

Rosette Log for IOS Cruise ID 2012-44

Ship: F/V Frosti

Cast # 332 UTC Date (ddmmmyyyy) 30/08/2012
Station TBS12-07 UTC Time 1448
CTD File 2012-44-0332.hyx Lat (N) 70 36.16

Ice Coverage 0/10 Water Depth(from surface) 1038 m
In Air pressure (before/after) ? 0.10 Sound Speed
Lon (W) 140 22.41 CTD Operator JE

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	Carboy	Comments
364	B-10	1030 +11	✓1	0		✓	✓	✓	✓					✓✓		1				✓	
365	750		✓2													2					
366	500		✓3													3					
367	300		✓4													4					
368	200		✓5													5					
369	33-1	153	✓6		✓			✓								6				✓	
370	150		✓7		✓											7					
371	125		✓8													8					
372	100		✓9													9					
373	80		✓10													10					
374	70		✓11													11					
375	60		✓12													12					
376	Chl	48	✓13													13					
377	Chl	48	✓14													14					dup at Chl Max.
378	40		✓15													15					
379	30		✓16													16					
380	20		✓17													17					
381	10		✓18													18					
382	5		✓19		✓	✓	✓	✓	✓					✓✓		19					
383	5		✓20													20					
384	Surf		✓21	0	✓	✓	✓	✓	✓					✓✓		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:

500-400

Rosette Log for IOS Cruise ID 2012-44

Ship: F/V Frosti

Cast # 306 UTC Date (ddmmmyyyy) 27/08/2012
Station TB312-06 UTC Time 1334 1934
CTD File 2012-44-0306.hex Lat (N) 70 33.22

Ice Coverage 0/10 Water Depth(from surface) 744 m
In Air pressure (before/after) 0.28/0.10 Sound Speed
Lon (W) 140 22.32 CTD Operator JE

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	Carboy		Comments
345	B0-5	738 ⁺	✓1	0		✓✓	✓	✓	✓					✓✓		1				✓		
346	500		✓2	1		✓	✓	✓	✓					✓		2						o-ring on air valve not sealed.
347	300		✓3	0		✓	✓	✓	✓					✓		3						
348	200		✓4			✓	✓	✓	✓					✓		4						
349	33.1	156	✓5			✓	✓	✓	✓					✓		5						
350	150		✓6			✓	✓	✓	✓					✓		6						
351	125		✓7			✓	✓	✓	✓					✓		7						
352	100		✓8			✓	✓	✓	✓					✓		8						
353	80		✓9	1		✓	✓	✓	✓					✓		9						top cap not sealed well
354	70		✓10			✓	✓	✓	✓					✓		10						
355	60		✓11			✓	✓	✓	✓					✓		11						
356	Chl	45	✓12			✓	✓	✓	✓					✓		12						
357	Chl	45	✓13			✓	✓	✓	✓					✓		13						dup bottle.
358	40		✓14			✓	✓	✓	✓					✓		14						
359	30		✓15			✓	✓	✓	✓					✓		15						
360	20		✓16			✓	✓	✓	✓					✓		16						
361	10		✓17			✓	✓	✓	✓					✓		17						
362	5		✓18			✓	✓	✓	✓					✓		18						
363	surf		✓19	0		✓✓	✓	✓	✓					✓✓		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 2012-44

Ship: F/V Frosti

Cast #297

Station TBS12-05

CTD File 2012-44-0297.hex

UTC Date (ddmmmyyy)27 | 08 | 2012

UTC Time 1306

Lat (N) 70 25.71

Ice Coverage 0 /10

In Air pressure (before/after) 007 / 0.10

Lon (W) 140 22.69

Water Depth(from surface) 497 m

Sound Speed _____

CTD Operator JE

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	Carboy		Comments
326	B0-5	487+9	✓1	0		✓	✓	✓	✓					✓		1				✓		raining while sampling this cast.
327	300		✓2													2						
328	200		✓3													3						
329	331	161	✓4		✓											4						
330	150		✓5		✓											5						
331	125		✓6													6						
332	100		✓7													7						
333	80		✓8													8						
334	70		✓9													9						
335	60		✓10													10						
336	Chl	51	✓11													11						
337	Chl	51	✓12													12						
338	40		✓13													13						
339	30		✓14													14						
340	20		✓15													15						
341	10		✓16													16						
342	5		✓17		✓	✓	✓	✓	✓					✓		17						
343	5		✓18													18						
344	Surf		✓19	0	✓	✓	✓	✓	✓					✓		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 2012-44

