

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 456UTC Date (ddmmmyyyy) 5 ^{Sept} Aug | 2017Lat (N): 71 04.61Station Name: MTI-01UTC Time: 2216Lon (W): 119 21.43Christine Michael's Station #: 42CTD File: 2017-20- 0456Water Depth(from surface): 165 mSound Speed used by depth sounder: 1451 m/sIn Air pressure (before/after) /CTD Operator: JEWeather/Sea State 15 kts 1m seas.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	N U + S	Comments
580		80 ✓	1		✓			W	
581		70 ✓	2					W	
582		60 ✓	3					W	
583	CHIM _W	46 ✓	4		✓	✓		W	
584	CHIM _W	46 ✓	5						
585	"	46 ✓	6						
586		40 ✓	7					W	
587		30 ✓	8					W	
588		20 ✓	9		✓	✓		W	
589		10	10					W	
590		5	11		✓	✓		W	
591		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:

2220

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 454

UTC Date (ddmmmyyyy) 5 Sep | Aug | 2017

Lat (N): 71 04 18

Station Name: MT1-01

UTC Time: 2140

Lon (W): 119 20.89

Christine Michael's Station #: 42

CTD File: 2017-20- 0454

Water Depth(from surface): 166 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) /

CTD Operator: J. Eert

Weather/Sea State 15 kts , 1m seas

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
577	Bu-5	157	✓1			✓	✓	✓✓	
578	331	148	✓2			✓✓	✓	✓	
579		160	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:

2144

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 447

UTC Date (ddmmmyyyy) 5 Sep | Aug | 2017

Lat (N): 71 15 40

Station Name: MT1-02

UTC Time: 1352

Lon (W): 118 12 43

Christine Michael's Station #: 41

CTD File: 2017-20- 0447

Water Depth(from surface): 220 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) /

CTD Operator: J. Eert

Weather/Sea State 10kts wind .5m seas

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
565		80	✓1					✓✓	
566		70	✓2						
567		60	✓3						
568	chl	49	✓4			✓	✓	✓✓	
569		49	✓5						
570		49	✓6						
571		40	✓7					✓✓	
572		30	✓8						
573		20	✓9			✓	✓		
574		10	✓10						
575		5	✓11			✓	✓✓✓	✓✓	
576		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 #: 445

UTC Date (ddmmmyyyy) 5 Sep 2017

Lat (N): 71 15.22

Station Name: MTI-02

UTC Time: 1308

Lon (W): 118 11 40

Christine Michael's Station #: 41

CTD File: 2017-20- 0445

Water Depth(from surface): 224 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) /

CTD Operator: J. Eert

Weather/Sea State

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Nuts	Comments
561	B0-5	217	✓1			✓	✓	✓✓	
562		200	2			✓✓	✓	✓	
563	331	148	3			✓	✓	✓	
564		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 #: 437UTC Date (ddmmmyyyy) 4 Sep 2017Lat (N): 71 13.95Station Name: MT1-05UTC Time: 1935Lon (W): 117 15.40Christine Michael's Station #: 40CTD File: 2017-20-0437Water Depth(from surface): 290 mSound Speed used by depth sounder: 1451 m/sIn Air pressure (before/after) /

CTD Operator: JE

Weather/Sea State calm

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	h u s Comments
549		80	✓1			✓		✓✓
550		70	✓2					✓✓
551		60	✓3					✓✓
552	ChlMax	50	✓4			✓	✓	✓✓
553	ChlMax	50	✓5					
554	ChlMax	50	✓6					
555		40	✓7					✓✓
556		30	✓8					✓✓
557		20	✓9			✓	✓	✓✓
558		10	✓10					✓✓
559		5	11			✓	✓✓✓	✓✓
560		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 #: 435

UTC Date (ddmmmyyyy) 4 Sep | Aug | 2017

Lat (N): 71 14.12

Station Name: MT1-05

UTC Time: 1848

Lon (W): 117 16.05

Christine Michael's Station #: 40

CTD File: 2017-20- 0435

Water Depth(from surface): 283 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) /

