

Chlorophyll Data Sheet

Cruise: 2015-54

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267B leaked ~ 1ml acetone

Dates of Cruise:

Time and date acetone added: 11:40 a.m. 30 Dec 15

Analyst: Tamariz

Time and date out of freezer: 8:40 a.m. 1 Dec 15

Time analysis started: 9:45 a.m. 1 Dec 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	- 0.016			
STD			LOW	2-	12.357			
STD			HIGH	4-	67.236			
Blank				6-	0.007	8-	0.005	
25A	SC74	330	10	1-7	24.170	2-8	15.166	
96B	DOUG 31		10	3-	16.854	4-	10.629	
115B	FOC 2		10	5-	7.506	6-	5.226	
133B	DOUG 16		10	7-	12.458	8-	8.189	
147A	DOUG 11		10	1-	6.100	2-	4.507	
191B	KSK 1		10	3-	18.422	4-	11.126	
191A	KSK 2		10	5-	19.879	6-	11.962	
237B	DOUG 45		10	7-	11.457	8-	8.526	
236B	DOUG 45		10	1-	10.277	2-	7.641	
276B	AP 11		10	3-	9.087	4-	5.886	
94B	DOUG 31		10	5-	11.248	6-	8.077	
146B	DOUG 11		10	7-	5.587	8-	4.427	
117B	FOC 2		10	1-	21.068	2-	12.647	
146A	DOUG 11		10	3-	5.474	4-	4.332	
216B	SC 61		10	5-	38.676	6-	22.947	
267B	AP 9		10	7-	5.699	8-	4.567	
290A	WS 12		10	1-	11.879	2-	9.268	
168A	DOUG 4		10	3-	3.829	4-	2.940	
93A	DOUG 31		10	5-	11.623	6-	8.015	
80B	DOUG 26		10	7-	11.709	8-	8.484	
189B	KSK 1		10	1-	12.926	2-	8.685	
216A	SC 61		10	3-	35.114	4-	20.867	
236A	DOUG 45		10	5-	11.124	6-	8.556	
268A	AP 9		10	7-	9.223	8-	6.164	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

25 <i>A</i>	96 <i>B</i>	115 <i>B</i>	133 <i>B</i>	147	191 <i>B</i>	191 <i>A</i>	237 <i>B</i>
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
SC74	DOUG31	FOC1	DOUG16	DOUG16	KSK1	KSK1	Doug45
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 11	Bot 11	Bot 21	Bot 15	Bot 12 <i>A</i>	Bot 17	Bot 17	Bot 13

236 <i>B</i>	276 <i>B</i>	94 <i>B</i>	146	117 <i>B</i>	146	216 <i>B</i>	267
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Doug45	AP11	DOUG31	DOUG16	FOC1	DOUG16	SC61	AP9
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 12	Bot 7	Bot 9	Bot 11 <i>B</i>	Bot 23	Bot 11 <i>A</i>	Bot 23	Bot 7 <i>B</i>

290 <i>A</i>	168	93 <i>A</i>	80 <i>B</i>	189 <i>B</i>	216 <i>A</i>	236 <i>A</i>	268
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
WS12	DOUG4	DOUG31	DOUG26	KSK1	SC61	Doug45	AP9
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 11	Bot 17 <i>A</i>	Bot 8	Bot 12	Bot 15	Bot 23	Bot 12	Bot 8 <i>A</i>

Chlorophyll Data Sheet

Cruise: 2015-54

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Dates of Cruise:

Time and date acetone added: 2:35 pm 30 Nov 15

Analyst: Tamara

Time and date out of freezer: 12 pm 1 Dec 15

Time analysis started: 1:08 pm 1 Dec 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.019			
STD			LOW	2-	12.157			
STD			HIGH	4-	66.136			
Blank				6-	0.009	8-	0.068	
80A	DOUG 26	330	10	1-	11.896	2-	8.842	
170B	DOUG 4		10	3-	6.710	4-	4.354	
188B	KSK 1		10	5-	11.102	6-	8.132	
292B	WS12		10	7-	30.064	8-	18.212	
13A	SOGN14		10	1-	28.908	2-	16.929	
291B	WS12		10	3-	1.299	4-	0.874	
13B	SOGN14		10	5-	34.467	6-	19.974	filter stuck on side of vial
269B	AP9		10	7-	63.519	8-	35.354	
24A	SC74		10	1-	17.739	2-	11.765	
296B	DOUG 02		10	3-	4.071	4-	2.693	
41B	CS84		10	5-	19.933	6-	13.094	
290B	WS12		10	7-	10.031	8-	7.650	
189A	KSK 1		10	1-	11.349	2-	7.647	
277B	APII		10	3-	45.445	4-	26.062	
81B	DOUG 26		10	5-	10.361	6-	6.723	
276A	APII		10	7-	7.410	8-	4.590	
40B	CS84		10	1-	17.280	2-	11.476	
295B	DOUG 0.2		10	3-	1.887	4-	1.506	
93B	DOUG 31		10	5-	11.476	6-	8.159	
277A	APII		10	7-	44.607	8-	26.330	
58A	HEC1		10	1-	24.144	2-	14.391	
212A	SC61		10	3-	12.063	4-	7.894	
172B	DOUG 4		10	5-	29.311	6-	16.778	
239A	DOUG 45		10	7-	19.776	8-	11.858	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

80 A
CHL
DOUG26
2015-54
Bot 12

170
CHL
DOUG4
2015-54
Bot 19
B

188 B
CHL
KSK1
2015-54
Bot 14

292 B
CHL
WS12
2015-54
bot 13

13 A
CHL
SOGN14
2015-54
Bot 13

291 B
CHL
WS12
2015-54
bot 12

13 B
CHL
SOGN14
2015-54
Bot 13

269
CHL
AP9
2015-54
Bot 9

24 A
CHL
SC74
2015-54
Bot 10

296 B
CHL
DOUG0.2
2015-54
Bot 4

41 B
CHL
CS84
2015-54
Bot 9

290 B
CHL
WS12
2015-54
bot 11

189 A
CHL
KSK1
2015-54
Bot 15

277 B
CHL
AP11
2015-54
Bot 8

81 B
CHL
DOUG26
2015-54
Bot 13

276 A
CHL
AP11
2015-54
Bot 7

40 B
CHL
CS84
2015-54
Bot 8

295 B
CHL
DOUG0.2
2015-54
Bot 3

93 B
CHL
DOUG31
2015-54
Bot 8

277 A
CHL
AP11
2015-54
Bot 8

58 A
CHL
HEC1
2015-54
Bot 15

212 A
CHL
SC61
2015-54
Bot 19

172
CHL
DOUG4
2015-54
Bot 21
B

239 A
CHL
Doug45
2015-54
Bot 15

Chlorophyll Data Sheet

Cruise: 2015-54

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Dates of Cruise:

Time and date acetone added: 445 pm 30 Nov 15

Analyst:

218B leaked ~ 1ml acetone
Tanner

Time and date out of freezer: 2115pm 01 Dec 15

Time analysis started: 3:25pm 01 Dec 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	12.138			
STD			HIGH	4-	65.917			
Blank				6-	0.003	8-	0.001	
148B	DOUG11	330	10	1-	32.179	2-	18.178	
170A	DOUG4		10	3-	7.145	4-	4.776	
147B	DOUG11		10	5-	6.130	6-	4.562	
214A	SC61		10	7-	28.623	8-	17.321	
54B	HEC1		10	1-	29.614	2-	18.306	
117A	FDC1		10	3-	19.408	4-	11.438	
133A	DOUG16		10	5-	11.559	6-	7.456	
115A	FDC1		10	7-	7.135	8-	4.800	
212B	SC61		10	1-	14.836	2-	9.813	
267A	AP9		10	3-	5.321	4-	4.351	
268B	AP9		10	5-	8.577	6-	5.461	
275A	API1		10	7-	5.014	8-	3.716	
295A	DOUG0.2		10	1-	1.728	2-	1.280	
292A	WS12		10	3-	31.386	4-	18.880	
291A	WS12		10	5-	18.987	6-	12.746	
269A	AP9		10	7-	63.832	8-	35.367	
275B	API1		10	1-	6.129	2-	4.945	
237A	DOUG45		10	3-	10.187	4-	7.595	
214B	SC61		10	5-	28.688	6-	17.239	
11A	SOGN14		10	7-	24.586	8-	15.945	
130A	DOUG16		10	1-	6.837	2-	4.802	
113A	FDC1		10	3-	9.438	4-	6.721	
131B	DOUG16		10	5-	5.487	6-	3.712	
131A	DOUG16		10	7-	7.088	8-	5.300	
Stand-by				1-	-0.020			
Std	Low			2-	12.172			
Std	High			4-	65.941			
Blank	by			6-	0.008	8-	0.008	

148 CHL DOUG1 2015-54 Bot 13 B	170 CHL DOUG4 2015-54 Bot 19 A	147 CHL DOUG1 2015-54 Bot 12 B	214 A CHL SC61 2015-54 Bot 21	54 B CHL HEC1 2015-54 Bot 11	117 A CHL FOC1 2015-54 Bot 23	133 A CHL DOUG16 2015-54 Bot 15	115 A CHL FOC1 2015-54 Bot 21
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212 B CHL SC61 2015-54 Bot 19	267 CHL AP9 2015-54 Bot 7 A	268 CHL AP9 2015-54 Bot 8 B	275 A CHL AP11 2015-54 Bot 6	295 A CHL DOUG0.2 2015-54 Bot 3	292 A CHL WS12 2015-54 bot 13	291 A CHL WS12 2015-54 bot 12	269 CHL AP9 2015-54 Bot 9 A
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275 B CHL AP11 2015-54 Bot 6	237 A CHL Doug45 2015-54 Bot 13	214 B CHL SC61 2015-54 Bot 21	11A CHL SOGN14 2015-54 Bot 11	130 A CHL DOUG16 2015-54 Bot 12	113 A CHL FOC1 2015-54 Bot 19	131 B CHL DOUG16 2015-54 Bot 13	131 A CHL DOUG16 2015-54 Bot 13
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Chlorophyll Data Sheet

Cruise: 2015-54

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292B leaked ~ 0.5ml acetone

Dates of Cruise:

Time and date acetone added: 11:30am 01 Dec 15 Analyst: Tamarac

Time and date out of freezer: 9:40am 02 Dec 15

Time analysis started: 10:45am 02 Dec 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.016			
STD			LOW	2-	12.340			
STD			HIGH	4-	56.038 ??			unusually low.
Blank				6-	0.009	8-	0.006	wiped = kin wip ran high std again
					66.775			
94A	DOUG31	330	10	1-	11.488	2-	8.324	
81A	DOUG26		10	3-	11.376	4-	7.208	
24B	SC74		10	5-	19.241	6-	13.094	
56B	HEC1		10	7-	29.388	8-	17.893	
11B	SOGN14		10	1-	26.281	2-	17.303	
10A	SOGN14		10	3-	25.958	4-	16.833	
56A	HEC1		10	5-	29.267	6-	17.678	
26A	SC74		10	7-	24.358	8-	15.113	
188A	KSK1		10	1-	13.045	2-	9.952	
168B	DOUG4		10	3-	3.735	4-	2.861	
54A	HEC1		10	5-	29.606	6-	18.451	
40A	CS84		10	7-	20.204	8-	13.969	
58B	HEC1		10	1-	26.956	2-	15.912	
83A	DOUG26		10	3-	19.732	4-	11.929	
41A	CS84		10	5-	24.123	6-	15.635	
25B	SC74		10	7-	24.319	8-	15.588	
10B	SOGN14		10	1-	26.477	2-	17.885	
26B	SC74		10	3-	23.798	4-	14.907	
43B	CS84		10	5-	30.075	6-	18.766	
43A	CS84		10	7-	29.928	8-	18.974	
96A	DOUG31		10	1-	16.131	2-	10.199	
83B	DOUG26		10	3-	18.133	4-	11.238	
148A	DOUG11		10	5-	32.306	6-	18.4 18.248	
113B	FDC1		10	7-	12.105	8-	9.473	
Stand- by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

94 A	81 A	24 B	56 B	11 B	10 A	56 A	26
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
DOUG31	DOUG26	SC74	HEC1	SOGN14	SOGN14	HEC1	SC74
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 9	Bot 13	Bot 10	Bot 13	Bot 11	Bot 10	Bot 13	Bot 13 12

188 A	168	54 F	40 A	58 B	83 A	41 A	25 B
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
KSK1	DOUG4	HEC1	CS84	HEC1	DOUG26	CS84	SC74
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 14	Bot 17 B	Bot 11	Bot 8	Bot 15	Bot 15	Bot 9	Bot 11

10 B	26 B	43 B	43 A	96 A	83 B	148	113 B
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
SOGN14	SC74	CS84	CS84	DOUG31	DOUG26	DOUG14	FOC1
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 10	Bot 13 12	Bot 11	Bot 11	Bot 11	Bot 15	Bot 13 A	Bot 19

Chlorophyll Data Sheet

Cruise: 2015-54

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Dates of Cruise:

Time and date acetone added: 1:15pm 01 Dec 15 Analyst: Tamar

Time and date out of freezer: 12:08pm 02 Dec 15

Time analysis started: 1:08pm 02 Dec 15

315 B 2 filters - both very brown

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.020			
STD			LOW	2-	12.145			
STD			HIGH	4-	66.181			
Blank				6-	0.007	8-	0.005	
130B	DOUG 16	330	10	1-	8.534	2-	6.639	
239B	DOUG 45		10	3-	21.700	4-	13.240	
172A	DOUG 4		10	5-	30.705	6-	18.281	
519A	GC 29		10	7-	3.920	8-	2.794	
336B	DOUG 3		10	1-	14.802	2-	9.385	
470B	VP 36		10	3-	7.356	4-	5.089	
334B	DOUG 3		10	5-	1.460	6-	1.096	
494A	UC 43		10	7-	3.742	8-	2.821	
313A	DOUG 1		10	1-	5.993	2-	4.019	
495B	UC 43		10	3-	3.686	4-	2.655	
458A	VP 42		10	5-	4.855	6-	3.750	
372B	GRC 6		10	7-	40.289	8-	24.035	
485B	UC 45		10	1-	5.739	2-	4.447	
336A	DOUG 3		10	3-	14.882	4-	9.365	
485A	UC 45		10	5-	6.353	6-		forgot read Ra
315B	DOUG 1		10	7-	29.235	8-	18.036	2 filters - both brown
506B	VP 26		10	1-	3.608	2-	2.852	
304B	DOUG 2.4		10	3-	1.610	4-	1.189	
459A	VP 42		10	5-	14.283	6-	9.159	
378A	GRC 16		10	7-	19.313	8-	12.691	
448A	WC 50		10	1-	4.493	2-	3.767	
323A	DOUG 2		10	3-	1.917	4-	1.490	
460B	VP 42		10	5-	14.323	6-	9.093	
393B	GRC 41		10	7-	15.849	8-	10.421	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

130 B CHL DOUG16 2015-54 Bot 12	239 B CHL Doug45 2015-54 Bot 15	172 CHL DOUG4 2015-54 Bot 21 A	519 CHL GC29 2015-54 Bot 9 A	336 B CHL DOUG3 2015-54 Bot 9	470 CHL VP36 2015-54 Bot 9 B	334 B CHL DOUG3 2015-54 Bot 7	494 CHL UC43 2015-54 Bot 6 A
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313 A CHL DOUG1 2015-54 Bot 9	495 CHL UC43 2015-54 Bot 7 B	458 CHL VP42 2015-54 Bot 8 A	372 CHL GRC6 WS6 2015-54 Bot 10 B	485 CHL UC45 2015-54 Bot 12 B	336 A CHL DOUG3 2015-54 Bot 9	485 CHL UC45 2015-54 Bot 12 A	315 B CHL DOUG1 2015-54 Bot 11
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506 CHL VP26 2015-54 Bot 9 B	304 B CHL DOUG0.4 2015-54 Bot 5	459 CHL VP42 2015-54 Bot 9 A	378 A CHL GRC16 2015-54 Bot 6	448 CHL WC50 2015-54 Bot 6 A	323 A CHL DOUG2 2015-54 Bot 7	460 Chl VP42 2015-54 Bot 10	393 B CHL GRC41 2015-54 Bot 6
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Chlorophyll Data Sheet

Cruise: 2015-54

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Dates of Cruise:

Time and date acetone added: 01 Dec 15 3:30 pm

Analyst: Tamara

Time and date out of freezer: 2 pm 02 Dec 15

Time analysis started: 3 pm 02 Dec 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.020			
STD			LOW	2-	12.204			
STD			HIGH	4-	66.269			
Blank				6-	0.006	8-	0.005	
459B	VP42	330	10	1-	14.823	2-	9.371	
370B	GRC6		10	3-	7.078	4-	5.447	
458B	VP42		10	5-	4.919	6-	3.786	
296A	DOUG02		10	7-	4.218	8-	2.741	
370A	GRC6		10	1-	6.005	2-	4.290	
312B	DOUG1		10	3-	2.253	4-	1.783	
518B	GRC29		10	5-	2.565	6-	1.855	
297A	DOUG02		10	7-	12.802	8-	8.414	
506A	VP26		10	1-	3.650	2-	2.883	} sample ok + missed a sample in here somewhere or was it two RA's?
472B	VP36		10	3-	15.027	4-	9.622	
470A	VP36		10	5-	7.113	6- did not read	6.354	
385B	GRC27		10	7-	6.354	8- did not read	6.354	
450B	WC50		10	1-7	9.454	2-8	5.868	
362A	WS4		10	3-	14.812	4-	8.982	
385A	GRC27		10	5-	6.709	6-	5.074	
304A	DOUG04		10	7-	2.244	8-	1.780	
507A	VP26		10	1-	4.516	2-	3.336	
392A	GRC41		10	3-	9.843	4-	6.740	
508B	VP26		10	5-	13.276	6-	8.354	
392B	GRC41		10	7-	10.045	8-	6.907	
471A	VP36		10	1-	7.252	2-	4.619	
360B	WS4		10	3-	8.719	4-	6.383	
449A	WC50		10	5-	5.442	6-	4.129	
305A	DOUG04		10	7-	5.748	8-	3.668	
Stand-by				1-	-0.018			
Std	Low			2-	12.210			
Std	High			4-	65.993			
Blank	by			6-	0.006	8-	0.006	

459	370	458	296A	370	312B	518	297A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
VP42	WS6	VP42	DOUG0.2	WS6	DOUG1	GC29	DOUG0.2
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 9	Bot 8	Bot 8	Bot 4	Bot 8	Bot 4	Bot 8	Bot 5
B	B	B		A		B	

506	472	470	385B	450	362A	385A	304A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
VP26	VP36	VP36	GRC27	WC50	WS4	GRC27	DOUG0.4
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 9	Bot 11	Bot 9	Bot 7	Bot 8	Bot 13	Bot 7	Bot 5
A	B	A		B			

507	392A	508	392B	471	360B	449	305A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
VP26	GRC41	VP26	GRC41	VP36	WS4	WC50	DOUG0.4
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 10	Bot 5	Bot 11	Bot 5	Bot 10	Bot 11	Bot 7	Bot 6
A		B		A		A	

Chlorophyll Data Sheet

Cruise:

2015-54

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Dates of Cruise:

Time and date acetone added: 02 Dec 15 10:44 am Analyst: Tamar

Time and date out of freezer: 03 Dec 15 08:55 am

Time analysis started: 1005 03 Dec 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.019			
STD			LOW	2-	12.302			
STD			HIGH	4-	66.732			
Blank				6-	0.007	8-	0.004	
496A	UC43	330	10	1-	20.074	2-	12.915	
386A	GRC27		10	3-	8.991	4-	6.371	
449B	WC50		10	5-	5.356	6-	4.152	
360A	WS4		10	7-	9.008	8-	6.585	
520B	GC29		10	1-	8.160	2-	5.054	
450A	WC50		10	3-	7.880	4-	5.165	
324B	DOUG2		10	5-	4433	6-	2.884	
361A	WS4		10	7-	11.518	8-	7.037	
305B	DOUG 0.4		10	1-	6.385	2-	4.224	
315A	DOUG1		10	3-	0.008	4-	0.007	no filter / no sample
494B	UC43		10	5-	3.557	6-	2.670	
297B	DOUG 0.2		10	7-	12.165	8-	8.131	
448B	WC50		10	1-	4.640	2-	3.921	
325A	DOUG2		10	3-	14.140	4-	8.928	
393A	GRC41		10	5-	16.008	6-	10.594	
323B	DOUG 2		10	7-	1.751	8-	1.319	
377A	GRC16		10	1-	11.136	2-	7.882	
376B	GRC16		10	3-	8.751	4-	6.476	
495A	UC43		10	5-	4.355	6-	3.429	
371B	GRC6		10	7-	11.1582	8-	7.940	
486A	UC45		10	1-	9.487	2-	6.609	
377B	GRC16		10	3-	11.077	4-	7.855	
394B	GRC41		10	5-	12.715	6-	8.670	
335A	DOUG3		10	7-	3.474	8-	2.344	
Stand- by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

496	386 <i>A</i>	449	360 <i>A</i>	520	450	324 <i>B</i>	361 <i>A</i>
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
UC43	GRC27	WC50	WS4	GC29	WC50	DOUG2	WS4
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 8	Bot 8	Bot 7	Bot 11	Bot 10	Bot 8	Bot 8	Bot 12
<i>A</i>		<i>B</i>		<i>B</i>	<i>A</i>		

305 <i>B</i>	315 <i>A</i>	494	297 <i>B</i>	448	325 <i>A</i>	393 <i>A</i>	323 <i>B</i>
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
DOUG0.4	DOUG1	UC43	DOUG0.2	WC50	DOUG2	GRC41	DOUG2
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 6	Bot <i>11</i>	Bot 6	Bot 5	Bot 6	Bot 9	Bot 6	Bot 7
		<i>B</i>		<i>B</i>			

377 <i>A</i>	376 <i>B</i>	495	371	486	377 <i>B</i>	394 <i>B</i>	335 <i>A</i>
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
GRC16	GRC16	UC43	<i>GRC6</i> -WS6	UC45	GRC16	GRC41	DOUG3
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 5	Bot 4	Bot 7	Bot 9	Bot 13	Bot 5	Bot 7	Bot 8
		<i>A</i>	<i>B</i>	<i>A</i>			

Chlorophyll Data Sheet

Cruise:

Page: 2 of 3

Dates of Cruise: 2015-54

Time and date acetone added: noon 02 Dec 15

Analyst: Tamar

Time and date out of freezer: noon 03 Dec 15

Time analysis started: 1115 03 Dec 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	12.126			
STD			HIGH	4-	66.176			
Blank				6-	0.005	8-	0.005	
325B	DOUG2	330	10	1-	15.312	2-	9.781	
313B	DOUG1		10	3-	6.043	4-	4.059	
334A	DOUG3		10	5-	1.830	6-	1.403	
346A	DOUG4		10	7-	4.213	8-	2.679	
347A	DOUG4		10	1-	7.000	2-	5.053	
345A	DOUG4		10	3-	1.814	4-	1.394	
372A	GRC6		10	5-	41.425	6-	24.622	
394A	GRC41		10	7-	13.840	8-	9.671	
362B	WS4		10	1-	15.166	2-	9.405	
376A	GRC16		10	3-	8.877	4-	6.587	
361B	WS4		10	5-	11.961	6-	7.532	
347B	DOUG4		10	7-	7.447	8-	5.302	
371A	GRC6		10	1-	11.089	2-	7.883	
345B	DOUG4		10	3-	1.757	4-	1.332	
312A	DOUG1		10	5-	1.862	6-	1.417	
306A	DOUG04		10	7-	13.194	8-	8.632	
386B	GRC27		10	1-	9.660	2-	6.757	
306B	DOUG04		10	3-	13.669	4-	8.979	
324A	DOUG2		10	5-	4.549	6-	3.055	
460A	VP42		10	7-	15.155	8-	9.665	
346B	DOUG4		10	1-	4.122	2-	2.683	
486B	UC45		10	3-	9.951	4-	6.912	
335B	DOUG3		10	5-	3.420	6-	2.266	
378B	GRC16		10	7-	18.492	8-	12.223	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

325^B
CHL
DOUG2
2015-54
Bot 9

313^B
CHL
DOUG1
2015-54
Bot 8⁹

334^A
CHL
DOUG3
2015-54
Bot 7

346^A
CHL
DOUG4
2015-54
Bot 8

347^A
CHL
DOUG4
2015-54
Bot 9

345^A
CHL
DOUG4
2015-54
Bot 7

372
CHL
GRC6
-WS6
2015-54
Bot 10
A

394^A
CHL
GRC41
2015-54
Bot 7

362^B
CHL
WS4
2015-54
Bot 13

376^A
CHL
GRC16
2015-54
Bot 4

361^B
CHL
WS4
2015-54
Bot 12

347^B
CHL
DOUG4
2015-54
Bot 9

371
CHL
GRC6
-WS6
2015-54
Bot 9
A

345^B
CHL
DOUG4
2015-54
Bot 7

312^A
CHL
DOUG1
2015-54
Bot 4

306^A
CHL
DOUG0.4
2015-54
Bot 7

386^B
CHL
GRC27
2015-54
Bot 8

306^B
CHL
DOUG0.4
2015-54
Bot 7

324^A
CHL
DOUG2
2015-54
Bot 8

460
CHL
VP42
2015-54
A
Bot 10

346^B
CHL
DOUG4
2015-54
Bot 8

486
CHL
UC45
2015-54
Bot 13
B

335^B
CHL
DOUG3
2015-54
Bot 8

378^B
CHL
GRC16
2015-54
Bot 6

Chlorophyll Data Sheet

Cruise: 2015-54

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Dates of Cruise:

Time and date acetone added: 02 Dec 15 22:5pm

Analyst:

5AB onwards
in A1 foli
Tamar

Time and date out of freezer: 1:15pm 03 Dec 15

Time analysis started: 2:20pm 03 Dec 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	12.126			
STD			HIGH	4-	65.944			
Blank				6-	0.008	8-		
487A	UC45	330	10	1-	17.399	2-	11.687	
471B	VP36		10	3-	8.167	4-	5.585	
472A	VP36		10	5-	15.377	6-	9.820	
487B	UC45		10	7-	16.867	8-	11.115	
508A	VP26		10	1-	13.301	2-	8.474	
507B	VP26		10	3-	4.745	4-	3.627	
496B	UC43		10	5-	20.092	6-	12.775	
* 519B	GC29		10	7-	4.282	8-	3.299	
603A	WC43		10	1-	3.639	2-	2.937	
562B	FOCI		10	3-	12.755	4-	7.598	
560B	FOCI		10	5-	3.775	6-	3.016	
562A	FOCI		10	7-	13.900	8-	8.407	8.347
604B	WC43		10	1-	5.267	2-	3.867	
574A	DOUG31		10	3-	3.148	4-	2.360	
573A	DOUG31		10	5-	3.422	6-	2.936	
589A	DOUG40		10	7-	11.964	8-	7.249	
604A	WC43		10	1-	4.555	2-	3.193	
605B	WC43		10	3-	12.179	4-	7.378	
520A	GC29		10	5-	7.584	6-	5.071	
578A	GC29		10	7-	3.017	8-	2.426	
561B	FOCI		10	1-	4.230	2-	3.049	
588B	DOUG40		10	3-	3.756	4-	2.987	
529A	DEC 22		10	5-	4.211	6-	3.096	
561A	FOCI		10	7-	3.503	8-	2.317	
589B	DOUG40		10		13.966		8.457	
Stand-by				1-	-0.021			
Std	Low			2-	12.128			
Std	High			4-	66.049			
Blank	by			6-	0.010	8-	0.008	

487	471	472	487	508	507	496	519
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
UC45	VP36	VP36	UC45	VP26	VP26	UC43	GC29
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 14	Bot 10	Bot 11	Bot 14	Bot 11	Bot 10	Bot 8	Bot 9
A	B	A	B	A	B	B	B

603	562	560	562	604	574	573	589
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
WC43	FOC1	FOC1	FOC1	WC43	DOUG31	DOUG31	DOUG40
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 13	Bot 13	Bot 11	Bot 13	Bot 14	Bot 11	Bot 10	Bot 13
A	B	B	A	B	A	A	A

604	605	520	518	561	588	529	561
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
WC43	WC43	GC29	GC29	FOC1	DOUG40	DEC22	FOC1
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 14	Bot 15	Bot 10	Bot 8	Bot 12	Bot 12	Bot 8	Bot 12
A	B	A	A	B	B	A	A

589
CHL
DOUG40
2015-54
Bot 13
B

Chlorophyll Data Sheet

Cruise: 2015-54

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Dates of Cruise:

Time and date acetone added: 05 Dec 15 1130am Analyst: Tamar

Time and date out of freezer: ~~1055am~~ 930am 04 Dec 15

Time analysis started: 1055am 04 Dec 15

all samples were in foil

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.020			
STD			LOW	2-	12.225			
STD			HIGH	4-	66.713			
Blank				6-	0.009	8-	0.007	
603B	WC43	330	10	1-	3.654	2-	2.961	
528A	DEC22		10	3-	3.829	4-	3.157	
573B	DOUG31		10	5-	3.473	6-	2.939	
588A	DOUG40		10	7-	3.852	8-	2.980	
574B	DOUG31		10	1-	3.731 3.725	1.747	2.965	
373B	DOUG4		10	3-	1.747	4-1.392	1.392	1.947 1.392
575A	DOUG31		10	5-	6.390	6-	4.045	
374A	DOUG4		10	7-	2.716	8-	1.881	
372B	DOUG4		10	1-	1.993	2-	1.722	
605A	WC43		10	3-	12.363	4-	7.836	
373A	DOUG4		10	5-	1.799	6-	1.444	
560A	FDC1		10	7-	3.640	8-	2.838	
528B	DEC22		10	1-	3.623	2-	2.920	
575B	DOUG31		10	3-	6.657	4-	4.352	
372A	DOUG4		10	5-	2.087	6-	1.780	
374B	DOUG4		10	7-	2.646	8-	1.813	
529B	DEC22		10	1-	4.742	2-	3.640	
587B	DOUG40		10	3-	3.623	4-	3.110	
530A	DEC22		10	5-	8.257	6-	5.103	
587A	DOUG40		10	7-	3.341	8-	2.860	
530B	DEC22		10	1-	8.686	2-	5.576	
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-	-0.020			
Std	Low			2-	12.166			
Std	High			4-	66.262			
Blank	by			6-	0.010	8-	0.008	

603	528	573	588	574	373	575	374
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
WC43	DEC22	DOUG31	DOUG40	DOUG31	Doug4	DOUG31	Doug4
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 13	Bot 7	Bot 10	Bot 12	Bot 11	Bot 10	Bot 12	Bot 11
B	A	B	A	B	B	A	A

372	605	373	560	528	575	372	374
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Doug4	WC43	Doug4	FOC1	DEC22	DOUG31	Doug4	Doug4
2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54	2015-54
Bot 9	Bot 15	Bot 10	Bot 11	Bot 7	Bot 12	Bot 9	Bot 11
B	A	A	A	B	B	A	B

529	587	530	587	530
CHL	CHL	CHL	CHL	CHL
DEC22	DOUG40	DEC22	DOUG40	DEC22
2015-54	2015-54	2015-54	2015-54	2015-54
Bot 8	Bot 11	Bot 9	Bot 11	Bot 9
B	B	A	A	B