

1 56	
#DIV/0!	Miscd Ka reading
1 57	

Fraser, Tamara

From: Gatien, Germaine
Sent: March-29-16 8:36 AM
To: Fraser, Tamara
Subject: RE: problematic samples from 2015-56

Hi Tamara,

I have not processed these data but did a quick conversion to make an estimate. The results are as follows:

Event 3 – downcast 2.7, upcast 2.5 around 10m.

Event 272 – both down and up about 0.6ug/L.

Event 348 – lot of spikes – both down and up about 0.35ug/L at 10m but spikes of up to 1.1 down and 0.7 up.

Event 414 – no such CTD – 413 was a CTD according to log book. For 413 see 0.66 down and 0.55 up.

The upcast fluorescence is usually lower than the downcast as the rosette package drags deeper water with it. However, the CTD was stopped at 15m to get a 10m rosette sample, so this is not likely a big source of error as the CTD had time to equilibrate to the 15m value at least.

The rosette bottle likely contains water from a little deeper in the water column than 10m, so these two errors may partly offset each other.

So my guess is that the 1st sample is best for #6, the 2nd for 272 and the 2nd for 413.
Either seems possible for 348 and 368.

Hope that helps.
Germaine

From: Fraser, Tamara
Sent: 2016–March-21 1:01 PM
To: Gatien, Germaine
Subject: FW: problematic samples from 2015-56

Hi Germaine

Could I please get you to help me with the weirdo samples below? I know what happened for event/sample 272 but not for the rest.

Thanks very much

Tamara

From: Fraser, Tamara
Sent: February-10-16 11:40 AM
To: Nemcek, Nina
Subject: problematic samples from 2015-56

Hi Nina

Would you be able to check the fluorometer for this cruise to give me some guidance for the following samples?
(sample number = CTD cast number). I did absolutely no dilutions for this entire cast so not sure how to proceed.

Cruise_Number	Event	Sample_Number	Chl.a	Phaeo	Chl	CV%	Flag:Chlorophyll:Extracted	Comments
2015-56	6	6	2.24	1.12	1.70	45.28	36	CHL CV>15%
2015-56	6	6	1.16	0.54				
2015-56	272	272	1.60	-1.60	1.07	69.18	46	CHL CV>50%
2015-56	272	272	0.55	0.39				
2015-56	348	348	0.91	0.76	0.67	49.84	36	CHL CV>15%
2015-56	348	348	0.44	0.24				
2015-56	368	368	1.69	0.62	1.27	47.13	36	CHL CV>15%
2015-56	368	368	0.85	0.54				
2015-56	414	414	2.47	1.31	1.44	100.83	36	CHL CV>50%
2015-56	414	414	0.41	0.22				

Thank you!

Tamara

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Chlorophyll Data Sheet

Cruise: 2015-56

Page: 1 of 3

1st use 90% acetone made last week

Dates of Cruise:

Time and date acetone added: 11:30 am 20 Jan 16 Analyst: Tamara

Time and date out of freezer: 9:52 am 21 Jan 16

Time analysis started: 11:10 am 21 Jan 16

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	12.263			
STD			HIGH	4-	55.459			
Blank				6-	0.002	8-	0.002	
								DF?
480	QCST19	330	10	1-	54.597	2-	33.552	X
473	QCST15		10	3-	80.450	4-	45.795	X
468	IBC07		10	5-	47.582	6-	29.397	X
466	IBC06		10	7-	41.283	8-	24.885	X
459	IBC04		10	1-	39.123	2-	24.716	X
454	IBC01		10	3-	24.243	4-	16.047	X
452	QCSD03		10	5-	57.995	6-	29.129	X
447	QCSD01		10	7-	66.940	8-	33.528	X
442	VI24		10	1-	36.332	2-	21.451	X
439	VI23		10	3-	125.881	4-	69.732	X
480	QCST19		10	5-	50.992	6-	31.497	X
473	QCST15		10	7-	78.933	8-	44.888	X
468	IBC07		10	1-	46.817	2-	28.933	X
466	IBC06		10	3-	41.002	4-	25.314	X
459	IBC04		10	5-	39.549	6-	25.013	X
454	IBC01		10	7-	26.500	8-	17.1664	X
452	QCSD03		10	1-	68.053	2-	39.536	X
447	QCSD01		10	3-	85.143	4-	48.812	X
442	VI24		10	5-	38.545	6-	23.140	X
439	VI23		10	7-	126.484	8-	70.434	X
?	IS02		10	1-	15.309	2-	9.918	X
482	KI01		10	3-	17.213	4-	11.674	X
P	IS02		10	5-	14.349	6-	9.520	X
482	KI01		10	7-	17.136	8-	11.594	X
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

HS201556
QCST19
Const# 480

HS201556
QCST15
Const# 473

HS201556
IBC07
Const# 468

HS201556
IBC06
Const# 466

HS2015-56
IBC04
Const# 459

HS2015-56
IBC01
Const# 454

HS201556
QCSD03
Const# 452

HS201556
QCSD01
Const# 447

HS201556
VI24
Const# 442

HS201556
VI23
Const# 439

HS201556
QCST19
Const# 480

HS2015-56
QCST15
Const# 473

HS201556
IBC07
Const# 468

HS201556
IBC06
Const# 466

HS201556
IBC04
Const# 459

HS2015-56
IBC01
Const# 454

HS201556
QCSD03
Const# 452

HS201556
QCSD01
Const# 447

HS201556
VI24
Const# 442

HS201556
VI23
Const# 439

HS201556
JS02
Const#

HS201556
KIO1
Const# 482

HS201556
JS02
Const#

HS201556
KIO1
Const# 482

Chlorophyll Data Sheet

Cruise: 2015-56

Page: 2 of 3

Dates of Cruise:

Time and date acetone added: 1:40 pm 20 Jan 16

Analyst: Tamarz

Time and date out of freezer: 12:15 pm 21 Jan 16

Time analysis started: 1:15 pm 21 Jan 16

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	12.132			
STD			HIGH	4-	66.068			
Blank				6-	0.011	8-	0.010	
								DF?
380	VI 08	330	10	1-	141.328	2-	77.235	X
315	LJS 05		10	3-	12.597	4-	8.717	X
?	VI 15		10	5-	108.856	6-	59.576	X
354	CS 13		10	7-	10.277	8-	5.838	X
385	VI 11		10	1-	277.213	2-	148.547	X
348	CS 09		10	3-	42.253	4-	27.539	X
323	JF 01		10	5-	28.059	6-	17.254	X
290	QCST 13		10	7-	31.905	8-	19.602	X
278	QCST 09		10	1-	27.357	2-	17.346	X
008	SOG 33		10	3-	115.266	4-	6.779	X
327	JF 03		10	5-	48.157	6-	28.875	X
275	QCST 08		10	7-	26.359	8-	16.607	X
375	VI 05		10	1-	14.477	2-	8.621	X
310	LJS 02		10	3-	12.712	4-	8.704	X
293	QCST 14		10	5-	40.550	6-	24.819	X
253	DI 03		10	7-	18.815	8-	11.905	X
385	VI 11		10	1-	265.993	2-	145.068	X
006	SOG 30		10	3-	91.844	4-	55.532	X
006	SOG 30		10	5-	46.747	6-	28.049	X
414	EP 05		10	7-	102.347	8-	62.426	X
348	CS 09		10	1-	18.133	2-	11.087	X
414	EP 05		10	3-	17.2	4-	10.510	X
				5-	(not calculated)	6-		
394	IV 01		10	7-	21.413	8-	14.429	X
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

HS-2015-56
VI08
CONS # 380

2015-56
LJS 05
CONS#315

HS2015-56
VI15
CONS#

HS2015-56
CS13
CONS# 354

HS2015-56
VI11
CONS# 385

HS2015-56
CS09
CONS# 318

2015-56
JF01
CONS# 323

2015-56
QCST13
CONS# 290

2015-56
QCST09
CONS# 278

IOS 2015-56
SOG33
COPRA North Basin
CONS# 008

HS2015-56
JF03
CONS# 327

2015-56
QCST08
CONS# 275

HS 2015-56
VI05
CONS # 375

2015-56
LJS02
CONS# 310

2015-56
QCST 14
CONS# 293

2015-56
DI03
CONS# 253

HS2015-56
VI11
CONS# 385

IOS 2015-56
SOG30
CONS# 006

HS2015-56
JF03
CONS# 327

IOS 2015-56
SOG30
CONS# 006

HS2015-56
EP05
CONS # 414

HS2015-56
CS09
CONS# 318

HS2015-56
EP05
CONS# 414

HS2015-56
VI101
CONS# 394

Chlorophyll Data Sheet

Cruise: H52015-56

Page: 3 of 3

Dates of Cruise:

Time and date acetone added: 3:35pm 20 Jan 15

Analyst: KS

Time and date out of freezer: 1:40pm 21 Jan 15

Time analysis started: 14:12 21 Jan 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1--0.024				changed system
STD			LOW	2- 12.104				clock before sample 332
STD			HIGH	4- 65.955				
Blank				6- 0.007		8- 0.006		
								DF?
332	JF05	330	10	1- 8274	63.330	2-	39.348	
416	EP04			3-	39.260	4-	27.937	
307	LV501			5-	20.996	6-	13.375	
426	VI16			7-	55.338	8-	32.533	
332	JF05			1-	65.452	2-	40.514	
not written	VI15			3-	106.143	4-	58.816	
281	QCST10			5-	39.550	6-	24.874	
346	CS08			7-	29.878	8-	20.350	
434	VI21			1-	62.790	2-	35.061	
429	VI17			3-	30.020	4-	17.466	
293	QCST114			5-	41.634	6-	26.128	
304	BA05			7-	36.001	8-	22.741	
272	QCST07			1-	25.857	2-		forgot to record Ra
346	CS08			3-	27.376	4-	19.201	Sorry!
261	QCST03			5-	61.341	6-	38.067	
334	CS01			7-	23.893	8-	14.157	
288	QCST12			1-	22.642	2-	13.844	
340	CS05			3-	17.722	4-	12.1	From Flux display. Did
354	CS13			5-	9.634	6-	5.768	not record
426	VI16			7-	57.679	8-	30.906	
429	VI17			1-	29.734	2-	16.832	
361	CS18			3- 8314	8.889	4- 8316	6.184	disregard 3-8315
380	VI08			5-	137.466	6-	77.20	
275	QCST08			7-	26.476	8-1	16.290	
334	CS01	V		1-	22.285	2-	13.614	
Stand-by				1-	-0.021			
Std	Low			2-	12.122			
Std	High			4-	65.616			
Blank	by			6-	0.018	8- 0.019		



HS2015-56 JF05 CONS# 332	HS2015-56 EP04 CONS# 416	2015-56 LJS01 CONS# 307	HS201556 VI16 CONS# 426
HS2015-56 JF05 CONS# 332	HS2015-56 VI15 CONS#	2015-56 QCST10 CONS# 281	HS2015-56 CS08 CONS# 346
HS201556 VF 21 CONS# 434	HS201556 VI17 CONS# 429	2015-56 QCST14 CONS# 293	2015 56 BA05 CONS# 304
2015-56 QCST5 CONS# 22	HS2015-56 CS08 CONS# 346	2015-56 QCST08 CONS# 261	HS2015-56 CS01 CONS# 334
2015-56 QCST12 CONS# 288	HS2015-56 CS05 CONS# 340	HS2015-56 CS13 CONS# 354	HS201556 VI16 CONS# 426
HS201556 VI17 CONS# 429	HS2015-56 CS18 CONS# 361	HS 2015-56 VI08 CONS# 380	2015-56 QCST08 CONS# 275

HS2015-56
CS01
CONS# 334

Chlorophyll Data Sheet

Cruise:

Page: 1 of 3

Dates of Cruise:

Time and date acetone added: 11:10 am 21 Jan 16 Analyst: Tamar

Time and date out of freezer: 10:10 am 22 Jan 16

Time analysis started: 11:18 am 22 Jan 16

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.019			
STD			LOW	2-	12.187			
STD			HIGH	4-	65.975			
Blank	in wrong order			6-	0.008	8-	0.005	
								DF?
422	EP02	330	10	1-	118.337	2-	65.327	X
310	LJSD2		10	3-	13.162	4-	8.795	X
422	EP02		10	5-	109.318	6-	60.477	X
372	VI04		10	7-	19.307	8-	11.251	X
304	BA05		10	1-	37.333	2-	22.931	X
290	QCST13		10	3-	33.236	4-	20.139	X
340	CS05		10	5-	16.951	6-	10.439	X
398	IVI03		10	7-	57.835	8-	33.484	X
375	VI05		10	1-	15.351	2-	9.153	X
365	VI01		10	3-	73.626	4-	42.544	X
372	VI04		10	5-	23.413	6-	13.624	X
307	LVS01		10	7-	22.820	8-	14.121	X
300	BA03		10	1-	47.219	2-	29.189	X
255	QCST01		10	3-	21.281	4-	13.767	X
419	EP03		10	5-	37.128	6-	21.540	X
361	CS18		10	7-	8.614	8-	6.172	X
323	JF01		10	1-	28.359	2-	17.344	X
278	QCST09		10	3-	25.202	4-	15.894	X
296	BA01		10	5-	51.902	6-	31.789	X
267	QCST05		10	7-	30.239	8-	19.245	X
296	BA01		10	1-	51.378	2-	31.564	X
008	SG33		10	3-	108.604	4-	64.775	X
264	QCST04		10	5-	47.738	6-	28.993	X
253	DJ03		10	7-	17.236	8-	11.075	X
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

HS201556
EP 02
const# 422

2015-56
LJS02
const# 310

HS201556
EP 02,
const# 422

HS2015-56
VIO4
const# 372

2015-56
BA05
const# 304

2015-56
QCST13
const# 290

HS2015-56
CS05
const# 340

HS201556
VIO3
const# 398

HS2015-56
VIO5
const# 375

HS2015-56
VIO1
const# 365

HS2015-56
VIO4
const# 372

2015-56
LJS01
const# 307

2015-56
BA03
const# 300

2015-56
QCST01
const# 255

HS201556
EP03
const# 419

HS2015-56
CS18
const# 361

2015-56
JFO1
const# 323

2015-56
QCST09
const# 278

2015-56
BA01
const# 296

2015-56
QCST05
const# 267

2015-56
BA01
const# 296

IOS 2015-56
SOG33
copra north basin
const# 003

2015-56
QCST04
const# 264

2015-56
DIO3
const# 253

Chlorophyll Data Sheet

Cruise:

Page: 2 of 3

*365 - VIO1

Dates of Cruise:

Time and date acetone added: 1:05pm 21 Jan 16

Analyst: Tamarz did get Acetone until 22 Jan 16

Time and date out of freezer: 1:15pm 22 Jan 16

Time analysis started: 2:15pm 22 Jan 16

@ 1:15pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.022			
STD			LOW	2-	12.023			
STD			HIGH	4-	65.446			
Blank				6-	0.004	8-	0.002	DF?
419	EP03	330	10	1-	41.482	2-	24.285	X
270	QCST06		10	3-	19.927	4-	12.737	X
394	IVIO1		10	5-	22.236	6-	14.889	X
264	QCST04		10	7-	49.810	8-	30.780	X
398	IVIO3		10	1-	56.914	2-	32.778	X
258	QCST02		10	3-	29.096	4-	18.810	X
255	QCST01		10	5-	20.312	6-	12.975	X
410	EP06		10	7-	17.970	8-	11.234	X
319	LJS07		10	1-	15.463	2-	10.422	X
365	VIO1		10	3-	70.410	4-	40.662	X *see note above
272	QCST07		10	5-	24.432	6-	15.562	X
270	QCST06		10	7-	20.674	8-	13.289	X
267	QCST05		10	1-	30.751	2-	19.422	X
288	QCST12		10	3-	23.289	4-	13.932	X
261	QCST03		10	5-	60.355	6-	36.696	X
407	EP07		10	7-	17.541	8-	11.098	X
284	QCST11		10	1-	26.335	2-	16.501	X
284	QCST11		10	3-	27.058	4-	17.076	X
319	LJS07		10	5-	14.034	6-	9.445	X
368	VIO2		10	7-	65.608	8-	38.206	X
368	VIO2		10	1-	36.565	2-	22.861	X
300	BAD3		10	3-	45.049	4-	28.611	X
416	EP04		10	5-	38.976	6-	23.168	X
410	EP06		10	7-	18.106	8-	11.384	X
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

HS201556
EP03
CONS# 419

2015-56
QCST06
CONS# 270

HS201556
VIO1
CONS# 394

2015-56
QCST04
CONS# 264

HS201556
VIO3
CONS# 398

2015-56
QCST02
CONS# 258

2015-56
QCST01
CONS# 255

HS201556
EP 06
CONS# 410

2015-56
LJS 07
CONS# 319

HS 2015-56
VIO1
CONS# 365

2015-56
QCST05
CONS# 272

2015-56
QCST06
CONS# 276

2015-56
QCST05
CONS# 267

2015-56
QCST12
CONS# 288

2015-56
QCST03
CONS# 261

HS2015-56
EP07
CONS# 407

2015-56
QCST11
CONS# 284

2015-56
QCST11
CONS# 284

2015-56
LJS07
CONS# 319

HS2015-56
VIO2
CONS# 368

HS2015-56
VIO2
CONS# 368

2015-56
BA03
CONS# 300

HS2015-56
EP04
CONS# 416

HS 2015 56
EP 06
CONS# 410

Chlorophyll Data Sheet

Cruise: 2015-56

Page: 3 of 3

Dates of Cruise:

Time and date acetone added: January 21, 2016 @ 14:20 Analyst: Tamar

Time and date out of freezer: 2:15pm 22 Jan 16

Time analysis started: 3:20pm 22 Jan 16

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.020			
STD			LOW	2-	12.033			
STD			HIGH	4-	65.416			
Blank				6-	0.002	8-	-0.001	DF?
315	LJ505	330	10	1-	13.433	2-	9.270	X
404	VI07		10	3-	135.324	4-	78.182	X
434	VI27		10	5-	67.475	6-	38.280	X
407	EP07		10	7-	16.375	8-	10.269	X
258	QEST02		10	1-	31.676	2-	20.850	X
281	QCSTD1		10	3-	35.488	4-	22.081	X
404	VI07		10	5-	155.068	6-	91.087	X
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-	-0.021			
Std	Low			2-	12.037			
Std	High			4-	65.435			
Blank	by			6-	0.000	8-	0.000	

2015-56
LJS05
CONS# 315

HS201556
IVI 07
CONS# 404

HS201556
VI 21
CONS# 434

HS2015-56
EPO7
CONS# 407

2015-56
QCST02
CONS# 258

2015-56
QCST10
CONS# 281

HS201556
INI07
CONS# 404