

Chlorophyll Data Sheet

Cruise: 2016-09

Page: 1 of 1

Dates of Cruise: Kelly Young Salacia ongoing for 2016 22 Feb - 19 Aug

Time and date acetone added: 2:28pm 14 Apr 16

Analyst: Tamara

Time and date out of freezer: 12:18 pm 15 Apr 16

Time analysis started: 1:23 pm 15 Apr 16

acetone prepared 13 Apr 16

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.022			
STD			LOW	2-	12.103			
STD			HIGH	4-	65.389			
Blank		DEF (DP?)		6-	-0.021	8-acid	-0.0	
18B	28	3304	10	1-	146.509	2-	76.226	initial DEF? +10ml 1st before anal. DF=2
21B	GEO1	no DF	10	3-	21.687	4-	11.978	still too high so diluted
22A	GEO1	no DF	10	5-	141.371	6-	75.370	10ml of that soln + 10ml from dispenser; DF=4
25B	SC-04	no DF	10	7-	98.348	8-	51.214	
16B	11	DF=2	10	1-	159.848	2-	84.454	10ml initial + 10ml before anal.
18A	28	DF=4	10	3-	120.458	4-	62.653	same as for 18B
22B	GEO1	no DF	10	5-	93.953	6-	51.139	
19A	28	no DF	10	7-	43.284	8-	22.678	
15B	11	no DF	10	1-	112.633	2-	60.365	
24A	41	DF=4	10	3-1	190.260	4-2	99.572	same as for 18B
25A	SC-04	no DF	10	5-	104.755	6-	54.677	
24B	41	DF=4	10	7-	130.200	8-	68.115	same as for 18B
26B	SC-04	no DF	10	1- 68.008	159.156	2-	82.747	
16A	11	DF=2	10	3-	175.134	4-	92.676	same as for 16B
23B	41	no DF	10	5-	19.179	6-	10.544	
15A	11	no DF	10	7-	124.904	8-	66.721	
23A	41	no DF	10	1-	19.006	2-	10.645	
19B	28	no DF	10	3-	39.793	4-	20.969	
21A	GEO1	no DF	10	5-	25.890	6-	14.459	
26A	SC-04	no DF	10	7-	106.220	8-	55.983	
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-	-0.019			
Std	Low			2-	11.983			
Std	High			4-	65.562			
Blank	by			6-	-0.019	8-acid	-0.020	

18B

CHL

28

0m

2016-09

Bot 2

21B

CHL

GEO1

0m

2016-09

Bot 2

22A

CHL

GEO1

5m

2016-09

Bot 1

25B

CHL

SC-04

0m

2016-09

Bot 2

16B

CHL

11

5m

2016-09

Bot 1

18A1

CHL

28

0m

2016-09

Bot 2

22B

CHL

GEO1

5m

2016-09

Bot 1

19A

CHL

28

5m

2016-09

Bot 1

15B

CHL

11

0m

2016-09

Bot 2

24A

CHL

41

5m

2016-09

Bot 1

25A

CHL

SC-04

0m

2016-09

Bot 2

24B

CHL

41

5m

2016-09

Bot 1

26B

CHL

SC-04

5m

2016-09

Bot 1

16A

CHL

11

5m

2016-09

Bot 1

23B

CHL

41

0m

2016-09

Bot 2

15A

CHL

11

0m

2016-09

Bot 2

23A

CHL

41

0m

2016-09

Bot 2

19B0

CHL

28

5m

2016-09

Bot 1

25A

CHL

GEO1

0m

2016-09

Bot 2

26A

CHL

SC-04

5m

2016-09

Bot 1

Chlorophyll Data Sheet

Warm day
~ 22°C to 25°C

Cruise: 2016-09 Page: 1 of 1

Dates of Cruise: Feb 2016

Time and date acetone added: 18 Apr 16 3:45 pm

Analyst: Tamarz

Time and date out of freezer: 1:43 19 Apr 16

Time analysis started: 2:49 19 Apr 16

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	5.014 -0.021			
STD			LOW	2-	12.050			
STD			HIGH	4-	65.483			← fire drill for ~25 minutes
Blank				6-	-0.022	8-	-0.021	
								DF?
12B	11		10	1-	27.640	2-	16.966	x
5A	28		10	3-	22.988	4-	13.534	x
6A	28		10	5-	19.959	6-	12.844	x
8A	GEO1		10	7-	23.247	8-	13.568	x
3B	11		10	1-	37.369	2-	22.337	x
6B	28		10	3-	20.234	4-	12.674	x
5B	28		10	5-	28.883	6-	17.008	x
2A	11		10	7-	24.285	8-	15.098	x
8B	GEO1		10	1-	25.357	2-	14.868	x
3A	11		10	3-	33.654	4-	20.752	x
10B	41		10	5-	31.458	6-	17.709	x
12B	SC04		10	7-	15.708	8-	9.350	x
13B	SC04		10	1-	11.238	2-	6.728	x
12A	SC04		10	3-	15.256	4-	9.002	x
7A	GEO1		10	5-	20.186	6-	12.236	x
11A	41		10	7-	25.440	8-	14.868	x
11B	41		10	1-	27.572	2-	16.562	x
10A	41		10	3-	28.532	4-	16.021	x
13A	SC04		10	5-	11.859	6-	7.258	x
7B	GEO1		10	7-	20.891	8-	12.739	x
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-	-0.020			
Std	Low			2-	11.960			
Std	High			4-	65.021			
Blank	by			6-	-0.021	8-	-0.020	

2
B CHL
11
0m
2016-09
Bot 2

5
A CHL
28
0m
2016-09
Bot 2

6
A CHL
28
5m
2016-09
Bot 1

8
A CHL
GEO1
5m
2016-09
Bot 1

3
B CHL
11
5m
2016-09
Bot 1

6
B CHL
28
5m
2016-09
Bot 1

5
B CHL
28
0m
2016-09
Bot 2

2
A CHL
11
0m
2016-09
Bot 2

8
B CHL
GEO1
5m
2016-09
Bot 1

3
A CHL
11
5m
2016-09
Bot 1

10
B CHL
41
0m
2016-09
Bot 2

12
B CHL
SC-04
0m
2016-09
Bot 2

13
B CHL
SC-04
5m
2016-09
Bot 1

12
A CHL
SC-04
0m
2016-09
Bot 2

7
A CHL
GEO1
0m
2016-09
Bot 2

11
A CHL
41
5m
2016-09
Bot 1

11
B CHL
41
5m
2016-09
Bot 1

10
A CHL
41
0m
2016-09
Bot 2

13
A CHL
SC-04
5m
2016-09
Bot 1

7
B CHL
GEO1
0m
2016-09
Bot 2

20ml: 497B, 497A

Salacia

Chlorophyll Data Sheet

Cruise: 2016-09 May 2016 Page: 1 of 1

Dates of Cruise:

Time and date acetone added: 1:34 pm 07 June 2016 Analyst: Tamara

Time and date out of freezer: 11:40 am 08 June 2016

Time analysis started: 12:40 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.000			
STD			LOW	2-	12.007			
STD			HIGH	4-	65.056			
Blank				6-	0.004	8- acid	0.002	
41B	41	60	10	1-	9.837	2-	5.482	no DF ϕ m
41A	41	60	10	3-	10.790	4-	5.954	no DF ϕ m
37B	HB	60	10	5-	113.114	6-	67.401	no DF 5m
37A	HB	60	10	7-	92.833	8-	55.523	" "
38B	HB	60	10	1-	56.166	2-	30.888	" 0m
40B	41	60	10	3-	56.240	4-	31.141	" 5m
38A	HB	60	10	5-	52.335	6-	28.826	" 0m
34B	11	60	10	7-	199.266	8-	109.221	no DF 5m
35A	11	60	10	1-	113.939	2-	61.369	no DF ϕ m
40A	41	60	10	3-	52.491	4-	29.137	no DF 5m
34A	11	60	10	5-	204.637	6-	113.380	no DF 5m
35B	11	60	10	7-	122.516	8-	66.084	no DF ϕ m
27A	SC04	60	10	1-	14.394	2-	8.690	no DF 5m
30B	GEO1	60	10	3-	177.741	4-	94.893	no DF 5m
27B	SC04	60	10	5-	15.418	6-	9.134	no DF 5m
31B	GEO1	60	10	7-	60.806	8-	32.564	no DF ϕ m
28A	SC04	60	10	1-	14.384	2-	8.136	no DF ϕ m
30A	GEO1	60	10	3-	168.623	4-	90.072	no DF 5m
31A	GEO1	60	10	5-	66.666	6-	36.525	no DF ϕ m
28B	SC04	60	10	7-	21.881	8-	12.306	no DF ϕ m
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-	0.000			
Std	Low			2-	12.033			
Std	High			4-	64.652			
Blank	by			6-	0.006	8-	0.003	

41B CHL 41 Øm 2016-09 Bot 1 60mL	41A CHL 41 Øm 2016-09 Bot 1 60mL	37B CHL 28 5m 2016-09 Bot 1 60mL	37A CHL 28 5m 2016-09 Bot 1 60mL	38B CHL 28 Øm 2016-09 Bot 2 60mL	40B CHL 41 5m 2016-09 Bot 1 60mL	38A CHL 28 Øm 2016-09 Bot 2 60mL	34B CHL 11 5m 2016-09 Bot 1 60mL
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35A CHL 11 Øm 2016-09 Bot 1 60mL	40A CHL 41 5m 2016-09 Bot 1 60mL	34A CHL 11 5m 2016-09 Bot 1 60mL	35B CHL 11 Øm 2016-09 Bot 1 60mL	27A CHL SC-04 5m 2016-09 Bot 1 60mL	30B CHL 60mL 5m 2016-09 Bot 1 60mL	27B CHL SC-04 5m 2016-09 Bot 1 60mL	31B CHL GEO1 Øm 2016-09 Bot 1 60mL
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28A CHL SC-04 Øm 2016-09 Bot 2 60mL	30A CHL GEO1 5m 2016-09 Bot 1 60mL	31A CHL GEO1 Øm 2016-09 Bot 1 60mL	28B CHL SC-04 Øm 2016-09 Bot 2 60mL
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2016-47 chl
23 June 16

Chlorophyll Data Sheet

Cruise: 2016
2015-09

Page: 1 of 1

Dates of Cruise:

Time and date acetone added: 22 June 2016 3pm

Analyst: TF

Time and date out of freezer: 23 June 2016 12:55 pm

Time analysis started: 23 June 2016 2:35 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.000			
STD			LOW	2-	11.983			
STD			HIGH	4-	65.331			
Blank				6-	0.000	8-	0.001	
0m	42B	GEO1	140	10	16.595	2-	9.251	no DF
5m	40A	HB		10	56.352	4-	32.398	no DF (53)
0m	51B	11	140	10	16.285	6-	9.563	no DF
0m	43B	SC04	140	10	65.039	8-	36.579	no DF
0m	51A	11	140	10	11.940	2-	7.178	no DF
0m	43A	SC04	140	10	69.811	4-	39.042	no DF
5m	50A	11	140	10	24.873	6-	14.471	no DF
0m	41A	HB	140	10	69.046	8-	37.952	no DF (54)
5m	44A	41	140	10	6.033	2-	3.791	no DF
5m	44B	41	140	10	7.906	4-	4.918	no DF
5m	50B	11	140	10	15.176	6-	9.041	no DF
0m	45B	41	140	10	38.055	8-	21.925	no DF
0m	47A	47	140	10	19.596	2-	11.079	no DF
0m	45A	41	140	10	33.550	4-	19.069	no DF
5m	40B	HB	140	10	52.641	6-	30.707	no DF (53)
0m	41B	HB	140	10	62.948	8-	34.759	no DF (54)
5m	48B	GEO1	140	10	56.560	2-	33.034	no DF
5m	48A	GEO1	140	10	61.394	4-	35.603	no DF
5m	42B	SC04	140	10	76.675	6- 43.575	43.694	no DF
5m	42A	SC04	140	10	54.356	8-	30.544	no DF
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-	0.000			
Std	Low			2-	12.030			
Std	High			4-	65.109			
Blank	by			6-	0.003	8-	-0.000	

0 B 140m CHL GEO1 0m 2016-09 Bot 1 47	0 A CHL Halibank 28 5m 2016-09 Bot 1	1 B 140m CHL 11 0m 2016-09 Bot 2 51	43 1 B CHL SC-04 0m 2016-09 Bot 2 140m	1 A 140m CHL 11 0m 2016-09 Bot 2 51	43 1 CHL SC-04 0m 2016-09 Bot 2 140m	0 CHL 11 5m 2016-09 Bot 1 50	1 A CHL Halibank 28 0m 2016-09 Bot 2
0 A 140m CHL 41 5m 2016-09 Bot 1 44	0 B 140m CHL 41 5m 2016-09 Bot 1 44	0 B CHL 11 5m 2016-09 Bot 1 50	1 B 140m CHL 41 0m 2016-09 Bot 2 45	0 A 140m CHL GEO1 0m 2016-09 Bot 1 47	1 A 140m CHL 41 0m 2016-09 Bot 2 45	0 B CHL Halibank 28 5m 2016-09 Bot 1	1 B CHL Halibank 28 0m 2016-09 Bot 2
1 B 140m CHL GEO1 5m 2016-09 Bot 2 48	1 A 140m CHL GEO1 5m 2016-09 Bot 2 48	42 0 B CHL SC-04 5m 2016-09 Bot 1 140m	42 0 A CHL SC-04 5m 2016-09 Bot 1 140m				

Chlorophyll Data Sheet

Cruise: 2016-09 Page: 1 of 1

Dates of Cruise: 25-27 May

Time and date acetone added: 1156am 25 July 16

Analyst: Tarran

Time and date out of freezer: 11 10 am 26 July 16

Time analysis started: 1245pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.000			
STD			LOW	2-	12.075			
STD			HIGH	4-	65.107			
Blank				6-	-0.000	8-	-0.000	1st use of acetone prepared 26 July 16
66A	Halibank	60ml	10	1-	23.799	2-	12.705	no DF
65B	Halibank	60ml	10	3-	40.070	4-	21.745	no DF
65A	HB	60ml	10	5-	39.679	6-	21.695	no DF
67A	SC04	60ml	10	7-	36.292	8-	20.839	no DF
66B	HB	60ml	10	1-	23.794	2-	12.680	no DF
57B	41	60ml	10	3-	17.760	4-	9.572	no DF
67B	SC04	60ml	10	5-	45.576	6-	25.667	no DF
59A	GE01	60ml	10	7-	26.853	8-	14.890	no DF
58A	GE01	60ml	10	1-	54.121	2-	29.665	no DF
59B	GE01	60ml	10	3-	29.640	4-	16.119	no DF
62A	11	120ml	10	5-	35.587	6-	18.817	no DF
57A	41	60ml	10	7-	39.620	8-	21.478	no DF
68A	SC04	60ml	10	1-	57.099	2-	32.630	no DF
56A	41	60ml	10	3-	36.549	4-	21.285	no DF
61B	11	120ml	10	5-	70.112	6-	39.904	no DF
58B	GE01	60ml	10	7-	77.604	8-	42.038	no DF
62B	11	60ml	10	1-	35.774	2-	19.123	no DF
61A	11	120ml	10	3-	68.823	4-	39.142	no DF
68B	SC04	60ml	10	5-	50.179	6-	29.066	no DF
56B	41	60ml	10	7-	38.219	8-	22.787	no DF
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-	0.002			
Std	Low			2-	12.041			
Std	High			4-	65.177			
Blank	by			6-	0.004	8-	0.000	

60A
CHL
Halibut
bucy
0m
2016-09
Bot 2
60mL

65B
CHL
Halibut
bucy
5m
2016-09
Bot 1
60mL

65A
CHL
Halibut
bucy
5m
2016-09
Bot 1
60mL

67A
CHL
SC-04
5m
2016-09
Bot 1
60mL

60B
CHL
Halibut
bucy
0m
2016-09
Bot 2
60mL

57B
CHLa
41
0 m
2016-09
Bot 1
60mL

67B
CHL
SC-04
5m
2016-09
Bot 1
60mL

57A
CHLa
GEO1
0 m
2016-09
Bot 1
60mL

58A
CHLa
GEO1
5 m
2016-09
Bot 2
60mL

59B
CHLa
GEO1
0 m
2016-09
Bot 1
60mL

62A
CHLa
11
0 m
2016-09
Bot 1
120mL

57A
CHLa
41
0 m
2016-09
Bot 1
60mL

68A
CHL
SC-04
0m
2016-09
Bot 2
60mL

56A
CHLa
41
5 m
2016-09
Bot 2
60mL

61B
CHL
11
5m
2016-09
Bot 1
120mL

58B
CHLa
GEO1
5 m
2016-09
Bot 2
160mL

62B
CHLa
11
0 m
2016-09
Bot 1
120mL

61A
CHL
11
5m
2016-09
Bot 1
120mL

68
CHL
SC-04
0m
2016-09
Bot 2
60mL

56B
CHLa
41
5 m
2016-09
Bot 2
60mL

Salacia

+2016-20

Chlorophyll Data Sheet

Cruise: 2016-09

Page: 1 of 1.

Dates of Cruise:

Time and date acetone added: 13 Sept 16 1:50 pm

Analyst: Tamara + Jasmine

Time and date out of freezer: 14 Sept 16 noon

Time analysis started: 14 Sept 16 1:05 pm

73A spilled ~ 3 ml acetone

Sample #	Station	Vol filt	Vol acet	button pushed	Rb		Ra	Comments
Stand-	by			1-	0.005			
STD			LOW	2-	12.035			
STD			HIGH	4-	65.399	3 drops		
Blank				6-	0.005	8- +acid	0.002	
73A	GEO1	60	10	1-	83.765	2-	47.208	no DF
80A	SC04		10	3-	30.352	4-	16.763	no DF
78A	28	60	10	5-	80.699	6-	44.603	no DF
71A	41	60	10	7-	28.776	8-	16.060	no DF
78B	28	60	10	1-	88.380	2-	48.823	no DF
79A	SC04		10	3-	34.897	4-	19.677	no DF
70B	41	60	10	5-	56.876	6-	32.691	no DF
70A	41	60	10	7-	52.740	8-	30.523	no DF
71B	41	60	10	1-	23.063	2-	12.931	no DF
72A	GEO1	120	10	3-	49.291	4-	28.742	no DF
76A	11		10	5-	70.165	6-	39.430	no DF
76B	11		10	7-	65.203	8-	36.189	no DF
79B	SC-04		10	1-	31.078	2-	17.476	no DF
72B	GEO1	120	10	3-	48.499	4-	28.329	no DF
73B	GEO1	60	10	5-	65.502	6-	37.580	no DF
75B	11		10	7-	105.950	8-	58.676	no DF
75A	11		10	1-	98.207	2-	54.225	no DF
80B	SC-04		10	3-	28.990	4-	16.184	no DF
				5-		6-		
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

73A CHLa GEO1 0 m 2016-09 Bot 1 60mls	80A CHLa SC-04 0 m 2016-09 Bot 1	71A CHLa 28 0 m 2016-09 Bot 2 surf	71A CHLa 41 0 m 2016-09 Bot 1 surf	71B CHLa 28 0 m 2016-09 Bot 2 surf	79A CHLa SC-04 5 m 2016-09 Bot 2	70B CHL 41 5m 2016-09 Bot 1	70A CHL 41 5m 2016-09 Bot 1 60mls	71B CHLa 41 0 m 2016-09 Bot 1 surf	72A CHL GEO1 5m 2016-09 Bot 1 120mls
76A CHLa 11 0 m 2016-09 Bot 1	76B CHLa 11 0 m 2016-09 Bot 1	77B CHLa SC-04 5 m 2016-09 Bot 2	72B CHL GEO1 5m 2016-09 Bot 1 120mls	73B CHLa GEO1 0 m 2016-09 Bot 1 60mls	75B CHLa 11 5 m 2016-09 Bot 2	75A CHLa 11 5 m 2016-09 Bot 2	80B CHLa SC-04 0 m 2016-09 Bot 1		