

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 506/507 UTC Date (ddmmYYYY) 9.9.2014

Station DOL - 01 UTC Time 2043

CTD File 2014-56-506 Lat (N) 69 22.724

Water Depth (from surface) 145 m

Ice Coverage 0/10

In Air pressure (before/after) 1 Sound Speed 1470

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	Ch15u	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				

CALC MAY = 40

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 # 498/499 UTC Date (ddmm/yyyy) 9/9/2014

Station DOL-02 UTC Time 1808/1848

CTD File 2014-56-498 Lat (N) 69 25.938

Water Depth(from surface) 270 m

Sound Speed

CTD Operator JMB/H.A.

In Air pressure (before/after) /

Lon (W) 118 41.371

118 41.494

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 #	FaAlcid	DNA/RNA	DOC/DN	Comments
691	B-10	260	1						✓							1				
692		200	2					✓	✓							2				
693		150	3					✓	✓							3				33.1 SAL = 155
694		125	4					✓	✓							4				
695		100	5					✓	✓							5				
696		80	6					✓	✓							6				
697		70	1					✓	✓							7				
698		60	2					✓	✓							8				
699		50	3					✓	✓							9				
700		50	4					✓	✓							10				CHL MAY = 50
701		50	5					✓	✓							11				
702		40	6					✓	✓							12				
703		30	7					✓	✓							13				
704		20	8					✓	✓							14				
705		10	9					✓	✓							15				
706		5	10					✓	✓							16				
707		5	11					✓	✓							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 #

490/491

UTC Date (ddmm/yyyy)

08/09/09

2014

Station

DOL-03

UTC Time

2358

CTD File

2014-56-490

Lat (N)

69 32.160

UTC Time

2358

In Air pressure (before/after)

110 13.198

Ice Coverage

0/10

Water Depth (from surface)

439 m

Sound Speed

CTD Operator JWH

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch a Tot	Chia Su	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments	
673	B-10	430	1					✓	✓							1				1 st CAST	
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	8					✓	✓							8					
681		60	9					✓								9				2 nd CAST CHL MAY = 46	
682		46	10					✓									10				
683		46	11														11				
684		46	12														12				
685		40	13					✓								13				NO SALTS (LOW ON SAMPLE BOTTLES)	
686		30	14					✓									14				
687		20	15					✓									15				
688		10	16					✓									16				
689		5	17					✓								17					
690		5	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 # 482/483 UTC Date (ddmmmyy) 09/11/2014

Station DOL-04 UTC Time 1712/1759

CTD File 2014-56-482 Lat (N) 69 38.357

Water Depth(from surface) 373 m

Sound Speed

CTD Operator JMD H.M

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch a Tot	Chia5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FaIaAcid	DNA/RNA	DOC/DN	Comments
654	B-10	365	1					✓	✓							1				
655		300	2					✓	✓							2				33.1 SAL =
656		200	3					✓	✓							3				
657		150	4					✓	✓							4				CAL MAX =
658		125	5					✓	✓							5				
659		100	6					✓	✓							6				
660		91	7					✓	✓							7				
661		80	8					✓	✓							8				
662		73	9					✓	✓							9				
663		73	10					✓	✓							10				
664		73	11					✓	✓							11				NO SALTS ON SHALLOW CAST
665		60	12					✓	✓							12				(RUNNING OUT OF BOTTLES)
666		56	13					✓	✓							13				
667		40	14					✓	✓							14				
668		30	15					✓	✓							15				
669		20	16					✓	✓							16				
670		10	17					✓	✓							17				
671		5	18					✓	✓							18				
672		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 # 475/476 UTC Date (ddmm/yyyy) 09/13/2014

Station DOL-05 UTC Time 1311/1336

CTD File 2014-56-475 Lat (N) 69 44 . 088

476 Lon (W) 117 23 . 136

Water Depth(from surface) 132 m

Ice Coverage 0/10

In Air pressure (before/after) /

Sound Speed

CTD Operator MDH

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch atot	Chiasu	POC/PON	Taxo	Bact	DAPI	Niskin #	FalAcid	DNA/RNA	DOC/DN	Comments
640	B-10	125	1					✓	✓							1				BOT 3 LEAKED ON 1ST CAST
641		100	2					✓	✓							2				
642		80	3					✓	✓							3				
643		70	4					✓	✓							4				RC DO 80 m BOT OM 2ND CAST
644		60	5					✓	✓							5				
645		50	6					✓	✓							6				
646		40	7					✓	✓							7				
647		30	8					✓	✓							8				CLD1 MAX = 30 m
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 (ddmmYYYY) 7 19 2014

Water Depth(from surface) 397 m

Station ARM-02 UTC Time 2136

In Air pressure (before/after) / Sound Speed

CTD File 2014-56-469 Lat (N) 70 13.140

Lon (W) 119 28.235 CTD Operator MB 14.7

470 70 13-120

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 #	FalAcid	DNA/RNA	DOC/DN	Comments
621	B-10	390	1						✓							1		✓		
622		300	2					✓	✓							2		✓		
623		200	3					✓	✓							3		✓		
624		150	4					✓	✓							4		✓		
625		125	5					✓	✓							5		✓		
626		106	6					✓	✓							6		✓		
627		80	7					✓	✓							7		✓		
628		70	8					✓	✓							8		✓		
629		60	9					✓	✓							9		✓		
630		45	10					✓	✓							10		✓		
631		45	11													11				
632		45	12													12				
633		45	13													13				
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				

33.1 SAL = 106

CHL MAX = 45 m

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: *FN Frosti*

Cast # 459/466 UTC Date (ddmm/yyyy) 7 1 9 2014

Water Depth(from surface) 255 m

Station NMI-01 UTC Time 1304

Sound Speed _____

CTD File 2014-56-459 Lat (N) 70 50.326

CTD Operator MS H.M.

Lon (W) 119 46.981

In Air pressure (before/after) 119 46 376

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 #	FalAcid	DNA/RNA	DOC/DN	Comments
604	B-16	245	1					✓	✓							1				
605		200	2					✓	✓							2				
606		150	3					✓	✓							3				
607		115	4					✓	✓							4				
608		100	5					✓	✓							5				
609		80	6					✓	✓							6				
610		70	11					✓	✓							7				
611		60	21					✓	✓							8				
612		45	31					✓	✓							9				
613		45	41					✓	✓							10				
614		45	51					✓	✓							11				
615		40	61					✓	✓							12				
616		30	71					✓	✓							13				
617		20	81					✓	✓							14				
618		10	91					✓	✓							15				
619		5	101					✓	✓							16				
620		5	117													17				
			18													18				
			19													19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

CIL MAX = 45

SAL 33.1 = 115

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 # 450 UTC Date (ddmmYYYY) 519 2014

Station PWS -01 UTC Time 1965

CTD File 2014-56-450 Lat (N) 72 06.540

Water Depth(from surface) 105 m

Ice Coverage 1 /10

In Air pressure (before/after) 1 /

Sound Speed 147

CTD Operator MDK

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				
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:

CHL MAX = 48 m

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 442 UTC Date (ddmm/yyyy) 5-19-2014

Water Depth(from surface) _____ m

Station ALX-03 UTC Time 1250

In Air pressure (before/after) _____ / _____

CTD File 2014-56-442 Lat (N) 71 40.987

Lon (W) 119 17.066

Sound Speed _____

CTD Operator MS 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
504	B-5	40	1					✓	✓							1				
505		40	2													2				
506		40	3													3				
507		40	4					✓	✓							4				
508		40	5					✓	✓							5				
509		40	6					✓	✓							6				
510		40	7					✓	✓							7				
511		40	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 (ddmm/yyyy) 4 09 2014

Water Depth (from surface) 140 m

Station ALX-02

UTC Time 2027

In Air pressure (before/after) /

Sound Speed

CTD File 2014-56-432

Lat (N) 71 39.635

Lon (W) 119 45 976

CTD Operator MS H.M.

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

424

UTC Date (ddmmYYYY)

4 09 2014

Station

ALT-01

UTC Time

424

Lat (N)

424

Lon (W)

Water Depth(from surface) *76* m

Sound Speed

CTD Operator *MS 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 #	FalAcid	DNA/RNA	DOC/DN	Comments
558	B-5	76	1						✓							1				
559		60	2					✓	✓							2				
560		52	3					✓	✓							3				
561		52	4													4				<i>CHL MAY 52</i>
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

Water Depth (from surface) 43 m

Ice Coverage 0 /10

Cast # 409 UTC Date (ddmm/yyyy) 19 / 11 / 2014

In Air pressure (before/after) 1 / 1 Sound Speed 1470

Station WLK-03 UTC Time 2307

CTD File 2014-56-409 Lat (N) 71 35.833 Lon (W) 118 00.363 CTD Operator MB H.A.

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 #	FalAcid	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				
			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 # 402 UTC Date (ddmmYYYY) 1 09 2014

Station WLK-02 UTC Time 1056

CTD File 2014-56-402 Lat (N) 71 32.835

Water Depth(from surface) 53 m

Ice Coverage 0/10

In Air pressure (before/after) /

Lon (W) 116 15.937

Sound Speed

CTD Operator MB 4.7

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 #	FalAcid	DNA/RNA	DOC/DN	Comments
535		150	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				
			14													14				
			15													15				
			16													16				
			17													17				
			18													18				
			19													19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

CHL MAX = 50m

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 # 393 UTC Date (ddmm/yyyy) 11 09 2014

Station WLK-01 UTC Time 1301

CTD File 2014-56-393 Lat (N) 71 28.789

Water Depth(from surface) 100 m

Ice Coverage 0/10

In Air pressure (before/after) / /

Sound Speed

CTD Operator MDH

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch atol	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FalAcid	DNA/RNA	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		20	9				✓	✓								9				
532		10	10				✓	✓								10				
533		5	11				✓	✓								11				
534		2	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 (ddmm/yyyy) 30 08 2014

Station MNT-05 UTC Time 1611

CTD File 2014-56-374 Lat (N) 71 26.236

Water Depth(from surface) 139 m

Ice Coverage 0/10

In Air pressure (before/after) / / /

Sound Speed /

CTD Operator MOH

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 #	FalAcid	DNA/RNA	DOC/DN	Comments
508	B-5	130	1				✓	✓								1				1st CAST 33.1 SAL = 120
509		120	2				✓	✓								2				
510		100	3				✓	✓								3				
511		80	4				✓	✓								4				
512		70	11				✓	✓								5				CHL MAX = 48
513		60	21				✓	✓								6				
514		48	31				✓	✓								7				
515		48	41				✓	✓								8				
516		40	51				✓	✓								9				2nd CAST
517		40	61				✓	✓								10				
518		30	71				✓	✓								11				
519		20	81				✓	✓								12				
520		10	91				✓	✓								13				
521		5	101				✓	✓								14				
522		5	111				✓	✓								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 (ddmmYYYY) 29 03 2014

Station MNT-04 UTC Time 2203

CTD File 2014-56-366 Lat (N) 71 23.664

Ice Coverage 0 /10

In Air pressure (before/after) 1 / 1

Lon (W) 117 11.736

Sound Speed 1473

CTD Operator MOH

Water Depth(from surface) 78 m

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chia5u	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 # 353/359 UTC Date (ddmmYYYY) 29.09.2014

Station MN7-03 UTC Time

CTD File 2014-56-356 Lat (N) 71 19.544

Water Depth(from surface) 45 m

Sound Speed

CTD Operator MD H.M.

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	OT8	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FalAcid	DNA/RNA	DOC/DN	Comments
482	140	8-10	1					✓	✓							1				
483		120	2					✓	✓							2				1st CAST 33.1 SAL = 120
484		100	3					✓	✓							3				
485		80	4					✓	✓							4				
486		70	5					✓	✓							5				
487		60	6					✓	✓							6				
488		50	7					✓	✓							7				CHL MAX = 43
489		43	8					✓	✓							8				
490		43	9					✓	✓							9				
491		43	10					✓	✓							10				2ND CAST
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:

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 349/350

UTC Date (ddmmYYYY) 29 08 2014

Station MNT-02

UTC Time 0021

CTD File 2014-56-349

Lat (N) 71 15.444

CTD File 2014-56-350

Lat (N) 71 15.437

Z = 275

Z2 = 70

Water Depth (from surface) 283 / 280 m

Sound Speed

CTD Operator MBH

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
465	275	6-10	1					✓	✓							1				
466		200	2					✓	✓							2				
467		150	3					✓	✓							3				
468		112	4					✓	✓							4				
469		100	5					✓	✓							5				
470		80	6					✓	✓							6				
471		70	7					✓	✓							7				
472		60	8					✓	✓							8				
473		47	9					✓	✓							9				
474		47	10					✓	✓							10				
475		47	11					✓	✓							11				
476		40	12					✓	✓							12				
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:

1st CAST 33.1 SAL = 112

CHL MAX = 47

2nd CAST

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 340/341 UTC Date (ddmm/yyyy) 28.08.2014

Station MNT-1 UTC Time 1648

CTD File 2014-56-340 Lat (N) 71 13.766

Water Depth(from surface) 215 m

Ice Coverage 0/10 Sound Speed _____

In Air pressure (before/after) _____ / _____ CTD Operator MB H.D.

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
449	204	8-10	1						✓							1				<i>z = 205</i>
450		150	2					✓	✓							2				
451		121	3					✓	✓							3		<i>CAST 1</i>		<i>33.1 SAL = 121</i>
452		100	4					✓	✓							4				
453		60	5					✓	✓							5				
454		70	11					✓	✓							6				
455		60	21					✓	✓							7				
456		47	31					✓	✓							8				
457		47	31					✓	✓							9				<i>CAST #2</i>
458		47	51					✓	✓							10				
459		40	61					✓	✓							11				<i>CHL MAX = 47</i>
460		30	71					✓	✓							12				
461		20	81					✓	✓							13				
462		10	91					✓	✓							14				
463		5	101					✓	✓							15				
464		5	111					✓	✓							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 # 322/323 UTC Date (ddmmmyyy) 26 1 08 2014

Station CAP-03 UTC Time 1954 / 2032

CTD File 2014-56-322 Lat (N) 70 26.788

Ice Coverage 0/10

In Air pressure (before/after) / /

Lon (W) 124 31.259

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

Sound Speed

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
434		205	1													1				
435	33.1	150	2													2				
436		111	3													3				
437		100	4													4				
438		82	5													5				
439		70	16													16				
440		55	21													21				
441		55	31													31				
442		55	41													41				
443		40	51													51				
444		30	61													61				
445		20	71													71				
446		10	81													81				
447		5	91													91				
448		5	101													101				
			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 33.1 = 111

CAST 2 CHL MAX 40 + 55 DOUBLE

MAJOR

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 315 UTC Date (ddmmmyy) 26.10.2014

Water Depth(from surface) 88 m

Station CPY-02 UTC Time 1425

In Air pressure (before/after) 1 / 1

Sound Speed 14.7

CTD File 2014-56-315 Lat (N) 70 15.667

Lon (W) 124 30.457 CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch at Tot	Chl a	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
422	80	85	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 (ddmm/yyyy) 25/08/2014Station CPY-01 UTC Time 2149CTD File 2014-56-308 Lat (N) 70 13 55.2Water Depth(from surface) 44 mIce Coverage 10In Air pressure (before/after) 1 / 1Sound Speed 1475CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch at Tot	Chl a	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
414	40m	35	1													1				
415		30	2													2				
416		30	3													3				
417		30	4													4				
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

2014-56-301

Lat (N)

70 10 41

In Air pressure (before/after)

/

Ice Coverage

0/10

Water Depth (from surface)

44 m

Sound Speed

CTD Operator

MB/HV

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch atot	Chl a	POC/PON	Taxo	Bact	DAPI	Niskin #	Fat/Acid	DNA/RNA	DOC/DN	Comments
406		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				
413		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 # 294

UTC Date (ddmmmyyyy) 25 08 2014

Station WIS-01

UTC Time

CTD File 2014-56-294

Lat (N)

70 06 270

Ice Coverage 10

Water Depth(from surface) 49 m

In Air pressure (before/after) /

Sound Speed

Lon (W) 125 03 728

CTD Operator MO 14.17

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chl a5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
397	45	8.5	1													1				
398		40	2													2				
399		30	3													3				
400		24	4													4				
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				

CHL MAX = 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 (ddmmmyyy) 23 08 | 2014

Station BPT_01 UTC Time 20 15

CTD File 2014-56- 276 Lat (N) 69 42.223

Water Depth(from surface) 41 m

Ice Coverage 10 / In Air pressure (before/after) 1 /

Sound Speed 1533 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	Chl a Tot	Chl a Flu	POC/PON	Taxo	Bed	DAPI	Niskin #	FaIaCid	DNA/RNA	DOC/DN	Comments
389	35	8-5	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				
			16													16				
			17													17				
			18													18				
			19													19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

CHL MAX = 28n

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 # 270 UTC Date (ddmmmyyy) 23 08 2014

Station BPT-02 UTC Time 1635

CTD File 2014-56-270 Lat (N) 69 41 98

Ice Coverage 10 Water Depth (from surface) m

In Air pressure (before/after) / Sound Speed

Lon (W) 123 47 243 CTD Operator MB HM

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chl a	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
378		5-5	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 MAX = 29m

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 262 & 263 UTC Date (ddmm/yyyy) 22 08 2014

Station BPT-3 UTC Time 2236

CTD File 2014-56-262 Lat (N) 69 42.001

Water Depth(from surface) 121 m

In Air pressure (before/after) / Sound Speed

Lon (W) 123 26.79 CTD Operator MCHM

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
363		8-5	1																	119
364		100	2																	
365	33.1	95	3																	33.1 @ 95m
366		90	4																	
367		70	1																	
368		60	2																	
369		50	3																	
370		43	4																	
371		43	5																	
372		30	6																	CHL MAX = 43
373		20	7																	
374		20	8																	
375		10	9																	
376		5	10																	
377		5	11																	
			16																	
			17																	
			18																	
			19																	
			20																	
			21																	
			22																	
			23																	
			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 #

UTC Date (ddmmmyyyy) 22/06/2014

Water Depth(from surface) 73 m

Station

BPT-4

Ice Coverage 10

Sound Speed

In Air pressure (before/after) 1

CTD File

2014-56-255

Lat (N) 69 41.990

Lon (W) 123 14.503

CTD Operator 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
352		30.5	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 #

UTC Date (ddmm/yyyy) *22/08/2014*

Station

UTC Time *1439*

CTD File

Lat (N) *69 47 00 S*

In Air pressure (before/after) */*

Lon (W) *123 11 622*

Ice Coverage *10*

Water Depth (from surface) *36.5* m

Sound Speed

CTD Operator *W. H. M.*

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

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

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast #

196 E 197

UTC Date (ddmm/yyyy)

18 E 2014

Station

FRK04

UTC Time

CTD File

2014-56-

Lat (N)

Lon (W)

In Air pressure (before/after)

0 / *10*

Water Depth (from surface)

202 m

Sound Speed

CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	ChiaSu	POC/PON	Taxo	Bact	DAPI	Niskin #	FaIaAcid	DNA/RNA	DOC/DN		Comments
278	30.7	19.7	1					X	X							1			X	196	CARBO Y
279	30.7	15.6	2					X	X							2					
280	33.1	10.6	3					X	X							3			X		
281	30.7	8.4	4					X	X							4					
282	30.7	7.2	5					X	X							5			X	197	
283	30.7	7.2	6					X	X							6			X		
284	30.7	7.2	7					X	X							7			X		
285	30.7	6.2	8					X	X							8					
286	30.7	5.5	9					X	X							9			X		
287	40	40.0	10					X	X							10			X		
288	30	30.2	11					X	X							11			X		
289	20	20.0	12					X	X							12			X		
290	10	10.2	13					X	X							13			X		
291	5	4.7	14					X	X							14			X		
292	5	5.1	15					X	X							15			X		
			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:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # *187 E 183*

UTC Date (ddmmYYYY) *17 8* 2014

Station *F-RK03*

UTC Time

CTD File *2014-56-*

Lat (N)

Lon (W)

In Air pressure (before/after) *1* / *1*

Sound Speed

CTD Operator *MD*

Water Depth(from surface) *128* m

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 #	FaIaAcid	DNA/RNA	DOC/DN	Comments
264	130T	122.6	1					X	X							1				
265	100	99.7	2					X	X							2				
266	80	81.2	31					X	X							3				
267	70	70.0	42					X	X							4				
268	70	65.4	53					X	X							5				
269	70	70.0	64					X	X							6				
270	60	60.0	75					X	X							7				
271	50	50.0	86					X	X							8				
272	40	40.3	97					X	X							9				
273	30	30.0	108					X	X							10				
274	20	20.1	119					X	X							11				
275	10	10.0	120					X	X							12				
276	5	5.0	131					X	X							13				
277	5	5.2	141					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:

*100 ≈ 33.1
chl_a mut = 70 m.*

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 180 UTC Date (ddmm/yyyy) 17 | 8 | 2014

Ice Coverage 10% Water Depth (from surface) 79 m

Station FRK02 UTC Time

In Air pressure (before/after) 0.311 / 0.269 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	Chl a	POC/PON	Taxo	Bact	DAPI	Niskin #	Fat Acid	DNA/RNA	DOC/DN	Comments
253	1305	74.1	1					X	X							1				
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	19	10.0	9					X	X							9				
262	5		10					X	X							10				
263	5		11					X	X							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 a 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 (ddmmYYYY)

16/18

2014

Station

ATC FK01

UTC Time

17

CTD File

2014-56-0173

Lat (N)

Lon (W)

Ice Coverage

0/10

Water Depth (from surface)

36 m

In Air pressure (before/after)

-0.3090

Sound Speed

CTD Operator MD

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
246	150+	31.2	1					X	X							1				
247	20	20.2	2					X	X							2				
248	40	20.2	3					X	X							3				
249	20	20.0	4													4				
250	10	10.0	5													5				
251	5	5.0	6					X	X							6				
252	5	5.1	7													7				
253	5	5.1	8													8				
254	5	5.1	9					X	X							9				
255	5	5.1	10					X	X							10				
256	5	5.1	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 met = 15 m -> 20 m.
FW layer ~ 1 m.
several steps down to 15 m.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast #

166

UTC Date (ddmmmyyy)

14 8 2014

Station

E5C04

UTC Time

Lat (N)

0166

CTD File

In Air pressure (before/after) /

Lon (W)

CTD Operator MD

Water Depth(from surface) *23* m

Sound Speed

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 #	FaIAcid	DNA/RNA	DOC/DN	Comments
240	Bot	20.1	1													1				
241	10	10.1	2													2				
242	10	10.2	3													3				
243	10	9.5	4													4				
244	5	5.0	5													5				
245	5	5.2	6													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:

chu mat 10m ~1mg/L

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast #

158

UTC Date (ddmmmyyy)

14 8 2014

Station

ESC03

UTC Time

CTD File 2014-56-0158

Lat (N)

Lon (W)

Water Depth(from surface) _____ m

Ice Coverage *0* /10

In Air pressure (before/after) _____ / _____

Sound Speed _____

CTD Operator MD _____

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

CAT-5C

chla max m.

586 bottles did no trigger - on B13 & 4 extra salts 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

Station 149 + 150 UTC Time _____

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

In Air pressure (before/after) _____ / _____

Lon (W) _____

Water Depth (from surface) 350 m

Sound Speed _____

CTD Operator MD _____

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Chl a Tot	Chl a	POC/PON	Taxo	Bad	DAPI	Niskin #	FalAcid	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	750	150.6	4					X	X							4				
222	331	132.1	5					X	X							5				
223	100	100.0	6					X	X							6			X	
224	80	81.0	7					X	X							7				
225	30	70.7	8					X	X							8				
226	160	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					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.

ox 50-80m. 74 mg/l.
~60m
132m.
190m.

Rosette Log for IOS Cruise ID 2014-56

Ship: *FN Frosti*

Cast # *2045206* UTC Date (ddmm/yyyy) *18_18_2014*

Water Depth(from surface) *227* m

Station *FRK05* 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	ChiaSu	POC/PON	Taxo	Bact	Niskin #	FaAlAcid	DNA/RNA	DOC/DN	Comments
293	130T	222.3	1					X	X						1			X	
294	150	151	2					X	X						2				
295	133.1	118.1	3					X	X						3			X	
296	160	100.4	4					X	X						4			X	
297	180	100.1	5					X	X						5			X	
298	20	70.0	6					X	X						6			X	
299	20	70.2	7					X	X						7			X	
300	20	70.3	8					X	X						8			X	
301	20	60.2	9					X	X						9				
302	20	50.2	10					X	X						10			X	
303	20	40.3	11					X	X						11			X	
304	20	27.8	12					X	X						12			X	
305	20	20.3	13					X	X						13			X	
306	10	10.0	14					X	X						14			X	
307	5	5.2	15					X	X						15			X	
308	5	5.1	16					X	X						16			X	
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 truss fluorocable for 206
minor chlamet. ~70m. (another peak 65m.)

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast #

234

UTC Date (ddmm/yyyy)

29 08 2014

Station

BOW 2

UTC Time

Water Depth (from surface)

43 m

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 a Tot	Chl a	POC/PON	Taxo	Bact	DAPI	Niskin #	Fat Acid	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	5	5.0	6					X	X							6				
344	5	5.0	7					X	X							7				
			8					X	X							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:

5

229

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast #

247

UTC Date (ddmm/yyyy)

17 8 2014

Station

370

UTC Time

17 8 2014

CTD File

2014-56-0247

Lat (N)

17 8 2014

Lon (W)

17 8 2014

In Air pressure (before/after)

Ice Coverage

0

Water Depth (from surface)

43

m

Sound Speed

CTD Operator MD

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Chl a tot	Chl a su	POC/PON	Taxo	Bact	DAPI	Niskin #	Fa/Acid	DNA/RNA	DOC/DN	Comments
330	130.5	38.5	1					X	X							1			X	
331	30	30.1	2					X	X							2			X	
332	20	20.1	3					X	X							3			X	
333	20	20.1	4					X	X							4			X	
334	20	20.1	5					X	X							5			X	
335	10	10.1	6					X	X							6			X	
336	5	5.1	7					X	X							7			X	
337	5	5.1	8					X	X							8			X	
			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:

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

222

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 340 UTC Date (ddmmYYYY) 17.8.2014

Station FRK07 UTC Time _____

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

Water Depth(from surface) 42 m

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

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	PSF	37.4	1													1				
324	30	30.3	2													2				
325	20	10.0	3													3				
326	10	12.2	4													4				
327	5	4.0	5													5				
328	3	4.3	6													6				
329	5	4.9	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:

212 213
280 + 241

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 280 + 241 UTC Date (ddmm/yyyy) 17 8 2014

Station FRK06

UTC Time

In Air pressure (before/after) -0.322

Ice Coverage 0/10

Water Depth (from surface) 126 m

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	Chl5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FalAcid	DNA/RNA	DOC/DN	Comments
309	125	118.8	1					X	X							1				2230
310	100	101.3	2					X	X							2				
311	53.1	76.1	3					X	X							3				
312	70	70.2	4					X	X							4				
313	60	59.8	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:

m
200-240
conf ed on 2/1

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast #

142

UTC Date (ddmmYYYY)

12/8/2014

Station

BNR HC3

UTC Time

CTD File

2014-56-0142

Lat (N)

0142

Lon (W)

010

In Air pressure (before/after)

0/10

Sound Speed

1500

CTD Operator

MD

Water Depth(from surface)

10

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Chl a tot	Chl a	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
206	1307	372.8	1		X	X			X							1				
207	200	201.2	2		X	X			X							2				
208	33.1	130.6	3		X	X			X							3				
209	100	100.5	4		X	X			X							4				
210	70	70.6	5		X	X			X							5				
211	60	60.0	6		X	X			X							6				
212	50	50.0	7		X	X			X							7				
213	40	40.0	8		X	X			X							8				
214	30	30.0	9		X	X			X							9				
215	20	20.0	10		X	X			X							10				
216	10	10.1	11		X	X			X							11				
217	5	4.6	12		X	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 percock then test top valve. 0 means pass, 1 means fail. If niskin fails, explain this in the comments column.

Comments:

added dup 1 / chl a met 50. ~ 1.0 µg/l @ 70 ~ 4 µg/l
 on DIC 641 ± second shiny peak
 105 l up 33.1 = 130m

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # *1288129* UTC Date (ddmmYYYY) *11/18/2014*

Station *3NR07* UTC Time _____

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

Water Depth (from surface) *249* m

Ice Coverage *10*

In Air pressure (before/after) *-0.2845* 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 atol	Chiasu	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
170	200	203.8	1					X	X							1			X	128
171	150	150.2	2					X	X							2			X	
172	33.1	127.1	3					X	X							3			X	
173	100	100.3	4					X	X							4			X	
174	80	80.2	5					X	X							5			X	
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	60.0	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	
203	10	19.2	14					X	X							14			X	
204	5	4.8	15					X	X							15			X	
205	5	4.8	16					X	X							16			X	
206			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 µg/l

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast #

118

UTC Date (ddmmYYYY)

10 08 2014

Station

BVK06

UTC Time

CTD File

2014-56-0118

Lat (N)

0118

Lon (W)

0247

In Air pressure (before/after)

10

Ice Coverage

61

Water Depth(from surface)

61

Sound Speed

CTD Operator

MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch at Tot	Chla5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
181	50	30.0	1													1				
182	50	30.0	2													2				
183	50	30.0	3													3				
184	40	30.0	4													4				
185	30	30.2	5													5				
186	20	30.2	6													6				
187	10	30.2	7													7				
188	7	30.2	8													8				
189	3	30.2	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 # *110811* UTC Date (ddmmYYYY) *10/8/2014*

Station *BN105* UTC Time _____

CTD File *2014-56-* Lat (N) _____ Lon (W) _____

Ice Coverage *10* Water Depth(from surface) *249* m

In Air pressure (before/after) *-0.2700-0.2310* Sound Speed _____

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 #	FalAcid	DNA/RNA	DOC/DN	Comments
164	Bot	249.4	1					X	X							1				
165	260	200.2	2					X	X							2				
166	150.4	150.4	3					X	X							3				
167	121.0	121.0	4					X	X							4				
168	100	100.3	5					X	X							5				
169	80	80.4	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	40	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:

33

low n to 8 m
+ 20.6

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 1028103 UTC Date (ddmm/yyyy) 9/8/2014

Station BKN04 UTC Time 7255

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

Water Depth(from surface) 382 m

Ice Coverage <1 / 10

In Air pressure (before/after) 128 / 48.4

Sound Speed 128 CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch atot	Chl a	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
146	33.1	311.2	1					X	X							1				
147	200	300.3	2					X	X							2				
148	200	200.2	3					X	X							3				
149	200	150.3	4					X	X							4				
150	33.1	150.3	5					X	X							5				
151	100	100.2	6					X	X							6				
152	80	80.3	7					X	X							7				
153	20	20.1	8					X	X							8				
154	60	60.2	9					X	X							9				
155	70	50.1	10					X	X							10				
156	70	50.1	11					X	X							11				
157	50	50.2	12					X	X							12				
158	40	40.2	13					X	X							13				
159	20	30.2	14					X	X							14				
160	20	18.7	15					X	X							15				
161	10	10.0	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 mat = 50
33.1 = 130m

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast #

93894

UTC Date (ddmm/yyyy)

7.8.2014

Station

BK03

UTC Time

Ice Coverage

/10

Water Depth (from surface)

_____ m

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 a Tot	Chl a	POC/PON	Taxo	Bact	DAPI	Niskin #	FalAcid	DNA/RNA	DOC/DN	Comments
130	350	361.5	1						X							1				
131	200	201	2						X							2				
132	350	128.5	3						X							3				
133	100	100.2	4						X							4				
134	180	80.0	6						X							6				
135	70	69.9	7						X							7				
136	60	60.1	8						X							8				
137	60	60.1	9						X							9				
138	60	60.1	10						X							10				
139	50	50.7	11						X							11				
140	40	40.2	12						X							12				
141	20	20.3	13						X							13				
142	20	20.2	14						X							14				
143	10	10.1	15						X							15				
144	5	5.1	16						X							16				
145	5	5.1	17						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:

Bear sta.

label File checked correct.

= 60m.

= 131m.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # *85686*

UTC Date (ddmmmyyy) *12014*

Station *BNK02*

UTC Time

CTD File *2014-56-008*

Lat (N) *86*

Lon (W)

Ice Coverage *10*

In Air pressure (before/after) *-0.236*

CTD Operator *MD*

Water Depth (from surface) *391.0* m

Sound Speed

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
112	350	345.7	1						X							1				
113	3	300.2	2					X	X							2				
114	70	200.9	3					X	X							3				
115	150	150.1	4					X	X							4				
116	33.1	129.1	5					X	X							5				
117		100.3	6					X	X							6				
118	8	80.1	7					X	X							7				
119		70.2	8					X	X							8				
120		60.1	9					X	X							9				
121	60	60.1	10					X	X							10				
122	60	60.1	11					X	X							11				
123	50	50.0	12					X	X							12				
124	0	40.0	13					X	X							13				
125	30	29.7	14					X	X							14				
126	30	20.1	15					X	X							15				
127	1	10.0	16					X	X							16				
128	5	5.0	17					X	X							17				
129			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:

chla mat = 60

33.1 = 129

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 75 UTC Date (ddmmmyyy) 08 | 2014
 Station BVK01 UTC Time _____
 CTD File 2014-56- Lat (N) 72 7.81

Ice Coverage 0/10 Water Depth (from surface) 50 m
 In Air pressure (before/after) -3119 -0.3988
 Sound Speed _____ 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 #	FalAcid	DNA/RNA	DOC/DN	Comments
103	50	45.0	1		X			X	X							1				chla max.
104	90	45.1	2					X								2				
105	30	45.1	3					X								3				
106	30	45.1	4					X								4				
107	30	30.1	5					X								5				
108	30	20.0	6		X			X								6				
109	12	10.0	7					X								7				
110	5	5.0	8		X			X								8				
111	5	5.0	9					X								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.

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # *700*
 Station *RJ604c*
 CTD File *2014-56-0070*

UTC Date (ddmm/yyyy) *1/10/2014*
 UTC Time _____
 Lat (N) _____
 Lon (W) _____
 Ice Coverage *10*
 In Air pressure (before/after) _____
 Sound Speed _____
 Water Depth (from surface) *367* m
 CTD Operator MD _____

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch a Tot	Chia Su	POC/PON	Taxo	Bact	DAPI	Niskin #	FalAcid	DNA/RNA	DOC/DN	Comments
110	300	300.1	1						X							1				
111	300	300.1	2													2				
112	300	300.1	3													3				
113	300	300.1	4													4				
114	33.1	143.8	5						X							5				3 P
115	33.1	143.7	6													6				
116	33.1	143.7	7													7				
117	33.1	143.7	8													8				
118	50		9						X							9				ch/a max
119			10													10				
120			11													11				
121			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:

381 = 143
ch/a max - 50-60 mg
label file confirmed correct

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # *60* UTC Date (ddmmYYYY) *06 08* 2014

Station *KU605c* UTC Time *1316*

CTD File *2014-56-0060c* Lat (N) _____ Lon (W) _____

Water Depth (from surface) *500* m

Ice Coverage *2-3* /10

In Air pressure (before/after) *-0.3611, -0.270*

Sound Speed _____

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
987	300	493.4	1		X				X							1			X	
991	300	300.2	2		X				X							2			X	
100	300	300.4	3		X				X							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		X				X							6			X	
104	30	30.2	7		X				X							7			X	
105	30	30.2	8		X				X							8			X	chla max
106	30	30.2	9		X				X							9			X	
107	30	30.0	10		X				X							10			X	
108	10	10.0	11		X				X							11			X	
109	5	4.9	12		X				X							12			X	
11			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:

**should be originally*
chla max 60m. or 50m.
33.1 130 on down ca t stone sl Ht
deeper on way up.
10 min. 131-178m.
AW ~260-400
11.1 Flec - m

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # *20606* UTC Date (ddmm/yyyy) *11/10/2014* Ice Coverage *10* Water Depth (from surface) *10* m

Station *20606* UTC Time *11:10* In Air pressure (before/after) *1* Sound Speed *1500*

CTD File 2014-56- Lat (N) *60* Lon (W) *15* CTD Operator MD *MD*

Samp #	Target Property	Depth (m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUIT	O18	Ba	SAL	Ch a tot	ChlaSu	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
79	750		1					X	X							1			X	
80	500		2					X	X							2				
81	300		3					X	X							3				
82	200		4					X	X							4				
83	33.1		5					X	X							5				
84	125		6					X	X							6				
85	100		7					X	X							7				
86	80		8					X	X							8				
87	70		9					X	X							9				
88	60		10					X	X							10				
89	50		11					X	X							11				
90	50		12					X	X							12				
91	50		13					X	X							13				
92	40		14					X	X							14				
93	30		15					X	X							15				
94	20		16					X	X							16				
95	10		17					X	X							17				
96	5		18					X	X							18				
97	5		19					X	X							19				
			20													20				
			21													21				
			22													22				
			23													23				
			24													24				

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

Comments:

Not a

Rosette Log for IQS Cruise ID 2014-56

Ship: *FV Frosti*

Cast # *495502085* UTC Date (ddmm/yyyy) *12/12/2014*

Station *KU605* UTC Time *1423*

CTD File 2014-56- Lat (N) _____ Lon (W) _____

Water Depth (from surface) *497* m

Ice Coverage *1/10*

In Air pressure (before/after) *-0.375/-0.360*

Sound Speed _____ 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 #	FalAcid	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	142.3	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	40	40.1	11					X	X							11				
72	30	30.1	12					X	X							12				
73	20	20.0	13					X	X							13				
74	10	10.0	14					X	X							14				
75	5	5.0	15					X	X							15				
76	10	10.0	16					X	X							16				
77	5	5.0	17					X	X							17				
78	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:

chla = 50 m

33.1 = 142 m.

no salt on 8 collected.

label Files of corrected.

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast # 4054141442 UTC Date (ddmmYYYY) 1 1 2012

Station KV1504 UTC Time 1200

CTD File 201244 Lat (N) 33.1 Lon (W) 140.3

Ice Coverage 0 / 10

In Air pressure (before/after) -0.30 / -0.35

CTD Operator

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch atot	Chiasu	POC/PON	Taxo	Bact	DAPI	Niskin #	FalAcid	DNA/RNA	DOC/DN	Comments
43	350	340.0	1					X	X							1				
44	300	300.4	2					X	X							2				
45	200	201.2	3					X	X							3				
46	33.1	144.7	4					X	X							4				
47	1	125.3	5					X	X							5				
48	100	100.3	6					X	X							6				
49	80	80.2	7	1				X	X							7				
50	70	70.2	8	2				X	X							8				
51	60	60.1	9	3				X	X							9				
52	50	50.2	10	4				X	X							10				
53	40	40.2	11	5				X	X							11				
54	30	30.2	12	6				X	X							12				
55	20	20.2	13	7				X	X							13				
56	10	10.2	14	8				X	X							14				
57	0	0.2	15	9				X	X							15				
58	0	0.2	16	10				X	X							16				
59	0	0.2	17	11				X	X							17				
60	0	0.2	18	12				X	X							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:

Handwritten notes on the right side of the page, including "33.1 PSU" and "ch. max" written vertically.

Rosette Log for IOS Cruise ID 2014-56

Ship: F/V Frosti

Cast #

UTC Date (ddmmYYYY) | | 2012

Ice Coverage /10

Water Depth (from surface) 234 m

Station

UTC Time

In Air pressure (before/after)

Sound Speed

CTD File 201244-

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	Chia Su	POC/PON	Taxo	Bact	DAPI	Niskin #	Fat Acid	DNA/RNA	DOC/DN	Comments
27	200	225	1	--					X							1			X	Fe 113/5 321P
28	150	147	2	--					X							2			X	
29	5	125.2	3	--				X	X							3			X	
30	100	100.2	4	--				X	X							4			X	
31	80	80.1	5	--				X	X							5			X	
32	70	70.1	6	--				X	X							6			X	
33	60	60.2	7	--				X	X							7			X	
34	50	50.2	8	--				X	X							8			X	
35	40	40.2	9	--				X	X							9			X	250.1 328 chla max
36	40	40.2	10	--				X	X							10			X	250.1 328 chla max
37	40	40.2	11	--				X	X							11			X	250.1 328 chla max
38	30	30.1	12	--				X	X							12			X	250.1 328 chla max
39	20	20.1	13	--				X	X							13			X	250.1 328 chla max
40	10	10.0	14	--				X	X							14			X	250.1 328 chla max
41	5	5.0	15	--				X	X							15			X	250.1 328 chla max
42	5	5.0	16	--				X	X							16			X	250.1 328 chla max
			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:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast #

23

Station

R0602

UTC Date (ddmm/yyyy)

03/08/2014

UTC Time

1202

Ice Coverage

0/10

Water Depth (from surface)

0 m

In Air pressure (before/after)

-0.40/-0.23

Sound Speed

1483

CTD File 201244-

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	Chl a5u	POC/PON	Taxo	Bact	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Comments
17	75	43.7	1	✓				✓	✓							1				
18	60	60.0	2	✓				✓	✓							2				
19	50	50.0	3	✓				✓	✓							3				
20	40	40.0	4	✓				✓	✓							4				chl a max
21	40	40.0	5	✓				✓	✓							5				
22	40	40.0	6	✓				✓	✓							6				
23	30	27.8	7	✓				✓	✓							7				
24	20	20.3	8	✓				✓	✓							8				
25	10	9.4	9	✓				✓	✓							9				
26	5	5.0	10	✓				✓	✓							10				
			11													11				
			12													12				
			13													13				
			14													14				
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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:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frosti*

Cast # 1617 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) 10450 Sound Speed 1533 CTD Operator MD

CTD File 2014-56 Lat (N) 70 06.13 Lon (W) 133 50.36

-0016

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
11	20.3	20	1	✓				✓	✓							1			✓	✓
12	19.7	20	2	✓				✓								2			✓	
13	20.2	20	3	✓				✓								3			✓	
14	10.4	10	4	✓				✓	✓							4			✓	
15	4.8	5	5	✓				✓	✓							5			✓	
16	5.1	5	6	✓				✓								6			✓	
			7													7				
			8													8				
			9													9				
			10													10				
			11													11				
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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:

Rosette Log for IOS Cruise ID 2014-56

Ship: *F/V Frasti*

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) 1.040 Sound Speed MD

CTD File 2014-56-0008 Lat (N) 70 02 38 Lon (W) 133 32 72 CTD Operator MD

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch atot	Chl a	POC/PON	Taxo	Bact	DAPI	Niskin #	FalAcid	DNA/RNA	DOC/DN	Comments
6	20.1	20	1	1												1				
7	10.0	10	2	1												2				
8	3.0	5	3	1												3				
9	3.0	5	4	1												4				
10	3.0	5	5	1												5				
			6													6				
			7													7				
			8													8				
			9													9				
			10													10				
			11													11				
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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 (ddmm/yyyy) 21 08 2012

Station KV601 UTC Time 1311

CTD File 2014-56-0001 Lat (N) 20-0.75

Water Depth (from surface) 22.4 m

In Air pressure (before/after) -0.484 / 0.504 Sound Speed MD

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 #	FaIaAcid	DNA/RNA	DOC/DN	Comments
1	20.7	210	1	✓				✓	✓							1				
2	10.2	110	2	✓				✓	✓							2				
3	5.2	15	3	✓				✓	✓							3				chla ment.
4	5.2	5	4	✓				✓	✓							4				
5	5.2	5	5	✓				✓	✓							5				
6			6													6				
7			7													7				
8			8													8				
9			9													9				
10			10													10				
11			11													11				
12			12													12				
13			13													13				
14			14													14				
15			15													15				
16			16													16				
17			17													17				
18			18													18				
19			19													19				
20			20													20				
21			21													21				
22			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.

label file