

Chlorophyll Data Sheet

Cruise: 2014-60

Page: 1 of 2

Date acetone added: 27 Oct 14

Time acetone added: 10:10 a.m.

Date of analysis:

Analyst: Tamar

out of freezer @ 8:45 a.m.
started reading @ 10 a.m.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.008			
STD			LOW	2-	12.428			
			HIGH	4-	67.636			
Blank				6-	0.004 + acid	0.005		
		330	10					
240B	69			1-	67.809	2-	38.536	
239A	69			3-	67.220	4-	39.219	
240A	69			5-	71.830	6-	40.897	spill N/0ml @ filtration
239B	69			7-	65.720	8-	38.109	
230B	ADCP			1-	89.102	2-	49.770	
230A	ADCP			3-	90.900	4-	49.562	
228B	ADCP			5-	71.450	6-	40.575	
228A	ADCP			7-	63.946	8-	36.337	
227B	ADCP			1-	38.883	2-	24.241	
227A	ADCP			3-	38.433	4-	24.246	
220B	65			5-	76.959	6-	41.898	41.588
220A	65			7-	77.990	8-	42.502	
218B	65			1-	99.725	2-	53.789	
218A	65			3-	113.149	4-	60.823	
217B	65			5-	83.385	6-	46.060	
217A	65			7-	92.137	8-	50.473	
210B	62			1-	68.609	2-	38.258	
210A	62			3-	75.242	4-	40.952	
208B	62			5-	63.882	6-	35.798	
208A	62			7-	64.719	8-	36.958	
207B	62			1-	55.875	2-	33.003	
207A	62			3-	55.773	4-	32.932	
187B	59			5-	103.862	6-	58.016	
187A	59			7-	107.020	8-	59.563	
Blank				3-				
Std	Low			5-				
Std	High			7-				
Stand-	by			8-				

240 ^B	239 ^A	240 ^A	239 ^B	230 ^B	230 ^A	228 ^B	228 ^A	227 ^B
Chl	Chl	Chl	Chl	Chl	Chl	Chl	Chl	Chl
Stn69	Stn69	Stn69	Stn69	StnADCP	StnADCP	StnADCP	StnADCP	StnADCP
10 m	20 m	10 m	20 m	0 m	0 m	10 m	10 m	20 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 10	Bot 9	Bot 10 <i>spill - 10m/s</i>	Bot 9	Bot 10	Bot 10	Bot 8	Bot 8	Bot 7

227 ^A	220 ^B	220 ^A	218 ^B	218 ^A	217 ^B	217 ^A	210 ^B
Chl	Chl	Chl	Chl	Chl	Chl	Chl	Chl
StnADCP	Stn65	Stn65	Stn65	Stn65	Stn65	Stn65	Stn62
20 m	0 m	0 m	10 m	10 m	20 m	20 m	0 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 7	Bot 10	Bot 10	Bot 8	Bot 8	Bot 7	Bot 7	Bot 11

210 ^A	208	208	207	207	187 ^B	187 ^A
Chl	Chl ^B	Chl ^A	Chl ^B	Chl ^A	Chl	Chl
Stn62	Stn62	Stn62	Stn62	Stn62	Stn59	Stn59
0 m	10 m	10 m	20 m	20 m	0 m	0 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 11	Bot 9	Bot 9	Bot 8	Bot 8	Bot 14	Bot 14

Chlorophyll Data Sheet

Cruise: 2014-60

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Date acetone added: 27 Oct 14

Time acetone added: 11:55 a.m.

Date of analysis:

Analyst: Tamara

out of freezer @ 10:40 a.m.
started reading @ 11:45 a.m.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.006			
STD			LOW	2-	12,337			
			HIGH	4-	66.917			
Blank				6-	0.006 + acid	0.005		
		330	10					
185B	59			1-	102.229	2-	57.081	
185A	59			3-	108.159	4-	59.904	
184B	59			5-	102.373	6-	56.657	
184A	59			7-	102.393	8-	57.776	
173B	56			1-	129.412	2-	71.398	
173A	56			3-	145.568	4-	79.727	
171B	56			5-	84.799 84.581			forgot to acidify
171A	56			7-	86.876	8-	49.725	
170B	56			1-	64.568	2-	37.899	
170A	56			3-	65.739	4-	38.557	
157B	46		20	5-	198.710	6-	105.189	
156A	46		10	7-	55.518	8-	32.838	
156B	46			1-	54.438	2-	30.122	
159A	46			3-	217.585	4-	115.412	
159B	46			5-	221.293	6-	117.926	
157A	46		20	7-	196.788	8-	103.567	
144A	42		10	1-	35.376	2-	20.799	
145A	42			3-	136.961	4-	74.268	
145B	42			5-	140.321	6-	76.732	
144B	42			7-	36.336	8-	21.343	
129B	39			1-	141.613	2-	81.450	
131B	39			3-	167.813	4-	92.105	
128A	39			5-	36.409	6-	23.518	
131A	39			7-	160.479	8-	91.518	
Blank				3-	0.005 + acid	0.003		
Std	Low			5-	12.167			
Std	High			7-	66.182			
Stand-	by			8-	0.007			

