

Chlorophyll Data Sheet

Cruise: 2016-01

Page: 1 of 2

Dates of Cruise:

Time and date acetone added: 29 March 2016 145pm Analyst: Tamar

Time and date out of freezer: 10:55 am 30 March 16

Time analysis started: 12:05 pm 30 Mar 16

10 ml acetone added
to each filter
for entire cruise

Acetone prepared 19 Jan 16

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	- 0.020			DF?
STD			LOW	2-	12.146			
STD			HIGH	4-	65.758			
Blank				6-	0.006	8- +acid	0.005	
463A	P22	330	10	1-	18.418	2-	10.634	x
331	P16		10	3-	16.268	4-	9.599	x
565	P26		10	5-	23.809	6-	13.367	x
100P	P16 B		10	7-	16.660	8-	9.938	x
391A	P17		10	1-	16.121	2-	9.596	x
294A	P14		10	3-	14.713	4-	8.529	x
559	P26		10	5-	14.975	6-	8.795	x
395A	P19		10	7-	18.000	8-	10.467	x
100P	58A		10	1-	15.983	2-	9.659	x
326	P16		10	3-	8.306	4-	5.394	x
460B	P22		10	5-	18.849	6-	10.849	x
335	P16		10	7-	16.720	8-	9.780	x
452A	P21		10	1-	17.107	2-	9.922	x
291A	P13		10	3-	15.448	4-	9.481	x
390B	P17		10	5-	16.305	6-	9.648	x
290A	P13		10	7-	15.884	8-	9.914	x
339	P16		10	1-	16.161	2-	9.522	x
247	P12		10	3-	10.985	4-	6.683	x
460A	P22		10	5-	18.307	6-	10.652	x
292B	P14		10	7-	8.507	8-	5.221	x
452B	P21		10	1-	17.165	2-	9.938	x
295B	P15		10	3-	17.721	4-	11.003	x
Loop	50B		10	5-	17.745	6-	10.852	x
464B	P23		10	7-	19.935	8-	11.469	x
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

463	331	565	400 A	391 A	294 A	559	395 A
Chl	CHL	CHL	CHL B	Chl	Chl	CHL	Chl
P22 A	P16	P26	LoopP16	P17	P14	P26	P19
5 m	30 m	25 m	LOOP	5 m	5 m	100 m	50 m
2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01
Bot 5	Bot 11	Bot 12	Bot	Bot 4	Bot 3	Bot 6	Bot 1

0 A	326	460	335	452 A	291	390 B	290
CHL	CHL	Chl	CHL	Chl	Chl	Chl	Chl
LOOP58	P16	P22 B	P16	P21	P13 A	P17	P13 A
LOOP	100 m	50 m	15 m	5 m	5 m	50 m	50 m
2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01
Bot	Bot 6	Bot 2	Bot 15	Bot 14	Bot 2	Bot 3	Bot 1

339	247	460	292 B	452 B	295 B	400 B	464 B
CHL	CHL	Chl	Chl	Chl	Chl	CHL B	Chl
P16	P12	P22 A	P14	P21	P15	LOOP50	P23
0 m	10 m	50 m	50 m	5 m	50 m	LOOP	50 m
2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01
Bot 19	Bot 16	Bot 2	Bot 1	Bot 14	Bot 1	Bot	Bot 1

Chlorophyll Data Sheet

Cruise: 2016-01

Page: 2 of 2

390A leaked
~2ml acetone

Dates of Cruise:

Time and date acetone added: 29 Mar 16 3:30 pm

Analyst: Tamarz

Time and date out of freezer: 30 Mar 16 11:34 pm

Time analysis started: 30 Mar 16 2:36 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	11.975			
STD			HIGH	4-	64.842			
Blank				6-	-0.019	8- +acid	-0.020	
569	P26	330	10	1-	24.254	2-	13.571	x
LOOP	P16A		10	3-	16.342	4-	9.558	x
451B	P21		10	5-	18.015	6-	10.489	x
LOOP	41A		10	7-	14.448	8-	8.557	x
560	P26		10	1-	23.547	2-	13.117	x
390A	P17		10	3-	17.541	4-	10.442	x leaked ~2ml @ extract
LOOP	50A		10	5-	17.456	6-	10.619	x
LOOP	41B		10	7-	14.383	8-	8.543	x
336	P16		10	1-	16.484	2-	9.648	x
LOOP	38A		10	3-	11.900	4-	7.552	x
463B	P22		10	5-	18.644	6-	10.846	x
LOOP	38B		10	7-	11.738	8-	7.407	x
LOOP	P26B		10	1-	24.522	2-	13.747	x
248A	P12		10	3-	11.290	4-	7.010	x
570A	P26		10	5-	24.385	6-	13.653	x
392B	P18		10	7-	14.714	8-	8.819	x
394A	P18		10	1-	14.878	2-	8.879	x
296B	P15		10	3-	15.795	4-	9.492	x
395B	P19		10	5-	17.247	6-	10.125	x
248B	P12		10	7-	11.131	8-	6.650	x
465A	P23		10	1-	19.783	2-	11.334	x
LOOP	54B		10	3-	14.888	4-	9.058	x
396B	P19		10	5-	16.657	6-	9.622	x
295A	P15		10	7-	17.415	8-	10.560	x
Stand-by				1-	-0.024			
Std	Low			2-	11.968			
Std	High			4-	65.004			
Blank	by			6-	-0.020	8- +acid	-0.023	

569 CHL P26 10 m 2016-01 Bot 16	LOOP CHL A LoopP16 LOOP 2016-01 Bot	451 B Chl P21 50 m 2016-01 Bot 13	LOOP CHL A Loop 41 LOOP 2016-01 Bot	560 CHL P26 75 m 2016-01 Bot 7	390 A Chl P17 50 m 2016-01 Bot 3	LOOP A CHL LOOP50 LOOP 2016-01 Bot	LOOP CHL B Loop 41 LOOP 2016-01 Bot
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336 CHL P16 10 m 2016-01 Bot 16	LOOP CHL A Loop 38 LOOP 2016-01 Bot	463 Chl B P22 5 m 2016-01 Bot 5	LOOP CHL B Loop 38 LOOP 2016-01 Bot	0 B CHL p26 loop LOOP 2016-01 Bot	248 A CHL P12 5 m 2016-01 Bot 17	570 A CHL P26 5 m 2016-01 Bot 17	392 B Chl P18 50 m 2016-01 Bot 1
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394 A Chl P18 5 m 2016-01 Bot 3	296 B Chl P15 5 m 2016-01 Bot 2	395 B Chl P19 50 m 2016-01 Bot 1	248 B CHL P12 5 m 2016-01 Bot 17	465 A Chl P23 5 m 2016-01 Bot 2	U CHL B LOOP54 LOOP 2016-01 Bot	396 B Chl P19 5 m 2016-01 Bot 2	295 A Chl P15 50 m 2016-01 Bot 1
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Chlorophyll Data Sheet

Cruise: 2016 - 01

Page: 1 of 3

Dates of Cruise:

Time and date acetone added: 30 Mar 16 11:05 am

Analyst: Tamar

Time and date out of freezer: 31 Mar 16 10 am

Time analysis started: 31 Mar 16 11:04 am

acetone prepared 19 Jan 16

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.019			
STD			LOW	2-	12.210			DE?
STD			HIGH	4-	66.233			
Blank				6-	-0.018	8- acid	-0.019	
561A	P26	330	10	1-	22.066	2-	12.211	X
499A	P24		10	3-	21.861	4-	12.466	X
LOOP	P24A		10	5-	21.423	6-	12.132	X
LOOP	P18B		10	7-	14.984	8-	8.700	X
LOOP	64B		10	1-	21.904	2-	12.297	X
LOOP	P18A		10	3-	14.485	4-	8.532	X
392A	P18		10	5-	14.240	6-	8.315	X
334A	P16		10	7-	16.407	8-	9.531	X
328B	P16		10	1-	16.619	2-	9.754	X
LOOP	P14B		10	3-	15.348	4-	9.140	X
290B	P13		10	5-	16.186	6-	9.811	X
481A	P24		10	7-	21.537	8-	12.091	X
294B	P14		10	1-	14.976	2-	8.700	X
LOOP	P12A		10	3-	11.953	4-	7.297	X
292A	P14		10	5-	16.284	6-	9.869	X
LOOP	P12B		10	7-	3.536	8-	2.248	on label - "no good"
332	P16		10	1-	15.714	2-	9.301	X
LOOP	P14A		10	3-	14.047	4-	8.352	X
394B	P18		10	5-	14.709	6-	8.555	X
250	P12		10	7-	12.792	8-	7.947	X
567A	P26		10	1-	23.356	2-	13.006	X
330	P16		10	3-	16.730	4-	9.958	X
LOOP	58B		10	5-	17.222	6-	10.176	X
245B	P12		10	7-	11.847	8-	7.181	X
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

561 ^A	479 ^A	0	0	0 ^B	0	392 ^A	334 ^A
CHL	Chl	CHL ^A	CHL ^B	CHL	CHL ^A	Chl	CHL
P26	P24	P24 LOOP	P18 LOOP	LOOP64	P18 LOOP	P18	P16
50 m	50 m	LOOP	LOOP	LOOP	LOOP	50 m	20 m
2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01
Bot 8	Bot 14	Bot	Bot	Bot	Bot	Bot 1	Bot 14

328 ^B	Loop	290	481 ^A	294 ^B	Loop	292 ^A	Loop
CHL	CHL ^B	Chl	Chl	Chl	CHL ^A	Chl	CHL ^B
P16	P14	P13	P24	P14	P12	P14	P12
50 m	LOOP	50 m ^B	5 m	5 m	LOOP	50 m	LOOP
2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01
Bot 8	Bot	Bot 1	Bot 16	Bot 3	Bot	Bot 1	Bot

332	Loop	394 ^B	250	567 ^A	330	0 ^B	245 ^B
CHL	CHL ^A	Chl	CHL	CHL	CHL	CHL	CHL
P16	P14	P18	P12	P26	P16	LOOP58	P12
25 m	LOOP	5 m	0 m	20 m	40 m	LOOP	20 m
2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01
Bot 12	Bot	Bot 3	Bot 19	Bot 14	Bot 10	Bot	Bot 14

Chlorophyll Data Sheet

Cruise: 2016-01

Page: 2 of 3

Dates of Cruise:

Time and date acetone added: 30 Mar 16 1:50 pm

Analyst: Tamara

Time and date out of freezer: 31 Mar 16 11:55 am

Time analysis started: 31 Mar 16 12:56 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	12.032			
STD			HIGH	4-	65.499			
Blank				6-	-0.011	8-	-0.012	
								DF?
572	P26	330	10	1-	24.598	2-	13.768	X
479B	P24		10	3-	22.011	4-	12.409	X
481B	P24		10	5-	22.453	6-	12.726	X
568	P26		10	7-	23.028	8-	12.852	X
464A	P23		10	1-	19.719	2-	11.205	X
337A	P16		10	3-	17.660	4-	10.289	X
337B	P16		10	5-	16.525	6-	9.634	X
296A	P15		10	7-	16.395	8-	9.592	X
334B	P16		10	1-	17.241	2-	10.120	X
239A	P12		10	3-	11.646	4-	7.103	X
563	P26		10	5-	23.825	6-	13.275	X
LOOP	64A		10	7-	21.954	8-	12.732	X
396A	P19		10	1-	17.702	2-	10.183	X
465B	P23		10	3-	20.300	4-	11.492	X
328A	P16		10	5-	17.246	6-	10.232	X
LOOP	54A		10	7-	15.301	8-	9.243	X
327	P16		10	1-	16.827	2-	10.154	X
291B	P13		10	3-	15.210	4-	9.245	X
246	P12		10	5-	13.093	6-	7.992	X
239B	P12		10	7-	11.850	8-	7.315	X
564	P26		10	1-	23.631	2-	13.346	X
LOOP	P24B		10	3-	21.443	4-	12.248	X
LOOP	P26A		10	5-	24.359	6-	13.691	X
591B	P17		10	7-	16.509	8-	9.835	X
451A	P21		10	1-	2.647	2-	1.970	X
237	P12		10	3-	12.081	4-	7.471	X
241	P12		10	5-	12.061	6-	7.360	X
245A	P12		10	7-		8-		
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

572	479	481 ^B	568	464 ^A	337	337	296 ^A
CHL	Chl	Chl	CHL	Chl	CHL ^A	CHL ^B	Chl
P26	P24	P24	P26	P23	P16	P16	P15
0 m	50 m	5 m	15 m	50 m	5 m	5 m	5 m
2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01
Bot 19	Bot 14	Bot 16	Bot 15	Bot 1	Bot i7	Bot 17	Bot 2

334 ^B	239 ^A	563	0 ^A	396 ^A	465 ^B	328 ^A	0 ^A
CHL	CHL	CHL	CHL	Chl	Chl	CHL	CHL ^A
P16	P12	P26	LOOP ⁴	P19	P23	P16	LOOP ⁵⁴
20 m	50 m	40 m	LOOP	5 m	5 m	50 m	LOOP
2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01
Bot 14	Bot 8	Bot 10	Bot	Bot 2	Bot 2	Bot 8	Bot

327	291	246	239 ^B	564	0	0 ^A	391 ^B
CHL	Chl	CHL	CHL	CHL	CHL ^B	CHL	Chl
P16	P13	P12	P12	P26	'24 LOOP	p26 loop	P17
75 m	5 m ^B	15 m	50 m	30 m	LOOP	LOOP	5 m
2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01
Bot 7	Bot 2	Bot 15	Bot 8	Bot 11	Bot	Bot	Bot 4

451 ^A	237	241	245 ^A
Chl	CHL	CHL	CHL
P21	P12	P12	P12
50 m	100 m	40 m	20 m
2016-01	2016-01	2016-01	2016-01
Bot 13	Bot 6	Bot 10	Bot 14

Chlorophyll Data Sheet

Cruise: 2016-01

Page: 3 of 3

Dates of Cruise:

Time and date acetone added: 30 Mar 16 3:45pm

Analyst: Tamara

Time and date out of freezer: 31 Mar 16 2:00pm

Time analysis started: 31 Mar 16 3pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	12.027			
STD			HIGH	4-	65.312			
Blank				6-	-0.019	8- +acid	-0.020	
								DF?
39	P2	330	10	1-	25.524	2-	14.516	x
43B	P2		10	3-	21.632	4-	12.459	x
95	P4		10	5-	16.205	6-	9.094	x
35	P2		10	7-	25.609	8-	14.515	x
161A	P5		10	1-	21.267	2-	12.405	x
164B	P6		10	3-	35.439	4-	20.830	x
181	P8		10	5-	13.707	6-	8.576	x
188B	P8		10	7-	17.139	8-	10.112	x
229B	P10		10	1-	10.472	2-	6.198	x
231A	P11		10	3-	11.711	4-	7.369	x
221A	P10		10	5-	10.707	6-	6.359	x
243	P12		10	7-	11.764	8-	7.147	x
LOOP	P4B		10	1-	15.512	2-	8.952	x
98	P4		10	3-	16.230	4-	9.226	x
43A	P2		10	5-	23.710	6-	13.508	x
LOOP	P1A		10	7-	20.478	8-	12.145	x
38	P2		10	1-	25.593	2-	14.870	x
31A	P1		10	3-	19.998	4-	11.703	x
185A	P8		10	5-	18.148	6-	10.811	x
87	P4		10	7-	19.114	8-	11.715	x
160B	P5		10	1-	22.947	2-	13.533	x
89A	P4		10	3-	16.129	4-	9.164	x
190B	P9		10	5-	13.297	6-	7.789	x
36A	P2		10	7-	25.593	8-	14.725	x
185B	P8		10		17.260		10.276	x
Stand-by				1-	-0.019			
Std	Low			2-	12.023			
Std	High			4-	64.967			
Blank	by			6-	-0.019	8- -0.021		(+acid)

39 CHL P2 20 m 2016-01 Bot 8	43 B CHL P2 5 m 2016-01 Bot 12	95 CHL P4 10 m 2016-01 Bot 16	35 CHL P2 40 m 2016-01 Bot 4	161 Chl A P5 5 m 2016-01 Bot 4	164 B CHL P6 5 m 2016-01 Bot 3	181 Chl P8 75 m 2016-01 Bot 15	188 Chl P8 B 5 m 2016-01 Bot 22
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229 B CHL P10 2016-01 Bot 15	231 Chl P11 A 5 m 2016-01 Bot 2	221 A CHL P10 2016-01 Bot 7	243 CHL P12 25 m 2016-01 Bot 12	Loop CHL B P4 Loop 2016-01 Bot	98 CHL P4 0 m 2016-01 Bot 19	43 A CHL P2 5 m 2016-01 Bot 12	Loop CHL A P1 Loop 2016-01 Bot
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38 CHL P2 25 m 2016-01 Bot 7	31 A CHL P1 5 m 2016-01 Bot 3	185 Chl P8 A 20 m 2016-01 Bot 19	87 CHL P4 50 m 2016-01 Bot 8	160 Chl P5 30 m 2016-01 Bot 3	89 A CHL P4 30 m 2016-01 Bot 10	190 B Chl P9 5 m 2016-01 Bot 2	36 A CHL P2 30 m 2016-01 Bot 5
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185
Chl
P8 B
20 m
2016-01
Bot 19

Chlorophyll Data Sheet

Cruise: 2016-01

Page: 1 of 3

Dates of Cruise:

Time and date acetone added: 31 Mar 16 11 a.m.

Analyst: Tamara

Time and date out of freezer: 01 Apr 16 9:25 a.m.

Time analysis started: 01 Apr 16 10:55 a.m.

(fp got to turn on fluorometer until 9:55 a.m.)

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.08			
STD			LOW	2-	-0.019			
STD			HIGH	4-	12.293			
Blank				6-	66.520			
				8-	-0.013	8- + acid	-0.015	
								DF?
55A	P3	330	10	1-	15.939	2-	9.093	x
33	P2		10	3-	11.399	4-	7.687	x
88	P4		10	5-	15.917	6-	8.954	x
34	P2		10	7-	26.929	8-	15.590	x
184	P8		10	1-	17.730	2-	10.439	x
165B	P7		10	3-	22.194	4-	12.475	x
230A	P11		10	5-	12.047	6-	7.332	x
166B	P7		10	7-	18.087	8-	10.303	x
91	P4		10	1-	15.783	2-	8.951	x
LOOP	15 P2		10	3-	28.813	4-	16.366	x
LOOP	10		10	5-	23.176	6-	13.430	x
LOOP	JF3 B		10	7-	31.529	8-	17.861	x
LOOP	JF1 A		10	1-	25.613	2-	15.002	x
183A	P8		10	3-	15.815	4-	9.595	x
229A	P10		10	5-	11.339	6-	6.914	x
162A	P6		10	7-	30.164	8-	17.828	x
230B	P11		10	1-	10.970	2-	6.647	x
30A	P1		10	3-	20.231	4-	11.769	x
27B	JF2		10	5-	40.048	6-	23.321 22.742	x
41	P2		10	7-	24.917	8-	14.232	x
189B	P9		10	1-	12.294	2-	7.390	x
96A	P4		10	3-	15.494	4-	8.676	x
LOOP	P2		10	5-	24.914	6-	14.269	x
238	P12		10	7-	11.629	8-	7.582	x
85	P4		10	1	4.759	2	3.790	x
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

55 A	33	88	34	104	165 B	230	166 B
Chl	CHL	CHL	CHL	Chl	Chl	Chl A	Chl
P3	P2	P4	P2	P8	P7	P11	P7
5 m	75 m	40 m	50 m	25 m	30 m	50 m	5 m
2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01
Bot 2	Bot 2	Bot 9	Bot 3	Bot 18	Bot 1	Bot 1	Bot 2
				184			

91	u	LOOP-10	LOOP	LOOP	Chl	229A	162A
CHL	CHL	CHL	CHL B	CHL A	P8 A	CHL	CHL
P4	P2	Loop-10	JF3	JF1	50 m	P10	P6
25 m	LOOP 15	LOOP	LOOP	LOOP	2016-01	2016-01	30 m
2016-01	016-01	2016-01	2016-01	2016-01	Bot 17	2016-01	2016-01
Bot 12	Bot	Bot	Bot 1	Bot 1	183	Bot 15	Bot 1

230	30 A	27 B	41	189 B	96 A	LOOP	238
Chl B	CHL	CHL	CHL	Chl	CHL	CHL	CHL
P11	P1	JF2	P2	P9	P4	P2	P12
50 m	30 m	5 m	15 m	50 m	5 m	LOOP	75 m
2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01	2016-01
Bot 1	Bot 2	Bot 12	Bot 10	Bot 1	Bot 17	Bot	Bot 7

85 |
 CHL
 P4
 100 m
 2016-01
 Bot 6

Chlorophyll Data Sheet

Cruise: 2016-01

Page: 2 of 3

Dates of Cruise:

Time and date acetone added: 31 March 2016 2:18 pm Analyst: Tamara

Time and date out of freezer: 01 April 2016 12:17 pm

Time analysis started: 01 April 2016 01:20 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	12.026			
STD			HIGH	4-	65.456			
Blank				6-	-0.016	8- +acid	-0.017	
								DF?
LOOP	10	330	10	1-	24.285	2-	14.248	x
LOOP	JF1 B		10	3-	25.394	4-	14.864	x
45	P2		10	5-	24.697	6-	14.151	x
LOOP	24A		10	7-	19.659	8-	11.828	x
LOOP	JF4 A		10	1-	37.453	2-	21.443	21.045 x
24B	JF2		10	3-	42.121	4-	24.185	x
LOOP	24B		10	5-	18.728	6-	11.386	x
LOOP	P8A		10	7-	15.789	8-	9.461	x
89A	P9		10	1-	12.977	2-	7.850	x
221B	P10		10	3-	11.065	4-	6.662	x
160A	P5		10	5-	22.788	6-	13.012	x
LOOP	P8 B		10	7-	16.350	8-	9.779	x
LOOP	P4 A		10	1-	15.563	2-	8.856	x
96B	P4		10	3-	14.833	4-	8.343	x
180	P8		10	5-	7.221	6-	4.967	x
86B	P4		10	7-	13.360	8-	7.782	x
190A	P9		10	1-	13.782	2-	8.099	x
166A	P7		10	3-	19.875	4-	11.400	x
188A	P8		10	5-	17.394	6-	10.452	x
242	P12		10	7-	12.364	8-	7.751	x
89B	P4		10	1-	15.497	2-	8.828	x
40A	P2		10	3-	24.633	4-	14.023	x
231B	P11		10	5-	6.558	6-	4.071	x
LOOP	P2		10	7-	24.506	8-	13.992	x
40B	P2		10		24.890		14.424	x
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

Loop-10
CHL
Loop-10
LOOP
2016-01
Bot

Loop
CHL B
JF1
LOOP
2016-01
~~Bot 1~~

45
CHL
P2
0 m
2016-01
Bot 14

Loop
CHL A
Loop 24
LOOP
2016-01
~~Bot~~

Loop
CHL A
JF4
LOOP
2016-01
~~Bot 1~~

24 B
CHL
JF2
30 m
2016-01
Bot 9

Loop
CHL B
Loop 24
LOOP
2016-01
~~Bot~~

Loop
CHL A
P8
LOOP
2016-01
Bot

189 A
Chl
P9
50 m
2016-01
Bot 1

221 B
CHL
P10
2016-01
Bot 7

160
Chl A
P5
30 m
2016-01
Bot 3

Loop
CHL A
P8
LOOP
2016-01
Bot

Loop
CHL A
P4
LOOP
2016-01
~~Bot~~

96 B
CHL
P4
5 m
2016-01
Bot 17

180
Chl
P8
100 m
2016-01
Bot 14

86
CHL
P4
75 m
2016-01
Bot 7

190 A
Chl
P9
5 m
2016-01
Bot 2

166 A
Chl
P7
5 m
2016-01
Bot 2

188
Chl
P8 A
5 m
2016-01
Bot 22

242
CHL
P12
30 m
2016-01
Bot 11

89
CHL
P4
30 m
2016-01
Bot 10

40 A
CHL
P2
15 m
2016-01
Bot 9

231
Chl
P11 B
5 m
2016-01
Bot 2

Loop
CHL
P2
LOOP
2016-01
~~Bot~~

40 B
CHL
P2
15 m
2016-01
Bot 9

Chlorophyll Data Sheet

Cruise: 2016-01

Page: 3 of 3

Dates of Cruise:

Time and date acetone added: 31 Mar 16 4:05 pm

Analyst: Tamar

Time and date out of freezer: 01 Apr 16 2:10 pm

Time analysis started: 01 Apr 16 3:12 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	12.090			
STD			HIGH	4-	65.458			
Blank				6-	-0.016	8- +acid	-0.021	
								DF?
44	P2	330	10	1-	24.712	2-	14.010	X
55B	P3		10	3-	15.926	4-	8.965	X
27A	JE2		10	5-	42.639	6-	23.821	X
37	P2		10	7-	25.994	8-	14.723	X
24A	JE2		10	1-	43.882	2-	24.947	X
164A	P6		10	3-	34.001	4-	19.947	X
LOOP	JE3A		10	5-	32.860	6-	18.578	X
186	P8		10	7-	16.378	8-	9.666	X
32	P2		10	1-	9.721	2-	7.976	X
LOOP	JE4B		10	3-	33.300	4-	18.983	X
54B	P3		10	5-	16.471	6-	9.443	X
161B	P5		10	7-	20.699	8-	12.094	X
LOOP	P1B		10	1-	20.799	2-	12.099	X
36B	P2		10	3-	26.177	4-	14.966	X
30B	P1		10	5-	20.887	6-	12.043	X
LOOP	15 P2		10	7-	26.871	8-	15.412	X
31B	P1		10	1-	20.858	2-	12.184	X
93B	P4		10	3-	14.460	4-	8.199	X
162B	P6		10	5-	29.973	6-	17.631	X
54A	P3		10	7-	16.428	8-	9.541	X
42	P2		10	1-	25.523	2-	14.698	X
93A	P4		10	3-	15.178	4-	8.649	X
92	P4		10	5-	14.836	6-	8.356	X
165A	P7		10	7-	22.422	8-	12.986	X
183B	P8		10		15.462		9.260	X
Stand-by				1-	-0.021			
Std	Low			2-	12.072			
Std	High			4-	65.257			
Blank	by			6-	-0.020	8- +acid	-0.022	

44
CHL
P2
5 m
2016-01
Bot 13

55 B
Chl
P3
5 m
2016-01
Bot 2

27 A
CHL
JF2
5 m
2016-01
Bot 12

37
CHL
P2
30 m
2016-01
Bot 6

24 A
CHL
JF2
30 m
2016-01
Bot 9

164 A
CHL
P6
5 m
2016-01
Bot 3

LOOP
CHL A
JF3
LOOP
2016-01
~~Bot 1~~

186
Chl
P8
10 m
2016-01
Bot 20

32
CHL
P2
100 m
2016-01
Bot 1

LOOP
CHL B
JF4
LOOP
2016-01
~~Bot 1~~

54 B
Chl
P3
30 m
2016-01
Bot 1

161
Chl B
P5
5 m
2016-01
Bot 4

LOOP B
CHL
P1
LOOP
2016-01
~~Bot~~

36 B
CHL
P2
30 m
2016-01
Bot 5

30 B
CHL
P1
30 m
2016-01
Bot 2

U
CHL
P2
LOOP 15
016-01
Bot

31 B
CHL
P1
5 m
2016-01
Bot 3

93 B
CHL
P4
15 m
2016-01
Bot 14

162 B
CHL
P6
30 m
2016-01
Bot 1

54 A
Chl
P3
30 m
2016-01
Bot 1

42
CHL
P2
10 m
2016-01
Bot 11

93 A
CHL
P4
15 m
2016-01
Bot 14

92
CHL
P4
20 m
2016-01
Bot 13

165 A
Chl
P7
30 m
2016-01
Bot 1

Chl
P8 B
50 m
2016-01
Bot 17

183

Chlorophyll Data Sheet

Cruise: 2016-01

Page: 1 of 2

Dates of Cruise:

Time and date acetone added: 06 Apr 16 12:15 pm

Analyst: Tamara

Time and date out of freezer: 07 Apr 16 10:15 pm

Time analysis started: 07 Apr 16 11:15 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.017			
STD			LOW	2-	12.256			
STD			HIGH	4-	66.760			
Blank				6-	-0.017	8- + acid	-0.017	
								DF?
LOOP	95B	330	10	1-	35.232	2-	19.629	x
LOOP	93A		10	3-	42.282	4-	23.976	x
LOOP	91A		10	5-	34.955	6-	20.830	x
LOOP	89B		10	7-	15.216	8-	9.021	x
LOOP	86B		10	1-	14.921	2-	8.697	x
617A	P20		10	3-	15.195	4-	8.748	x
614B	P20		10	5-	15.284	6-	8.886	x
612	P20		10	7-	14.467	8-	8.426	x
608A	P20		10	1-	15.562	2-	9.089	x
610	P20		10	3-	14.563	4-	8.547	x
LOOP	P20 B		10	5-	15.170	6-	8.927	x
615	P20		10	7-	11.919	8-	7.025	x
619	P20		10	1-	14.397	2-	8.442	x
LOOP	82B		10	3-	14.726	4-	8.689	x
LOOP	79B		10	5-	18.524	6-	10.364	x
LOOP	78A		10	7-	20.448	8-	11.567	x
LOOP	71A		10	1-	24.981	2-	13.918	x
598A	P35		10	3-	24.822	4-	13.762	x
597B	P35		10	5-	24.806	6-	13.920	x
599	P25		10	7-	23.849	8-	13.392	x
600B	P25		10	1-	22.047	2-	12.276	x
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

0 CHL <i>B</i>	0 A CHL LOOP93 LOOP 2016-01 Bot	0 A CHL LOOP94 LOOP 2016-01 Bot	0 B CHL LOOP89 LOOP 2016-01 Bot	0 B <i>368</i> Loop 2016-01	617 A CHL P20 5 m 2016-01 Bot 17	614 B CHL P20 20 m 2016-01 Bot 14	612 CHL P20 25 m 2016-01 Bot 12
608 A CHL P20 50 m 2016-01 Bot 8	610 CHL P20 40 m 2016-01 Bot 10	<i>Bot loop</i> <i>Ch 1 B</i> <i>2016-01</i>	615 CHL P20 15 m 2016-01 Bot 15	619 CHL P20 0 m 2016-01 Bot 19	0 B CHL LOOP82 LOOP 2016-01 Bot	0 B CHL LOOP79 LOOP 2016-03 Bot	0 CHL A LOOP78 LOOP 2016-01 Bot
0 A CHL Loop71 LOOP 2016-01 Bot	598 Chl P35 5 m 2016-01 Bot 2	597 B Chl P35 50 m 2016-01 Bot 1	599 L Chl P25 50 m 016-01 Bot 1	599 B Chl P25 5 m 016-01 Bot 2			

Chlorophyll Data Sheet

Cruise: 2016-01

Page: 2 of 2

600A spilled leaked
w/ ml
acetone

Dates of Cruise:

Time and date acetone added: 06 Apr 16 2:13 pm

Analyst: Tamara

Time and date out of freezer: 07 Apr 16 12 noon

Time analysis started: 07 Apr 16 1:13 pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	12.165			
STD			HIGH	4-	65.613			
Blank				6-	-0.016	8-	-0.020	
								DF?
611	P20	330	10	1-	14.849	2-	8.713	X
spilled 1 ml acetone → 600A	P25		10	3-	25.393	4-	14.231	X
616	P20		10	5-	14.850	6-	8.715	X
599A	P25		10	7-	22.766	8-	12.731	X
LOOP	P20A		10	1-	14.889	2-	8.763	X
598B	P35		10	3-	19.570	4-	10.775	X
LOOP	91B		10	5-	34.515	6-	20.309	X
597A	P35		10	7-	24.533	8-	13.585	X
LOOP	95A		10	1-	34.029	2-	19.333	X
LOOP	71B		10	3-	25.077	4-	14.060	X
608B	P20		10	5-	15.181	6-	8.949	X
78B	LOOP		10	7-	19.810	8-	11.262	X
LOOP	86A		10	1-	15.242	2-	8.935	X
LOOP	79A		10	3-	17.887	4-	10.110	X
LOOP	89A		10	5-	14.689	6-	8.780	X
LOOP	82A		10	7-	14.973	8-	8.880	X
614A	P20		10	1-	14.766	2-	8.679	X
LOOP	93B		10	3-	40.802	4-	23.395	X
606	P20		10	5-	10.678	6-	6.530	X
607	P20		10	7-	14.339	8-	8.700	X
617B	P20		10	1-	15.883	2-	9.319	X
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-4	-0.021			
Std	Low			2-	12.093			
Std	High			4-	65.488			
Blank	by			6-	-0.020	8- acid	-0.021	

611
CHL
P20
30 m
2016-01
Bot 11

600
Chl
P25
5 m
016-01
Bot 2

616
CHL
P20
10 m
2016-01
Bot 16

599 A
Chl
P25
50 m
016-01
Bot 1

P20/np
Chl A
2016-01

598
Chl B
P35
5 m
2016-01
Bot 2

0 B
CHL
LOOP90
LOOP
2016-01
Bot

597 A
Chl
P35
50 m
2016-01
Bot 1

0 A
CHL
RETURN-EX
LOOP 95
2016-01
Bot

0 B
CHL
Loop71
LOOP
2016-01
Bot

608 B
CHL
P20
50 m
2016-01
Bot 8

0
CHL B
LOOP78
LOOP
2016-01
Bot

86A
Loop
2016-01

0
CHL A
LOOP79
LOOP
2016-01
Bot

0
CHL A
LOOP80
LOOP
2016-01
Bot

0 A
CHL
LOOP82
LOOP
2016-01
Bot

614 A
CHL
P20
20 m
2016-01
Bot 14

0 B
CHL
LOOP93
LOOP
2016-01
Bot

606
CHL
P20
100 m
2016-01
Bot 6

607
CHL
P20
75 m
2016-01
Bot 7

617 B
CHL
P20
5 m
2016-01
Bot 17