Ship: *F/V Frosti*

Cast # 285

UTC Date (ddmmmyyyy) 26 08 | 2012

Station TBS12-04

UTC Time 1827

CTD File 2012-44-0285 hex

Lat (N) 70 20.82

Ice Coverage 0/10

Water Depth(from surface) 353 m

in Air pressure (before/after) 0.97/0.45

Sound Speed _____

Lon (W) 140 22.85

CTD Operator JE

CTD Operator <u>JE</u>																						
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	Carboy	Comments	
308	200	344	✓ 1	0		✓	✓	✓						✓		1						missed bottom bottle 1st bottle @ 300m extra bottle @ 286 m, not sampled.
309	300	286	✓ 2			✓	✓	✓								2						
310	200		✓ 3													3						
311	33.1	162	✓ 4													4						
312	150		✓ 5													5						
313	125		✓ 6													6						
314	100		✓ 7													7						
315	80		✓ 8	0												8						
316	70		✓ 9	1												9						
317	60		✓ 10	0												10						top cap not seated well
318	50 Chl	46	✓ 11													11						
319	Chl	46	✓ 12													12						
320	Chl	40	✓ 13													13						
321	30		✓ 14													14						
322	20		✓ 15													15						
323	10		✓ 16													16						
324	5		✓ 17													17						
325	Surf		✓ 18	0		✓	✓	✓	✓					✓		18				✓		
3			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:

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 2012-44

Ship: F/V Frosti

Cast # 276
Station TB512-03
CTD File 2012-44-0276.hex
UTC Date (ddmmmyyyy) 26 | 08 | 2012
UTC Time 1316
Lat (N) 70.16.94

Ice Coverage 0/10
In Air pressure (before/after) 007/1.48
Lon (W) 140 22.84
Water Depth(from surface) 206 m
Sound Speed
CTD Operator JE

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	Carboy	Comments
291	B0-5	198.14	✓1	0		✓✓	✓	✓	✓					✓✓		1				✓	
292	33.1	151	✓2		✓											2					
293	150		✓3		✓											3					no samples from 3 - dup bottle
294	125		✓4													4					
295	100		✓5													5					
296	80		✓6		✓											6					
297	70		✓7		✓											7					
298	60		✓8		✓											8					
299	50		✓9													9					
300	Chl	45	✓10		✓											10					
301	Chl	45	✓11													11					no samples from 12 - dup bottle.
302	30		✓12													12					
303	20		✓13		✓											13					
304	10		✓14													14					
305	5		✓15		✓	✓✓	✓	✓	✓					✓✓		15					
306	5		✓16													16					
307	surf		✓17	0	✓	✓	✓	✓	✓					✓✓		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 2012-44

Ship: F/V Frosti

Cast # 263 UTC Date (ddmmmyyyy) 25 | 08 | 2012
Static.. TBS12-02 UTC Time 1930
CTD File 2012-44-0263 hqx Lat (N) 70 15 11

Ice Coverage 0 / 10 Water Depth(from surface) 75 m
In Air pressure (before/after) 0.62 / Sound Speed
Lon (W) 140 22.63 CTD Operator JE

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	Carboy	Comments
280	B0-5	67+6	✓ 1	0	✓	✓	✓	✓	✓	W	W	W		✓		1		W	W	✓	
281	66		✓ 2	0	✓											2					
282	50		✓ 3	1	✓					W	W					3					
283	40Chl	43	✓ 4	0	✓	✓	✓	✓	✓	W	W	W	W	W	W	4	✓	W	W		Spigot pushed in on recovery, no lenses
284	30Chl	43	✓ 5		X	✓	✓	✓	✓							5					black fluid staining outside of bottle, no sample-dip
285	Chl 30		✓ 6		✓	✓	✓	✓	✓	W	W	W		✓		6					
286	Chl 20		✓ 7		✓	✓	✓	✓	✓	W	W	W		✓		7			W		
287	10		✓ 8		✓	✓	✓	✓	✓	W	W	W		✓		8					
288	5		✓ 9		✓	✓	✓	✓	✓	W	W	W	W	✓	W	9		W	W		
289	5		✓ 10	0												10					
290	surf		✓ 11	01	✓	✓	✓	✓	✓					✓		11				✓	no sample - bottle closed in air
			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:

Rosette Log for IOS Cruise ID 2012-44

Ship: F/V Frosti

Cast # 253 UTC Date (ddmmmyyyy) 25 | 08 | 2012 Ice Coverage 0 / 10 Water Depth(from surface) 45 m
Station TB512-01 UTC Time 1321 In Air pressu. (before/after) 0.10 , 1.31 Sound Speed _____
CTD File 2012-44-0253_hex Lat (N) 69 55.79 Lon (W) 140 22.59 CTD Operator JE

