

Rosette Log for IOS Cruise ID 2019-86 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 368 UTC Date (ddmmmyyyy) 9 12 2019 Lat (N): 69 59.98
 Station Name: FKN-06 UTC Time: 2121 Lon (W): 125 24.43
 Christine Michael's Station #: 39
 CTD File: 2019-86-- 0368.hex

Water Depth(from surface): 50 m

Ice Coverage 0/10

Sound Speed used by depth sounder: 1449.6 m/s

In Air pressure (before/after) 0.11 / 0.12

CTD Operator: JE

Weather/Sea State Sunny ~8kt breeze <0.5m waves
23.31

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
538	B0-10	39	✓1			✓	✓		
539	30	30	✓2			✓			
540	20	20	✓3			✓	✓		
541	CHL	9	✓4			✓	✓		
542	CHL	9	✓5						
543	5	5	✓6			✓	✓		
544	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 2019-86 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 376 UTC Date (ddmmmyyyy) 9 13 2019 Lat (N): 70 00.05
 Station Name: FKN-05 UTC Time: 1331 Lon (W): 125 46.42
 Christine Michael's Station #: 40
 CTD File: 2019-86-- 0376

Water Depth(from surface): 76 m

Ice Coverage 0/10

Sound Speed used by depth sounder: 1449.6 m/s

In Air pressure (before/after) 0.12/0.11

CTD Operator: JE

Weather/Sea State 10 kt wind, seas ~.5 m

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
544	B0-10	65	✓1			✓✓	✓		
545		60	✓2			✓			
546		50	✓3			✓	✓✓		
547	40	40	✓4						
548	40	30	✓5						
549	30	20	✓6				✓		
550	CHIM	10	✓7			✓	✓		
551	CHIM	10	✓8						
552	5	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:

Rosette Log for IOS Cruise ID 2019-86 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 384 UTC Date (ddmmmyyyy) 3 | 9 | 2019

Lat (N): 69 59.92

Station Name: FKN-04 UTC Time: 1923

Lon (W): 125 58.03

Christine Michael's Station #: 41

CTD File: 2019-86-- 0384

Water Depth(from surface): 157 m

Ice Coverage 0 / 10

Sound Speed used by depth sounder: 1449.6 m/s

In Air pressure (before/after) 6.11 /

CTD Operator: JE

Weather/Sea State 10 knts, 0.5m seas.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
553	B ₀ -10	149	✓ ₁			✓	✓		
554		100	✓ ₂				✓		
555		80	✓ ₃						
556		60	✓ ₄						
557		50	✓ ₅				✓		
558		40	✓ ₆						
559		30	✓ ₇						
560		20	✓ ₈				✓		
561	ChlM	11	✓ ₉			✓	✓		
562	ChlM	11	✓ ₁₀						
563	5	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 2019-86 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 392 UTC Date (ddmmmyyyy) 4 12 2019

Lat (N): 69 59 86

Station Name: FXN-02 UTC Time: 1352

Lon (W): 126 40 45

Christine Michael's Station #: 42

CTD File: 2019-86-- 0392.hyx

Water Depth(from surface): 152 m

Ice Coverage 0/10

Sound Speed used by depth sounder: 1449.6 m/s

In Air pressure (before/after) 0.051

CTD Operator: JE

Weather/Sea State 8kts 0.5m seas, >2kt drift N

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/AIK	Nut	Comments
564	B-10	135	✓1			✓	✓		
565	331	118	✓2			✓	✓		
566		100	✓3			✓	✓		
567		80	✓4			✓	✓		
568		70	✓5			✓	✓		
569		60	✓6			✓	✓		
570		50	✓7			✓	✓		
571		40	✓8			✓	✓		
572		30	✓9			✓	✓		
573		20	✓10			✓	✓		
574		10	11			✓	✓		
575	CHM	4	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: 575 CHM 4 13
576 CHM 4 14

CHM @ 4

Rosette Log for IOS Cruise ID 2019-86 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 402 UTC Date (ddmmmyyyy) 419 | 2019 Lat (N): 69 59.90
 Station Name: FKN-01 UTC Time: 1833 Lon (W): 126 49.20
 Christine Michael's Station #: 43
 CTD File: 2019-86-- 0402.hex

Water Depth(from surface): 46 m
 Sound Speed used by depth sounder: 1449.6 m/s
 CTD Operator: JE

Ice Coverage 0/10
 In Air pressure (before/after) 0.091 0.06
 Weather/Sea State calm, small remnant waves
little drift in lee of Hatan R delta.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/AIK	Nut	Comments
577	B0-10	38	✓1			✓			
578		30	✓2			↓			
579		20	✓3						
580		10	✓4						
581		3	5			↓			possible river influence.
582		3	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 2019-86 Ship: FV Frosti Program: CBS-MEA

Cast/Event #: 424 UTC Date (ddmmmyyyy) 7 19 | 2019 Lat (N): 71 14.18
 Station Name: MTI-05 UTC Time: 1331 Lon (W): 117 16.19
 Christine Michael's Station #: 44
 CTD File: 2019-86-- 0424.hct

Water Depth(from surface): 281 m

Sound Speed used by depth sounder: 1449.6 m/s

CTD Operator: JE

Ice Coverage 0/10

In Air pressure (before/after) 0.21 / 0.18

Weather/Sea State calm, ripples

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
583	B0	272	✓1			✓			
584		200	✓2			✓			
585	33.1	150	✓3			✓			
586	33.1	149	✓4			✓			
587		100	✓5			✓			
588		80	✓6			✓			
589		70	✓7			✓			
590		59	✓8			✓			for 1min wait to close instead of 30s.
591		59	✓9			✓			
592		50	✓10			✓			
593		40	✓11			✓			
594		30	✓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.

