

August Line P.

Chlorophyll Data Sheet

Cruise: 2015-10

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Dates of Cruise:

Time and date acetone added: 15 Sept 15 12:00 pm

Analyst: Tamarz

Time and date out of freezer: 10:10 am 16 Sept 15

Time analysis started: 11:15 am 16 Sept 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.017			
STD			LOW	2-	12.180			
STD			HIGH	4-	66.149			
Blank				6-	0.000	8-	0.000	
936B	P21	332	10	1-	25.394	2-	13.964	
LOOP 108A		"	"	3-	6.917	4-	3.843	
LOOP 108B			10	5-	6.332	6-	3.584	
977A	P4		10	7-	18.430	8-	11.138	
LOOP	P26B		10	1-	16.719	2-	9.431	
977B	P4		10	3-	19.012	4-	11.295	
LOOP 105A			10	5-	20.454	6-	11.204	
LOOP 105B			10	7-	19.711	8-	10.874	
898A	P22		10	1-	27.222	2-	15.188	
898B	P22		10	3-	25.015	4-	13.981	
897B	P22		10	5-	33.036	6-	19.716	
897A	P22		10	7-	31.745	8-	18.958	
930A	P21		10	1-	21.772	2-	12.981	
936A	P21		10	3-	24.362	4-	13.364	
884	P26		10	5-	16.868	6-	9.528	
930B	P21		10	7-	21.279	8-	12.638	
885A	P26		10	1-	15.681	2-	8.794	
885B	P26		10	3-	16.309	4-	9.126	
886	P26		10	5-	16.543	6-	9.345	
887	P26		10	7-	16.018	8-	9.020	
888	P26		10	1-	16.013	2-	8.946	
889	P26		10	3-	8.217	4-	4.744	
892A	P26		10	5-	15.842	6-	8.870	
892B	P26		10	7-	15.856	8-	8.927	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

P21 chLB 5m 936 (24)	Loop 108 A CHL 2015-10	Loop 108 B CHL 2015-10	977 A CHL P4 5 m 2015-10 Bot 8	P26 Loop B CHL 2015-10	977 B CHL P4 5 m 2015-10 Bot 8	Loop 105 A CHL 2015-10	Loop 105 B CHL 2015-10
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898 920 Achl P22 5 m 2015-10 Bot 24	898 920 B chl P22 5 m 2015-10 Bot 24	897 919 B chl P22 50 m / M 2015-10 Bot 23	897 919 A chl P22 50 m / M 2015-10 Bot 23	P21 chLA 5m 936 (18) 930	P21 chLA 5m 936 (24)	884 CHL P26 25 m 2015-10 Bot 9	P21 chLB 50m (18) 930
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885 A CHL P26 20 m 2015-10 Bot 10	885 B CHL P26 20 m 2015-10 Bot 10	886 CHL P26 15 m 2015-10 Bot 11	887 CHL P26 10 m 2015-10 Bot 12	888 CHL P26 5 m 2015-10 Bot 13	889 CHL P26 0 m 2015-10 Bot 14	892 A CHL P26 5 m 2015-10 Bot 17	892 B CHL P26 5 m 2015-10 Bot 17
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Chlorophyll Data Sheet

Cruise: 2015-10

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Dates of Cruise:

Time and date acetone added: 15 Sept 15 1:40 pm

Analyst: Tamar

Time and date out of freezer: 16 Sept 15 12:15 pm

Time analysis started: 16 Sept 15 1:30 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.019			
STD			LOW	2-	12.059			
STD			HIGH	4-	65.540			
Blank				6-	0.001	8-	-0.002	
267A	P10	332	10	1-	5.232	2-	2.970	
803	P26		10	3-	13.781	4-	7.727	
879	P26		10	5-	2.499	6-	1.697	
880	P26		10	7-	8.005	8-	4.960	
LODP P26A			10	1-	16.501	2-	9.290	
881A	P26		10	3-	19.986	4-	11.470	
881B	P26		10	5-	19.976	6-	11.473	
882A	P26		10	7-	25.401	8-	14.650	
266A	P10		10	1-	16.894	2-	10.381	
881C	P26		10	3-	19.368	4-	11.168	
882B	P26		10	5-	23.078	6-	13.184	
882C	P26		10	7-	26.051	8-	14.934	
716A	P24		10	1-	14.298	2-	7.909	
883	P26		10	3-	22.178	4-	12.742	
716B	P24		10	5-	14.499	6-	value not recorded	
739A	P25		10	7-	14.598	8-	8.770	
739B	P25		10	1-	14.377	2-	8.650	
740A	P25		10	3-	10.530	4-	5.896	
740B	P25		10	5-	10.649	6-	5.970	
804	P26		10	7-	13.704	8-	7.711	
805	P26		10	1-	13.520	2-	7.604	
806	P26		10	3-	14.586	4-	8.223	
802	P26		10	5-	14.530	6-	8.592	
253A	P9		10	7-	4.224	8-	2.454	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

267
Chl
P10
5 m
2015-10
Bot 14

803
CHL
P26
15 %
2015-10
Bot 3

879
CHL
P26
100 m
2015-10
Bot 4

880
CHL
P26
75 m
2015-10
Bot 5

P2C
Loop
A
CHL
2015-10

881 A
CHL
P26
20 / M
2015-10
Bot 16
6

881 B
CHL
P26
20 / M
2015-10
Bot 16
6

882 A
CHL
P26
50 / M
2015-10
Bot 16
7

266
Chl
P10
50 m / M
2015-10
Bot 13

881
CHL
P26
50 m
2015-10
Bot 6

882
CHL
P26
40 m
2015-10
Bot 7

716
A Chl
P24
5 m
2015-10
Bot 24

883
CHL
P26
30 m
2015-10
Bot 8

716
B Chl
P24
5 m
2015-10
Bot 24

739 A
Chl
P25
50 / M
2015-10
Bot 23

739 B
Chl
P25
50 / M
2015-10
Bot 23

740 A
Chl
P25
5 m
2015-10
Bot 24

740 B
Chl
P25
5 m
2015-10
Bot 24

804
CHL
P26
30 %
2015-10
Bot 4

805
CHL
P26
50 %
2015-10
Bot 5

806
CHL
P26
100 %
2015-10
Bot 6

802
CHL
P26
1 %
2015-10
Bot 2

253
Chl
P9 A
5 m
2015-10
Bot 24

Chlorophyll Data Sheet

Cruise: 2015-10

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Dates of Cruise:

Time and date acetone added: 15 Sept 15 3:25

Analyst: Tamara

Time and date out of freezer: 16 Sept 15 3:20

Time analysis started: 4:30 16 Sept 15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.020			
STD			LOW	2-	12.029			
STD			HIGH	4-	65.435			
Blank				6-	0.002	8-	-0.001	
311	P12	332	10	1-	6.256	2-	3.712	
309B	P11		10	3-	3.696	4-	2.106	
309A	P11		10	5-	3.346	6-	1.859	
308A	P11		10	7-	56.554	8-	33.545	
308B	P11		10	1-	53.997	2-	31.797	
267B	P10		10	3-	5.354	4-	3.048	
252B	P9		10	5-	21.590	6-	13.010	
266B	P10		10	7-	17.078	8-	10.261	
252A	P9		10	1-	21.752	2-	13.223	
253B	P9		10	3-	3.836	4-	2.155	
225	P8		10	5-	4.138	6-	2.307	
229B	P8		10	7-	4.620	8-	2.625	
222	P8		10	1-	23.053	2-	13.731	
226	P8		10	3-	6.533	4-	3.976	
221	P8		10	5-	10.552	6-	6.738	
229A	P8		10	7-	4.314	8-	2.453	
227B	P8		10	1-	23.892	2-	14.314	
227A	P8		10	3-	25.154	4-	15.363	
223	P8		10	5-	11.461	6-	6.682	6.767
224	P8		10	7-	5.027	8-	2.918	
228B	P8		10	1-	17.409	2-	10.320	
228A	P8		10	3-	17.399	4-	10.292	
207	P7		10	5-	4.505	6-	2.580	
207	P7		10	7-	4.895	8-	2.825	
Stand- by				1-	-0.019			
Std	Low			2-	12.135			
Std	High			4-	65.558			
Blank	by			6-	-0.000	8-	0.000	

311 CHL P12 1 % 2015-10 Bot 2	309 Chl P11 B 5 m 2015-10 Bot 24	309 Chl P11 A 5 m 2015-10 Bot 24	308 Chl P11 A 50 m / M 2015-10 Bot 23	308 Chl P11 B 50 m / M 2015-10 Bot 23	267 Chl P10 B 5 m 2015-10 Bot 14	252 Chl P9 B 50 m / 2015-10 Bot 23	266 Chl P10 B 50 m / M 2015-10 Bot 13
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252 Chl P9 A 50 m / 2015-10 Bot 23	253 Chl P9 B 5 m 2015-10 Bot 24	225 CHL P8 B 10 m 2015-10 Bot 18	229 CHL P8 5 m 2015-10 Bot 22	222 CHL P8 75 m 2015-10 Bot 15	226 CHL P8 5 m 2015-10 Bot 19	221 CHL P8 100 m 2015-10 Bot 14	229 CHL P8 A 5 m 2015-10 Bot 22
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B 227 CHL P8 50 / M 2015-10 Bot 20	A 227 CHL P8 50 / M 2015-10 Bot 20	223 CHL P8 50 m 2015-10 Bot 16	224 CHL P8 25 m 2015-10 Bot 17	P 228 CHL P8 20 / M 2015-10 Bot 21	A 228 CHL P8 20 / M 2015-10 Bot 21	207 Chl P7 5 m 2015-10 Bot 2	207 Chl P7 5 m 2015-10 Bot 2
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Chlorophyll Data Sheet

Cruise: 2015-10

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Dates of Cruise:

Time and date acetone added: 11:10 16 Sept 15

Analyst: Tamar

Time and date out of freezer: 17 Sept 15 9:10 a.m.

Time analysis started: 10:10 a.m.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.000	-0.017		
STD			LOW	2-	12.277			
STD			HIGH	4-	66.377			
Blank				6-	0.004	8-	0.002	
200B	P6	332	10	1-	31.502	2-	19.677	
206	P7		10	3-	31.129	4-	19.304	
206	P7		10	5-	30.170	6-	18.908	
200A	P6		10	7-	30.544	8-	19.168	
201B	P6		10	1-	5.601	2-	3.259	
201A	P6		10	3-	5.405	4-	3.090	
198B	P5		10	5-	20.898	6-	12.179	
197A	P5		10	7-	34.272	8-	19.578	
197B	P5		10	1-	35.408	2-	20.483	
195B	P4		10	3-	147.773	4-	82.919	
188A	P4		10	5-	142.701	6-	80.875	
191	P4		10	7-	135.154	8-	76.513	
190	P4		10	1-	135.949	2-	77.423	
193B	P4		10	3-	148.529	4-	85.291	
192	P4		10	5-	141.572	6-	79.591	
194B	P4		10	7-	146.357	8-	82.608	
193A	P4		10	1-	146.015	2-	84.170	
195A	P4		10	3-	139.418	4-	79.247	
194A	P4		10	5-	143.210	6-	80.599	
198A	P5		10	7-	20.709	8-	12.030	
187	P4		10	1-	153.560	2-	87.797	
189	P4		10	3-	125.837	4-	71.434	
188B	P4		10	5-	140.644	6-	80.940	
186	P4		10	7-	154.163	8-	87.985	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

B 200 Chl P6 30 / Ma 2015-10 Bot 2	206 Chl P7 30 / Max 2015-10 Bot 1	206 Chl P7 30 / Max 2015-10 Bot 1	A 200 Chl P6 30 / Ma 2015-10 Bot 2	B 201 Chl P6 5 m 2015-10 Bot 3	A 201 Chl P6 5 m 2015-10 Bot 3	198 Chl P5 B 5 m 2015-10 Bot 3	197 Chl P5 A 30 / Ma: 2015-10 Bot 2
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197 Chl P5 B 30 / Max 2015-10 Bot 2	195 CHL P4 5 m 2015-10 Bot 17	188 A CHL P4 20 m 2015-10 Bot 10	191 CHL P4 5 m 2015-10 Bot 13	190 CHL P4 10 m 2015-10 Bot 12	193 B CHL P4 30 / M 2015-10 Bot 15	192 CHL P4 0 m 2015-10 Bot 14	194 CHL P4 15 / M 2015-10 Bot 16
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193 A CHL P4 30 / M 2015-10 Bot 15	195 A CHL P4 5 m 2015-10 Bot 17	194 A CHL P4 15 / M 2015-10 Bot 16	198 Chl P5 A 5 m 2015-10 Bot 3	187 CHL P4 25 m 2015-10 Bot 9	189 CHL P4 15 m 2015-10 Bot 11	188 B CHL P4 20 m 2015-10 Bot 10 <i>REMOVE POLYOL</i>	186 CHL P4 30 m 2015-10 Bot 8
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Chlorophyll Data Sheet

Cruise: 2015-10

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20ml: 39A+B, 52A+B, 34

Dates of Cruise:

Time and date acetone added: 16 Sept 15 1:20 pm

Analyst: Tamarac

Time and date out of freezer: 17 Sept 15 noon

Time analysis started: 17 Sept 15 1 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.019			
STD			LOW	2-	12.044			
STD			HIGH	4-	65.827			
Blank				6-	0.004	8- 0	0.001	
83	P4	332	10	1-	77.468	2-	46.849	
82	P4		10	3-	85.108	4-	50.218	
81	P4		10	5-	87.033	6-	52.391	
80	P4		10	7-	80.373	8-	46.570	
79	P4		10	1-	69.285	2-	41.487	
183	P4		10	3-	9.121	4-	6.403	
184	P4		10	5-	22.172	6-	14.509	
185	P4		10	7-	26.847	8-	17.366	
31B	P2		10	1-	23.839	2-	15.212	
182	P4		10	3-	4.262	4-	2.726	
31A	P2		10	5-	45.572	6-	28.167	
39A	P2		20	7-	151.966	8-	83.787	DF=2
39B	P2		20	1-	148.419	2-	82.385	DF=2
37B	P2		10	3-	21.692	4-	13.608	
38B	P2		10	5-	99.819	6-	58.151	
52A	P3		20	7-	194.884	8-	111.389	DF=2
52B	P3		20	1-	196.482	2-	112.210	DF=2
53B	P3		10	3-	37.721	4-	25.227	
33	P2		10	5-	117.665	6-	68.332	
53A	P3		10	7-	44.819	8-	29.122	
28	P2		10	1-	36.479	2-	23.778	
26	P2		10	3-	16.891	4-	12.716	
32	P2		10	5-	65.047	6-	37.536	
34	P2		20	7-	152.676	8-	83.700	DF=2
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

83
CHL
P4
100 %
2015-10
Bot 6

82
CHL
P4
50 %
15-
ot 5

81
CHL
P4
30 9
015-
Bot

80
CHL
P4
15 %
015-
Bot

79
CHL
P4
1 %
015-
Bot

183
CHL
P4
75
015-
Bot

184
CHL
P4
50
015-
Bot

18
CH
P4
40
015-
Bot

31
CUL
P2

18.
CHI
P4

31
CHL
P2

39
CHI
P2

39
CHL
P2

37
CH
P2

38
CHI
P2

52
CHI
P3

52
CHI
P3

53
CHI
P3

33
CHI
P2

53
CHI
P3

28
CHE
P2

26
CHI
P2

32
CHL
P2

34
CHI
P2

09/06/10

Chlorophyll Data Sheet

Cruise: 2015-10

Page: 3 of 3

20ml: 36, 35, 18A+B

Dates of Cruise:

Time and date acetone added: 16 Sept 15 2:40pm

Analyst: Tamara

Time and date out of freezer: 17 Sept 15 2:20 pm

Time analysis started: 3:30 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.019			
STD			LOW	2-	12.032			
STD			HIGH	4-	65.547			
Blank				6-	0.005	8-	0.004	
LOOP B JF1		332	10	1-	111.093	2-	61.869	
8A	JF2		10	3-	50.363	4-	32.197	
8B	JF2		10	5-	51.493	6-	32.041	
9A	JF2		10	7-	54.548	8-	31.689	
9B	JF2		10	1-	51.870	2-	30.195	
LOOP	JF3		10	3-	70.551	4-	40.266	
LOOP	JF3		10	5-	68.613	6-	39.316	
12A	LB01		10	7-	129.793	8-	73.557	
12B	LB01		10	1-	132.063	2-	74.502	
20A	P1		10	3-	8.164	4-	5.732	
20B	P1		10	5-	8.065	6-	5.494	
21A	P1		10	7-	13.144	8-	7.597	
21B	P1		10	1-	13.970	2-	8.070	
37A	P2		10	3-	24.221	4-	15.615	
18A	LC01		20	5-	122.491	6-	67.937	DF=2
18B	LC01		20	7-	123.161	8-	68.248	DF=2
15A	LB08		10	1-	29.413	2-	16.352	
15B	LB08		10	3-	29.279	4-	16.319	
35	P2		20	5-	136.450	6-	75.963	DF=2
36	P2		20	7-	167.796	8-	91.145	DF=2
38A	P2		10	1-	130.270	2-	76.343	
29	P2		10	3-	16.511	4-	11.610	
27	P2		10	5-	15.248	6-	11.090	
30	P2		10	7-	21.615	8-	13.925	
Stand-by				1-	-0.018			
Std	Low			2-	12.070			
Std	High			4-	65.441			
Blank	by			6-	-0.002	8-	-0.003	

200 P
Chl D
JF1
Loop
2015-10
~~Bot 1~~
Loop

8
Chl A
JF2
30 m
2015-10
Bot 3

8
Chl A
JF2 B
30 m
2015-10
Bot 3

9
Chl A
JF2
5 m
2015-10
Bot 4

9
Chl A
JF2 B
5 m
2015-10
Bot 4

Loop
Chl
JF3
Loop
2015-10
~~Bot 1~~
Loop

200 P
Chl
JF3
Loop
2015-10
~~Bot 1~~
Loop

12 A
Chl
LB01
0 m
2015-10
Bot 1

12 B
Chl
LB01
0 m
2015-10
Bot 1

20
Chl
P1 A
30/Max
2015-10
Bot 2

20
Chl
P1 B
30/Max
2015-10
Bot 2

21
Chl
P1 A
5 m
2015-10
Bot 3

21
Chl
P1 B
5 m
2015-10
Bot 3

37
Chl
P2 A
30m or M
2015-10
Bot 12

18 A
Chl
LC01
5 m
2015-10
Bot 1

18 B
Chl
LC01
5 m
2015-10
Bot 1

15 A
Chl
LB08
0 m
2015-10
Bot 3

15 B
Chl
LB08
0 m
2015-10
Bot 3

35
Chl
P2
5 m
2015-10
Bot 10

36
Chl
P2
0 m
2015-10
Bot 11

38
Chl
P2 A
15m or M
2015-10
Bot 13

29
Chl
P2
40 m
2015-10
Bot 4

27
Chl
P2
75 m
2015-10
Bot 2

30
Chl
P2
30 m
2015-10
Bot 5

Chlorophyll Data Sheet

Cruise: 2015-10

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Dates of Cruise:

Time and date acetone added: 17 Sept 15 1125 am

Analyst: Tamarz

Time and date out of freezer: 18 Sept 1020 am

Time analysis started: 11:15 a.m.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.016			
STD			LOW	2-	12.267			
STD			HIGH	4-	66.549			
Blank				6-	0.000	8-	0.000	
LOOP A	JF1	332	10	1-	111.577	2-	60.804	
LOOP 84	B		10	3-	9.581	4-	5.455	
LOOP 84	A		10	5-	9.555	6-	5.430	
685 B	P20		10	7-	9.734	8-	5.385	
685 A	P20		10	1-	9.904	2-	5.364	Pa sat for a while
684 B	P20		10	3-	29.176	4-	17.592	
684 A	P20		10	5-	30.969	6-	18.618	
683 B	P20		10	7-	18.892	8-	11.429	
683 A	P20		10	1-	19.870	2-	12.020	
682	P20		10	3-	10.245	4-	5.668	
680	P20		10	5-	9.780	6-	5.479	
681	P20		10	7-	9.552	8-	5.313	
679	P20		10	1-	9.465	2-	5.252	
678	P20		10	3-	9.351	4-	5.222	
677	P20		10	5-	9.849	6-	5.474	
676	P20		10	7-	27.433	8-	16.305	
675	P20		10	1-	27.556	2-	16.663	
674 B	P20		10	3-	20.152	4-	12.143	
674 A	P20		10	5-	19.558	6-	11.809	
673	P20		10	7-	8.973	8-	5.973	
626 A	P19		10	1-	29.240	2-	18.029	
672	P20		10	3-	3.626	4-	2.426	
627 B	P19		10	5-	5.451	6-	3.083	
626 B	P19		10	7-	28.018	8-	17.313	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

Loop Chl A JF1 Loop 2015-10 Bot 11 Loop	Loop 84 B CHL 2015-10	Loop 84 A CHL 2015-10	685 B CHL P20 5 m 2015-10 Bot 17	685 A CHL P20 5 m 2015-10 Bot 17	684 B CHL P20 20 / Ma 2015-10 Bot 16	684 A CHL P20 20 / Ma 2015-10 Bot 16	683 B CHL P20 50 / Ma 2015-10 Bot 15
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683 A CHL P20 50 / Ma 2015-10 Bot 15 683	682 ⁰⁰² CHL P20 0 m 2015-10 Bot 14 682	680 CHL P20 10 m 2015-10 Bot 12	681 CHL P20 5 m 2015-10 Bot 13	679 CHL P20 15 m 2015-10 Bot 11	678 CHL P20 20 m 2015-10 Bot 10	677 CHL P20 25 m 2015-10 Bot 9	676 CHL P20 30 m 2015-10 Bot 8
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675 CHL P20 40 m 2015-10 Bot 7	674 B CHL P20 50 m 2015-10 Bot 6	674 A CHL P20 50 m 2015-10 Bot 6	673 CHL P20 75 m 2015-10 Bot 5	626 Chl P19 A 50 m / M 2015-10 Bot 23	672 CHL P20 100 m 2015-10 Bot 4	627 Chl P19 B 5 m 2015-10 Bot 24	626 Chl P19 B 50 m / M 2015-10 Bot 23
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Chlorophyll Data Sheet

Cruise: 2015-10

Page: 2 of 2

Dates of Cruise:

Time and date acetone added: 17 Sept 15 1:15 pm

Analyst: Tamara

Time and date out of freezer: 18 Sept 15 11:15 am

Time analysis started: 12:28 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.018			
STD			LOW	2-	12.088			
STD			HIGH	4-	65.802			
Blank				6-	0.001	8-	-0.002	
627A	P19	332	10	1-	4.818	2-	2.667	
633	P20		10	3-	10.496	4-	5.812	
632	P20		10	5-	10.116	6-	5.656	
630	P20		10	7-	9.971	8-	5.595	
629	P20		10	1-	22.072	2-	13.071	
715B	P24		10	3-	23.027	4-	13.600	
596A	P17		10	5-	30.530	6-	18.346	
715A	P24		10	7-	23.383	8-	13.776	
596B	A7		10	1-	28.576	2-	17.178	lost 5mls @ filtration
479B	P16		10	3-	19.133	4-	11.897	
603B	P18		10	5-	3.376	6-	1.868	
602B	P18		10	7-	56.090	8-	33.135	
603A	P18		10	1-	3.296	2-	1.829	
Loop A	P18		10	3-	3.795	4-	2.231	
602A	P18		10	5-	50.281	6-	29.795	
597A	P17		10	7-	5.072	8-	2.866	
Loop B	P18		10	1-	3.414	2-	1.913	
597B	P17		10	3-	4.786	4-	2.692	
479A	P16		10	5-	18.737	6-	11.571	
481B	P16		10	7-	4.303	8-	2.433	
481A	P16		10	1-	4.365	2-	2.470	
Loop C	P16		10	3-	4.321	4-	2.474	
Loop A	P16		10	5-	4.490	6-	2.568	
519	P16		10	7-	15.784	8-	9.742	
Stand-by				1-	-0.018			
Std	Low			2-	12.019			
Std	High			4-	65.713			
Blank	by			6-	0.000	8-	-0.002	

627
Chl
P19 A
5 m
2015-10
Bot 24

633
CHL
P20
100 %
2015-10
Bot 6

632
CHL
P20
50 %
2015-10
Bot 5

630
CHL
P20
15 %
2015-10
Bot 3

629
CHL
P20
1 %
2015-10
Bot 2

715
A Chl
P24
50 m / M
2015-10
Bot 23

596
Chl
P17 A
50 m / M
2015-10
Bot 23

715
A Chl
P24
50 m / M
2015-10
Bot 23

596
Chl
P17 B
50 m / M
2015-10
Bot 23
Lost Sm's

479
CHL B
P16
50 / M
2015-10
Bot 15

603
Chl B
P18
5 m
2015-10
Bot 6

602
Chl B
P18
50 / Max
2015-10
Bot 5

603
Chl A
P18
5 m
2015-10
Bot 6

P18
loop
chl A

602
Chl A
P18
50 / Max
2015-10
Bot 5

597
Chl
P17 A
5 m
2015-10
Bot 24

P18
loop
chl B

597
Chl
P17 B
5 m
2015-10
Bot 24

479
CHL A
P16
50 / M
2015-10
Bot 15

481
CHL B
P16
5 m
2015-10
Bot 17

481
CHL A
P16
5 m
2015-10
Bot 17

LOOP
P16
B
CHL
2015-10

LOOP
P16
A
CHL
2015-10

519
CHL
P16
1 %
2015-10
Bot 2

Chlorophyll Data Sheet

Cruise: 2015-10

Page: 1 of 2

Dates of Cruise:

Time and date acetone added: 21 Sept 15 12:10 pm

Analyst: Tamar

Time and date out of freezer: 22 Sept 15 12:05 pm

Time analysis started: 1:20 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.020			
STD			LOW	2-	12.147			
STD			HIGH	4-	66.149			
Blank				6-	0.002	8-		
385	P12	332	10	1-	4.054	2-	2.271	
437A	P13		10	3-	13.220	4-	7.886	
523	P16		10	5-	3.878	6-	2.227	
520	P16		10	7-	3.928	8-	2.229	
474	P16		10	1-	4.809	2-	2.700	
522	P16		10	3-	3.970	4-	2.240	
473	P16		10	5-	7.128	6-	4.006	
471	P16		10	7-	16.298	8-	9.712	
472	P16		10	1-	9.262	2-	5.311	
478	P16		10	3-	4.253	4-	2.410	
477	P16		10	5-	4.321	6-	2.421	
476	P16		10	7-	4.268	8-	2.411	
475	P16		10	1-	4.089	2-	2.309	
480A	P16		10	3-	25.613	4-	15.611	
439B	P14		10	5-	26.687	6-	16.606	
480B	P16		10	7-	25.703	8-	15.616	
440A	P14		10	1-	5.946	2-	3.411	
464B	P15		10	3-	7.713	4-	4.253	
464A	P15		10	5-	4.719	6-	2.713	
463A	P15		10	7-	49.335	8-	30.569	
463B	P15		10	1-	48.796	2-	30.153	
470B	P16		10	3-	25.990	4-	15.813	
470A	P16		10	5-	26.454	6-	16.150	
469	P16		10	7-	13.704	8-	8.1658	
387A	P12		10		22.116		13.819	
468	P16		10		5.963		3.923	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

385 CHL P12 5 m 2015-10 Bot 13	437 Chl A P13 50 m / M 2015-10 Bot 23	523 CHL P16 100 % 2015-10 Bot 6	520 CHL P16 15 % 2015-10 Bot 3	474 CHL P16 20 m 2015-10 Bot 10	522 CHL P16 50 % 2015-10 Bot 5	473 CHL P16 25 m 2015-10 Bot 9	471 CHL P16 40 m 2015-10 Bot 7
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472 CHL P16 30 m 2015-10 Bot 8	478 CHL P16 0 m 2015-10 Bot 14	477 CHL P16 5 m 2015-10 Bot 13	476 CHL P16 10 m 2015-10 Bot 12	475 CHL P16 15 m 2015-10 Bot 11	480 CHL A P16 20 / M 2015-10 Bot 16	439 Chl P14 B 50 / Max 2015-10 Bot 1	480 CHL B P16 20 / M 2015-10 Bot 16
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440 Chl P14 A 5 m 2015-10 Bot 2	464 B Chl P15 5 m 2015-10 Bot 24	464 A Chl P15 5 m 2015-10 Bot 24	463 A Chl P15 50 m / M 2015-10 Bot 23	463 B Chl P15 50 m / M 2015-10 Bot 23	470 B CHL P16 50 m 2015-10 Bot 6	470 A CHL P16 50 m 2015-10 Bot 6	469 CHL P16 75 m 2015-10 Bot 5
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387 CHL A P12 50 / M 2015-10 Bot 15	468 CHL P16 100 m 2015-10 Bot 4
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Chlorophyll Data Sheet

Cruise: 2015-10

Page: 2 of 2

Dates of Cruise:

Time and date acetone added: 21 Sept 15 2:55 pm

Analyst: Tamar

Time and date out of freezer: 22 Sept 15 1:10 pm

Time analysis started: 230 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.017			
STD			LOW	2-	12.080			
STD			HIGH	4-	65.776			
Blank				6-	0.009	8-	0.010	
no label		332	10	1-	31.433	2-	19.072	
437B	P13		10	3-	12.733	4-	7.624	
438B	P13		10	5-	4.045	6-	2.338	
438A	P13		10	7-	3.930	8-	2.232	
LOOP 58B			10	1-	4.681	2-	2.769	
LOOP 58A			10	3-	4.882	4-	2.932	
440B	P14		10	5-	6.012	6-	3.464	
439A	P14		10	7-	26.599	8-	16.517	
379A	P12		10	1-	30.329	2-	18.584	
383	P12		10	3-	4.897	4-	2.893	
389B	P12		10	5-	3.975	6-	2.248	
376	P12		10	7-	1.750	8-	1.257	
315	P12		10	1-	4.098	2-	2.351	
314	P12		10	3-	3.974	4-	2.278	
312	P12		10	5-	3.961	6-	2.275	
387B	P12		10	7-	22.250	8-	13.880	
388A	P12		10	1-	28.583	2-	17.275	
380	P12		10	3-	10.358	4-	6.110	
389A	P12		10	5-	3.903	6-	2.184	
386	P12		10	7-	3.692	8-	2.099	
381	P12		10	1-	5.862	2-	3.342	
313	P12		10	3-	4.516	4-	2.659	
384	P12		10	5-	4.234	6-	2.499	
378	P12		10	7-	21.456	8-	13.514	
379B	P12		10		29.190		17.987	
382	P12		10		4.855		2.780	
Stand-by				1-	-0.018			
Std	Low			2-	12.004			
Std	High			4-	65.384			
Blank	by			6-	0.002	8-	0.001	
377	P12		10		5.512		3.438	

no
label

437
Chl
P13
50 m / M
2015-10
Bot 23

438
Chl
P13
5 m
2015-10
Bot 24

438
Chl
P13
5 m
2015-10
Bot 24

LOOP
58
3
CHL
2015-10

LOOP
58
A
CHL
2015-10

440
Chl
P14
5 m
2015-10
Bot 2

439
Chl
P14
50 / Max
2015-10
Bot 1

379
CHL A
P12
40 m
2015-10
Bot 7

383
CHL
P12
15 m
2015-10
Bot 11

389
CHL B
P12
5 m
2015-10
Bot 17

376
CHL
P12
100 m
2015-10
Bot 4

315
CHL
P12
100 %
2015-10
Bot 6

314
CHL
P12
50 %
2015-10
Bot 5

312
CHL
P12
15 %
2015-10
Bot 3

387
CHL B
P12
50 / M
2015-10
Bot 15

388
CHL A
P12
20 / M
2015-10
Bot 16

380
CHL
P12
30 m
2015-10
Bot 8

389
CHL A
P12
5 m
2015-10
Bot 17

386
CHL
P12
0 m
2015-10
Bot 14

381
CHL
P12
25 m
2015-10
Bot 9

313
CHL
P12
30 %
2015-10
Bot 4

384
CHL
P12
10 m
2015-10
Bot 12

378
CHL
P12
50 m
2015-10
Bot 6

379
CHL B
P12
40 m
2015-10
Bot 7

382
CHL
P12
20 m
2015-10
Bot 10

377
CHL
P12
75 m
2015-10
Bot 5

ngit