✓	
302	200		4	✓		✓	✓	✓	
303	150	145	5	✓		✗	✗	✓	
304	S=331	134	6	✓		✓	✓	✓	
305	100		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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 215UTC Date (ddmmmyyyy) 17 Aug | 2017Lat (N): 70 0.193Station Name: FKN-01UTC Time: 1941Lon (W): 126 49.262Christine Michael's Station #: 22CTD File: 2017-20-0215Water Depth(from surface): 50 mIce Coverage 0/10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) _____

CTD Operator: SZ

Weather/Sea State ~1m long swell
5 knot wind (NW)

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Nuts	Comments
									Green cloudy water.
291	Bottom	46	1	✓		✓	✓	✓✓✓	Taking 2 sets: 1 set (with replicates) filtered and 1 set unfiltered so 4 NUTS total for each each sample
292	40		2	✓		✓			
293	30		3	✓					
294	20		4	✓			✓		
295	10		5	✓					IOS label has "215FILT" for Event and "FK01FILT" for station name
296	5		6	✓		✓	✓✓✓	✓✓✓	
297	5		7	✓					
298	5		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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 207UTC Date (ddmmmyyyy) 17 | Aug | 2017Lat (N): 70 0.068Station Name: FKN-02UTC Time: 1417Lon (W): 126 40.918Christine Michael's Station #: 21CTD File: 2017-20- 0207Water Depth(from surface): 149 mIce Coverage 0/10Sound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State 41 m swell
~ 3 kn + SW

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Nuts	Comments
279	80		1	✓		✓		✓✓	PAR cover accidentally left on last cast so full depth this cast to get full cast with PAR.
280	70		2	✓				✓✓	
281	60		3	✓				✓✓	
282	50		4	✓			✓	✓✓	Low visibility through water. Turbidity High
283	40		5	✓				✓✓	
284	30		6	✓				✓✓	
285	20		7	✓			✓	✓✓	
286	10		8	✓				✓✓	
287	5		9	✓		✓	✓✓✓	✓✓	} chl max @ 5
288	5		10	✓					
289	5		11	✓					
290	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:

Nutrients Filtered on this cast.
3 Filter blanks w/ ~~ML~~ NaHCO_3 water taken

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 205UTC Date (ddmmYYYY) 17 | Aug | 2017Lat (N): 70 0.148Station Name: FKN-02UTC Time: 1322Lon (W): 126 40.474Christine Michael's Station #: 21CTD File: 2017-20-0205Water Depth(from surface): 155 mIce Coverage 0/10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) —/—

CTD Operator: SZ

Weather/Sea State <1m swell
<5kn wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
									S=33.1 : 127 chl Max : 150, 100, 80, 20, 60, 50, 40, 30, 30, 20, 10, 5, 5, 5
276	Bottom		1	✓		✓	✓	✓✓	
277	5:33.1	127	2	✓		✓✓	✓	✓✓	
278	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 197 UTC Date (ddmmmyyyy) 16 | Aug | 2017Station Name: FKN-03 UTC Time: 2125Christine Michael's Station #: 20CTD File: 2017-20-0197Water Depth(from surface): 212
212 m

Sound Speed used by depth sounder: _____ m/s

CTD Operator: SZ

Lat (N): 70 0.107Lon (W): 126 14.882Ice Coverage 1/10In Air pressure (before/after) 1Weather/Sea State .5m swell
~5knt wind from N

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Nuts	Comments
264	80		1	✓		✓		✓✓	There is a second chl max at ~60 (smaller)
265	70		2	✓				✓✓	
266	60		3	✓				✓✓	
267	50		4	✓		✓	✓	✓✓	
268	40		5	✓				✓✓	
269	30	28	6	✓		✓	✓	✓✓	} chl max
270	30	28	7	✓					
271	30	28	8	✓					
272	20		9	✓		✓	✓	✓✓	} 2 bottles to make sure there is enough water for all the samples.
273	10		10	✓				✓✓	
274	5		11	✓		✓	✓✓	✓✓	
275	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 195 UTC Date (ddmmmyyyy) 16 | Aug | 2017

Station Name: EKN-03 UTC Time: 2034

Christine Michael's Station #: 20

CTD File: 2017-20-0195

Lat (N): 70 0.114

Lon (W): 126 15.143

Cast 1/2

Water Depth(from surface): 211 m

Ice Coverage 0/10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) ✓

CTD Operator: SZ

Weather/Sea State 4.5m swell

5knt wind From N

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Nuts	Comments
260	Bottom	211	1	✓		✓	✓	✓	For now, Niskin #2 and #12 swapped before cast as #2 has slow drip once opened and #12 is not often used.
261	S2331	159	2	✓		✓	✓	✓✓	
262	150		3	✓				✓✓	
263	100		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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 187UTC Date (ddmmmyyyy) 16 | Aug | 2017Lat (N): 70 0.124Station Name: FKW-04UTC Time: 1602Lon (W): 125 57.834Christine Michael's Station #: 19CTD File: 2017-20-0187Water Depth(from surface): 147 mIce Coverage ___/10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) _____ / _____

CTD Operator: SZ

Weather/Sea State 0.5 m seaswind ~5knt NE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
246	100		1	✓				vv	low chl max from 27-35m take at 30m Niskin
247	80		2	✓		✓✓			
248	70		3	✓					
249	60		4	✓					
250	50		5	✓		✓	✓		
251	40		6	✓					
252	30		7	✓		✓	✓	vv	} chl max @
253	30		8	✓					
254	30		9	✓					
255	20		10	✓		✓	✓✓	vv	
256	10		11	✓				vv	
257	5		12	✓		✓	✓	vv	

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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 185UTC Date (ddmmmyyyy) 16 | Aug | 2017Lat (N): 70 0.161Station Name: FKN-04UTC Time: 1522Lon (W): 125 58.006Christine Michael's Station #: 19CTD File: 2017-20-0185Water Depth(from surface): 152 mIce Coverage 0 /10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) _____ / _____

CTD Operator: SZ

Weather/Sea State <1m swell
~5knt wind NE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Nuts	Comments
									chl max = 31 so ~ 28 on upcast S = 33' (130)
243	Bottom	151	1	✓		✓	✓	✓✓	} took DOC from chl carbouys (remembered after missed collection 'DOC' sampling)
244	S=33.1	131	2	✓		✓	✓	✓✓	
245	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 176UTC Date (ddmmmyyyy) 15 Aug 2017Lat (N): 70 0.101Station Name: FXN-05UTC Time: 1821Lon (W): 125 45.882Christine Michael's Station #: 18CTD File: 2017-20-0176Water Depth(from surface): 77 mIce Coverage 0 /10Sound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State < 1m seaswinds ~10 kn + GSE

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
233	B.Hm	74	1	✓	✓	✓	✓	✓✓	
234	60		2	✓		✓		✓✓	
235	50		3	✓		✓	✓	✓✓	
236	40	41	4	✓		✓		✓✓	} chl max @ 41
237	40	41	5	✓					
238	40	41	6	✓					
239	30		7	✓		✓✓		✓✓	
240	20		8	✓		✓	✓✓	✓✓	
241	10		9	✓		✓		✓✓	
242	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:

1 724
2
3
4
5
6
7 230
8
9

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 166UTC Date (ddmmmyyyy) 15 | Aug | 2017Lat (N): 70 0.107Station Name: FKM06UTC Time: 13 17Lon (W): 125 24.066Christine Michael's Station #: 17CTD File: 2017-20- 166Water Depth(from surface): 50 mIce Coverage 0 /10Sound Speed used by depth sounder: m/sIn Air pressure (before/after) /

CTD Operator: SZ

Weather/Sea State lumpy seas in
strong winds 20-22 15knt
(ESE)

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Nuts	Salinity	Chl-Tot	Cyl-Pro	Tax-Pro	BLK/ALK	Comments
224	Bottom	46	1	✓		✓✓	✓				✓	
225	40		2	✓		✓✓						✓
226	30		3	✓		✓✓						✓
227	chlmg	26	4	✓		✓✓	✓				✓	
228	"	26	5	✓								
229	"	26	6	✓								
230	20		7	✓		✓✓	✓				✓	
231	10		8	✓		✓✓						
232	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:

Took Nut samples
Three.1st time w/ no filtering
2nd time w/ filteringLabels are
" 166 - Fil + "
(EVENT) (Filtered)

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 151UTC Date (ddmmmyyyy) 12 Aug 2017Lat (N): 71 14.624Station Name: CPB-11UTC Time: 1953Lon (W): 123 28.811Christine Michael's Station #: 18CTD File: 2017-20-0151Water Depth(from surface): 200 mIce Coverage 0 /10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) _____ / _____

CTD Operator: SZ

Weather/Sea State calm, light wind (1knt)
sunny! Polar Bear on Banquets!