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	Carboy		Comments
272	B-S	35+9	✓1	0	✓	✓✓	✓	✓	✓	W	W			✓		1		W	W	✓		
273	30		✓2		✓					W	W					2						
274	Chl	18	✓3		✓					W	W	W	W		W	3	✓	W	W			
275	Chl	18	✓4													4						
276	700	13	✓5		✓					W	W					5						
277	S		✓6		W	W	✓	✓	✓	W	W	W	W	W	W	6		W	W			
278	S		✓7													7						
279	Surf		✓8	0	✓	W	✓	✓	✓	W	W	W		W		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						

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:

Site Log for IOS Cruise ID 2012-44

Ship: *F/V Frosti*

St # 221 UTC Date (ddmmmyyyy) 22 | 06 | 2012
 Station GRY12-06 UTC Time 2136
 CTD File 201244-0221 Lat (N) 70 26.45

Ice Coverage 0 / 10 Water Depth(from surface) 761 m
 In Air pressure (before/after) 10.10 Sound Speed _____
 CTD Operator JE

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	PAR	Chlorophyll	Comments
253	B-5	742+17	✓1	0		✓	✓	✓	✓	W	W	W		W		1		W	W	✓	
254	500		✓2													2					
255	300		✓3													3					
256	200		✓4													4					
257	33.1	169	✓5							W	W	W				5		W	W		
258	150		✓6													6					
259	125		✓7													7					
260	100		✓8	0						W	W	W				8					
261	80		✓9	1												9					
262	70		✓10	0						W	W	W				10		N	N		top cap not seated well
263	60		✓11													11					
264	50	50	✓12							W	W	W	W		W	12	✓	W	N		
265	Chl	50	✓13													13					
266	40		✓14							W	W					14					
267	30		✓15							W	W					15					
268	20		✓16							W	W	W				16		W			
269	10		✓17							W	W					17					
270	5		✓18							W	W	W	W		W	18		W	N		
271	Surf		✓19	0		✓	✓	✓	✓	W	W	W		W		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 2012-44

Ship: F/V Frosti

Cast #211

Station GR12-05

CTD File 2012-44-0211

UTC Date (ddmmmyyyy) 22 | 08 | 2012

UTC Tim1400

Lat (N) 70 18.12

Ice Coverage 0 /10

In Air pressure (before/aftc.) 01010.10

Lon (W) 138 32.97

Water Depth(from surface) 500 m

Sound Speed _____

CTD Operator JE

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	Carboy		Comments
234	B0-5	493 ¹⁷	✓1	0		✓✓	✓	✓	✓	W	W	W		✓			1	W	W	✓		
235	300		✓2														2					
236	200		✓3														3					
237	33.1	175	✓4		✓					W	W	W					4	W	W			
238	150		✓5		✓												5					
239	125		✓6														6					
240	100		✓7						✓	W	W	W					7					fall dup added post cruise from 018 sample?
241	80		✓8														8					
242	70		✓9							W	W	W			W		9	W	W			
243	60		✓10														10					
244	Chl	50	✓11							W	W	W	W		W		11	✓	W	W		
245	Chl	50	✓12														12					
246	40		✓13							W	W	W					13					
247	30		✓14							W	W	W					14					
248	20		✓15							W	W	W	W				15		W			
249	10		✓16							W	W	W					16					
250	5		✓17		✓	✓	✓	✓	✓	W	W	W	W	✓	W		17	W	W			
251	5		✓18														18					
252	surf		✓19	0	✓	✓	✓	✓	✓	W	W	W		✓			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 2012-44

Ship: F/V Frosti

Cast # 203 UTC Date (ddmmmyyy) 20 08 2012
Station GRY12-04 UTC Time 1931
CTD File 2012-44-0203 Lat (N) 70 15.29

Ice Coverage 0/10 Water Depth(from surface) 351 m
In Air pressure (before/after) -0.07/0.10 Sound Speed
CTD Operator JE

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	Carboy		Comments	
216	Bo-5	343.78	✓1	0		✓	✓	✓	✓	✓	✓	✓		✓		1		✓	✓	✓			
217	300		✓2	1												2							Spigot leak - air valve O-ring (replaced before next cast)
218	200		✓3	0												3							
219	33.1	188	✓4							✓	✓	✓				4		✓	✓				
220	150		✓5													5							
221	125		✓6													6							
222	100		✓7							✓	✓	✓				7							
223	80		✓8													8							
224	70		✓9							✓	✓	✓				9		✓	✓				
225	60		✓10													10							
226	50		✓11							✓	✓	✓				11							
227	Ch1	45	✓12							✓	✓	✓	✓		✓	12	✓	✓	✓				
228	Ch1	45	✓13													13							
229	30		✓14							✓	✓	✓				14							
230	20		✓15							✓	✓	✓	✓			15			✓				
231	10		✓16							✓	✓	✓				16							
232	5		✓17	6						✓	✓	✓	✓	✓	✓	17		✓	✓				
233	surf		✓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 2012-44