185B	185A	184B	184A	173B	173A	171B	171A
Chl	Chl	Chl	Chl	Chl	Chl	Chl	Chl
Stn59	Stn59	Stn59	Stn59	Stn56	Stn56	Stn56	Stn56
10 m	10 m	20 m	20 m	0 m	0 m	10 m	10 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 12	Bot 12	Bot 11	Bot 11	Bot 14	Bot 14	Bot 12	Bot 12

170B	170A	157B	156A	156B	159A	159B	157A
Chl	Chl	Chl	Chl	Chl	Chl	Chl	Chl
Stn56	Stn56	Stn46	Stn46	Stn46	Stn46	Stn46	Stn46
20 m	20 m	10 m	20 m	20 m	0 m	0 m	10 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 11	Bot 11	Bot 10	Bot 9	Bot 9	Bot 12	Bot 12	Bot 10

144	145	145	144	129B	131B	128A	131A
ChlA	ChlA	ChlB	ChlB	Chl	Chl	Chl	Chl
Stn42	Stn42	Stn42	Stn42	Stn39	Stn39	Stn39	Stn39
20 m	10 m	10 m	20 m	10 m	0 m	20 m	0 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 13	Bot 14	Bot 14	Bot 13	Bot 15	Bot 17	Bot 14	Bot 17

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Cruise: 2014-60

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Date acetone added: 29 Oct 14

Time acetone added: 11:25 a.m.

Date of analysis: 30 Oct 14

Analyst: Tamar
out of freezer @ 9:25 a.m.
started reading @ 10:55 a.m.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.007			
STD			LOW	2-	12.421			
			HIGH	4-	67.480			
Blank				6-	0.004 + acid	0.002		
		330	10					
129A	39			1-	141.530	2-	81.155	80.900
128B	39			3-	40.109	4-	25.435	
147A	42			5-	266.730	6-	142.005	
147B	42			7-	239.416	8-	138.697	
111B	27			1-	19.391	2-	12.573	
111A	27			3-	19.803	4-	12.771	
112B	27			5-	55.968	6-	32.845	
112A	27			7-	55.740	8-	32.780	
114B	27			1-	71.166	2-	41.249	
114A	27			3-	72.009	4-	41.859	
98B	2			5-	23.194	6-		forgot read Rb
98A	2			7-	37.116	8-	22.711	
96B	2			1-	75.033	2-	45.770	
96A	2			3-	73.403	4-	44.939	
95B	2			5-	43.890	6-	26.085	
95A	2			7-	44.844	8-	26.413	
83B	3			1-	56.894	2-	35.450	
83A	3			3-	55.739	4-	34.623	
81B	3			5-	33.616	6-	22.189	
81A	3			7-	29.643	8-	18.161	
80B	3			1-	29.411	2-	20.528	
80A	3			3-	28.969	4-	20.124	
67B	6			5-	119.039	6-	69.639	
67A	6			7-	116.105	8-	67.489	
Blank				3-				
Std	Low			5-				
Std	High			7-				
Stand-	by			8-				

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26A + 26B = 20ml * really green

Measure F/H -
look for prefab legs

129A
Chl
Stn39
10 m
2014-60
Bot 15

128B
Chl
Stn39
20 m
2014-60
Bot 14

147
Chl A
Stn42
0 m
2014-60
Bot 16

147
Chl B
Stn42
0 m
2014-60
Bot 16

111B
Chl
Stn27
20 m
2014-60
Bot 13

111A
Chl
Stn27
20 m
2014-60
Bot 13

112B
Chl
Stn27
10 m
2014-60
Bot 14

112A
Chl
Stn27
10 m
2014-60
Bot 14

114B
Chl
Stn27
0 m
2014-60
Bot 16

114A
Chl
Stn27
0 m
2014-60
Bot 16

98B
Chl
Stn2
0 m
2014-60
Bot 15

98A
Chl
Stn2
0 m
2014-60
Bot 15

96B
Chl
Stn2
10 m
2014-60
Bot 13

96A
Chl
Stn2
10 m
2014-60
Bot 13

95B
Chl
Stn2
20 m
2014-60
Bot 12

95A
Chl
Stn2
20 m
2014-60
Bot 12

83B
Chl
Stn3
0 m
2014-60
Bot 16

83A
Chl
Stn3
0 m
2014-60
Bot 16

81B
Chl
Stn3
10 m
2014-60
Bot 14

81A
Chl
Stn3
10 m
2014-60
Bot 14

80B
Chl
Stn3
20 m
2014-60
Bot 13

80A
Chl
Stn3
20 m
2014-60
Bot 13

67B
Chl
Stn6
0 m
2014-60
Bot 13

67A
Chl
Stn6
0 m
2014-60
Bot 13

Chlorophyll Data Sheet

Cruise: 2014-60

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Date acetone added: 29 Oct 14

Time acetone added: 3:10 PM

Date of analysis: 30 Oct 14

Analyst: Tamara

out of freezer @ 1:20 p.m.
started reading @ 2:30 p.m.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.004			
STD			LOW	2-	12.299			
			HIGH	4-	67.038			
Blank				6-	0.003 + acid	0.002		
		330	10					
65B	6			1-	68.989	2-	41.561	
65A	6			3-	68.107	4-	40.274	
64B	6			5-	64.686	6-	37.737	
64A	6			7-	69.353	8-	41.266	
52A	9			1-	54.532	2-	32.701	
52B	9			3-	54.485	4-	33.174	
51B	9			5-	45.674	6-	27.685	
51A	9			7-	45.801	8-	27.895	
51A	9			1-	203.107	2-	114.062	
54B	9			3-	202.187	4-	114.453	
39B	12			5-	13.849	6-	10.277	
40B	12			7-	81.531	8-	50.918	
42B	12			1-	158.457	2-	89.594	
23B	14			3-	173.335	4-	95.815	
23A	14			5-	184.502	6-	103.784	103.352
24B	14			7-	144.764	8-	80.153	
24A	14			1-	154.738	2-	86.122	
11A	16			3-	237.876	4-	128.395	
26B	14		20	5-	157.219	6-	83.915	DF=3 (5ml → 15ml total)
26A	14		20	7-	156.462	8-	82.781	DF=3 (5ml → 15ml total)
9A	16		10	1-	220.749	2-	121.623	
9B	16		10	3-	216.131	4-	119.153	
11B	16		10	5-	229.715	6-	124.407	
8A	16		10	7-	197.307	8-	108.871	
Blank				3-	0.002 + acid	0.003		
Std	Low			5-	12.329			
Std	High			7-	67.009			
Stand-	by			8-	0.006			

65 ^A	65 ^A	64 ^C	64 ^A	52 ^A	52 ^B	51 ^B	51 ^A
Chl	Chl	Chl	Chl	Chl	Chl	Chl	Chl
Stn6	Stn6	Stn6	Stn6	Stn9	Stn9	Stn9	Stn9
10 m	10 m	20 m	20 m	10 m	10 m	20 m	20 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 11	Bot 11	Bot 10	Bot 10	Bot 10	Bot 10	Bot 9	Bot 9

54 ^A	54 ^B	39 ^B	40 ^B	42 ^B	23 ^B	23 ^A	24 ^B
Chl	Chl	Chl	Chl	Chl	Chl	Chl	Chl
Stn9	Stn9	Stn12	Stn12	Stn12	Stn14	Stn14	Stn14
0 m	0 m	20 m	10 m	0 m	20 m	20 m	10 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 12	Bot 12	Bot 13	Bot 14	Bot 16	Bot 12	Bot 12	Bot 13

24 ^A	11 ^A	26 ^B	26 ^A	9 ^A	9 ^B	11 ^B	8 ^A
Chl	Chl	Chl	Chl	Chl	Chl	Chl	Chl
Stn14	Stn16	Stn14	Stn14	Stn16	Stn16	Stn16	Stn16
10 m	0 m	0 m	0 m	10 m	10 m	0 m	20 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 13	Bot 11	Bot 15	Bot 15	Bot 9	Bot 9	Bot 11	Bot 8

Chlorophyll Data Sheet

Cruise: 2014-60

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Date acetone added: 30 Oct 14

Time acetone added: 10:35 a.m.
out of freezer @ 9:10 a.m.
started reading @ 10:15 a.m.

Date of analysis: 31 Oct 14

Analyst: Tamar

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.006			
STD			LOW	2-	12.502			
			HIGH	4-	67.640			
Blank				6-	0.004			
		330	10					
8B	16			1-	228.623	2-	124.819	
39A	12			3-	15.005	4-	10.763	
42A	12			5-	55.416	6-	87.411	
40A	12			7-	77.236	8-	47.163	
444	42			1-	36.350	2-	21.641	
445	42			3-	170.802	4-	94.333	
445	42			5-	168.135	6-	93.576	
444A	42			7-	34.753	8-	20.705	10ml spill @ filtration
447	42			1-	190.828	2-	107.645	
447	42			3-	183.750	4-	103.787	
429A	12			5-	77.086	6-	46.339	
431B	12			7-	67.471	8-	37.919	
431A	12			1-	65.244	2-	36.909	
428B	12			3-	22.642	4-	14.100	
428A	12			5-	22.815	6-	14.337	
429B	12			7-	76.499	8-	46.267	
280B	102			1-	49.644	2-	27.654	
281B	102			3-	144.470	4-	77.132	
267A	75			5-	95.251	6-	52.935	
267B	75			7-	100.834	8-	55.950	
269A	75			1-	104.246	2-	54.884	
269B	75			3-	103.709	4-	54.290	
282B	102			5-	132.580	6-	71.609	
282A	102			7-	138.368	8-	71.759	
Blank				3-				
Std	Low			5-				
Std	High			7-				
Stand-	by			8-				

- 10 m / sp. 11

8 D	39 A	42 A	40 A	444	445	445	444 A
Chl	Chl	Chl	Chl	CHL	CHL	CHL	CHL
Stn16	Stn12	Stn12	Stn12	42	42	42	42
20 m	20 m	0 m	10 m	20 m	10 m	10 m	20 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 8	Bot 13	Bot 16	Bot 14	Bot 13	Bot 14	Bot 14	Bot 13

447	447	429 A	431 B	431 A	428 B	428 A	429 B
CHL	CHL	Chl	Chl	Chl	Chl	Chl	Chl
42	42	Stn12	Stn12	Stn12	Stn12	Stn12	Stn12
0 m	0 m	10 m	0 m	0 m	20 m	20 m	10 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 16	Bot 16	Bot 14	Bot 16	Bot 16	Bot 13	Bot 13	Bot 14

280	281	267 A	267 B	269 A	269 B	282	282
Chl B	Chl B	Chl	Chl	Chl	Chl	Chl B	Chl A
Stn102	Stn102	Stn75	Stn75	Stn75	Stn75	Stn102	Stn102
20 m	10 m	10 m	10 m	0 m	0 m	5 m	5 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 11	Bot 12	Bot 12	Bot 12	Bot 14	Bot 14	Bot 13	Bot 13

Chlorophyll Data Sheet

Cruise: 2014-60

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Date acetone added: 30 Oct 14

Time acetone added: 1:35 pm

Date of analysis: 31 Oct 14

Analyst: Tamar

out of freezer @ 11:40 a.m.,
started reading @ 12:40 a.m.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.004			
STD			LOW	2-	12.366			
			HIGH	4-	67.326			
Blank				6-	0.003 + a id	0.001		
		330	10					
266B	75			1-	58.146	2-	32.567	32.398
266A	75			3-	60.019	4-	33.512	
255A	72			5-	76.346	6-	40.778	
255B	72			7-	76.398	8-	40.843	
253B	72			1-	81.987	2-	44.478	
253A	72			3-	78.943	4-	43.071	
252B	72			5-	71.941	6-	39.186	
252A	72			7-	59.690	8-	32.906	
242B	69			1-	90.217	2-	48.567	
242A	69			3-	104.464	4-	55.453	
280A	102			5-	46.789	6-	25.558	
281A	102			7-	141.188	8-	74.345	
283A	102			1-	116.924	2-	60.682	
283B	102			3-	129.726	4-	66.745	
				5-		6-		
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Blank				3-	0.003 + a id	0.002		
Std	Low			5-	12.374			
Std	High			7-	67.238			
Stand-	by			8-	0.007			

266 B	266 A	255 A	255 B	253 B	253 A	252 B	252 A
Chl	Chl	Chl	Chl	Chl	Chl	Chl	Chl
Stn75	Stn75	Stn72	Stn72	Stn72	Stn72	Stn72	Stn72
20 m	20 m	0 m	0 m	10 m	10 m	20 m	20 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 11	Bot 11	Bot 13	Bot 13	Bot 11	Bot 11	Bot 10	Bot 10

242 B	242 A	280	281	283	283
Chl	Chl	Chl A	Chl A	Chl A	Chl B
Stn69	Stn69	Stn102	Stn102	Stn102	Stn102
0 m	0 m	20 m	10 m	0 m	0 m
2014-60	2014-60	2014-60	2014-60	2014-60	2014-60
Bot 12	Bot 12	Bot 11	Bot 12	Bot 14	Bot 14