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Nuts	Comments
212	80		1	✓					
213	80		2	✓		✓		✓	
214	70		3	✓					
215	60		4	✓					
216	50		5	✓		✓	✓		
217	40		6	✓					
218	30	32	7	✓		✓	✓	✓	
219	30	32	8	✓					
220	30	32	9	✓					
221	20		10	✓		✓	✓	✓	
222	10		11	✓				✓	
223	5		12	✓		✓	✓	✓	

twisted end cap before
around to see
cast if it will
stop dripping

computer crash @ 70m
before closing bottle
so Restart as 151b, go back to
80 and Testase close new
bottle

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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 149UTC Date (ddmmmyyyy) 12 | Aug | 2017Lat (N): 71 14.671Station Name: CPB-11UTC Time: 1905Lon (W): 123 28.316Christine Michael's Station #: 16CTD File: 2017-20-0149Water Depth(from surface): 183 mIce Coverage 0/10Sound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) /

CTD Operator: SZ

Weather/Sea State calm seas*light wind ~ 3knot?*

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
210	Bot	189	1	✓		✓	✓	✓✓	
211	S=3311	158	2	✓		✓	✓	✓✓	
212	100		3	✓		✓	✓	✓✓	
			4						
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						

*chl max is at 40m
document ~ 30m up
cast.**Banks is 3/4
mile away but
Foggy!*

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:

200

Rosette Log for IOS Cruise ID 2017-20 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 142 UTC Date (ddmmmyyyy) 12 | Aug | 2017

Lat (N): 71 10.733

Station Name: CPS-106 UTC Time: 1432

Lon (W): 123 52.916

Christine Michael's Station #: 15

CTD File: 2017-20-0142

Cast 2/2

Water Depth(from surface): 226 m

Ice Coverage 0/10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) _____ / _____

CTD Operator: SZ

Weather/Sea State calm seas
light wind (3knt?)

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Nuts	Comments
200	80		1	✓		✓		✓✓	
201	70		2	✓				✓	
202	60		3	✓				✓	
203	48		4	✓		✓	✓	✓✓	
204	48		5	✓					} large chl max at 48 (2.4 ug/L) This is highest we've seen since KUG-1.
205	48		6	✓					
206	30		7	✓				✓✓	
207	20		8	✓		✓	✓✓	✓✓	Missed 40m! Niskin
208	10		9	✓				✓✓	
209	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:

12
13
14
15
16

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 140UTC Date (ddmmmyyyy) 12 | Aug | 2017Lat (N): 71 10.685Station Name: CPB-10UTC Time: 1336Lon (W): 123 53.198Christine Michael's Station #: 15CTD File: 2017-20- 0140

Cast 1/2

Water Depth(from surface): 224 mIce Coverage ___/10Sound Speed used by depth sounder: m/sIn Air pressure (before/after) ___/___

CTD Operator: SZ

Weather/Sea State

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
196	Bot	217	1	✓		✓	✓	✓	
197	200		2	✓	x✓	✓	✓	✓	
198	S=33.1	158	3	✓		✓	✓	✓	
199	100		4	✓	x✓	✓	✓	✓	
			5						
			6						
			7						
			8						
			9						
			10						
			11						
			12						

S=33.1 =158

- slow drip out of bottom endcap (poor seating)
 SKIP 150m bottle since S=33.1 is @158

Top valve not tight so slow drip
 out of petcock when pushed in.