CTD Operator: JE

Weather/Sea State calm

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	+	Comments
545	B0-5	278	✓1			✓	✓	✓	
546		200	✓2			↓	↓	↓	
547	331	147	✓3			↓	↓	↓	
548		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 #: 429UTC Date (ddmmmyyyy) | Aug | 2017Lat (N): 71 24.12Station Name: MTI-06UTC Time: 1356Lon (W): 116 3134Christine Michael's Station #: 39CTD File: 2017-20- 0429Water Depth(from surface): 264 mSound Speed used by depth sounder: 1451 m/sIn Air pressure (before/after) /

CTD Operator: JE

Weather/Sea State calm

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	WUCS	Comments
533		80	✓1			✓		✓✓	
534		70	✓2					✓✓	
535		60	✓3					✓✓	
536	chl	49	✓4			✓	✓	✓✓	
537	chl	49	✓5						
538	chl	49	✓6						
539		40	✓7					✓✓	
540		30	✓8					✓✓	
541		20	✓9			✓	✓	✓✓	
542		10	✓10					✓✓	
543		5	11			✓	✓✓✓	✓✓	
544		5	12						

Chl Max 49

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 #: 427

UTC Date (ddmmmyyyy) 4 Sep | Aug | 2017

Lat (N): 71 24.09

Station Name: MTI-06

UTC Time: 1313

Lon (W): 116 31.39

Christine Michael's Station #: 39

CTD File: 2017-20- 0427

Water Depth(from surface): 207 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) /

CTD Operator: JE

Weather/Sea State calm

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	g/s	Comments
529	B ₅ -5	203	1			✓	✓	✓✓	
530	33.1	147	2			✓	✓	✓✓	
531	150	147	✓3						
532	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 #: 420

UTC Date (ddmmmyyyy) 3^{Sep} Aug 2017

Lat (N): 71 17.98

Station Name: MTI-04

UTC Time: 2126

Lon (W): 117 20.05

Christine Michael's Station #: 38

CTD File: 2017-20- 0420

Water Depth(from surface): 173 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) /

CTD Operator: JE

Weather/Sea State calm flat

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	W C T S	Comments
517		80	✓1					✓	
518		70	✓2					✓	
519		60	✓3					✓	
520		49	✓4			✓	✓	✓	
521		49	✓5						
522		49	✓6						
523		40	✓7					✓	
524		30	✓8					✓	
525		20	✓9			✓	✓	✓	
526		10	✓10					✓	
527		5	✓11			✓	✓✓	✓	
528		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 #: 418UTC Date (ddmmmyyyy) 3 Sep 2017Lat (N): 71 17 92Station Name: MTI-04UTC Time: 2052Lon (W): 117 20 05Christine Michael's Station #: 38CTD File: 2017-20-0418Water Depth(from surface): 176 mSound Speed used by depth sounder: 1451 m/sIn Air pressure (before/after) /

CTD Operator: JE

Weather/Sea State ripples, 5kts wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Comments
514	B0-5	176	✓1			✓	✓	✓
515	331	159	✓2			✓	✓	✓
516		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 #: 411UTC Date (ddmmmyyyy) 3 Sep 2017Lat (N): 71 22.09Station Name: MTI-03UTC Time: 1648Lon (W): 117 28.31Christine Michael's Station #: 37CTD File: 2017-20- 0410Water Depth(from surface): 147 mSound Speed used by depth sounder: 1451 m/sIn Air pressure (before/after) /

CTD Operator: JE

Weather/Sea State riples 5kt wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	h c t	Comments
502		80	✓1			✓		✓✓	
503		70	✓2					✓✓	
504		60	✓3					✓✓	
505		50	4			✓	✓	✓✓	
506		42	✓5			✓	✓	✓✓	
507		42	✓6						
508		42	✓7						
509		30	✓8					✓✓	
510		20	✓9			✓	✓	✓✓	
511		10	✓10					✓✓	
512		5	✓11			✓	✓✓✓	✓✓	
513		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:

ChlMax

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 408UTC Date (ddmmmyyyy) 3 ^{Sep} | Aug | 2017Lat (N): 71.22.16Station Name: MT1-03UTC Time: 1549Lon (W): 117 28.50Christine Michael's Station #: 37CTD File: 2017-20-0408