595 20 ✓13
 Comments: 596 10 ✓14
 597 5 ✓15
 ✕

Rosette Log for IOS Cruise ID 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: ~~XXX~~ 435

UTC Date (ddmmmyyyy) 8, 9 | 2019

Lat (N): 71 24.12

Station Name: MTI-06

UTC Time: 1331

Lon (W): 116 31.72

Christine Michael's Station #: 45

CTD File: 2019-86-- 0435.hcx

Water Depth(from surface): 204 m

Ice Coverage 0/10

Sound Speed used by depth sounder: 1449.6 m/s

In Air pressure (before/after) 0.08, 0.16

CTD Operator: JE

Weather/Sea State light airs, ripples

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
598	B ₀	192	✓1			✓	✓		
599	33.1	150	✓2			✓	✓		
600	33.1	100	✓3			✓✓	✓		
601		180	✓4			✓			
602		70	✓5			✓			
603		60	✓6			✓	✓		
604		61	✓7			✓			
605		50	✓8						
606		40	✓9			✓			
607		30	✓10						
608		20	✓11			✓	✓		
609		10	✓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: 610 5 ✓13 ✓ ✓

Rosette Log for IOS Cruise ID 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 443UTC Date (ddmmmyyyy) 8 | 9 | 2019Lat (N): 71 18.01Station Name: MTI-04UTC Time: 1901Lon (W): 117 20.54Christine Michael's Station #: 46CTD File: 2019-86-- 0443Water Depth(from surface): 172 mIce Coverage 0 /10Sound Speed used by depth sounder: 1449.6 m/sIn Air pressure (before/after) 0.21

CTD Operator: JE

Weather/Sea State ~6kt breeze, small chop

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
611	Bo	164	✓1			✓	✓		sharp bottom layer
612	33.1	154	✓2			✓	✓		in really high gradient
613		100	✓3			✓	✓		
614		80	✓4			✓			
615		70	✓5			✓			
616		60	✓6						
617		50	✓7			✓			
618		37	✓8			✓	✓		
619		37	✓9						
620		30	✓10						
621		20	✓11			✓	✓		
622		10	✓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.

623
Comments: 5 13 ✓ ✓

Rosette Log for IOS Cruise ID 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 451

UTC Date (ddmmmyyyy) 9/9/2019

Lat (N): 71 15.26

Station Name: MTI-02

UTC Time: 1339

Lon (W): 118 11.49

Christine Michael's Station #: 47

CTD File: 2019-86-- 0451_hex

Water Depth(from surface): 223 m

Ice Coverage 0/10

Sound Speed used by depth sounder: 1449.6 m/s

In Air pressure (before/after) 0.04, 0.13

CTD Operator: JE

Weather/Sea State Wind - 10kts, 0.5 m waves.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/Alk	Nut	Comments
624	30	210	✓1			✓	✓		
625		200	✓2			✓	✓		
626	331	154	✓3			✓	✓		
627		100	✓4			✓	✓		
628		80	✓5			✓			
629		70	✓6						
630		60	✓7			✓			
631	.	56	✓8			✓	✓		
632	.	56	✓9						
633	.	46	✓10			✓			
634	.	30	✓11			✓			
635	.	20	✓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.

636 . 10 ✓13
 Comments: 5 ✓14
 637 .

✓
 0 ✓

Rosette Log for IOS Cruise ID 2019-86

Ship: FV Frosti

Program: CBS-MEA

Cast/Event #: 458UTC Date (ddmmmyyy) 9 19 2019Lat (N): 71 04 20Station Name: MT1-01UTC Time: 2014Lon (W): 119 21 28Christine Michael's Station #: 48CTD File: 2019-86-- 0458Water Depth(from surface): 165 mIce Coverage 0 /10Sound Speed used by depth sounder: 1449.6 m/sIn Air pressure (before/after) 0.09 / 0.11

CTD Operator: JE

Weather/Sea State wind 15-20 kts, 1.25 m seas.

Samp #	Target Property	Depth (m)	Niskin #	Firing Order	Bottle Integrity	Salt	DIC/ALK	Nut	Comments
638	Bo	154	✓1			✓			= 33.2 , 33.1 @ 152m
639	33.1	100	✓2			✓			
640		86	✓3			✓			
641		70	✓4			✓			
642		60	✓5			✓			
643	ChlMax	54	✓6			✓			
644	ChlMax	54	✓7						
645		40	✓8			✓			
646		36	✓9						
647		20	✓10						
648		10	11						
649		5	12			✓			bottle closed on the fly - wary.

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: