

new 2019 calibration
starts here

Chlorophyll Data Sheet

Cruise: 2019-016

Page: 1 of 2

Date acetone added: 13 May 2019

Time acetone added: 11:35am

Date of analysis: 11:15am 14 May 19
out of freezer 10am 14 May 19

Analyst: Tamar

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.018			
STD			LOW	2-	11.096			
			HIGH	4-	61.048			
Blank				6-	0.004 + aud	0.006		
301	59	304	10	1-	44.706	2-	27.732	no OF
303B	59			3-	57.233	4-	33.577	
260	42			5-	19.418	6-	12.272	
300	59			7-	30.791	8-	20.618	
259B	42			1-	18.726	2-	12.165	
262	42			3-	17.234	4-	9.885	
261	42			5-	20.584	6-	12.095	
289	56			7-	37.772	8-	24.123	
287B	56			1-	34.967	2-	24.902	
288	56			3-	35.978	4-	24.688	
227B	GE01			5-	20.046	6-	12.453	
228	GE01			7-	28.804	8-	16.034	
245	39			1-	20.654	2-	109.140	
229	GE01			3-	15.797	4-	8.605	
243	39			5-	18.329	6-	12.671	
246	39			7-	214.109	8-	112.968	
244A	39			1-	133.611	2-	75.493	
226	27			3-	32.793	4-	17.684	
223	27			5-	24.075	6-	15.756	
224	27			7-	22.098	8-	13.542	
208	24			1-	30.576	2-	21.952	
209	24			3-	23.174	4-	14.212	
210B	24			5-	17.077	6-	9.926	
204B	2			7-	32.481	8-	19.798	
Blank				3-				
Std	Low			5-				
Std	High			7-				
Stand-	by			8-				

std by

blank

301	303B	260	300	259B	262	261	289
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn 59	Stn 59	Stn 42	Stn 59	Stn 42	Stn 42	Stn 42	Stn 56
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 12	Bot 14	Bot 14	Bot 11	Bot 13	Bot 16	Bot 15	Bot 14

287B	288	227B	228	245	229	243	246
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn 56	Stn 56	GEO1	GEO1	Stn 39	GEO1	Stn 39	Stn 39
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 12	Bot 13	Bot 1	Bot 2	Bot 16	Bot 3	Bot 14	Bot 17

244A	226	223	224	208	209	210B	204B
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn 39	27	27	27	24	24	24	2
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 15	Bot 16	Bot 13	Bot 14	Bot 1	Bot 2	Bot 3	Bot 12

Chlorophyll Data Sheet

Cruise: 2019-016

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Date acetone added: 13 May 19

Time acetone added: 4:10pm

Date of analysis: 14 May 19

Analyst: Julian Smith?

Out of freezer @ 2:30pm 14 May 19

Analyzed @ 3:30pm 14 May 19

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-0.015				
STD			LOW	2-10.899				
			HIGH	4-59.771				
Blank				6-0.005 + 0.007 (acid)				
40.152 380	63	304ml	10ml	1-69.698		2-40.629		oops, forgot ADDF
343	72			3-99.079		4-56.888		
345	72			5-120.076		6-68.959		
342	72			7-98.335		8-56.621		
357	69			1-96.317		2-53.843		
356A	69			3-103.057		4-58.653		
355	69			5-107.235		6-61.147		
365A	ADCP			7-38.622		8-24.427		
364	ADCP			1-34.749		2-22.132		
318	102			3-110.667		4-61.106		
317A	102			5-115.429		6-63.612		
316	102			7-140.656		8-76.639		
315	102			1-86.324		2-49.006		
329	75			3-61.114		4-36.024		
331	75			5-108.289		6-58.878		
330B	75			7-112.581		8-61.852		
332	75			1-102.226		2-56.115		
274A	46			3-17.873		4-10.529		
275	46			5-16.850		6-9.698		
272	46			7-46.063		8-29.939		
273	46			1-35.479		2-23.329		
286	56			3-33.530		4-24.598		
302	59			5-53.699		6-32.628		
303A	59			7-67.453		8-39.335		
Blank				3-0.006 + 0.006 (acid)				
Std	Low			5-10.878				
Std	High			7-59.532				
Stand-	by			8-0.014				

Sampling start here after stand and blank

380	343	345	342	357	356A	355	365A	364
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn 63	Stn 72	Stn 72	Stn 72	Stn 69	Stn 69	Stn 69	Stn ADCP	Stn ADCP
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 3	Bot 11	Bot 13	Bot 10	Bot 12	Bot 11	Bot 10	Bot 8	Bot 7

318	317A	316	315	329	331	330B	332	274A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn 102	Stn 102	Stn 102	Stn 102	Stn 75	Stn 75	Stn 75	Stn 75	Stn 46
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 14	Bot 13	Bot 12	Bot 11	Bot 11	Bot 13	Bot 12	Bot 14	Bot 11