Water Depth(from surface): _____ m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) _____ / _____

CTD Operator: JE

Weather/Sea State ripples, 5kt wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Notes	Comments
499	B ₀₋₅	143	✓1			✓	✓	✓	
500	301	143	✓2			✓	✓	✓✓	
501		100	✓3			✓	✓	✓✓	
			4						
			5						
			6						
			7						
			8						
			9						
8			10						
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 #: 400UTC Date (ddmmmyyyy) 1 ^{Sep} | Aug | 2017Lat (N): 69 39.24Station Name: DUS-03UTC Time: 2004Lon (W): 120 34.45Christine Michael's Station #: 36CTD File: 2017-20- 0400Water Depth(from surface): 213 mSound Speed used by depth sounder: 1451 m/sIn Air pressure (before/after) 1

CTD Operator: JE

Weather/Sea State 20 kts / 1m seas
2008

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	n 0 + 5	Comments
487		80	✓1			✓		✓	
488		70	✓2					✓	
489		60	✓3					✓	
490		50	✓4			✓	✓	✓	
491		40	✓5					✓	
492	ChlMax	31	✓6			✓	✓	✓	
493		31	✓7						
494		31	✓8						
495		20	✓9			✓	✓	✓	
496		10	✓10					✓	
497		5	11			✓	✓✓✓	✓	
498		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 #: 398UTC Date (ddmmmyyyy) 1 ^{Sep} ~~Aug~~ 2017Lat (N): 69 39.38Station Name: DUS-03UTC Time: 1905Lon (W): 120 34.38Christine Michael's Station #: 36CTD File: 2017-20-0398Water Depth(from surface): 221 mSound Speed used by depth sounder: 1451 m/sIn Air pressure (before/after) /

CTD Operator: JE

Weather/Sea State 20kts, 1m seas

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	10/5	Comments
483	B0-10	211	✓1			✓	✓	✓	
484		150	✓2			✓	✓	✓	
485	33.1	135	✓3			✓	✓	✓	
486		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 #: 394UTC Date (ddmmmyyyy) | Aug | 2017Lat (N): 69 43 49Station Name: DUS-04UTC Time: 2154Lon (W): 119 56.52Christine Michael's Station #: 35CTD File: 2017-20-0394Water Depth(from surface): 354 mSound Speed used by depth sounder: 1451 m/sIn Air pressure (before/after) /

CTD Operator: JE

Weather/Sea State 15kt, 0.75m seas

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	N V + S	Comments
472		80	✓1			✓		✓✓	
473		70	✓2					✓	
474		60	✓3					✓	
475		50	✓4			✓		✓	
476	ChlMax	36	✓5			✓		✓✓	
477		36	✓6					✓	
478		36	✓7					✓	
479		30	✓8					✓✓	
480		20	✓9			✓		✓	
481		10	10					✓	
482		5	11			✓		✓✓	
			12						

ChlMax 36

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 #: 392UTC Date (ddmmmyyyy) 31 | Aug | 2017Lat (N): 69 43.36Station Name: DOS-04

UTC Time: _____

Lon (W): 119 56.51Christine Michael's Station #: 35CTD File: 2017-20- 0392Water Depth(from surface): 353 mSound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) _____ / _____

CTD Operator: JE

Weather/Sea State 15 kts, 0.7m seas

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Notes	Comments
467	B0-5	344	✓1			✓		✓✓	
468		300	✓2			✓		✓✓	
469		200	✓3			✓✓		✓✓	
470	33.1	146	✓4			✓		✓✓	
471		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 #: 387