Ship: F/V Frosti

Cast # 194 UTC Date (ddmmmyyyy) 20 | 08 | 2012 Ice Coverage 0 /10 Water Depth(from surface) 204 m

Station GRY12-03 UTC Time 0102 In Air pressure (before/after) -0.07 Sound Speed _____

CTD File 2012-44-0194 Lat (N) 70 07.83 Lon (W) 138 01.52 CTD Operator JE

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	Carboy		Comments
199	B0-5	196.77	✓ 1		✓	✓✓	✓	✓	✓	✓✓	✓✓			✓			1	✓✓	✓✓	✓		
200	33.1	175	✓ 2	1	✓												2	✓✓	✓✓			didn't get h 33.1 spigot drip-top cap
201	150		✓ 3														3					
202	125		✓ 4														4					
203	100		✓ 5							✓✓	✓✓	✓✓					5					
204	80		✓ 6														6					
205	70		✓ 7							✓✓	✓✓	✓✓					7	✓✓	✓✓			
206	60		✓ 8														8					
207	50	53	✓ 9		✓					✓✓	✓✓	✓✓					9					Chl dup
208	Chl	53	✓ 10							✓✓	✓✓	✓✓	✓		✓		10	✓	✓✓	✓✓		
209	40		✓ 11														11					
210	30		✓ 12							✓✓	✓✓						12					
211	20		✓ 13							✓✓	✓✓	✓✓					13		✓✓			
212	10		✓ 14							✓✓	✓✓						14					
213	5.1		✓ 15		✓	✓✓	✓	✓	✓	✓✓	✓✓	✓✓	✓	✓	✓		15	✓✓	✓✓			Note: Seavac recorded bottle 15 closing at 10m, but we did not
214	5		✓ 16														16					sample & adjusted bottle #'s
215	Surf		✓ 17		✓		✓	✓	✓	✓✓	✓✓	✓✓		✓			17			✓		
	Surf		✓ 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 2012-44

Ship: F/V Frosti

Cast # 182 UTC Date (ddmmmyyyy) 19 | 08 | 2012
Station GR412-02 UTC Time 1919
CTD File 2012-44-0182 Lat (N) 70 01.05

Ice Coverage 0 /10 Water Depth(from surface) 80 m
Ir. Air pressure (before/after) -0.07/-0.24 Sound Speed
Lon (W) 137 40.50 CTD Operator JE start scan

Samp #	Target Property	Depth(m)	Niskin #	Bottle Integrity (0=good, 1=bad)	DIC/ALK	NUT	O18	Ba	SAL	Ch aTot	Chla5u	POC/PON	Taxo	Bad	DAPI	Niskin #	FatAcid	DNA/RNA	DOC/DN	Carboy	Comments
188	B0-5	71.8	✓1	0	✓	✓	✓	✓	✓	✓	✓	✓				1		✓	✓	✓	
189	60		✓2	0	✓	✓										2					
190	50		✓3			✓				✓	✓	✓				3					
191	C1140		✓4			✓				✓	✓	✓	✓		✓	4	✓	✓			
192	Ch130		✓5													5					
193	30 20		✓6							✓	✓					6					
194	Ch1	Ch 9	✓7							✓	✓	✓				7					
195	Ch1	Ch 9	✓8							✓	✓	✓				8					no need dup Niskin
196	5		✓9	0	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	9		✓			
197	5		✓10													10					
198	surf		✓11	0	✓	✓	✓	✓	✓	✓	✓	✓				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:

Rosette Log for IOS Cruise ID 2012-44

Ship: F/V Frosti

Cast # 170 UTC Date (ddmmmyyyy) 19 | 08 | 2012
Station GR12-01 UTC Time 1414
CTD File 2012-44-0170 Lat (N) 69 52.56

Ice Coverage 0 / 10 Water Depth(from surface) 50 m
In Air pressure (before/after) -0.07 / 0.07 Sound Speed
Lon (W) 137 14.55 CTD Operator JE St. Seaw L

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	Carboy	Comments
179	Bo-5	43	✓	1	✓	✓	✓	✓	✓	W	W					1	✓	W	✓	✓	
180	40	✓	2		✓	✓	✓	✓	✓	W	W	W			W	2	✓	W	✓		
181	30	✓	3			✓	✓	✓	✓	W	W	W			W	3		W	✓		
182	20	✓	4			✓	✓	✓	✓	W	W	W			W	4		W	✓		
183	Chl	✓	5			✓	✓	✓	✓	W	W	W			W	5		W	✓		
184	Chl	✓	6			✓	✓	✓	✓	W	W	W			W	6		W	✓		
185	5	✓	7		✓	✓	✓	✓	✓	W	W	W	W		W	7		W	✓		
186	5	✓	8													8					
187	surf	✓	9	0	✓	✓	✓	✓	✓	W	W	W				9		W	✓		
			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:

Rosette Log for IOS Cruise ID 2012-44

Ship: *F/V Frosti*

Cast # 149 UTC Date (ddmmmyyyy) 17 08 2012
 Station KAG12-07 UTC Time 0125
 CTD File 2012-44-0149 Lat (N) 71 15.05

Ice Coverage 0 /10 Water Depth(from surface) 985 m
 In Air pressure (before/after) 0.10 / -0.24 Sound Speed _____
 Lon (W) 135 04.31 CTD Operator JE

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
158	Bo-10	976+10	✓ 1			✓	✓	✓	✓							1				✓	PARe surf 380
159	750		✓ 2													2					✓ 732
160	500		✓ 3													3					464
161	300		✓ 4													4					
162	200		✓ 5													5					
163	331	157	✓ 6		✓											6					
164	150		✓ 7		✓											7					
165	125		✓ 8													8					
166	100		✓ 9													9					
167	80		✓ 10													10					
168	70		✓ 11													11					
169	60		✓ 12													12					
170	chl	56	✓ 13													13					
171	chl	46	14													14					
172	chl	34	✓ 15													15					
173	chl	34	16													16					
174	20		✓ 17													17					
175	10		✓ 18													18					
176	5		✓ 19		✓	✓	✓	✓	✓							19					
177	5		✓ 20													20					
178	Surf		✓ 21		✓	✓	✓	✓	✓							21				✓	top cap not seated well
			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 2012-44

Ship: F/V Frosti

Cast # 143 UTC Date (ddmmmyyyy) 16 | 08 | 2012
Station KUG12-06 UTC Time 1704
CTD File 2012-44-0143 Lat (N) 71 09.42

Ice Coverage 0/10 Water Depth(from surface) 770 m
In Air pressure (before/after) 0.10 | 0.10 Sound Speed
CTD Operator JE st scan 2550

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	Carboy	Comments
139	B0.5	756 +14	✓ 1	0		✓✓	✓	✓	✓							1				✓	SPAR 800 .2% = .16
140	500		✓ 2													2					2% = 1.6
141	300		✓ 3													3					
142	200		✓ 4													4					
143	S=33.1	165	✓ 5													5					
144	150		✓ 6													6					
145	125		✓ 7													7					
146	100		✓ 8													8					
147	80		✓ 9													9					
148	70		✓ 10													10					
149	60		✓ 11													11					
150	Chl	55	✓ 12													12					
151	Chl	55	✓ 13													13					
152		40	✓ 14													14					
153	30		✓ 15													15					
154	20		✓ 16													16					
155	10		✓ 17													17					
156	5		✓ 18													18					
157	surf		✓ 19	0		✓✓	✓	✓	✓							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 2012-44

Ship: F/V Frosti

Cast # UTC Date (ddmmmyyyy) | | 2012

Station KUG12-05 UTC Time In Air pressure (before/after) /

CTD File 2012-44- Lat (N) Lon (W) CTD Operator

Water Depth(from surface) 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 #	FatAcid	DNA/RNA	DOC/DN	Carboy	Comments
139	B0-5		1			✓✓	✓	✓	✓							1					
140	300		2			✓	✓	✓	✓							2					
141	200		3			✓	✓	✓	✓							3					
142	33.1		4		✓	✓	✓	✓	✓							4					
143	150		5		✓	✓	✓	✓	✓							5					
144	125		6			✓	✓	✓	✓							6					
145	100		7			✓	✓	✓	✓							7					
146	80		8			✓	✓	✓	✓							8					
147	70		9			✓	✓	✓	✓							9					
148	66		10			✓	✓	✓	✓							10					
149	50		11			✓	✓	✓	✓							11					
150	Chl		12			✓	✓	✓	✓							12					
151	Chl		13			✓	✓	✓	✓							13					
152	30		14			✓	✓	✓	✓							14					
153	20		15			✓	✓	✓	✓							15					
154	10		16			✓	✓	✓	✓							16					
155	5		17		✓	✓✓	✓	✓	✓							17					
156	5		18			✓	✓	✓	✓							18					
157	surf		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 2012-44

Ship: F/V Frosti

Cast # 110 UTC Date (ddmmmyyyy) 15 | 08 | 2012
Station KUG12-04 UTC Time 1314
CTD File 201244-0110 Lat (N) 70 59.06

Ice Coverage 0 / 10 Water Depth(from surface) 350 m
In Air pressure (before/after) 0.10 / 0.10 Sound Speed
Lon (W) 134 47.65 CTD Operator JE

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	PAM			Comments
121	B.-5	345+9	✓ 1	0		✓✓	✓	✓	✓							1						SPAR = 180% 2.1, 2.2, 3.6
122	300	✓	2	1		✓✓	✓	✓	✓							2						top cap not seated well.
123	33.1	225	✓ 3	0												3						
124	200	✓	4													4						
125	150	✓	5													5						
126	125	✓	6													6						
127	100	✓	7													7						
128	80	✓	8													8						
129	70	✓	9													9						
130	60	✓	10													10						
131	50	52 ✓	11													11						
132	CHI	45 ✓	12													12						
133	CHI	45 ✓	13													13						
134	30	✓	14													14						
135	20	✓	15													15						
136	10	✓	16													16						
137	5	✓	17													17						
138	surf	✓	18	0		✓✓	✓	✓	✓							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 2012-44

Ship: F/V Frosti

Cast # 101 UTC Date (ddmmmyyy) 14 | 08 | 2012
Station KUG12-03 UTC Time 1902
CTD File 201244-0101 Lat (N) 70 55.85

Ice Coverage 0/10 Water Depth(from surface) 220 m
In Air pressure (before/after) 0.241 Sound Speed /
Lon (W) 134 45.65 CTD Operator JE

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	PAM				Comments
104	B ₀ -5	211+9	✓	1		✓✓	✓	✓	✓							1							
105	150	✓	2						✓✓							2							
106	350-140	✓	3		✓				✓							3							
107	125	✓	4		✓											4							
108	100	✓	5													5							
109	80	✓	6													6							
110	70	✓	7													7							
111	60 210PBR	✓	8	0												8							
112	50	✓	9	1												9							spigot drip - top cap not seated
113	Chl	40	✓	0												10							
114	Chl	40	✓													11							
115	30	✓	12													12							
116	20	✓	13						✓							13							
117	10	✓	14						✓✓							14							
118	5	✓	15		✓	✓	✓	✓	✓							15							
119	5	✓	16													16							
120	surf	✓	17	0	✓	✓	✓	✓	✓							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 2012-44

Ship: F/V Frosti

Cast #93 UTC Date (ddmmmyyyy) 14 | 08 | 2012 Ice Coverage 0 / 10 Water Depth(from surface) 79 m

Station KUG12-02 UTC Time 1325 In Air pressure (before/after) 0.10 / 0.10 Sound Speed _____

CTD File 201244-0093 Lat (N) 70 50.89 Lon (W) 134 40.07 CTD Operator JE

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	PAM	<i>Carbonyl</i>	Comments	
93	B0-5	79.8	✓ 1	1	✓	✓✓	✓	✓	✓	✓	✓	✓				1		✓			} Left air valves open.	
94	60		✓ 2	1	✓				✓							2						
95	50		✓ 3	0						✓	✓	✓				3						
96	40		✓ 4	0						✓	✓	✓				4						
97	Chl	26	✓ 5	0						✓	✓	✓	✓	✓	✓	5	✓	✓				
98	Chl	26	✓ 6	0						✓	✓	✓				6						
99	20		✓ 7	0						✓	✓	✓				7						
100	10		✓ 8	0						✓	✓	✓				8						
101	5		✓ 9	0	✓✓	✓✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9	✓			✓		
102	5		✓ 10	0												10				✓		
103	Surf		✓ 11	0	✓	✓✓	✓	✓	✓	✓	✓	✓				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:

Rosette Log for IOS Cruise ID 2012-44

Ship: F/V Frosti

Cast # 78 UTC Date (ddmmmyyy) 13 | 08 | 2012
Station Kug12-01 UTC Time 1325
CTD File 201244-0078 Lat (N) 70 00.63

Ice Coverage 0 /10
In Air pressure (before/after) 0.10 /
Lon (W) 133 50.42

Water Depth(from surface) 23 m
Sound Speed Windy, lumpy.
CTD Operator JE

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	PAM				Comments
88	Bo-5	14	1		✓	✓	✓	✓	✓	W	W	W				1		W					
89	10		2		✓	✓	✓	✓	✓	W	W					2							
90	5		3		✓	✓	✓	✓	✓							3							
91	5		4							W	W	W	W	W	W	4	✓	W					
92	surf		5		✓	✓	✓	✓	✓	W	W	W				5							Spigot leak - top cap not seated.
			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							