275	272	273	286	302	303A
CHL	CHL	CHL	CHL	CHL	CHL
Stn 46	Stn 46	Stn 46	Stn 56	Stn 59	Stn 59
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 12	Bot 9	Bot 10	Bot 11	Bot 13	Bot 14

Chlorophyll Data Sheet

Cruise:

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Date acetone added: 14 May 19

Time acetone added: 1:44 pm

Date of analysis: 15 May 19

Analyst: Julian Smith

Out of freezer @ 10:00 am

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-0.015				
STD			LOW	2-11.064				
			HIGH	4-60.457				
Blank				6-0.011	+0.010 (acid)			Cap was off before putting in blank
393	SL-04	304mL	10mL	1-15.850		2-6.088	100%	
378	63			3-6.595		4-5.572		
379B	63			5-6.032		6-6.027		odd...
377B	65			7-9.111		8-5.931		
367	ADCP			1-2.449		2-1.757		
366	ADCP			3-13.260		4-9.582		
354	69			5-18.437		6-18.968		
343B	72			7-97.356		8-55.486		
392A	SL-04			1-86.092		2-51.802		
391B	62			3-46.199		4-29.184		
390	62			5-50.571		6-31.735		
389	62			7-51.050		8-32.125		
375	65			1-86.697		2-53.588		
374	65			3-81.899		4-50.903		
376	65			5-83.252		6-50.197		
394	SL-04			7-171.144		8-96.582		
388	62			1-50.395		2-31.892		
330A	75			3-114.170		4-62.214		
259A	42			5-18.303		6-12.173		why so low again
274B	46			7-19.313		8-11.236		;-
287A	56			1-33.740		2-23.903		
225A	27			3-28.258		4-15.782		
227A	GE01			5-20.994		6-12.980		
244B	39			7-116.379		8-67.856		Back to normal...
Blank				3-0.016				
Std	Low			5-10.971				
Std	High			7-59.949				
Stand-	by			8-0.007	+0.008	acid		

Holding cell may have been off... :-
Place

data or machine?
... me?

standby

blank

393	378	379B	377B	367	366	354	343B	392A	391B
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn SC-04	Stn 63	Stn 63	Stn 65	Stn ADCP	Stn ADCP	Stn 69	STN 72	Stn SC-04	Stn 62
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 2	Bot 1	Bot 2	Bot 10	Bot 10	Bot 9	Bot 9	Bot 11	Bot 1	Bot 11
390	389	375	374	376	394	388	330A	259A	274B
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn 62	Stn 62	Stn 65	Stn 65	Stn 65	Stn SC-04	Stn 62	Stn 75	Stn 42	Stn 46
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 10	Bot 9	Bot 7 //	Bot 7	Bot 9	Bot 3	Bot 8	Bot 12	Bot 13	Bot 11
287A	225A	227A	244B						
CHL	CHL	CHL	CHL						
Stn 56	27	GEO1	Stn 39						
2019-016	2019-016	2019-016	2019-016						
Bot 12	Bot 15	Bot 1	Bot 15						

Chlorophyll Data Sheet

Cruise: 2019-016

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Date acetone added: 15 May 19

Time acetone added: 11:08am

Date of analysis: 16 May 19

Analyst: Tamar + Julian

Out of freezer 9:08 16 May 19

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.016			
STD			LOW	2-	10.973			
			HIGH	4-	60.051			
Blank				6-	0.005 + acid	0.005		
391A	62	304	10	1-	47.841	2-	30.108	no OF
392B	5004			3-	92.844	4-	54.611	
377A	65			5-	72.392	6-	42.063	
379A	63			7-	78.357	8-	47.008	
356B	69			1-	100.871	2-	57.278	
365B	ADCP			3-	37.173	4-	23.029	
517B	102			5-	117.116	6-	63.367	
225B	27			7-	29.001	8-	16.522	
210A	24			1-	18.521	2-	10.660	
206	2			3-	14.208	4-	8.294	
189	3			5-	18.610	6-	11.167	
188	3			7-	22.467	8-	13.884	
159	9			1-	19.073	2-	12.724	
114B	16			3-	44.168	4-	30.422	
115	16			5-	56.203	6-	36.876	
59	VAN 6			7-	176.341	8-	100.823	
60	VAN 6			1-	196.704	2-	113.029	
24B	IND 2			3-	252.152	4-	134.117	
7B	SI			5-	334.631	6-	180.632	
187B	3			7-	28.935	8-	17.701	
186	3			1-	35.726	2-	23.180	
157	9			3-	33.091	4-	25.292	Bad ratio
104B	22			5-	37.393	6-	25.490	
68A	VAN 5			7-	292.824	8-	161.710	
Blank				3-	0.014			
Std	Low			5-	10.840			
Std	High			7-	59.746			
Stand-	by			8-	0.003 + acid	0.002		