UTC Date (ddmmmyyyy) 31 | Aug | 2017

Lat (N): 69 47.09

Station Name: DUS-05

UTC Time: 1506

Lon (W): 119 24.12

Christine Michael's Station #: 34

CTD File: 2017-20- 0387

Water Depth(from surface): 415 m

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) _____ / _____

CTD Operator: JE

Weather/Sea State 15kts, 0.75m seas

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Comments
455		80	✓1			✓		vv
456		70	✓2					vv
457		60	✓3					vv
458		50	✓4			✓	✓	vv
459	ChlM.	40	✓5			✓	✓	vv
460		40	✓6					
461		40	✓7					
462		30	✓8					vv
463		20	✓9			✓	✓	vv
464		10	✓10					vv
465		5	✓11			✓	vvv	vv
466		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 #: 385UTC Date (ddmmmyyyy) 31 | Aug | 2017Lat (N): 69 47.27Station Name: DUS-05UTC Time: 1404Lon (W): 119 23 90Christine Michael's Station #: 34CTD File: 2017-20- 0385Water Depth(from surface): 411 mSound Speed used by depth sounder: 1451 m/sIn Air pressure (before/after) /

CTD Operator: JE

Weather/Sea State 15kts, 0.75m seas

1407

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	W v t s	Comments
450	B0-5	404	✓1			✓	✓	vv	
451		300	✓2			✓✓			
452		200	✓3			✓	✓		
453	331	151	✓4			✓	✓		
454		100	✓5			✓	✓	vv	
			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 #: 377 UTC Date (ddmmmyyyy) 30 | Aug | 2017 Lat (N): 69 51.27

Station Name: DUS-06 UTC Time: 2104 Lon (W): 118 43.70

Christine Michael's Station #: _____

CTD File: 2017-20- 0376

Water Depth(from surface): 281 m

Ice Coverage 0 /10

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) _____ / _____

CTD Operator: JE

Weather/Sea State small waves 5kts.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
439		80	✓1			✓		✓✓	
440		70	✓2					✓✓	
441		60	✓3					✓✓	
442		48	✓4			✓		✓✓	
443		48	✓5						
444		48	✓6						
445		40	✓7					✓✓	
446		30	✓8					✓✓	
447		20	✓9			✓		✓✓	
448		10	✓10					✓✓	
449		5	✓11			✓		✓✓	
			12						

Chiller 50

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 #: 375 UTC Date (ddmmmyyyy) 30 | Aug | 2017 Lat (N): 69 51.54

Station Name: DUS-06 UTC Time: 2021 Lon (W): 118 44.02

Christine Michael's Station #: _____

CTD File: 2017-20- 0375

Water Depth(from surface): 281 m

Ice Coverage 0 /10

Sound Speed used by depth sounder: 1451 m/s

In Air pressure (before/after) _____ / _____

CTD Operator: JE

Weather/Sea State ripples, 5kts

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
435	B0.5	276	✓1			✓		✓✓	
436		200	✓2			✓		✓✓	
437	33.1	150	✓3			✓		✓✓	
438		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:

11.28

Rosette Log for IOS Cruise ID 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 367

UTC Date (ddmmmyyyy) 30 | Aug | 2017

Lat (N): 69 54.09

Station Name: DUS-07

UTC Time: 1416

Lon (W): 11 8 18 93

Christine Michael's Station #: _____

CTD File: 2017-20- 0367

Water Depth(from surface): 503 m

Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) _____ / _____

CTD Operator: J. Eert

Weather/Sea State calm, fog

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
423		80	✓1			✓		✓✓	
424		70	✓2					✓✓	
425		60	✓3						
426		50	✓4			✓	✓		
427		39	✓5			✓	✓	✓✓	
428		39	✓6						
429		30	✓7						
430		30	✓8					✓✓	
431		20	✓9			✓	✓		
432		10	✓10						
433		5	✓11			✓	✓✓✓	✓✓	
434		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 #: 365 UTC Date (ddmmmyyyy) 30 | Aug | 2017 Lat (N): 69 54 22

Station Name: DUS-07 UTC Time: 1308 Lon (W): 119 19.88

Christine Michael's Station #: _____

CTD File: 2017-20- 0365

Water Depth(from surface): 499 m

Ice Coverage 0 /10

Sound Speed used by depth sounder: 1450 m/s

In Air pressure (before/after) 1

CTD Operator: JE

Weather/Sea State calm, fog

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
417	B0-5	496	✓1			✓✓	✓	✓✓	
418		300	✓2			✓	✓	✓✓	
419		200	✓3			✓	✓	✓✓	
420		152	✓4						
421	33.1	152	✓5			✓	✓	✓✓	
422		100	✓6			✓	✓	✓✓	
			7						
			8						
			9						
			10						
			11						
			12						

Chl Max 39

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 #: 358UTC Date (ddmmmyyyy) 29 | Aug | 2017Lat (N): 69 56.70Station Name: 11S-08UTC Time: 1930Lon (W): 118 01.81Christine Michael's Station #: 358CTD File: 2017-20- 0358Water Depth(from surface): 338 mIce Coverage 0 /10Sound Speed used by depth sounder: 1435 m/sIn Air pressure (before/after) 1

CTD Operator: JE

Weather/Sea State _____

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
416		80✓	1			✓		✓✓	
417		70✓	2					✓	
418		60✓	3					✓	
419		50	✓4			✓		✓	
420		40	✓5			✓		✓✓	Chl Max @ 40
421		40	✓6						
422		40	✓7						
423		30	✓8					✓✓	
424		20	✓9			✓		✓	
425		10	✓10					✓	
426		5	✓11			✓		✓✓	
			12						

Chl Max 43

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 #: 356 UTC Date (ddmmmyyyy) 29 | Aug | 2017 Lat (N): 69 56.10
 Station Name: DUS-08 UTC Time: 1836 Lon (W): 118 01.16
 Christine Michael's Station #: 31
 CTD File: 2017-20- 0356

Water Depth(from surface): 336 m

Ice Coverage 0/10

Sound Speed used by depth sounder: 1435 m/s

In Air pressure (before/after) 1

CTD Operator: JE

Weather/Sea State 0.75m seas, 15kts

1435.341
336
1450

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
406	B0-5	334	✓1			✓		✓✓	
411		300	✓2			✓✓		✓✓	
412		200	✓3			✓		✓✓	
413		150	✓4						no samples.
414	33.1	147	✓5			✓		✓✓	
415		100	✓6			✓		✓✓	
			7						
			8						
			9						
			10						
			11						
			12						

ChlM 43

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 #: 350 UTC Date (ddmmmyyyy) 29 | Aug | 2017 Lat (N): 69 58.07
 Station Name: DUS-09 UTC Time: 1351 Lon (W): 117 43.59
 Christine Michael's Station #: 30
 CTD File: 2017-20-0350

Water Depth(from surface): 197 m Ice Coverage 0 /10
 Sound Speed used by depth sounder: 1450 m/s In Air pressure (before/after) 1
 CTD Operator: JE Weather/Sea State bumpy 15 kts

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
398		80	✓1			✓		✓✓	
399		70	✓2					✓	
400		60	✓3					✓	
401	Chl	47	✓4			✓	✓	✓✓	
402		47	✓5						
403		47	✓6				✓	✓	
404		40	✓7					✓✓	no bottle closed
405		30	✓8					✓✓	
406		20	✓9			✓	✓	✓✓	
407		10	✓10					✓✓	
408		5	11 ¹⁰			✓	✓	✓✓	
409		5	12 ¹¹			✓	✓✓✓		

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 #: 349 UTC Date (ddmmmyyyy) 29 | Aug | 2017 Lat (N): 69 58.46
 Station Name: DUS-09 UTC Time: 1308 Lon (W): 117 43.86
 Christine Michael's Station #: 30
 CTD File: 2017-20-0349

Water Depth(from surface): 199 m Ice Coverage 0/10
 Sound Speed used by depth sounder: 1450 m/s In Air pressure (before/after) /
 CTD Operator: JE Weather/Sea State lumpy, 15kt wind

47

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Aik	Nut	Comments
395	B ₀ -5	189	✓ 1			✓	✓	✓✓	alt 4
396	33.1	140	✓ 2			✓	✓	✓✓	
397		100	3			✓	✓	✓✓	DIC headspace not std- maker does not fit in neck
			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 #: 339 UTC Date (ddmmmyyyy) 28 | Aug | 2017 Lat (N): 69 59.71
 Station Name: DUS-16 UTC Time: 1426 Lon (W): 117 31.19
 Christine Michael's Station #: 29
 CTD File: 2017-20- 0339

Water Depth(from surface): 109 m Ice Coverage 0 /10
 Sound Speed used by depth sounder: 1450 m/s In Air pressure (before/after) /
 CTD Operator: JE Weather/Sea State calm, cloudy

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Aik	Nut	Comments
383	B-5	101	✓1			✓	✓	✓✓	
384	80	80	✓2			✓		✓	
385	70	70	✓3					✓	
386	60	60	✓4					✓	
387	50	50	✓5			✓	✓	✓	
388	CHIM	38	✓6			✓	✓	✓✓	
389		38	✓7					✓	
390		30	✓8					✓✓	
391		20	✓9			✓	✓	✓	
392		10	✓10					✓	
393		5	✓11			✓	✓✓✓	✓✓	
394		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 #: 309 UTC Date (ddmmmyyyy) 25 | Aug | 2017 Lat (N): 69 42.02
 Station Name: BPT-03 UTC Time: 1304 Lon (W): 123 11.75
 Christine Michael's Station #: _____
 CTD File: 2017-20- 0309

Water Depth(from surface): 42 m Ice Coverage 0/10
 Sound Speed used by depth sounder: 1445 m/s In Air pressure (before/after) 1 -0.05
 CTD Operator: JE Weather/Sea State 0.75m sea 10 kt wind

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
376	B ₀ -3	35	✓1			✓	✓	✓✓	
377	30		✓2			✓			
378	26		✓3			✓	✓		
379	10		✓4			✓			
380	5		5			✓	✓✓✓	✓✓	
381	5		6						ChlMax
382	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 2017-20

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 293

UTC Date (ddmmmyyyy) 23 | Aug | 2017

Lat (N): 69 41.88

Station Name: BPT-02

UTC Time: 1913

Lon (W): 123 26.00

Christine Michael's Station #: 27

CTD File: 2017-20- 0293

Water Depth(from surface): 127 m

Sound Speed used by depth sounder: 1445 m/s

In Air pressure (before/after) 0.09 / -0.06

CTD Operator: J. Eert

Weather/Sea State calm, sunny

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Alk	Nuts	Comments
364		80	✓1		✓✓	✓		✓✓	
365		70	✓2		✓			✓	
366		60	✓3		✓			✓	
367		50	✓4		✓	✓		✓	
368		40	✓5		✓			✓	
369	ChlM	34	✓6		✓	✓		✓✓	
370	"	34	✓7		✓			✓	
371	"	34	✓8		✓			✓	
372		20	✓9		✓	✓		✓✓	
373		10	✓10		✓			✓	
374		5	11		✓	✓✓✓		✓✓	
375		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 #: 291

UTC Date (ddmmmyyyy) 23 | Aug | 2017

Lat (N): 69 41.98

Station Name: BPT-02

UTC Time: 1830

Lon (W): 123 26 24

Christine Michael's Station #: 27

CTD File: 2017-20- 0291

Water Depth(from surface): 126 m

Sound Speed used by depth sounder: 1445 m/s

In Air pressure (before/after) 1 -0.09

CTD Operator: J. Eert

Weather/Sea State calm sunny

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/Aik	Nuts	Comments
362	B-3	121	✓1		✓✓	✓	✓	✓✓	+5m
363	100		✓2		✓✓	✓	✓	✓✓	
			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 #: 282

UTC Date (ddmmmyyyy) 23 | Aug | 2017

Lat (N): 69 41.89

Station Name: PBT-01

UTC Time: 1354

Lon (W): 123 46.03

Christine Michael's Station #: 26

CTD File: 2017-20-0282.hxy

Water Depth(from surface): 74 m

Sound Speed used by depth sounder: 1455 m/s

In Air pressure (before/after) /

CTD Operator: J. Eert

Weather/Sea State calm, sunny

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salinity	DIC/AIK	Nuts	Comments
350	B-3 ✓	71	1		✓✓	✓	✓	✓✓	
351	60 ✓		2						
352	50 ✓		3			✓	✓		
353	40 ✓		4			✓	W		
354	30 ✓		5						
355	24 ✓		6			✓	✓	✓✓	Chl Max
356	24 ✓		7						"
357	24 ✓		8						"
358	20 ✓		9			✓	✓	✓✓	
359	10		10						
360	5		11			✓	✓✓	✓✓	
361	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: