

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 506 UTC Date (ddmm/yyyy) 9/9/2014

Ice Coverage 0/10

Water Depth(from surface) 145 m

Station DOL-01 UTC Time 2043

In Air pressure (before/after) 1

Sound Speed

CTD File 2014-56-0506 Lat (N) 69 22.724

Lon (W) 118 46.134

CTD Operator MD 4.7

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	ChlaSu	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
708	B-70	135	1						✓							1						
709		100	2						✓							2						
710		70	3						✓							3						
711		50	4						✓							4						
712		40	5						✓							5						
713		40	6													6						
714		40	7													7						
715		30	8						✓							8						
716		20	9						✓							9						
717		10	10						✓							10						
718		5	11						✓							11						
719		5	12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle Integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

CHL MAX = 40

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 498/499 UTC Date (ddmmmyyyy) 9/9/2014

Ice Coverage 0/10

Water Depth(from surface) 270 m

Station DOL-02 UTC Time 1808/1848

In Air pressure (before/after) /

Sound Speed /

CTD File 2014-56-0498 Lat (N) 69 25.938

Lon (W) 118 41.371

CTD Operator MD-H.M.

0499 69 25.993

118 41.494

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
691	B-10	260	1					✓	✓							1						
692		200	2					✓	✓							2						
693		155	3					✓	✓							3						
694		125	4					✓	✓							4						33.1 SAL = 155
695		100	5					✓	✓							5						
696		80	6					✓	✓							6						
697		70	7					✓	✓							7						
698		60	8					✓	✓							8						
699		50	9					✓	✓							9						
700		50	10													10						
701		50	11													11						CHL MAY = 50
702		40	12					✓								12						
703		30	13					✓								13						
704		20	14					✓								14						
705		10	15					✓								15						
706		5	16					✓								16						
707		5	17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

but it is actually cast 499 and 500

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 490/491 UTC Date (ddmmmyyyy) 08/01/09 2014

Ice Coverage 0/10

Water Depth(from surface) 439 m

Station DOL-03 UTC Time 2358

In Air pressure (before/after) /

Sound Speed

CTD File 2014-56-0490 Lat (N) 69 32 .160

Lon (W) 110 15.198

CTD Operator MDH

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
673	B-10	430	1					✓	✓							1						
674		300	2					✓	✓							2						
675		200	3					✓	✓							3						
676		150	4					✓	✓							4						
677		135	5					✓	✓							5						
678		100	6					✓	✓							6						
679		80	7					✓	✓							7						
680		70	18					✓	✓							8						
681		60	20					✓	✓							9						
682		46	30					✓	✓							10						
683		46	40													11						
684		46	50													12						
685		40	60					✓	✓							13						
686		30	70					✓	✓							14						
687		20	80					✓	✓							15						
688		10	90					✓	✓							16						
689		5	100					✓	✓							17						
690		5	110													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

1st CAST

2nd CAST

CHL MAX = 46

NO SALTS (LOW ON SAMPLE BOTTLES)

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 482/483 UTC Date (ddmmmyyyy) 8 / 9 / 2014
 Station DoL-04 UTC Time 1712/1759
 CTD File 2014-56-0482 Lat (N) 69 38.357
0483 69 38.354

Ice Coverage 0 / 10 Water Depth (from surface) 373 m
 In Air pressure (before/after) 1 Sound Speed _____
 Lon (W) 117 47.503 CTD Operator MD H.M
117 47.286

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
654	B-10	365	1					✓	✓							1						} 33.1 SAL = CHL MAX = cast 482
655		300	2					✓	✓							2						
656		200	3					✓	✓							3						
657		150	4					✓	✓							4						
658		125	5					✓	✓							5						
659		100	6					✓	✓							6						
660		91	7					✓	✓							7						
661		80	8					✓	✓							8						
662		73	1A					✓								9						} NO SALTS on SHALLOW CAST cast (RUNNING OUT OF BOTTLES) 483
663		73	20													10						
664		73	31													11						
665		60	42					✓								12						
666		56	53					✓								13						
667		40	64					✓								14						
668		30	75					✓								15						
669		20	86					✓								16						
670		10	97					✓								17						
671		5	108					✓								18						
672		5	119													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 475/476 UTC Date (ddmmmyyyy) 09/19/2014

Ice Coverage 0/10

Water Depth(from surface) 132 m

Station DOL-05 UTC Time 1311/1336

In Air pressure (before/after) 1

Sound Speed

CTD File 2014-56-0475 Lat (N) 69 42.088
0476 69 44.095

Lon (W) 117 23.130
117 23.366

CTD Operator MR H-m

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN				Comments	
640	B-10	125	1					✓	✓							1							cast 475 BOT 3 LEAKED on 1st CAST DO RE DO 80 m BOT on 2nd CAST cast 476 CH1 MAY = 30 m	
641		100	2					✓	✓							2								
642		80	3					✓	✓							3								
643		70	4					✓	✓							4								
644		60	5					✓	✓							5								
645		50	6					✓	✓							6								
646		40	7					✓	✓							7								
647		30	8					✓	✓							8								
648		30	9													9								
649		30	10													10								
650		20	11					✓	✓							11								
651		10	12					✓	✓							12								
652		5	13					✓	✓							13								
653		5	14					✓	✓							14								
			15													15								
			16													16								
			17													17								
			18													18								
			19													19								
			20													20								
			21													21								
			22													22								
			23													23								
			24													24								

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 469/470 UTC Date (ddmmmyyyy) 7 | 9 | 2014

Ice Coverage 0/10

Water Depth(from surface) 397 m

Station AMH-02 UTC Time 2136

In Air pressure (before/after) 1

Sound Speed

CTD File 2014-56-0469 Lat (N) 70 22 38
0470 70 13 140

Lon (W) 119 28.235
119 28.597

CTD Operator MB 14.7

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
621	B-10	390	1					✓	✓							1			✓			} cast 469 33.1 sal = 106
622		300	2					✓	✓							2			✓			
623		200	3					✓	✓							3			✓			
624		150	4					✓	✓							4			✓			
625		125	5					✓	✓							5			✓			
626		100	6					✓	✓							6			✓			
627		80	7					✓	✓							7			✓			
628		70	8					✓	✓							8			✓			} CHL MAY = 45m
629		60	9					✓	✓							9			✓			
630		45	10					✓	✓							10			✓			
631		45	11													11						
632		45	12													12						
633		45	13													13						} cast 470
634		40	14					✓	✓							14			✓			
635		30	15					✓	✓							15			✓			
636		20	16					✓	✓							16			✓			
637		10	17					✓	✓							17			✓			
638		5	18					✓	✓							18			✓			
639		5	19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 459/460 UTC Date (ddmmmyyyy) 7 1 | 9 | 2014

Ice Coverage 0/10

Water Depth(from surface) 255 m

Station AM1+01 UTC Time 1304

In Air pressure (before/after) 1

Sound Speed

CTD File 2014-56-0459 Lat (N) 70 13 45

Lon (W) 119 46.981

CTD Operator MD H.M.

0460 70 50 206

119 46 376

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNARNA	DOC/DN				Comments
604	B-16	243	1					✓	✓							1							
605		200	2					✓	✓							2							
606		150	3					✓	✓							3							
607		115	4					✓	✓							4							
608		100	5					✓	✓							5							
609		85	6					✓	✓							6							
610		70	7					✓	✓							7							
611		60	8					✓	✓							8							
612		45	9					✓	✓							9							
613		45	10													10							
614		45	11													11							
615		40	12					✓	✓							12							
616		30	13					✓	✓							13							
617		20	14					✓	✓							14							
618		10	15					✓	✓							15							
619		5	16					✓	✓							16							
620		5	17													17							
			18													18							
			19													19							
			20													20							
			21													21							
			22													22							
			23													23							
			24													24							

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

cast 459
CIL MAX = 45
SAL 33.1 = 115m
cast 460

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 450 UTC Date (ddmmmyyyy) 519 2014
 Station PWS_01 UTC Time 1965
 CTD File 2014-56-0450 Lat (N) 72 06.540

Ice Coverage 1/10 Water Depth(from surface) 105 m
 In Air pressure (before/after) 1 Sound Speed _____
 Lon (W) 119 25.666 CTD Operator MD H. V

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
592	B-5	100	1					✓	✓							1						
593		70	2					✓	✓							2						
594		60	3					✓	✓							3						
595		48	4					✓	✓							4						CHL MAX = 48 m
596		48	5													5						
597		48	6													6						
598		40	7					✓	✓							7						
599		30	8					✓	✓							8						
600		20	9					✓	✓							9						
601		10	10					✓	✓							10						
602		5	11					✓	✓							11						
603		5	12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 442 UTC Date (ddmmmyyyy) 5 9 2014
 Station ALY-03 UTC Time 1258
 CTD File 2014-56-442 Lat (N) 71 40.987

Ice Coverage 0/10 Water Depth(from surface) _____ m
 In Air pressure (before/after) _____ Sound Speed _____
 Lon (W) 119 17.066 CTD Operator MD H.A.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNARNA	DOC/DN			Comments
584	B-5	40	1					✓	✓							1						
585		40	2													2						
586		40	3													3						
587		20	4					✓	✓							4						
588		20	5					✓	✓							5						
589		10	6					✓	✓							6						
590		5	7					✓	✓							7						
591		5	8													8						
			9													9						
			10													10						
			11													11						
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 432/433 UTC Date (ddmmmyyyy) 4 | 09 | 2014

Ice Coverage 0/10

Water Depth(from surface) 140 m

Station ALT-02 UTC Time 2027

In Air pressure (before/after) /

Sound Speed

CTD File 2014-56-0432 Lat (N) 71 39.57 635
0433 71 39.354

Lon (W) 119 45 976
119 47.490

CTD Operator MD H.M

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN				Comments
569	B-5	135	1					✓	✓							1	} CAST #1 430						33.1 SAL = 122
570		122	2					✓	✓							2							
571		100	3					✓	✓							3							
572		80	4					✓	✓							4							
573		70	5					✓	✓							5	} CAST #2 430						CIL MAX = 50m
574		60	6					✓	✓							6							
575		50	7					✓	✓							7							
576		50	8													8							
577		50	9													9	} CAST #2 430						
578		40	10					✓	✓							10							
579		30	11					✓	✓							11							
580		20	12					✓	✓							12							
581		10	13					✓	✓							13							
582		5	14					✓	✓							14							
583		5	15													15							
			16													16							
			17													17							
			18													18							
			19													19							
			20													20							
			21													21							
			22													22							
			23													23							
			24													24							

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

CAST #1
135
33.1 SAL = 122

CHL MAX = 50 m

CAST #2
135

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 424 UTC Date (ddmmmyyy) 4/09/2014

Ice Coverage 1/10

Water Depth(from surface) 76 m

Station ALY-01 UTC Time 15:30:54 (CTD#6)

In Air pressure (before/after) 1

Sound Speed

CTD File 2014-56-0424 Lat (N)

Lon (W)

CTD Operator MD H.M.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
558	B-5	76	1					✓	✓							1						
559		60	2					✓	✓							2						
560		52	3					✓	✓							3						
561		52	4													4						CHL MAY 52
562		52	5													5						
563		40	6					✓	✓							6						
564		30	7					✓	✓							7						
565		20	8					✓	✓							8						
566		10	9					✓	✓							9						
567		5	10					✓	✓							10						
568		5	11													11						
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 409 UTC Date (ddmmmyyyy) 11/9/2014

Ice Coverage 0/10

Water Depth(from surface) 43 m

Station WLK-03 UTC Time 2307

In Air pressure (before/after) /

Sound Speed

CTD File 2014-56-0409 Lat (N) 71 35.833

Lon (W) 118 00.368

CTD Operator MB

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Chl aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
545	B-5	40	1					✓	✓							1						
546		40	2													2						
547		40	3													3						
548		30	4					✓	✓							4						
549		20	5					✓	✓							5						
550		10	6					✓	✓							6						
551		5	7					✓	✓							7						
552		5	8													8						
			9													9						
			10													10						
			11													11						
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
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			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 402 UTC Date (ddmm/yyyy) 1 1 09 2014

Ice Coverage 0/10

Water Depth(from surface) 53 m

Station W1K-02 UTC Time 1850

In Air pressure (before/after) 1

Sound Speed

CTD File 2014-56-0402 Lat (N) 71 32.855

Lon (W) 118 15.937

CTD Operator MD AM

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
535		50	1					✓	✓							1						
536		50	2													2						
537		50	3													3						
538		50	4													4			✓			
539		40	5					✓	✓							5			✓			
540		30	6					✓	✓							6			✓			
541		20	7					✓	✓							7			✓			
542		10	8					✓	✓							8			✓			
543		5	9					✓	✓							9			✓			
544		5	10													10						
			11													11						
			12													12						
			13													13						
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			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

CAL MAY = 50m

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 393 UTC Date (ddmmmyyyy) 1 09 2014
 Station WLK-01 UTC Time 1301
 CTD File 2014-56-0393 Lat (N) 71 28.789

Ice Coverage 0/10 Water Depth(from surface) 100~ m
 In Air pressure (before/after) 1 Sound Speed
 Lon (W) 118 41.713 CTD Operator MDH

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNARNA	DOC/DN			Comments
523		95	1				✓	✓								1						
524		70	2				✓	✓								2						
525		56	3				✓	✓								3						
526		56	4													4						
527		56	5													5						
528		50	6				✓	✓								6						
529		40	7				✓	✓								7						
530		30	8				✓	✓								8						
531		30	9				✓	✓								9						
532		10	10				✓	✓								10						
533		5	11				✓	✓								11						
534		5	12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 374/375 UTC Date (ddmmmyyyy) 30 09 | 2014

Ice Coverage 0/10

Water Depth(from surface) 139 m

Station MNT-05 UTC Time 1611

In Air pressure (before/after) /

Sound Speed /

CTD File 2014-56-0374 Lat (N) 71 26.236

Lon (W) 116 17.707

CTD Operator MD 4.5

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
508	B-5	130	1				✓	✓								1						1 ST CAST 374 33.1 SAL = 120
509		120	2				✓	✓								2						
510		100	3				✓	✓								3						
511		80	4				✓	✓								4						
512		70	5				✓	✓								5						CHL MAX = 4B
513		60	6				✓	✓								6						
514		48	7				✓	✓								7						
515		48	8													8						
516		40	9													9						2 ND CAST 375
517		40	10				✓	✓								10						
518		30	11				✓	✓								11						
519		20	12				✓	✓								12						
520		10	13				✓	✓								13						
521		5	14				✓	✓								14						
522		5	15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 366 UTC Date (ddmm/yyyy) 29/09/2014
 Station MNT-04 UTC Time 2203
 CTD File 2014-56-0366 Lat (N) 71 23.664

Ice Coverage 0/10 Water Depth(from surface) 78 m
 In Air pressure (before/after) 1 Sound Speed
 Lon (W) 117 11.736 CTD Operator MD 14.7.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
497	B-5	75	1				✓	✓								1						
498		60	2				✓	✓								2						
499		48	3				✓	✓								3						
500		48	4													4						
501		48	5													5						
502		40	6				✓	✓								6						
503		30	7				✓	✓								7						
504		20	8				✓	✓								8						
505		10	9				✓	✓								9						
506		5	10				✓	✓								10						
507		5	11													11						
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 358/359 UTC Date (ddmm/yyyy) 29/08/2014

Ice Coverage 010

Water Depth(from surface) 45 m

Station MN7-03 UTC Time _____

In Air pressure (before/after) _____

Sound Speed _____

CTD File 2014-56-0358 Lat (N) 71 19.544

Lon (W) 117 08.760

CTD Operator MD 14.7.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNARNA	DOC/DN			Comments
482	140	8-10	1					✓	✓							1						
483		120	2					✓	✓							2						
484		100	3					✓	✓							3						
485		80	4					✓	✓							4						
486		70	5					✓	✓							5						
487		60	6					✓	✓							6						
488		50	7					✓	✓							7						
489		43	8					✓	✓							8						
490		43	9													9						
491		43	10													10						
492		30	11					✓	✓							11						
493		20	12					✓	✓							12						
494		10	13					✓	✓							13						
495		5	14					✓	✓							14						
496		5	15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

1ST CAST 33.1 SAL = 120
358

CHL MAX = 43

2ND CAST
359

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

$Z = 275$

$Z_2 = 70$

Cast # 349/350 UTC Date (ddmmmyyyy) 29 08 2014

Ice Coverage 0/10

Water Depth(from surface) 283/280 m

Station MNT-02 UTC Time 0021

In Air pressure (before/after) /

Sound Speed /

CTD File 2014-56-0349 Lat (N) 71 15.444

Lon (W) 117 05.071

CTD Operator MD 11.17

0350 71 15.437

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch a Tot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
465	275	5-10	1					✓	✓							1						
466		200	2					✓	✓							2						
467		150	3					✓	✓							3						
468		112	4					✓	✓							4						1st CAST 33.1 SAL = 112
469		100	5					✓	✓							5						
470		80	6					✓	✓							6						
471		70	7					✓	✓							7						
472		60	8					✓	✓							8						
473		47	9					✓	✓							9						
474		47	10													10						CHL MAX = 47
475		47	11													11						
476		40	12					✓	✓							12						2nd CAST
477		30	13					✓	✓							13						
478		20	14					✓	✓							14						
479		10	15					✓	✓							15						
480		5	16					✓	✓							16						
481		5	17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Ship: *F/V Frosti*

Ice Coverage 0/10

Water Depth(from surface) 215 m

In Air pressure (before/after) _____ / _____

Sound Speed _____

Lon (W) 118 21.961

CTD Operator MD H. H.

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 322/323 UTC Date (ddmmmyyyy) 26 / 03 / 2014

Ice Coverage 0/10

Water Depth(from surface) 212 m (WAS 225)

Station CPY-03 UTC Time 1954 / 2032

In Air pressure (before/after) 1

Sound Speed

CTD File 2014-56-022 Lat (N) 70 26.788

Lon (W) 124 31.259

CTD Operator MD H.M.

-0323

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN				Comments
434	33.1	205	1				✓	✓	✓							1							CAST #322 33.1 = III
435		150	2				✓	✓	✓							2							
436		111	3				✓	✓	✓							3							
437		100	4				✓	✓	✓							4							
438		80	5				✓	✓	✓							5							
439		70	16				✓	✓	✓							16							CAST #323 CHL MAX 40 & 55 DOUBLE
440	55	27					✓	✓	✓							27							
441	55	38														38							
442	55	49														49							
443	40	510					✓	✓	✓							510							
444		30	611				✓	✓	✓							611							
445		20	712				✓	✓	✓							712							
446		10	813				✓	✓	✓							813							
447		5	914				✓	✓	✓							914							
448		5	1015													1015							
			16													16							
			17													17							
			18													18							
			19													19							
			20													20							
			21													21							
			22													22							
			23													23							
			24													24							

CAST #322 33.1 = 111

CAST #323 CHL MAX (40 & 55 DOUBLE)

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 315 UTC Date (ddmmmyyyy) 26 | 08 | 2014

Ice Coverage 0/10

Water Depth(from surface) 88 m

Station CPY-02 UTC Time 1425

In Air pressure (before/after) 1

Sound Speed

CTD File 2014-56-0315 Lat (N) 70 15.667

Lon (W) 124 30.457

CTD Operator MD H.M

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
422	80	B-5	1				✓	✓	✓							1						
423		70	2				✓	✓	✓							2						
424		60	3				✓	✓	✓							3						
425		50	4				✓	✓	✓							4						
426		40	5				✓	✓	✓							5						
427		30	6				✓	✓	✓							6						
428		30	7													7						
429		30	8													8						
430		20	9				✓	✓	✓							9						
431		10	10				✓	✓	✓							10						
432		5	11				✓	✓	✓							11						
433		5	12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 308 UTC Date (ddmmmyyyy) 25 08 | 2014
 Station CPY-01 UTC Time 2149
 CTD File 2014-56-0308 Lat (N) 70 13 552

Ice Coverage /10 Water Depth(from surface) 44 m
 In Air pressure (before/after) / Sound Speed _____
 Lon (W) 124 29 828 CTD Operator MD H-5

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNARNA	DOC/DN			Comments
414	40m	8-5	1				✓	✓	✓							1						
415		30	2				✓	✓	✓							2						
416		30	3													3						
417		30	4													4						CHL MAY = 30m
418		20	5				✓	✓	✓							5						
419		10	6				✓	✓	✓							6						
420		5	7				✓	✓	✓							7						
421		5	8					✓	✓							8						
			9													9						
			10													10						
			11													11						
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 301 UTC Date (ddmmmyyyy) 25 08 2014
 Station W15-02 UTC Time 1730
 CTD File 2014-56-0301 Lat (N) 70 10 41

Ice Coverage 0/10 Water Depth(from surface) 44 m
 In Air pressure (before/after) / Sound Speed /
 Lon (W) 124 50 07 CTD Operator MD 147

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
406		B-5	1				✓	✓	✓							1						
407		30	2				✓	✓	✓							2						
408		30	3													3						
409		30	4													4						
410		20	5				✓	✓	✓							5						
411		10	6				✓	✓	✓							6						
412		5	7				✓	✓	✓							7						CHL MAX = 30m
413		5	8													8						
			9													9						
1			10													10						
			11													11						
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle Integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 294 UTC Date (ddmm/yyyy) 25 08 2014

Ice Coverage 10

Water Depth(from surface) 49 m

Station WIS-01 UTC Time 13:05:08

In Air pressure (before/after) 1

Sound Speed

CTD File 2014-56-0294 Lat (N) 70 06 27

Lon (W) 125 03 728

CTD Operator MD H.V

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
397	45	15	1				✓	✓	✓							1						
398		40	2				✓	✓	✓							2						
399		30	3				✓	✓	✓							3						
400		24	4				✓	✓	✓							4						CHL MAX = 24m
401		24	5													5						
402		24	6													6						
403		16	7				✓	✓	✓							7						
404		5	8				✓	✓	✓							8						
405		5	9													9						
			10													10						
			11													11						
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 276 UTC Date (ddmmmyyyy) 23 08 | 2014

Ice Coverage /10

Water Depth(from surface) 41 m

Station BPT-01 UTC Time 20 15

In Air pressure (before/after) /

Sound Speed

CTD File 2014-56-0276 Lat (N) 69 42.223

Lon (W) 123 49.183

CTD Operator MB H.M.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
389	35	18.5	1				✓	✓	✓							1						
390		28	2				✓	✓	✓							2						
391		28	3													3						
392		28	4													4						
393		20	5				✓	✓	✓							5						
394		10	6				✓	✓	✓							6						
395		5	7				✓	✓	✓							7						
396		5	8													8						
			9													9						
			10													10						
			11													11						
			12													12						
			13													13						
			14													14						
			15													15						
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			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

CHL MAX = 28m

Ship: *F/V Frosti*

Ice Coverage /10

Water Depth(from surface)_____m

In Air pressure (before/after) _____/_____

Sound Speed _____

Lon (W) 123 47 243

CTD Operator MD Hm

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN				Comments
378		8-5	1				✓	✓	✓							1							
379		60	2				✓	✓	✓							2							
380		50	3				✓	✓	✓							3							
381		40	4				✓	✓	✓							4							
382		29	5				✓	✓	✓							5							
383		29	6													6							
384		29	7													7							
385		20	8				✓	✓	✓							8							
386		10	9				✓	✓	✓							9							
387		5	10				✓	✓	✓							10							
388		5	11													11							
			12													12							
			13													13							
			14													14							
			15													15							
			16													16							
			17													17							
			18													18							
			19													19							
			20													20							
			21													21							
			22													22							
			23													23							
			24													24							

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column

Comments:

$$CHL \text{ MAX} = 29_m$$

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 262 & 263 UTC Date (ddmmmyyyy) 22 08 | 2014
 Station BPT-3 UTC Time 2236
 CTD File 2014-56-262 Lat (N) 69 42.001

Ice Coverage 10 Water Depth(from surface) 121 m
 In Air pressure (before/after) 1 Sound Speed _____
 Lon (W) 123 26.79 CTD Operator MDH

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
363		8.5	1				✓	✓	✓							1						
364		100	2				✓	✓	✓							2						
365	33.1	95	3				✓	✓	✓							3						
366		80	4				✓	✓	✓							4						
367		70	5				✓	✓	✓							5						
368		60	6				✓	✓	✓							6						
369		50	7				✓	✓	✓							7						
370		43	8				✓	✓	✓							8						
371		43	9													9						
372		43	10													10						
373		30	11				✓	✓	✓							11						
374		20	12				✓	✓	✓							12						
375		10	13				✓	✓	✓							13						
376		5	14				✓	✓	✓							14						
377		5	15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

CHL MAX 43m
 33.1 SALINITY @ 95m

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 255 UTC Date (ddmmmyyyy) 22 06 2014

Ice Coverage /10

Water Depth(from surface) 73 m

Station BPT-4 UTC Time 1840

In Air pressure (before/after) /

Sound Speed

CTD File 2014-56-255 Lat (N) 69 41.890

Lon (W) 123 14.53

CTD Operator MD H.M.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN				Comments
352		20.5	1				✓	✓	✓							1							
353		60	2				✓	✓	✓							2							
354		50	3				✓	✓	✓							3							
355		40	4				✓	✓	✓							4							
356		40	5						✓							5							
357		40	6													6							
358		30	7				✓	✓	✓							7							
359		20	8				✓	✓	✓							8							
360		10	9				✓	✓	✓							9							
361		5	10				✓	✓	✓							10							
362		5	11													11							
			12													12							
			13													13							
			14													14							
			15													15							
			16													16							
			17													17							
			18													18							
			19													19							
			20													20							
			21													21							
			22													22							
			23													23							
			24													24							

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 248 UTC Date (ddmmmyyyy) 22/09 2014

Ice Coverage 1/10

Water Depth(from surface) 36.5 m

Station BPT-5 UTC Time 1439

In Air pressure (before/after) /

Sound Speed

CTD File 2014-56-248 Lat (N) 69 47 005

Lon (W) 123 11 622

CTD Operator MD H.M.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN				Comments
345	Bot	35.0	1			X	X	X	X	X	X	X	X	X	X	1	X	X	X				3 Bot
346		35.0	2													2							
347		35.0	3													3							
348		20	4			X	X	X	X	X	X			X		4		X	X				
349		10	5			X	X	X	X	X	X					5							
350		5	6			X	X	X	X	X	X	X	X	X	X	6	X	X					2 Bot 32.0957 32.1127
351		5	7				X	X	X							7							
			8													8							
			9													9							
			10													10							
			11													11							
			12													12							
			13													13							
			14													14							
			15													15							
			16													16							
			17													17							
			18													18							
			19													19							
			20													20							
			21													21							
			22													22							
			23													23							
			24													24							

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

CHL MAX @ BOTTOM = 35.0 ± 5m off BOTTOM

problem starts here

missing 245-323

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 234 UTC Date (ddmmmyyyy) 29 8 2014

Ice Coverage 0 /10

Water Depth(from surface) 43 m

Station BOW 2 UTC Time _____

In Air pressure (before/after) _____ / _____

Sound Speed _____

CTD File 2014-56- Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
338	Bot	38.1	1					X	X							1				
339	30	30.1	2					X	X							2				
340	20	16.0	3					X	X							3				
341	10	10.2	4													4				
342	5	5.1	5													5				
343	15	5.0	6					X	X							6				
344	5	5.0	7					X	X							7				
			8													8				
			9													9				
			10													10				
			11													11				
			12													12				
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			15													15				
			16													16				
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			18													18				
			19													19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

33.1 = 16 m.

*chl a max = 5 µm
~ 0.8 µm*

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 247 UTC Date (ddmmmyyyy) 17 8 / 2014

Ice Coverage 0 / 10

Water Depth(from surface) 43 m

Station B10 UTC Time _____

In Air pressure (before/after) _____ / _____

Sound Speed _____

CTD File 2014-56-0247 Lat (N) _____

Lon (W) _____

CTD Operator MD _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
330	Bot	38.5	1					X	X							1				
331	30	30.1	2					X	X							2				
332	20	20.1	3					X	X							3				
333	20	20.1	4													4				
334	20	20.1	5													5				
335	10	10.1	6					X	X							6				
336	5	5.1	7					X	X							7				
337	5	5.1	8													8				
			9													9				
			10													10				
			11													11				
			12													12				
			13													13				
			14													14				
			15													15				
			16													16				
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			19													19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

smoking Hills.
chla ~20m.
no chla peak at surface

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 240 UTC Date (ddmmmyyyy) 17 8 | 2014

Ice Coverage 0 / 10

Water Depth(from surface) 42 m

Station FRK07 UTC Time _____

In Air pressure (before/after) _____ / _____

Sound Speed _____

CTD File 2014-56-0240 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
323	Bot	39.4	1													1				
324	30	30.5	2													2				
325	20	20.0	3													3				
326	10	10.2	4													4				
327	5	5.0	5													5				
328	5	4.7	6													6				
329	5	4.9	7													7				
			8													8				
			9													9				
			10													10				
			11													11				
			12													12				
			13													13				
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			15													15				
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			18													18				
			19													19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

212 213
Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 230 + 231 UTC Date (ddmmmyyyy) 17 | 8 | 2014

Ice Coverage 0 / 10

Water Depth(from surface) 126 m

Station FRK06 UTC Time _____

In Air pressure (before/after) -0.322

Sound Speed _____

CTD File 2014-56-0212 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
309	125	118.8	1					X	X							1				212 213
310	100	101.3	2					X	X							2				
311	53.1	76.1	3					X	X							3				
312	20	70.2	4					X	X							4				
313	50	59.5	5					X	X							5				
314	50	50.2	6					X	X							6				
315	40	40.2	7					X	X							7				
316	30	30.1	8					X	X							8				
317	20	20.2	9					X	X							9				
318	20	20.1	10					X	X							10				
319	20	20	11					X	X							11				
320	10	10.1	12					X	X							12				
321	5	5.3	13					X	X							13				
322	5	5.0	14					X	X							14				
			15													15				
			16													16				
			17													17				
			18													18				
			19													19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla 20m. ~0.5 µg/L.
 confirmed on 231
 33.1 76m
 confirmed on 231.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 204 & 206 UTC Date (ddmm/yyyy) 18 / 8 / 2014

Ice Coverage 0 / 10

Water Depth (from surface) 2297 m

Station FRK05 UTC Time _____

In Air pressure (before/after) _____ / _____

Sound Speed _____

CTD File 2014-56-0204 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
293	Bot	222.3	1					X	X							1						} cast 204
294	250	151	2					X	X							2						
295	33.1	118.1	3					X	X							3						
296	100	100.4	4					X	X							4						
297	180	180.1	5					X	X							5						
298	70	70.0	6					X	X							6						} cast 206
299	70	70.2	7					X	X							7						
300	70	70.3	8					X	X							8						
301	60	60.2	9					X	X							9						
302	50	50.2	10					X	X							10						
303	40	40.3	11					X	X							11						
304	30	27.8	12					X	X							12						
305	20	20.3	13					X	X							13						
306	10	10.0	14					X	X							14						
307	5	5.2	15					X	X							15						
308	5	5.1	16					X	X							16						
309			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

33.1 = 117m.

chla & xmiss failure on 204

new xmiss fluor cable for 206

minor chla max. ~70m. (another peak 65m.)

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 176 E197 UTC Date (ddmmmyyyy) 18 0 | 2014

Ice Coverage 0 /10

Water Depth(from surface) 202 m

Station FRK04 UTC Time _____

In Air pressure (before/after) 1

Sound Speed _____

CTD File 2014-56-0196 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CAREOY	Comments			
278	130	19.7	1					X	X							1				X	196			
279	150	15.6	2					X	X							2				X		197		
280	33.1	10.6	3					X	X							3				X			197	
281	80	80.4	4					X	X							4				X				197
282	70	70.2	5					X	X							5				X				
283	70	70.2	6													6				X	197			
284	70	70.2	7													7				X		197		
285	50	60.2	8					X	X							8				X			197	
286	650	50.5	9					X	X							9				X				197
287	140	40.0	10					X	X							10				X				
288	30	30.2	11					X	X							11				X	197			
289	20	20.0	12					X	X							12				X		197		
290	10	10.2	13					X	X							13				X			197	
291	5	4.9	14					X	X							14				X				197
292	4	5.1	15													15				X				
			16													16				X	197			
			17													17								
			18													18								
			19													19								
			20													20								
			21													21								
			22													22								
			23													23								
			24													24								

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla max ~ 70m 3 ug/L
also peak @ 25 on thermocline 1 ug/L
and 50m. 2 ug/L.
33.1 ~ 100m → 102m.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 187 & 188 UTC Date (ddmmmyyyy) 17 | 8 | 2014

Ice Coverage 0/10

Water Depth(from surface) 128 m

Station FRK03 UTC Time _____

In Air pressure (before/after) _____

Sound Speed _____

CTD File 2014-56-0187 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CA	Comments
264	Bot	122.0	1					X	X							1				X	
265	100	99.2	2					X	X							2				X	
266	80	81.2	3					X	X							3				X	
267	70	70.0	4					X	X							4				X	
268	70	69.9	5					X	X							5				X	
269	70	70.0	6					X	X							6				X	
270	60	60.0	7					X	X							7				X	
271	50	50.0	8					X	X							8				X	
272	40	40.3	9					X	X							9				X	
273	30	30.0	10					X	X							10				X	
274	20	20.1	11					X	X							11				X	
275	10	10.0	12					X	X							12				X	
276	5	5.0	13					X	X							13				X	
277	5	5.2	14					X	X							14				X	
			15													15					
			16													16					
			17													17					
			18													18					
			19													19					
			20													20					
			21													21					
			22													22					
			23													23					
			24													24					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

100 ≈ 33.1
chl nut = 70 m.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 180 UTC Date (ddmmmyyyy) 17 8 2014

Ice Coverage /10

Water Depth(from surface) 79 m

Station FRK02 UTC Time _____

In Air pressure (before/after) -0.3119 -0.2984

Sound Speed _____

CTD File 2014-56-0180 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch a Tot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
253	150f	74.1	1					X	X							1				X
254	60	60.1	2					X	X							2				
255	50	50.3	3					X	X							3				
256	40	40.2	4					X	X							4				
257	30	30.1	5					X	X							5				
258	30	30.0	6					X	X							6				
259	30	30.0	7					X	X							7				
260	20	20.2	8					X	X							8				
261	10	10.0	9					X	X							9				
262	5		10					X	X							10				
263	5		11													11				
			12													12				
			13													13				
			14													14				
			15													15				
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			18													18				
			19													19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla max = 30

29.6 @ surface & down to 13m.

sailboat on

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 173 UTC Date (ddmmmyyyy) 16/8 2014

Ice Coverage 0 /10

Water Depth(from surface) 36 m

Station ATC FXK01 UTC Time 17

In Air pressure (before/after) _____ / _____

Sound Speed _____

CTD File 2014-56-0173 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	WPC	Comments
246	10+	31.2	1					X	X							1				X	
247	20	20.2	2					X	X							2				X	
248	20	20.2	3					X	X							3				X	
249	20	20.0	4					X	X							4				X	
250	10	10.0	5					X	X							5				X	
251	5	5.0	6					X	X							6				X	
252	5	5.1	7													7				X	
			8													8					
			9													9					
			10													10					
			11													11					
			12													12					
			13													13					
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			19													19					
			20													20					
			21													21					
			22													22					
			23													23					
			24													24					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla max = 15m → 20m.
FW layer ~1m.
several steps down to 15m.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 166 UTC Date (ddmmmyyyy) 14/8/2014

Ice Coverage 0/10

Water Depth(from surface) 23 m

Station ES04 UTC Time _____

In Air pressure (before/after) _____/_____

Sound Speed _____

CTD File 2014-56-0166 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CARB	Comments
240	Bot	20.1	1		X			X	X							1				X	
241	10	10.1	2		X			X	X							2				X	
242	10	10.2	3													3				X	
243	10	9.5	4													4				X	
244	5	5.0	5		X			X	X							5				X	
245	5	5.2	6													6					
			7													7					
			8													8					
			9													9					
			10													10					
			11													11					
			12													12					
			13													13					
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			20													20					
			21													21					
			22													22					
			23													23					
			24													24					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

cha max 10 m ~1 ug/L

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 158 UTC Date (ddmmmyyyy) 14 8 2014

Ice Coverage 0/10

Water Depth(from surface) _____ m

Station ESC03 UTC Time _____

In Air pressure (before/after) _____

Sound Speed _____

CTD File 2014-56-0158 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CAR	Comments
236	Bot	18.0	1					X	X							1				X	
237	10	10.0	2					X	X							2				X	
238	10	10.1	3					X	X							3				X	
239	10	9.8	4					X	X							4				X	
	5	7	5					X	X							5					
	5	7	6					X	X							6					
			7													7					
			8													8					
			9													9					
			10													10					
			11													11					
			12													12					
			13													13					
			14													14					
			15													15					
			16													16					
			17													17					
			18													18					
			19													19					
			20													20					
			21													21					
			22													22					
			23													23					
			24													24					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla max m.

OAT-5C

56 no bottles did no trigger - extra salts on 5/13 & 4 to confirm depth.
no communication with pylon on recovery.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 149+150 UTC Date (ddmm/yyyy) 13 8 2014

Ice Coverage 0 /10

Water Depth(from surface) 350 m

Station NTC01 UTC Time _____

In Air pressure (before/after) _____ / _____

Sound Speed _____

CTD File 2014-56-0149 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch atot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
218	150T	348.2	1					X	X							1						
219	300	300.4	2					X	X							2						
220	200	200.2	3					X	X							3						
221	150	150.6	4					X	X							4						
222	33.1	132.1	5					X	X							5						
223	100	100.0	6					X	X							6				X		
224	50	50.0	7					X	X							7						
225	30	30.7	8					X	X							8						
226	60	60.0	9					X	X							9						
227	60	60.3	10					X	X							10						
228	60	60.3	11					X	X							11						
229	50	50.2	12					X	X							12						
230	40	40.3	13					X	X							13						
231	30	30.0	14					X	X							14						
232	20	20.1	15					X	X							15						
233	10	10.5	16					X	X							16						
234	5	5.1	17					X	X							17						
235	5	5.4	18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla max 50-80m. 74 ug/l.
 ~60m
 33.1 132m.
 10 min 190m.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 142 UTC Date (ddmmmyyyy) 12 8 2014

Ice Coverage 0 / 10

Water Depth(from surface) _____ m

Station BNR HC3 UTC Time _____

In Air pressure (before/after) _____

Sound Speed _____

CTD File 2014-56-0142 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
206	300	342.8	1		X	X			X							1						
207	200	201.2	2			X			X							2						
208	33.1	130.6	3			X			X							3						
209	100	100.5	4		X	X			X							4						
210	70	70.6	5			X			X							5						
211	60	60.0	6		X	X			X							6						
212	50	50.0	7			X			X							7						
213	40	40.0	8			X			X							8						
214	30	30.0	9		X	X			X							9						
215	20	20.0	10			X			X							10						
216	10	10.1	11		X	X			X							11						
217	5	4.6	12			X			X							12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						
			23													23						
			24													24						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

added dup
on DIC btl 1
added dup
on sal
btl 7.

chl a max
33.1
= 130m

50. second shiny $\sim 1.0 \mu\text{g/l}$
@ 70 $\sim 4 \mu\text{g/l}$
start scan 4705

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 128 & 129 UTC Date (ddmmmyyyy) 11 / 8 / 2014

Ice Coverage /10

Water Depth(from surface) 249 m

Station BVR 07 UTC Time _____

In Air pressure (before/after) -0.2849 Sound Speed _____

CTD File 2014-56- 0118 Lat (N) _____

Lon (W) _____ CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CAPOOL	Comments
170	200	203.8	1					X	X							1				X	128
171	150	150.2	2					X	X							2				X	
172	33.1	127.5	3					X	X							3				X	
173	100	100.3	4					X	X							4				X	
174	80	80.2	5					X	X							5				X	129
175	70	70.1	6					X	X							6				X	
176	70	70.1	7					X	X							7				X	
177	70	70.2	8					X	X							8				X	
178	60	60.4	9					X	X							9				X	129
179	50	50.2	10					X	X							10				X	
200	40	40.1	11					X	X							11				X	
201	30	30.0	12					X	X							12				X	
202	20	20.2	13					X	X							13				X	129
203	10	10.2	14					X	X							14				X	
204	5	4.8	15					X	X							15				X	
205	5	4.8	16					X	X							16				X	
			17													17					
			18													18					
			19													19					
			20													20					
			21													21					
			22													22					
			23													23					
			24													24					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla mat
33.1 = 127

50 - 80
70m.

> 4 ug/l!

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 118 UTC Date (ddmmmyyyy) 10 / 8 / 2014

Ice Coverage 10

Water Depth(from surface) 61 m

Station BNK06 UTC Time _____

In Air pressure (before/after) 2167

Sound Speed _____

CTD File 2014-56-0118 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CTD	Comments
181	50	50.0	1					X	X							1				X	
182	50	50.0	2					X	X							2				X	
183	50	50.0	3					X	X							3				X	
184	40	40.0	4					X	X							4				X	
185	30	30.2	5					X	X							5				X	
186	20	20.2	6					X	X							6				X	
187	10	10.2	7					X	X							7				X	
188	2	4.9	8					X	X							8				X	
189	5	4.9	9					X	X							9				X	
			10													10					
			11													11					
			12													12					
			13													13					
			14													14					
			15													15					
			16													16					
			17													17					
			18													18					
			19													19					
			20													20					
			21													21					
			22													22					
			23													23					
			24													24					

Bottle Integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla max = 50
CTD cast
to 56
1st bottle at 50m.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 110 E 111 UTC Date (ddmmmyyyy) 10 8 2014
 Station B/NK 05 UTC Time _____
 CTD File 2014-56- 0110 Lat (N) _____
-0110

Ice Coverage /10 Water Depth(from surface) 249 m
 In Air pressure (before/after) -0.2700 - 0.2310 Sound Speed _____
 Lon (W) _____ CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CARD	Comments
164	BOT	249.4	1					X	X							1					
165	260	260.2	2					X	X							2					
166	150	150.4	3					X	X							3					
167	33.1	127.0	4					X	X							4					
168	100	100.3	5					X	X							5					
169	80	80.1	6					X	X							6					
170	70	70.0	7					X	X							7					
171	60	60.2	8					X	X							8					
172	50	50.2	9					X	X							9					
173	50	50.2	10					X	X							10					
174	50	50.2	11					X	X							11					
175	40	40.2	12					X	X							12					
176	30	30.1	13					X	X							13					
177	20	20.2	14					X	X							14					
178	10	10.3	15					X	X							15					
179	5	5.1	16					X	X							16					
180	5	5.1	17					X	X							17					
			18													18					
			19													19					
			20													20					
			21													21					
			22													22					
			23													23					
			24													24					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla mat 37.5 + 60 = 60m

33.1 = 127m

*chla surface fresh layer < 28
 down to 8m.
 14m to 29.6*

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 102 E103 UTC Date (ddmm/yyyy) 7/8/2014

Ice Coverage < 1/10

Water Depth(from surface) 382 m

Station BKN04 UTC Time _____

In Air pressure (before/after) 1

Sound Speed _____

CTD File 2014-56-0102 Lat (N) 72 55
0103

Lon (W) 128 48.4

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CAP30Y	Comments
146	381	377.2	1					X	X							1					
147	300	300.3	2					X	X							2					
148	200	200.2	3					X	X							3					
149	150	150.3	4					X	X							4					
150	33.1	130.3	5					X	X							5					
151	100	100.2	6					X	X							6					
152	80	80.3	7					X	X							7					
153	70	70.1	8					X	X							8					
154	60	60.2	9					X	X							9					
155	50	50.1	10					X	X							10					
156	40	40.2	11					X	X							11					
157	30	30.3	12					X	X							12					
158	20	20.2	13					X	X							13					
159	10	10.3	14					X	X							14					
160	5	5.2	15					X	X							15					
161	5	5.2	16					X	X							16					
162	5	5.2	17					X	X							17					
163	5	5.2	18					X	X							18					
			19													19					
			20													20					
			21													21					
			22													22					
			23													23					
			24													24					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chl a max = 50
33.1 = 130m.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # *93 894* UTC Date (ddmmmyyyy) *9 | 8 | 2014*

Ice Coverage */10*

Water Depth(from surface) _____ m

Station *BVK03* UTC Time _____

In Air pressure (before/after) _____ / _____

Sound Speed _____

CTD File *2014-56-093* Lat (N) _____

Lon (W) _____

CTD Operator *MD*

Samp #	Target Property	Depth(m)	Niskin #	Bottle integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
130	350	361.5	1					X	X							1				73 no bottle
131	200	201	2					X	X							2				
132	33.1	128.5	3					X	X							3				
133	100	100.2	4					X	X							4				
			5													5				
134	100	80.0	6					X	X							6				74
135	20	69.9	7					X	X							7				
136	60	60.1	8					X	X							8				
137	60	60.1	9													9				
138	60	60.1	10													10				
139	60	56.7	11					X	X							11				74
140	40	40.2	12					X	X							12				
141	20	20.3	13					X	X							13				
142	20	20.2	14					X	X							14				
143	10	10.1	15					X	X							15				
144	5	5.1	16					X	X							16				74
145	5	5.1	17					X	X							17				
			18													18				
			19													19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla = 60m.

33.1 = 131m.

Bear str.

label File checked correct.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 85E86 UTC Date (ddmm/yyyy) 8 8 | 2014

Ice Coverage 10

Water Depth(from surface) 381.0 m

Station ENR 02 UTC Time _____

In Air pressure (before/after) -0.2386

Sound Speed _____

CTD File 2014-56-0085 Lat (N) _____

Lon (W) _____

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
112	350	395.7	1													1				
113	300	300.2	2													2				
114	200	200.9	3													3				
115	150	150.1	4													4				
116	33.1	129.1	5													5				
117	100	100.3	6													6				
118	80	80.2	7													7				
119	70	70.2	8													8				
120	60	60.1	9													9				
121	60	60.1	10													10				
122	60	60.1	11													11				
123	50	50.0	12					X	X							12				
124	40	40.0	13					X	X							13				
125	30	29.7	14					X	X							14				
126	20	20.1	15					X	X							15				
127	10	10.0	16					X	X							16				
128	5	5.0	17					X	X							17				
129	5	5.0	18					X	X							18				
			19													19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chl a max = 60
33.1 = 129

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 75 UTC Date (ddmm/yyyy) 8.8.2014

Ice Coverage 0 /10

Water Depth(from surface) 50 m

Station BNK01 UTC Time _____

In Air pressure (before/after) 119 / 10.3

Sound Speed _____

CTD File 2014-56-0075 Lat (N) 72 7.81

Lon (W) 127

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNARNA	DOC/DN	CA-220	Comments
103	50	49.0	1		X			X	X							1				X	chla max.
104	90	49.1	2													2				X	
105	30	49.1	3													3				X	
106	40	40.0	4		X			X	X							4				X	
107	30	30.1	5					X	X							5				X	
108	20	20.0	6		X			X	X							6				X	
109	10	10.0	7					X	X							7				X	
110	5	5.0	8		X			X	X							8				X	
111	5	5.0	9													9				X	
			10													10					
			11													11					
			12													12					
			13													13					
			14													14					
			15													15					
			16													16					
			17													17					
			18													18					
			19													19					
			20													20					
			21													21					
			22													22					
			23													23					
			24													24					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

label file confirmed correct

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # *2871* UTC Date (ddmmmyyyy) *15/08/2014*

Ice Coverage *<1* /10

Water Depth(from surface) *367* m

Station *KUGO4* UTC Time *0000*

In Air pressure (before/after) */*

Sound Speed */*

CTD File *2014-56-0070* Lat (N) *0071*

Lon (W) */*

CTD Operator *MD*

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
91	110	300	300.1	1					X							1				
92	111	300	300.1	2												2				
93	112	300	300.1	3												3				
94	113	300	300.1	4												4				
95	114	33.1	143.8	5					X							5				33.1 PSU
96	115	33.1	143.7	6												6				
97	116	33.1	143.8	7												7				
98	117	33.1	143.9	8												8				
99	118	50	50.4	9					X							9				chla max
100	119	50	50.5	10												10				
101	120	50	50.5	11												11				
102	121	50	50.5	12												12				
				13												13				
				14												14				
				15												15				
				16												16				
				17												17				
				18												18				
				19												19				
				20												20				
				21												21				
				22												22				
				23												23				
				24												24				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

33.1 = 143

chla max = 50-60 m.

label file confirmed correct.

*should be originally

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # *661* *SAS according to daily log* UTC Date (ddmm/yyyy) *06 08* 2014

Station *KUGOS* UTC Time *1316*

CTD File *2014-56-0061* Lat (N) _____

Ice Coverage *2-3* /10

Water Depth (from surface) *500* m

In Air pressure (before/after) *-0.3611, -0.3270*

Sound Speed _____

Lon (W) _____

CTD Operator *MD*

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch a Tot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	carboy	Comments
98	500	493.4	1		X				X							1				X	
99	300	300.3	2		X				X							2				X	
100	300	300.4	3													3				X	
101	200	200.2	4		X				X							4				X	
102	33.1	131.0	5		X				X							5				X	33.1 PSU
103	33.1	131.1	6													6				X	
104	30	79.9	7		X				X							7					
105	50	50.2	8		X				X							8				X	chla max
106	50	50.2	9													9				X	
107	30	30.0	10		X				X							10					
108	10	10.0	11		X				X							11					
109	5	4.9	12		X				X							12				X	
			13													13					
			14													14					
			15													15					
			16													16					
			17													17					
			18													18					
			19													19					
			20													20					
			21													21					
			22													22					
			23													23					
			24													24					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla max 60m. or 50m

33.1

140 130 on down cast seemed slightly deeper on way up.

10 min. 131-178 m.

AW ~ 260-400

Label file confirmed correct.

77 99 100 101 102 103 104 105 106 107 108 109

**should be originally*

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # UTC Date (ddmm/yyyy) | | 2014

Ice Coverage /10

Water Depth(from surface) m

Station KV606 UTC Time

In Air pressure (before/after) /

Sound Speed

CTD File 2014-56- Lat (N)

Lon (W)

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Car Boy	Comments
79	750		1					X	X							1				X	
80	500		2		X			X	X							2				X	
81	300		3					X	X							3					
82	200		4		X			X	X							4					
83	33.1		5		X			X	X							5				X	
84	12.5		6					X	X							6					
85	100		7		X			X	X							7				X	
86	80		8					X	X							8					
87	70		9		X			X	X							9				X	
88	60		10					X	X							10					
89	50		11		X			X	X							11				X	
90	50		12													12				X	
91	50		13													13				X	
92	40		14					X	X							14				X	
93	30		15		X			X	X							15				X	
94	20		16					X	X							16				X	
95	10		17		X				X							17				X	
96	5		18					X	X							18				X	
97	5		19													19				X	
			20													20					
			21													21					
			22													22					
			23													23					
			24													24					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Not done.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # *49 ESD 50 ES* UTC Date (ddmm/yyyy) *1* *1* *2014*

Ice Coverage *1/10*

Water Depth(from surface) *497 - 505* m

Station *KV605* UTC Time

In Air pressure (before/after) *-0.3759 -0.360*

Sound Speed

CTD File *2014-56-0050* Lat (N) *-0051*

Lon (W)

CTD Operator *MD*

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
61	500	500.1	1					X	X							1				
62	300	300.8	2					X	X							2				
63	200	199.8	3					X	X							3				
64	33.1	142.6	4					X	X							4				
65	125	125.1	5					X	X							5				
66	100	100.2	6					X	X							6				
67	80	80.2	7					X	X							7				
68	70	70.1	8					X	X							8				
69	60	60.2	9					X	X							9				
70	50	50.1	10					X	X							10				
71	50	50.1	11													11				
72	50	50.1	12													12				
73	40	40.0	13					X	X							13				
74	30	30.0	14					X	X							14				
75	20	20.0	15					X	X							15				
76	10	10.0	16					X	X							16				
77	5	4.90	17					X	X							17				
78	5	5.0	18													18				
			19													19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

chla = 50 m
33.1 = 142 m.

no salt on 8 collected.

label files confirmed correct.

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 40541 UTC Date (ddmm/yyyy) 11/10/2012

Ice Coverage <1 /10

Water Depth(from surface) _____ m

Station KV604 UTC Time _____

In Air pressure (before/after) 10.3008 Sound Speed _____

CTD File 201244 Lat (N) _____

Lon (W) -035 CTD Operator _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
43	350	340.0	1													1				AI SAQ
44	300	300.4	2													2				
45	200	201.2	3													3				cast 40
46	33.1	144.7	4													4				33.1 PSV
47	125	125.3	5													5				
48	100	100.3	6													6				
49	80	80.2	7													7				
50	70	70.2	8													8				
51	60	60.1	9													9				
52	50	50.2	10													10				chla max
53	50	50.2	11													11				cast 42
54	50	50.2	12													12				SAQ
55	40	40.2	13													13				
56	30	40	14													14				
57	20	30.2	15													15				
58	10	20.2	16													16				
59	5	10.1	17													17				
60	5	5.1	18													18				
			19													19				
			20													20				
			21													21				
			22													22				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Fired
2t @ 40m!

chla max ~ 50 m.

33.1 = 144

change Niskin
to 5 to 7 for B&S.

label csv file
confirmed correct.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 31533 UTC Date (ddmmmyyyy) 11/11/2012

Ice Coverage 10

Water Depth(from surface) 234 m

Station KUG03 UTC Time 11:00

In Air pressure (before/after) 70.40/70.40 Sound Speed 1476

CTD File 201244- Lat (N) 50.4633

Lon (W) 17.1 CTD Operator MD

2014-56-0032 & -0033 (-0031 was misspelled and renamed to -0032)

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
27	200	22.5	1	--				X	X							1				2nd east 33.1 chla max
28	150	14.7	2	--				X	X							2				
29	125	12.5	3	--				X	X							3				
30	100	10.2	4	--				X	X							4				
31	80	8.0	5	--				X	X							5				
32	70	7.0	6	--				X	X							6				
33	60	6.0	7	--				X	X							7				
34	50	5.0	8	--				X	X							8				
35	40	4.0	9	--				X	X							9				
36	40	4.0	10	--												10				
37	40	4.0	11	--												11				
38	30	3.0	12	--				X	X							12				
39	20	2.0	13	--				X	X							13				
40	10	1.0	14	--				X	X							14				
41	5	0.5	15	--				X	X							15				
42	5	0.5	16	--				X	X							16				
			17													17				
			18													18				
			19													19				
			20													20				
			21													21				
			22													22				

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

*chla max = 40
33.1 = 147.5*

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 24 UTC Date (ddmmmyyyy) 03/08/2012

Ice Coverage 0/10

Water Depth(from surface) _____ m

Station K0602 UTC Time _____

In Air pressure (before/after) -0.40/-0.37 Sound Speed _____

CTD File 201244-0024 Lat (N) _____

Lon (W) _____ CTD Operator _____

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
17	75	73.7	1	✓				✓	✓							1						
18	60	60.0	2	✓				✓	✓							2						
19	50	50.0	3	✓				✓	✓							3						
20	40	40.0	4	✓				✓	✓							4						chla max
21	40	40	5	✓												5						
22	40	40.0	6	✓												6						
23	30	29.8	7	✓				✓	✓							7						
24	20	20.3	8	✓				✓	✓							8						
25	10	9.7	9	✓				✓	✓							9						
26	5	5.0	10	✓				✓	✓							10						
			11													11						
			12													12						
			13													13						
			14													14						
			15													15						
			16													16						
			17													17						
			18													18						
			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

label file confirmed correct.

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 16 17 UTC Date (ddmm/yyyy) 03 08 2014

Ice Coverage 0/10

Water Depth(from surface) 32.2 m

Station AGK01 UTC Time 1320

In Air pressure (before/after) 10.460 Sound Speed

CTD File 201244-2014-56 Lat (N) 70 06.13

Lon (W) 133 50.36 CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN			Comments
11	20.3	20	1	✓				x	x							1				x		chla max
12	19.7	20	2	✓												2				x		
13	20.2	20	3	✓												3				x		
14	10.4	10	4	✓				x	x							4				x		
15	4.8	5	5	✓				x	x							5				x		
16	5.1	5	6	✓												6				x		
			7													7						
			8													8						
			9													9						
			10													10						
			11													11						
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			19													19						
			20													20						
			21													21						
			22													22						

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 8 UTC Date (ddmm/yyyy) 02 08 | 2014

Ice Coverage 0/10

Water Depth(from surface) 30.0 m

Station A642 UTC Time 1810

In Air pressure (before/after) 10.40

Sound Speed _____

CTD File 201444 Lat (N) 70 02 38

Lon (W) 133 32 22

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carbox	Comments
6	20.1	20	1	✓				X	X							1					
7	10.0	10	2	✓				X	X							2					
8	3.0	5	3	✓				X	X							3					chl a max
9	3.0	5	4	✓												4				X	
10	3.0	5	5	✓												5				X	
			6													6					
			7													7					
			8													8					
			9													9					
			10													10					
			11													11					
			12													12					
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			18													18					
			19													19					
			20													20					
			21													21					
			22													22					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

label file confirmed correct.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 1 UTC Date (ddmmmyyyy) 2 08 2012

Ice Coverage 0/10

Water Depth(from surface) 22.4 m

Station KUG01 UTC Time 1311

In Air pressure (before/after) 0.484 0.504

Sound Speed

CTD File 2014-56-0001 Lat (N) 70.0.75

Lon (W) 133 46.67

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch a Tot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	CARBON	Comments
1	20.7	20	1	✓				✓	✓							1					
2	10.2	10	2	✓				✓	✓							2					
3	5.2	5	3	✓				✓	✓							3					chla max.
4	5.2	5	4	✓				✓	✓							4					
5	5.2	5	5	✓				✓	✓							5					
			6													6					
			7													7					
			8													8					
			9													9					
			10													10					
			11													11					
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			20													20					
			21													21					
			22													22					

Bottle integrity: First test lower petcock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

label file confirmed correct.