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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 133UTC Date (ddmmmyyyy) 11 | Aug | 2017Lat (N): 71 3.251Station Name: CPB-096UTC Time: 2224Lon (W): 124 38.348Christine Michael's Station #: 14CTD File: 2017-20-0133

Cast 2/2

Water Depth(from surface): 340 mIce Coverage 0/10Sound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) /

CTD Operator: SZ

Weather/Sea State 1m swell, no white caps.
~ 5 knot wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
184	300		1	✓		✓	✓	✓✓	
185	80		2	✓		✓			
186	70		3	✓					
187	60		4	✓					
188	50	53	5	✓		✓	✓	✓✓	Flr = 0.6 ug/l } chl max at 53
189	50	53	6	✓					
190	50	53	7	✓					
191	40		8	✓				✓✓	
192	30		9	✓					
193	20		10	✓		✓	✓✓✓		
194	10		11						
195	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:

(no Filtering) 3 nutrient blanks taken after event.
Added Artificial sea water to tubes.

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 131UTC Date (ddmmmyyyy) 11 | Aug | 2017Lat (N): 71 3.320Station Name: CPB-09UTC Time: 2105Lon (W): 124 37.896Christine Michael's Station #: 14CTD File: 2017-20-0131

Cast 1/2

Water Depth(from surface): 330 mIce Coverage 0/10Sound Speed used by depth sounder: 1448 m/sIn Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State 1m swell, moderate wind
(white caps) 7-10 knt

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
									S=33.1 layer has shoaled from 161m last station
178	Bot	324	1	✓		✓	✓	✓	chl max @ 55 on downcast
179	300		2	✓		✓	✓	✓	Bottle closed in air, didn't see this but no water in bottle
180	200		3	✓		✓	✓	✓	
181	150		4	✓				✓	
182	S=33.1	132	5	✓		✓	✓	✓	USE 50 on upcast next cast
183	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 124 UTC Date (ddmmmyyyy) 11 | Aug | 2017Lat (N): 70 55.888Station Name: CPS-08 UTC Time: 1428Lon (W): 125 22.756Christine Michael's Station #: 1.3CTD File: 2017-20-0124

Cast 2/2

Water Depth(from surface): ~~355~~ 355 mIce Coverage 0/10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) _____ / _____

CTD Operator: SZ

Weather/Sea State calm seas, light wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Nuts	Comments
167	80		1	✓		✓		✓✓	
168	70		2	✓		✓			
169	60		3	✓		✓			
170	50	52	4	✓		✓	✓	✓✓	} chl max @ 52
171	50	52	5	✓					
172	50	52	6	✓					
173	40		7	✓		✓		✓✓	
174	30		8	✓		✓			
175	20		9	✓			✓✓		
176	10		10	✓		✓			
177	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 122UTC Date (ddmmmyyyy) 11 | Aug | 2017Lat (N): 70 55.847Station Name: CPB-08UTC Time: 1317Lon (W): 125 22.688Christine Michael's Station #: 13CTD File: 2017-20-02 0122

Cast 1/2

Water Depth(from surface): 357 mIce Coverage 0/10Sound Speed used by depth sounder: 1443.4 m/sIn Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State calm seas, slight winds

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Nuts	Comments
161	Bottom	354	1	✓		✓	✓	✓✓	Chl max @ 60 downcast @ 55 upcast
162	300		2	✓			✓	✓	
163	200		3	✓			✓	✓	
164	S=33.1	161	4	✓			✓	✓	
165	150		5	✓				✓	
166	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:

4p P→Invilh

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 114 UTC Date (ddmmmyyyy) 10 | Aug | 2017Lat (N): 70 48.464Station Name: CPR-076 UTC Time: 2137Lon (W): 126 6.373Christine Michael's Station #: 12CTD File: 2017-20-0114

Cast 2/2

Water Depth(from surface): 358 mIce Coverage 0/10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State calm, no wind
seas

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Nuts	Comments
150	80		1	✓		✓		✓✓	
151	70		2	✓				✓✓	
152	60	58	3	✓		✓	✓	✓✓	} chl max @ 60m
153	60	58	4	✓					
154	60	58	5	✓					
155	50		6	✓		✓	✓	✓✓	
156	40		7	✓					
157	30		8	✓					
158	20		9	✓		✓	✓✓		
159	10		10	✓					
160	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:

3 non-filtered NaCl blgaks in NUTRIENT tubes collected (first set)

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 112UTC Date (ddmmmyyyy) 10 Aug | 2017Lat (N): 70 48.670Station Name: CPB-07UTC Time: 20 30Lon (W): 126 6.607Christine Michael's Station #: 12CTD File: 2017-20-0112

Cast 1/2

Water Depth(from surface): 356 mIce Coverage 0/10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) _____

CTD Operator: SZ

Weather/Sea State calm seas, ~5 knt wind cloudy light rain

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
144	Bottom	354	1	✓		✓	✓	✓✓	chl max downcast = 63 (50-80 broadly)
145	300		2	✓		✓✓	✓	✓✓	
146	200		3	✓		✓	✓	✓✓	
147	S=33.1	165	4	✓		✓	✓	✓✓	
148	150		5	✓				✓✓	
149	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 105UTC Date (ddmmmyyyy) 10 | Aug | 2017Lat (N): 70 41.098Station Name: CPB-06bUTC Time: 1435Lon (W): 126 50.585Christine Michael's Station #: 11CTD File: 2017-20-0105

Cast 2/2

Water Depth(from surface): 298 mIce Coverage 0/10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) 1 ^{no}

CTD Operator: SZ

Weather/Sea State calm light wind
seas

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Comments
133	80		1	✓		✓✓		✓✓
134	70		2	✓				✓✓
135	60	61	3	✓		✓	✓	✓✓
136	60	61	4	✓				} 3 at chl Max of 60m
137	60	61	5	✓				
138	50		6	✓		✓	✓	✓✓
139	40		7	✓				✓✓
140	30		8	✓				✓✓
141	20		9	✓		✓	✓✓	✓✓
142	10		10	✓				✓✓
143	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 103UTC Date (ddmmmyyyy) 10 | Aug | 2017Lat (N): 70 41.188Station Name: CPB-06UTC Time: 1319Lon (W): 126 50.468Christine Michael's Station #: 11CTD File: 2017-20-0103

Cast 1/2

Water Depth(from surface): 297 mIce Coverage 0/10

Sound Speed used by depth sounder: _____ m/s

In Air pressure (before/after) _____ / _____

CTD Operator: SZ

Weather/Sea State calm light wind
Fog

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Comments
128	Bot	294	1	✓		✓	✓	✓
129	200		2	✓		✓	✓	✓
130	S=33.1	170	3	✓		✓	✓	✓
131	150		4	✓				✓
132	100		5	✓	○	✓	✓	✓
			6					
			7					
			8					
			9					
			10					
			11					
			12					

Brood chl max 60-90m

- slow drip from bottom endcap after opening

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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 95UTC Date (ddmmmyyyy) 9 | Aug | 2017Lat (N): 70 35.886Station Name: CPB-3UTC Time: 2202Lon (W): 127 22.858Christine Michael's Station #: 10CTD File: 2017-20-0095

Cast 2/2

Water Depth(from surface): 235 mIce Coverage /10Sound Speed used by depth sounder: 14 m/sIn Air pressure (before/after) /

CTD Operator: SZ

Weather/Sea State

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Comments
117	80		1	✓		✓		
118	70		2	✓				
119	60		3	✓		✓	✓	
120	60		4	✓				} 3 bottles at chl max
121	60		5	✓				
122	50		6	✓		✓	✓	
123	40		7	✓				
124	30		8	✓				
125	20		9	✓		✓	✓✓	
126	10		10	✓				
127	5		11			✓	✓	
			12					

chl max on down cast = 65
upcast = 60

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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 94UTC Date (ddmmmyyyy) 9 | Aug | 2017Lat (N): 70 35.779Station Name: CPB-3UTC Time: 20:50Lon (W): 127 22.823Christine Michael's Station #: 10CTD File: 2017-20-0094

Cast 1/2

2017-20-0094b From ^{upcast} 171 db and up to 0.Water Depth(from surface): 235 mIce Coverage 0/10Sound Speed used by depth sounder: 1443.4 m/sIn Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State calm seaslight wind, fog

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Comments
112	Bot	232	1	✓		✓	✓	ch/max downcast = } First File CTD on upcast @ 171, before bottle trip and } Second File computer crashed.
113	200		2	✓		✓	✓	
114	S=3311	171	3	✓		✓	✓	
115	150		4	✓				
116	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 86UTC Date (ddmmmyyyy) 9 | Aug | 2017Lat (N): 70 34.062Station Name: CPB-02UTC Time: 1603Lon (W): 127 33.031Christine Michael's Station #: 9CTD File: 2017-20-0086Water Depth(from surface): 127 mIce Coverage /10Sound Speed used by depth sounder: 1461.8 m/sIn Air pressure (before/after) /

CTD Operator: SZ

Weather/Sea State calm seaslight wind (~3knt)

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/ALK	Comments
100	Bot	125	1	✓		✓		chl max downcast = went to 125m, then up to 100m, decided to go back for bottom bottle as the water properties change for 101-125m layer.
101	100		2	✓		✓	✓	
102	80		3	✓		✓		
103	70		4	✓				
104	60		5	✓				
105	(50)		6	✓		✓	✓	} chl max
106	(50)		7	✓				
107	40		8	✓		✓		
108	30		9	✓				
109	20		10	✓			✓✓	
110	10		11	✓				
111	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 79UTC Date (ddmmmyyyy) 9 | Aug | 2017Lat (N): 70 32.108Station Name: CPB-01UTC Time: 13 12Lon (W): 127 44.166Christine Michael's Station #: 8CTD File: 2017-20-0079Water Depth(from surface): 23 mIce Coverage 0/10Sound Speed used by depth sounder: 1491.8 m/sIn Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State calm/light wind
seas

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Comments
95	Bot	19	1			✓	✓	
96	10		2			✓	✓	
97	10		3					} chl max
98	10		4					
99	5		5			✓	✓	
			6					
			7					
			8					
			9					
			10					
			11					
			12					

chl max = 10-16u on
downcast

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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 53UTC Date (ddmmmyyyy) 6 | Aug | 2017Lat (N): 71 17.088Station Name: KUG 7UTC Time: 22 14Lon (W): 135 06.186Christine Michael's Station #: 7CTD File: 2017-20-0053

Cast 2/2

Water Depth(from surface): 994 mSound Speed used by depth sounder: 1457 m/s

CTD Operator: SZ

Ice Coverage 0/10 But ice pack near
(w/in sight)In Air pressure (before/after) /
Weather/Sea State calm
light wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Comments
84	100		✓1			✓✓	✓	
85	80		✓2			✓		
86	70		✓3					
87	60	63	✓4				✓	7 chl max
88	60	63	✓5			✓		Backed up from 60 to 63 to catch high fluorescence
89	50		✓6			✓	✓	
90	40		✓7					
91	30		✓8					
92	20		✓9			✓	✓✓	
93	10		✓10					
94	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 51UTC Date (ddmmmyyyy) 6 | Aug | 2017Lat (N): 71 16.985Station Name: KUG-7UTC Time: 2004Lon (W): 135 6.521Christine Michael's Station #: 7CTD File: 2017-20-0051

Cast 1/2

Water Depth(from surface): 1005 mIce Coverage 0/10 in distance!Sound Speed used by depth sounder: 105 ^{1457 (new!)} m/sIn Air pressure (before/after) /

CTD Operator: SZ

Weather/Sea State calmlight wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Comments
77	Bottom	989	✓1			✓	✓	
78	750		✓2					
79	500		✓3			✓	✓	
80	300		✓4					
81	200		✓5			✓	✓	
82	150		✓6					
83	S=33.1	134	✓7			✓	✓	
			8					
			9					
			10					
			11					
			12					

chl max document: 63-70m
S=33.1 : 134m

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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: KUG-6UTC Date (ddmmmyyyy) 6 | Aug | 2017Lat (N): 71 9.512Station Name: 46UTC Time: 1500Lon (W): 134 58.873Christine Michael's Station #: 6CTD File: 2017-20- 0046

Cast 2/2

Water Depth(from surface): 772 mIce Coverage 0/10Sound Speed used by depth sounder: 1492.5 m/sIn Air pressure (before/after) 1Pump on
150014

CTD Operator: SZ

Weather/Sea State 0.5m swell

light wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/ALK	Comments
66	100		✓1			✓	✓	
67	80		✓2					
68	70		✓3					
69	60		✓4			✓	✓	
70	60		✓5					chl max
71	50		✓6			✓	✓	on down cast @ 63 even higher than on first cast
72	40		✓7			✓		
73	30		✓8					
74	20		✓9			✓	✓✓	
75	10		✓10					
76	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: KUG-6UTC Date (ddmmmyyyy) 6 | Aug | 2017Lat (N): 71 9.449Station Name: 44UTC Time: 1315Lon (W): 134 58.495Christine Michael's Station #: 6CTD File: 2017-20-0044Water Depth(from surface): 763 mSound Speed used by depth sounder: x 1492.5 m/s

CTD Operator: SZ

Ice Coverage 0/10In Air pressure (before/after) 1Weather/Sea State 0.5m swelllight wind, cloudy,drizzlechl max → 58 to 64m downcastS = 33.1 → 131m

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/ALK	Comments
60	750	735	✓1		✓✓	✓	✓	
61	500		✓2		✓✓	✓✓	✓	
62	300		✓3		✓✓	✓		
63	200		✓4		✓✓	✓	✓	
64	150		✓5		✓✓	✓		
65	33.1	131	✓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:

Cast 1/2

Mo'y depth
734.6 m
+4.6 on alt1315
pump on

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 37UTC Date (ddmmmyyyy) 5 | Aug | 2017Lat (N): 71 2.944Station Name: KUG 5UTC Time: 2114Lon (W): 134 54 52.336Christine Michael's Station #: X 5CTD File: 2017-20- 0037

Cast 2/2

Water Depth(from surface): 515 mIce Coverage 0/10Sound Speed used by depth sounder: 1492.5 m/sIn Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State light wind
1m swell

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/ALK	Comments
49	100		✓1			✓	✓	
50	80		✓2			✓		
51	70		✓3			✓		
52	60		✓4			✓	✓	chl max
53	60		✓5			✓	✓	← also high CTD fluorometer reading @ 70
54	50		✓6			✓	✓	
55	40		✓7			✓		
56	30		✓8			✓		
57	20		✓9			✓	✓	
58	10		✓10			✓		
59	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

pump on
47-32Cast/Event #: 35UTC Date (ddmmmyyyy) 5 | Aug | 2017Lat (N): 71 03.065Station Name: KUG-5UTC Time: 1948Lon (W): 134 52.160Christine Michael's Station #: 45CTD File: 2017-20-0035

cast 1/2

Water Depth(from surface): 516 mIce Coverage 0/10Sound Speed used by depth sounder: 1492.5 m/sIn Air pressure (before/after) 1

CTD Operator: SZ

Weather/Sea State 0.5 m swell

light wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/ALK	Comments
44	Bottom	493	✓1			✓	✓	
45	300		✓2			✓	✓	
46	200		✓3			✓	✓	
47	S=33.1	166	✓4			✓	✓	
48	150		✓5			✓		
			6					
			7					
			8					
			9					
			10					
			11					
			12					

chl m-y 67-73 on downcast
S = 33.1 @ 166 m

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:

Cast 212

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 27UTC Date (ddmmmyyyy) 5 | Aug | 2017Lat (N): 70 59.046Station Name: KUG-4UTC Time: 1435Lon (W): 134 47.550Christine Michael's Station #: 4CTD File: 2017-20-00000027Water Depth(from surface): 359 mSound Speed used by depth sounder: 1492.5 m/sCTD Operator: SZIce Coverage 10 ^{~5} Bergs bits in distance POn 143650In Air pressure (before/after) 1Weather/Sea State light wind
calm sea

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC / ALK	Comments
33	100	100	1			X	✓	
34	80	80	2			X		
35	70	70	3			X		
36	60	64	4			X	✓	chl max adjusted depth to 14
37	60	64	5			X		
38	50	50	6			X	✓	
39	40	40	7			X		
40	30	30	8			X		
41	20	20	9			X	✓✓	
42	10	10	10			X		
43	5	5	11			XX	✓	
			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 2017-20

Ship: FV Frosti

Program: CBS-MEA

cast 1/2

Cast/Event #: 26UTC Date (ddmmmyyyy) 5 | Aug | 2017Lat (N): 70 58.975

2654

Station Name: KUG 4UTC Time: 1328Lon (W): 134 47.963Christine Michael's Station #: 4CTD File: 2017-20- 0026

349
5 360
5 | 353^m | 362

Water Depth(from surface): 362 mIce Coverage 10Sound Speed used by depth sounder: 1492.5 m/sIn Air pressure (before/after) /CTD Operator: SZWeather/Sea State Calm, Sunny
light + wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC / ALK	Comments
28	Bottom	348.5	1	✓			✓	
29	300	300	2	✓		✓	✓	
30	200	200	3	✓		✓	✓	
31	5 = 33.1	178	4			✓	✓	
32	150	150	5					
			6					
			7					
			8					
			9					
			10					
			11					
			12					

chl max = 65m
33.1 = 178m^(USE 60)

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 2017-20

Ship: FV Frosti

Program: CBS-MEA

2019 purpon

Cast/Event #: 18UTC Date (ddmmmyyyy) 41 Aug 2017Lat (N): 70 55.960Station Name: KUG-3UTC Time: 20 19Lon (W): 134 45.336Christine Michael's Station #: 3CTD File: 2017-20-0018Second Cast
@ KUG-3Water Depth(from surface): 222 mIce Coverage 0/10Sound Speed used by depth sounder: 1492.5 m/sIn Air pressure (before/after) 1CTD Operator: SZWeather/Sea State 1-2m swell

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/ALK	Comments
16	150	148	1			✓✓		
17	100	100	2			✓	✓	
18	80	81	3					
19	70	70	4					
20	60	60	5			✓	✓	} chd max @ 60m about 15 ^{µg/l}
21	60	60	6					
22	50	50	7				✓	
23	40	40	8					
24	30	30	9			✓		
25	20	20	10				✓✓	
26	10	10	11					
27	5	5	12			✓	✓	

SPAR not working.
connector on SPAR reseated
but still not working.

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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 17UTC Date (ddmmmyyyy) 41 Aug 2017Lat (N): 70 56.017Station Name: KUG-3UTC Time: 19:23Lon (W): 134 44.998Christine Michael's Station #: 3CTD File: 2017-20-0017First cast
@ KUG-3

First sample #14 0

Water Depth(from surface): 221 mIce Coverage 0/10Sound Speed used by depth sounder: x 1492.5 m/sIn Air pressure (before/after) 1CTD Operator: SEWeather/Sea State slippy 1.5m swell

SPAR?

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/ALIK Comments
14	bottom	201	1		XV	✓	chd max 60-65 33.1 - 180
15	3311	180	2		XV	✓	durig rest 2 vents open, but sampled quickly on deck
			3				
			4				
			5				SPAR not working
			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:

20:25

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 9UTC Date (ddmmmyyyy) 04 Aug 2017Lat (N): 70 50.936Station Name: KUG-2UTC Time: 1317Lon (W): 134 40.463Christine Michael's Station #: 2CTD File: 2017-20-0009Water Depth(from surface): 80 mIce Coverage 0/10Sound Speed used by depth sounder: 1492.5 m/sIn Air pressure (before/after) 1CTD Operator: SZWeather/Sea State 1m swell 15-20knt
From the N.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	Comments
5	70	72	✓1	1			} cast 9
6	60	59	2	2	✓		
7	50 30	30	3	3			✓ 2 chd max → on cast 9b (restart during upcast) Had to re-fire niskins 1, 2 so Calready closed on cast 9, so that #3 would close at 50m.
8	50	50	4	4	✓		
9	40	40.6	5				
10	30	30.9	6		✓		
11	20	20.0	7			✓✓	
12	10	9.7	8			✓	
13	5	5.5	9		✓	✓	
			10				During upcast @ 50m the computer lost communication with Deck Unit. Stopped acquisition, closed file 2017-20-0009 and started new
			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:

File 2017-20-0009a.

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Max 21.3 m
A17 2.2 mCast/Event #: 1UTC Date (ddmmmyyyy) 3 | Aug | 2017Lat (N): 70 0.682Station Name: KUG-1UTC Time: 1414Lon (W): 133 50.804Christine Michael's Station #: 1CTD File: 2017-20-0001Water Depth(from surface): 24 mIce Coverage 0/10Sound Speed used by depth sounder: 1492.5 m/sIn Air pressure (before/after) 1CTD Operator: SZWeather/Sea State Calmer

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/ALK	Comments
1	Bot	21.3	1	1		✓	✓	
2	10	9.9	2	2		✓		
3	5/10	9.9	3	3				
4	5	5.0	4	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:

Frosti 2017-20

Rosette log sheets :

Events 1-95 are missing nutrients column
although they were collected.

~~Answer~~

For all rosette casts, chlorophyll & other
samples collected for Christine Michel
are recorded on a different log sheet.

(Nutrients and DIC/Alk are listed on both
log sheets)