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 2012-44

Ship: F/V Frosti

Cast #64

Station DAL12-07

CTD File 201244-0064

UTC Date (ddmmmyyyy) 10 | 08 | 2012

UTC Time 1313

Lat (N) 71 51.87

Ice Coverage 0 /10

In Air pressure (before/after) -0.24 / 0.28

Lon (W) 131 28.72

Water Depth(from surface) 989 m

Sound Speed _____

CTD Operator JE

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	PAM	<i>Carby</i>	Comments
68	Bo-20	965 ✓	1	0	✓	✓✓	✓	✓	✓							1	✓				UPAR 15109000/SPAR in air
69	750	✓	2						✓✓							2					
70	500	✓	3						✓							3					
71	300	✓	4													4					
72	200	✓	5													5					
73	150	✓	6													6					
74	S=33.1	140 ✓	7		✓											7	✓				
75	125	✓	8													8					
76	100	✓	9							✓	✓	✓				9					jelly fish on spigot
77	PAR 0.29%	85 ✓	10													10					
78	ChlMax	70 ✓	11													11					
79	ChlMax	70 ✓	12							✓	✓	✓	✓	✓	✓	12	✓	✓			
80	60	✓	13													13					
81	50	✓	14							✓	✓	✓	✓			14					
82	40	✓	15							✓	✓	✓	✓			15					
83	30	✓	16							✓	✓	✓	✓			16					spigot drips when open - OK closed
84	20	✓	17							✓	✓	✓	✓			17					
85	10	✓	18	0	✓				✓	✓	✓	✓	✓	✓	✓	18					stop
86	5	✓	19	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19	✓				slow spigot drip - needs new O-rings
87	Surf	✓	20	0	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	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 2012-44

Ship: *F/V Frosti*

Cast # 48 UTC Date (ddmmmyyy) 10/08/2012

Station DAL12-06 UTC Time 0011

CTD File 201244-0048 Lat (N) 71 35.99

Ice Coverage 0/10

Water Depth(from surface) 750 m

In Air pressure (before/after) 0.10/0.96

Sound Speed _____

Lon (W) 131 21.07

CTD Operator JE

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	PAWT	CARBOY	Comments	
52	B0-10	744 ⁺¹⁰	✓1	500	494	✓	✓✓	✓	✓	✓							1		✓		✓		bottom bottle missed - 1st bottle is at 500m
53		500	✓2	300	294	✓				✓✓							2		✓				
54		300	✓3	200	194	✓				✓							3						
55		200	✓4	150	143	✓											4						
56		150	✓5	144	138	✓											5						
57	33.1	144	✓6	125	117	✓											6		✓		✓		
58		125	✓7	100	92												7		✓				leak around spigot
59	0.27 PAC?	100	✓8	80	71						✓	✓	✓				8						
60		80	✓9	70	61												9				✓		
61	ChlMax	70	✓10	70	61												10						spigot drip - air valve not tight enough
62	ChlMax	70	✓11	60	51						✓	✓	✓	✓	✓	✓	11	✓	✓		✓		
63		60	✓12	50	43												12						
64		50	✓13	40	31						✓	✓	✓				13				✓		
65		40	✓14	30	22						✓	✓	✓				14				✓		
66		30	✓15	20	12						✓	✓	✓				15				✓		
67		20	✓16	10	8						✓	✓	✓				16				✓		
68		10	✓17								✓	✓	✓				17				✓		spigot drip & no sample - see #18 no sample - bottle did not fire until out of water
69		5	✓18								✓	✓	✓				18	✓			✓		
70		545	✓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:

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:

wrong pipette tips for HgCl₂ pickling

Rosette Log for IOS Cruise ID 2012-44

Ship: *F/V Frosti*

Cast # 29

UTC Date (ddmmmyyyy) 08 08 | 2012

Station DAL12-04

UTC Time 1610

Ice Coverage 0/10

Water Depth(from surface) 326 m

CTD File 201244-0029

Lat (N) 71 22.30

In Air pressure (before/after) 0.1 120

Sound Speed _____

Lon (W) 131 14.38

CTD Operator JE

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 #	FaAcid	DNA/RNA	PAM	Comments
34	Bo-10	316	1	0		✓	✓	✓	✓											
35	300		2	0		✓	✓	✓	✓							1		Σ		
36	200		3	0		✓	✓	✓	✓							2		Σ		
37	33.1	155	4			✓	✓	✓	✓							3				air valve not tight
38	150		5			✓	✓	✓	✓							4		W		needs new spigot o-rings
39	125		6			✓	✓	✓	✓							5				
40	100		7			✓	✓	✓	✓	✓	W	W				6				still leaks at spigot
41	80		8			✓	✓	✓	✓	✓	W	W				7				
42	70	0.29092	9			✓	✓	✓	✓	✓	W	W				8				
43	60		10			✓	✓	✓	✓	✓	W	W				9		W		on cast 2012-44-6029a
44	50		11			✓	✓	✓	✓	✓	W	W				10				
45	Chl	40	12			✓	✓	✓	✓	✓	W	W				11				
46	Chl	40	13			✓	✓	✓	✓	✓	W	W	W	W	W	12	✓	W		
47	30		14			✓	✓	✓	✓	✓	W	W				13				
48	20		15	0		✓	✓	✓	✓	✓	W	W				14				needs new spigot o-rings
49	10		16			✓	✓	✓	✓	✓	W	W				15				
50	5		17	0		✓	✓	✓	✓	✓	W	W				16				skip, bad spigot
51	Surf		18			✓	✓	✓	✓	✓	W	W	W	W	W	17				
			19			✓	✓	✓	✓	✓	W	W				18	✓			
			20			✓	✓	✓	✓	✓	W	W				19				
			21			✓	✓	✓	✓	✓	W	W				20				
			22			✓	✓	✓	✓	✓	W	W				21				
						✓	✓	✓	✓	✓	W	W				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 2012-44