-0.064

Stand-by

Blank

391A	392B	377A	379A	356B	365B	317B	225B	210A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn 62	Stn SC-04	Stn 65	Stn 63	Stn 69	Stn ADCP	Stn 102	27	24
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 11	Bot 1	Bot 10	Bot 2	Bot 11	Bot 8	Bot 13	Bot 15	Bot 3
206	189	188	159	114B	115	59	60	24B
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
2	Stn 3	Stn 3	Stn 9	16	16	VAN 6	VAN 6	IND 2
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 14	Bot 16	Bot 15	Bot 11	Bot 8	Bot 9	Bot 5	Bot 6	Bot 9
7	187B	186	157	104B	68A			
CHL	CHL	CHL	CHL	CHL	CHL			
Stn SI	Stn 3	Stn 3	Stn 9	22	VAN 5			
2019-016	2019-016	2019-016	2019-016	2019-16	2019-016			
Bot 7	Bot 14	Bot 13	Bot 9	Bot 2	Bot 6			

Chlorophyll Data Sheet

Cruise: 2019-016

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Date acetone added: 15 May/19

Time acetone added: 1:55pm

Date of analysis: 16 May/19

Analyst: Julian

Out of freezer @ 12:02pm 16 May/19

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.014			
STD			LOW	2-	10.898			
			HIGH	4-	59.758			
Blank				6-	0.000 + acid 0.001			
24A	IND 2	304mL	10mL	1-	265.509	2-	146.675	no DF
43B	IND 8			3-	164.469	4-	91.502	
46	IND 8			5-	36.862	6-	20.219	
92	VAN 4			7-	264.554	8-	142.852	
100	VAN 1			1-	229.091	2-	123.750	
132	14			3-	142.126	4-	25.202	
130	14			5-	46.953	6-	29.673	
158B	9			7-	27.002	8-	19.670	
207	2			1-	14.819	2-	8.597	
15	IND 0			3-	267.116	4-	144.071	
44	IND 8			5-	91.002	6-	51.519	
89A	VAN 4			7-	189.226	8-	107.202	
99B	VAN 1			1-	71.590	2-	45.747	
131B	14			3-	43570	4-	26.830	
147	12			5-	10.519	6-	6.431	
170	6			7-	50.987	8-	37.327	
204A	2			1-	33.795	2-	21.766	
12	IND 0			3-	186.957	4-	108.810	
40	IND 4			5-	42.981	6-	23.526	
54	IND 7			7-	39.626	8-	21.842	
99A	VAN 1			1-	65.838	2-	43.669	
129	14			3-	46.376	4-	30.093	
145B	12			5-	28.609	6-	19.791	
171	6			7-	38.217	8-	25.328	
Blank				3-	0.012			
Std	Low			5-	10.791			
Std	High			7-	59.637			
Stand-	by			8-	0.005 + acid 0.004			

standby

Blank

24A CHL IND 2 2019-016 Bot 9	43B CHL IND 8 2019-016 BOT 3	46 CHL IND 8 2019-016 BOT 6	92 CHL VAN 4 2019-016 Bot 8	100 CHL VAN 1 2019-016 Bot 8	132 CHL 14 2019-016 Bot 15	130 CHL 14 2019-016 Bot 13	158B CHL Stn 9 2019-016 Bot 10	207 CHL 2 2019-016 Bot 15
15 CHL IND 0 2019-016 Bot 6	44 CHL IND 8 2019-016 BOT 4	89A CHL VAN 4 2019-016 Bot 5	99B CHL VAN 1 2019-016 Bot 7	131B CHL 14 2019-016 Bot 14	147 CHL 12 2019-016 Bot 15	170 CHL Stn 6 2019-016 Bot 10	204A CHL 2 2019-016 Bot 12	12 CHL IND 0 2019-016 Bot 3
40 CHL IND 4 2019-016 Bot 14	54 CHL IND 7 2019-016 Bot 8	99A CHL VAN 1 2019-016 Bot 7	129 CHL 14 2019-016 Bot 12	145B CHL 12 2019-016 Bot 13	171 CHL Stn 6 2019-016 Bot 11			

Chlorophyll Data Sheet

Cruise: 2019-016

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Date acetone added: 15 May 19

Time acetone added: 3:03pm

Date of analysis: 16 May 19

Analyst: Julian

Out of freezer @ 1:10pm 16 May 19

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.012			
STD			LOW	2-	10.791			
			HIGH	4-	59.637			
Blank				6-	0.005 + acid	0.004		
191	CPF1	304mL	10mL	1-	37.245	2-	25.068	
158A	9			3-	23.751	4-	17.042	
117	16			5-	69.373	6-	42.394	
105	22			7-	30.707	8-	20.359	
66	VAN 5			1-	269.520	2-	152.208	
6	SI			3-	105.579	4-	58.279	
190B	CPF1			5-	29.688	6-	21.750	
173B	6			7-	34.087	8-	19.641	
145A	12			1-	32.798	2-	21.660	
131A	14			3-	44.493	4-	27.728	
104A	22			5-	40.715	6-	27.476	
68B	VAN 5			7-	293.455	8-	16.861	
52	IND 7			1-	96.819	2-	54.144	
38B	IND 4			3-	307.227	4-	169.352	
13B	IND 0			5-	222.247	6-	125.296	
37	IND 4			7-	65.207	8-	41.839	
51B	IND 7			1-	223.911	2-	22.689	
90	VAN 4			3-	225.012	4-	123.910	
102	VAN 1			5-	151.971	6-	81.100	Can't handle sample... DF=3
148	12			7-	10.070	8-	6.078	
146	12			1-	17.285	2-	10.824	
172	6			3-	35.887	4-	20.598	
190A	CPF1			5-	27.834	6-	20.802	
205	2			7-	15.970	8-	10.120	
Blank				3-	0.013			
Std	Low			5-	10.901			
Std	High			7-	59.190			
Stand-	by			8-	0.003 + acid	0.002		

*

Standby

Blank

191	158A	117	105	66	6	190B	173B	145A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn CPF1	Stn 9	16	22	CHL	Stn SI	Stn CPF1	Stn 6	12
2019-016	2019-016	2019-016	2019-016	VAN 5	2019-016	2019-016	2019-016	2019-016
Bot 2	Bot 10	Bot 11	Bot 3	2019-016	Bot 6	Bot 1	Bot 13	Bot 13
				Bot 4				
131A	104 A	68B	52	38B	13B	37	51B	90
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
14	22	VAN 5	IND 7	IND 4	IND 0	IND 4	IND 7	VAN 4
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 14	Bot 2	Bot 6	Bot 6	Bot 12	Bot 4	Bot 11	Bot 5	Bot 6
102	148	146	172	190A	205			
CHL	CHL	CHL	CHL	CHL	CHL			
VAN 1	12	12	Stn 6	Stn CPF1	2			
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016			
Bot 10	Bot 16	Bot 14	Bot 12	Bot 1	Bot 13			

62A, 23 9:20 ml
65, 7A
62B, 38A

Chlorophyll Data Sheet

Cruise: 2019-016

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Date acetone added: 16 May 2019 12:15 pm Time acetone added:

Date of analysis: 17 May 19 10:30 am

Analyst: Tamarz

out of freezer 17 May 19 10:15 am

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.016			
STD			LOW	2-	11.043			
			HIGH	4-	60.337			
Blank				6-	0.002 + aud	0.00		
9	SI	304	20	1-	211.839	2-	112.427	no DF
23	IND 2		20	3-	115.999	4-	63.270	
62A	VAN 6		20	5-	124.882	6-	67.347	
65	VAN 5		20	7-	157.559	8-	85.398	
103	22		10	1-	41.635	2-	28.198	
116	16		10	3-	62.796	4-	33.836	
160	9		10	5-	10.005	6-	6.161	
187A	3		10	7-	29.436	8-	18.096	
7A	SI		20	1-	176.553	2-	93.919	
192	CPF 1		10	3-	28.753	4-	16.668	
26	IND 2		10	5-	178.077	6-	92.729	
62B	VAN 6		20	7-	125.681	8-	69.553	
173A	6		10	1-	29.237	2-	16.716	
51A	IND 7		10	3-	235.677	4-	128.635	
38A	IND 4		20	5-	157.077	6-	86.816	
13A	IND 8		10	7-	216.956	8-	122.143	
89B	VAN 4		10	1-	184.355	2-	103.202	
43A	IND 8		10	3-	154.082	4-	86.426	
114A	16		10	5-	55.862	6-	36.659	
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Blank				3-	0.015			
Std	Low			5-	10.990			
Std	High			7-	59.741			
Stand-	by			8-	0.002	0.003		

standby

blank

9	23	62A	65	103	116	160	187A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn SI	IND 2	VAN 6	VAN 5	22	16	Stn 9	Stn 3
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 9	Bot 8	Bot 8	Bot 3	Bot 1	Bot 10	Bot 12	Bot 14

7A	192	26	62B	173A	51A	38A	13A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Stn SI	Stn CPF1	IND 2	VAN 6	Stn 6	IND 7	IND 4	IND 0
2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016	2019-016
Bot 7	Bot 3	Bot 11	Bot 8	Bot 13	Bot 5	Bot 12	Bot 4

89B	43A	114A
CHL	CHL	CHL
VAN 4	IND 8	16
2019-016	2019-016	2019-016
Bot 5	BOT 3	Bot 8