Ship: *F/V Frosti*

Cast # 22 UTC Date (ddmmmyyyy) 07/08/2012

Station DAL12-03 UTC Time 2208

CTD File 201244-0022 Lat (N) 71 19.87

Ice Coverage 0 /10

Water Depth(from surface) 212 m

In Air pressure (before/after) 10.10

Sound Speed _____

Lon (W) 131 13.06

CTD Operator JE

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	PAM			Comments
18	Bo-3	205	1	0		✓	✓	✓	✓													
19	33.1	✓	2	0		✓	✓	✓	✓								1	✓				
20	150	✓	3	0		✓	✓	✓	✓								2	✓				
21	125	✓	4	slowly drop		✓	✓	✓	✓								3					
22	100	✓	5	0		✓	✓	✓	✓								4					
23	80	87	6	0		✓	✓	✓	✓	✓	✓	✓					5	✓				
24	70	✓	7	0		✓	✓	✓	✓	✓	✓	✓					6					
25	60	✓	8	0		✓	✓	✓	✓	✓	✓	✓					7					
26	50	✓	9	0		✓	✓	✓	✓	✓	✓	✓					8	✓				
27	Chl Max	40	✓	0		✓	✓	✓	✓	✓	✓	✓					9					
28	Chl Max	40	✓	0		✓	✓	✓	✓	✓	✓	✓					10					
29	30	✓	11	0		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		11	✓	✓			
30	20	✓	12	0		✓	✓	✓	✓	✓	✓	✓					12					
31	10	✓	13	0		✓	✓	✓	✓	✓	✓	✓					13					
32	5	✓	14	0		✓	✓	✓	✓	✓	✓	✓					14					
33	Surf	2	✓	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		15	✓				
34	Surf		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:

Rosette Log for IOS Cruise ID 2012-44

Ship: *F/V Frosti*

Cast # 14

UTC Date (ddmmmyyyy) 07 08 | 2012

Ice Coverage 0/10

Station DAL12-02

UTC Time 1412

In Air pressure (before/after) .10 , 0.28

Water Depth(below hull) 82 m

CTD File 201244004

Lat (N) 71 12.46

Lon (W) 130 10.72

Sound Speed 1462

CTD Operator JE

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	PAW	Comments	
6	Bk3	78✓	1	0		✓✓	✓	✓	✓	✓✓	✓	✓	✓				1		✓			
7	70	✓	2														2					
8	60	✓	3	0		✓✓	✓	✓	✓	✓✓							3					Skip, bad spigot leak
9	50	✓	4	0		✓✓											4					
10	40	✓	5	0						✓	✓	✓	✓				5					
11	Chl	40✓	6	1													6					
12	50	40✓	7	0						✓✓	✓✓	✓✓	✓✓	✓	✓✓	✓✓	7	✓	✓✓			terrible spigot leak
13	60	30✓	8	0													8					
14	20	✓	9	0						✓✓	✓✓						9					
15	10	✓	10	0						✓	✓✓	✓	✓				10		✓✓			
16	5	✓	11	0						✓✓	✓✓						11					
17	Surf	✓	12	0						✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	✓✓	12		✓✓			
			13	0		✓✓	✓	✓	✓	✓	✓✓	✓✓	✓				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:

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 2012-44

Ship: *F/V Frosti*

Cast # 13

UTC Date (ddmmmyyyy) 07/08/2012

Ice Coverage 0/10

Water Depth(below hull) 26 m

Station DAL12-01

UTC Time 0224

In Air pressure (before/after) /

Sound Speed /

CTD File 2012440001

Lat (N) 70 33.58

Lon (W) 130 52.69

CTD Operator JE

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	Comments
1	Bot-3	24	1	✓	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1	✓	✓	✓	
2	15	20	2	xx	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	2	✓	✓	✓	
3	10	15	3	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	3	✓	✓	✓	spigot leak, air valve not tight
4	5	10	4	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	4	✓	✓	✓	
5	surf	4	5	11	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	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: