

114A MS4

Chlorophyll Data Sheet

20ml Acetone

★186A

Cruise: Mooring

Page: 1 of

Dates of Cruise: 2019-069

Time and date acetone added: 13 Aug 19 @ 3:26pm

Analyst: Julian

Time and date out of freezer: 14 Aug 19 @ 1:26pm

Time analysis started: 2:24pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.013			
STD			LOW	2-	10.235			
STD			HIGH	4-	56.111			
Blank				6-	0.006	8-	0.006	
57	C109	30ml	10ml	1-	5.755	2-	3.201	
56A	C109			3-	5.705	4-	3.189	
114A	MS4			5-	17.700	6-	10.135	Moved up list
70	SCOTIS2			7-	35.982	8-	20.895	
71	SCOTIS2			1-	19.892	2-	11.189	
72A	SCOTIS2			3-	16.637	4-	9.314	
83A	HAK1			5-	44.940	6-	26.721	
84	HAK1			7-	112.652	8-	60.469	
85	HAK1			1-	115.180	2-	62.011	
96	MS1			3-	33.174	4-	19.250	
97A	MS1			5-	47.468	6-	26.136	
99	MS1			7-	106.764	8-	61.252	
112	MS4			1-	38.169	2-	22.335	
113	MS4			3-	23.567	4-	13.578	
133	C109			5-	9.070	6-	5.158	Moved down list → 4th read.
134A	MS8			7-	29.491	8-	16.191	
136	MS8			1-	8.214	2-	4.488	
171	MT08B			3-	7.346	4-	4.059	
170A	MT08B			5-	57.405	6-	—	skipped Ra reach pi.
172	MT08B			7-	54.295	8-	30.605	
185	JUAN2			1-	59.805	2-	33.908	
186A	JUAN2			3-	107.451	4-	64.296	
188	JUAN2		20ml	5-	135.716	6-	75.210	
189	JUAN2			7-	189.783	8-	101.922	
Stand-by	Blank			1-	0.004		0.005	
Std	Low			2-	10.168			
Std	High			4-	55.689			
Blank Stand	by			6-	0.011	8-		

57	56 A	55	70	71	A 72	83 A	84	85	96
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
CI08	CI08	CI08	SCOTTS2	SCOTTS2	SCOTTS2	HAK1	HAK1	HAK1	MS1
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 20	Bot 19	Bot 18	Bot 11	Bot 12	Bot 13	Bot 9	Bot 10	Bot 11	Bot 9
97 A	99	112	113	114	133	134 A	136	171	A 170 170
CHL	CHL	CHL	CHL	CHL A	CHL	CHL	CHL	CHL	CHL
MS1	MS1	MS4	MS4	MS4	MS8	MS8	MS8	MT08B	MT08B
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 10	Bot 12	Bot 12	Bot 13	Bot 14	Bot 17	Bot 18	Bot 20	Bot 14	Bot 13
172	185	186 A	188						
CHL	CHL	CHL	CHL						
MT08B	JUAN2	JUAN2	JUAN2						
2019-069	2019-069	2019-069	2019-069						
Bot 15	Bot 11	Bot 12	Bot 14						

Chlorophyll Data Sheet

Cruise: *Mooring A*

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20ml Acetone

Dates of Cruise: *2019-069*

A210

Time and date acetone added: *14 Aug 19 @ 12:08pm*

Analyst: *Julian*

Time and date out of freezer: *15 Aug 19 @ 10:10am*

Time analysis started: *11:05am*

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	<i>0.014</i>			
STD			LOW	2-	<i>10.321</i>			
STD			HIGH	4-	<i>56.600</i>			
Blank				6-	<i>0.008</i>	8-	<i>0.009</i>	
<i>197</i>	<i>JPS1</i>	<i>304mL</i>	<i>10mL</i>	1-	<i>239.449</i>	2-	<i>124.835</i>	
<i>198</i>	<i>JPS1</i>			3-	<i>261.958</i>	4-	<i>136.778</i>	
<i>199</i>	<i>JPS1</i>			5-	<i>204.030</i>	6-	<i>106.596</i>	
<i>208</i>	<i>JPS7</i>			7-	<i>242.648</i>	8-	<i>129.239</i>	
<i>209A</i>	<i>JPS7</i>			1-	<i>236.262</i>	2-	<i>122.917</i>	
<i>210</i>	<i>JPS7</i>		<i>20mL</i>	3-	<i>96.798</i>	4-	<i>50.575</i>	
<i>222</i>	<i>MTOS</i>		<i>10mL</i>	5-	<i>60.479</i>	6-	<i>34.857</i>	
<i>223</i>	<i>MTOS</i>			7-	<i>37.652</i>	8-	<i>21.790</i>	
<i>224A</i>	<i>MTOS</i>			1-	<i>39.072</i>	2-	<i>22.850</i>	
<i>5073A</i>	<i>LOOP3</i>			3-	<i>66.253</i>	4-	<i>37.137</i>	
<i>246</i>	<i>HECS4</i>			5-	<i>19.647</i>	6-	<i>11.973</i>	
<i>247A</i>	<i>HECS4</i>			7-	<i>151.181</i>	8-	<i>81.980</i>	
<i>249</i>	<i>HECS4</i>			1-	<i>196.132</i>	2-	<i>104.937</i>	
<i>258</i>	<i>HECS7</i>			3-	<i>78.906</i>	4-	<i>43.725</i>	
<i>261</i>	<i>HECS7</i>			5-	<i>280.034</i>	6-	<i>145.130</i>	
<i>259A</i>	<i>HECS7</i>			7-	<i>238.123</i>	8-	<i>124.543</i>	
<i>270A</i>	<i>HECS8</i>			1-	<i>47.056</i>	2-	<i>26.451</i>	
<i>273</i>	<i>HECS8</i>			3-	<i>209.507</i>	4-	<i>108.438</i>	
<i>271</i>	<i>HECS8</i>			5-	<i>128.650</i>	6-	<i>68.361</i>	
<i>286</i>	<i>CH14</i>			7-	<i>219.207</i>	8-	<i>114.065</i>	
<i>284A</i>	<i>CH14</i>			1-	<i>52.614</i>	2-	<i>28.386</i>	
<i>283</i>	<i>CH14</i>			3-	<i>13.572</i>	4-	<i>7.988</i>	
<i>330</i>	<i>CH5</i>			5-	<i>23.457</i>	6-	<i>15.580</i>	
<i>331</i>	<i>CH5</i>			7-	<i>123.844</i>	8-	<i>66.755</i>	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

197	198	199	208	209 A	210	222	223	224 A	CH A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	LOOP 3
JPS1	JPS1	JPS1	JPS7	JPS7	JPS7	MT05	MT05	MT05	2019-069
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	5073 A
Bot 8	Bot 9	Bot 10	Bot 7	Bot 8	Bot 9	Bot 10	Bot 11	Bot 12	
246	247 A	249	258	261	259 A	270 A	273	271	286
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
HECS4	HECS4	HECS4	HECS7	HECS7	HECS7	HECS8	HECS8	HECS8	CH14
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 7	Bot 8	Bot 10	Bot 7	Bot 10	Bot 8	Bot 7	Bot 10	Bot 8	Bot 11
284 A	283	330	331						
CHL	CHL	CHL	CHL						
CH14	CH14	CH5	CH5						
2019-069	2019-069	2019-069	2019-069						
Bot 9	Bot 8	Bot 8	Bot 9						

Chlorophyll Data Sheet

Cruise: *Mooring*

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20ml Acetone

Dates of Cruise: *2019-069*

Time and date acetone added: *14 Aug 19 @ 2:04 pm*

Analyst: *J. J. J.*

Time and date out of freezer: *15 Aug 19 @ 12:01 pm*

Time analysis started: *1:23 pm*

★ 5094A

★ 391

★ 5160

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	<i>0.012</i>			
STD			LOW	2-	<i>10.304</i>			
STD			HIGH	4-	<i>56.495</i>			
Blank				6-	<i>0.009</i>	8-	<i>0.007</i>	
<i>533A</i>	<i>CH5</i>			1-	<i>85.281</i>	2-	<i>44.953</i>	
<i>377B</i>	<i>CHAT3</i>			3-	<i>89.316</i>	4-	<i>46.307</i>	
<i>376</i>	<i>CHAT3</i>			5-	<i>22.534</i>	6-	<i>12.975</i>	
<i>379</i>	<i>CHAT3</i>			7-	<i>104.817</i>	8-	<i>54.599</i>	
<i>5094 A(?)</i>	<i>LOOP4</i>		<i>20ml</i>	1-	<i>110.302</i>	2-	<i>56.914</i>	
<i>363A</i>	<i>CH8</i>			3-	<i>20.465</i>	4-	<i>12.698</i>	
<i>364</i>	<i>CH8</i>			5-	<i>65.107</i>	6-	<i>35.095</i>	
<i>366</i>	<i>CH8</i>			7-	<i>156.338</i>	8-	<i>80.982</i>	
<i>387</i>	<i>CH11</i>			1-	<i>8.157</i>	2-	<i>5.545</i>	
<i>388A</i>	<i>CH11</i>			3-	<i>88.748</i>	4-	<i>47.011</i>	
<i>391</i>	<i>CH11</i>		<i>20ml</i>	5-	<i>61.422</i>	6-	<i>33.127</i>	
<i>646</i>	<i>CPF2</i>			7-	<i>72.264</i>	8-	<i>40.597</i>	
<i>644 B</i>	<i>CPF2</i>			1-	<i>43.416</i>	2-	<i>27.128</i>	
<i>643</i>	<i>CPF2</i>			3-	<i>21.390</i>	4-	<i>14.119</i>	
<i>5171 AC?</i>	<i>LOOP6</i>			5-	<i>58.606</i>	6-	<i>34.000</i>	
<i>5160 B</i>	<i>LOOP5</i>		<i>20ml</i>	7-	<i>157.017</i>	8-	<i>83.518</i>	
<i>633</i>	<i>OGC46</i>			1-	<i>47.619</i>	2-	<i>26.989</i>	
<i>630 B</i>	<i>OGC46</i>			3-	<i>40.902</i>	4-	<i>23.488</i>	
<i>629</i>	<i>OGC46</i>			5-	<i>13.480</i>	6-	<i>8.363</i>	
<i>616B</i>	<i>GRC43</i>			7-	<i>35.335</i>	8-	<i>19.444</i>	
<i>615</i>	<i>GRC43</i>			1-	<i>12.213</i>	2-	<i>7.605</i>	
<i>618</i>	<i>GRC43</i>			3-	<i>83.814</i>	4-	<i>35.594</i>	
<i>606B</i>	<i>OGC50</i>			5-	<i>15.648</i>	6-	<i>9.893</i>	
<i>609</i>	<i>OGC50</i>			7-	<i>35.348</i>	8-	<i>19.786</i>	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

333A	377B	376	379	5094	363A	364	366	387	388A
CHL	CHL	CHL	CHL	CHL A	CHL	CHL	CHL	CHL	CHL
CH5	CHAT3	CHAT3	CHAT3	2019-069	CH8	CH8	CH8	CH11	CH11
2019-069	2019-069	2019-069	2019-069	LOOP 4	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 11	Bot 9	Bot 8	Bot 11		Bot 8	Bot 9	Bot 11	Bot 6	Bot 7
391				5171	5160				B
CHL	646	644	643	CHL A	CHL B	633	630	629	616
CH11	CHL	CHL	CHL	LOOP 6	LOOPS	CHL	B CHL	CHL	CHL
	CPF2	CPF2	CPF2	2019-069	2019-069	OGC46	OGC46	OGC46	GRC43
2019-069	2019-069	2019-069	2019-069			2019-069	2019-069	2019-069	2019-069
Bot 11	Bot 11	Bot 9	Bot 8			Bot 12	Bot 9	Bot 8	Bot 5
615	618	606B	609						
CHL	CHL	CHL	CHL						
GRC43	GRC43	OGC50	OGC50						
2019-069	2019-069	2019-069	2019-069						
Bot 4	Bot 7	Bot 6	Bot 9						

Chlorophyll Data Sheet

Cruise: *Moorings*

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Dates of Cruise: *2019-069*

Time and date acetone added: *14 Aug 19 @ 4:37pm*

Analyst: *Julian C*

Time and date out of freezer: *15 Aug 19 @ 2:35*

Time analysis started: *3:36*

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.012			
STD			LOW	2-	10.171			
STD			HIGH	4-	55.943			
Blank				6-	0.013	8-	0.011	
464A	CH19			1-	159.112	2-	84.413	
461	CH19			3-	34.626	4-	19.078	
509	CH21			5-	22.724	6-	12.905	
510A	CH21			7-	33.713	8-	19.374	
513	CH21			1-	94.260	2-	52.000	
535	CH25			3-	25.477	4-	13.941	
538	CH25			5-	30.692	6-	17.261	
536A	CH25			7-	27.872	8-	15.803	
483	CH21			1-	9.689	2-	5.987	
485	CH21			3-	33.734	4-	19.275	
489B	CH21			5-	94.149	6-	57.168	
562B	PRHR74			7-	22.962	8-	13.814	
563	PRHR74			1-	71.898	2-	40.289	
565	PRHR74			3-	203.340	4-	106.246	
573	CH27			5-	72.394	6-	37.681	
574B	CH27			7-	22.949	8-	12.965	
576	CH27			1-	25.596	2-	14.461	
586	MP55			3-	15.948	4-	9.076	
587	MP55			5-	32.288	6-	17.704	
589B	MP55			7-	30.464	8-	16.886	
595	CH29			1-	13.458	2-	8.186	
596	CH29			3-	33.233	4-	18.464	
598B	CH29			5-	43.653	6-	23.952	
607	OGC50			7-	46.069	8-	26.313	
Stand-by Blank				1-	0.005		0.004	
Std	Low			2-	10.169			
Std	High			4-	55.840			
Blank - Stand-by				6-	0.009	8-		

464 A	461	509	A 510	513	535	538	536 A	483	485
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	Chl	CHL
CH19	CH19	CH21	CH21	CH21	CH25	CH25	CH25	Chat1	CHAT1
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 8	Bot 5	Bot 8	Bot 9	Bot 12	Bot 7	Bot 10	Bot 8	2019-069	Bot 12
489 B	562 B	563	565	573	574 B	576	586	587	588
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
CHAT1	PRHR74	PRHR74	PRHR74	CH27	CH27	CH27	MP55	MP55	MP55
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 16	Bot 5	Bot 6	Bot 8	Bot 5	Bot 6	Bot 8	Bot 7	Bot 8	Bot 10
595	596	598 B	607						
CHL	CHL	CHL	CHL						
CH29	CH29	CH29	OGC50						
2019-069	2019-069	2019-069	2019-069						
Bot 4	Bot 5	Bot 7	Bot 7						

Chlorophyll Data Sheet

Cruise: Moorings

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20ml Acetone

Dates of Cruise: 2019-069

Time and date acetone added: 15 Aug 19 @ 10:57am

Analyst: Julian

*464B

Time and date out of freezer: 16 Aug 19 @ 9:07am

*424

Time analysis started: 16:10am

*403B

Many samples have red specs on filters.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.014			
STD			LOW	2-	10.326			
STD			HIGH	4-	56.966			
Blank				6-	0.009	8-	0.009	
* 464B	CH19		20ml	1-	95.655	2-	50.478	
462	CH19			3-	45.279	4-	25.083	
421	CH16			5-	10.298	6-	6.213	
* 424	CH16		20ml	7-	165.877	8-	85.679	
422B	CH16			1-	30.069	2-	16.823	
439	CHAT2			3-	198.337	4-	104.252	
437	CHAT2			5-	88.289	6-	47.553	
436A	CHAT2			7-	51.142	8-	27.679	
* 405B	CH12		20ml	1-	169.824	2-	87.639	
401	CH12			3-	83.415	4-	44.439	
400	CH12			5-	15.409	6-	8.888	
644A	CP2			7-	43.531	8-	26.875	
5171B	LOOP6			1-	58.647	2-	34.184	
5160A	LOOP5			3-	297.665	4-	155.854	
630A	OGC46			5-	40.527	6-	25.197	
816A	GR143			7-	35.950	8-	20.754	
606A	OGC50			1-	16.043	2-	9.689	
594A	CH29			3-	45.033	4-	24.634	
589A	MP55			5-	40.210	6-	21.617	
574A	CH27			7-	20.821	8-	11.748	
562A	PRAR74			1-	20.249	2-	12.775	
56B	CT09			3-	5.764	4-	3.199	
72B	SCOTTS2			5-	16.503	6-	9.359	
83B	HAR1			7-	49.349	8-	26.990	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

464 B	462	421	424	422 B	439	437	436 A	403 B	401
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CH1	CH1
CH19	CH19	CH16	CH16	CH16	CHAT2	CHAT2	CHAT2	CH12	CH12
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-69	2019-69
Bot 8	Bot 6	Bot 9	Bot 12	Bot 10	Bot 13	Bot 11	Bot 10	Bot 11	Bot 9
400		5171	5160						
CH1	644	CHLB	CHLA	630	616 A	606	598 A	589	574 A
CH12	CHL	LOOP6	LOOP5	CHL A	CHL	CHL A	CHL	CHL A	CHL
2014-69	CPF2			OGC46	GRC43	OGC50	CH29	MP55	CH27
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 8	Bot 9			Bot 9	Bot 5	Bot 6	Bot 7	Bot 10	Bot 6
562 A	56 B	72 B	83 B						
CHL	CHL	CHL	CHL						
PRHR74	CI08	SCOTTS2	HAK1						
2019-069	2019-069	2019-069	2019-069						
Bot 5	Bot 19	Bot 13	Bot 9						

Chlorophyll Data Sheet

Cruise: *Mogridge*

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20mL Acetone

Dates of Cruise: *20/9. 069*

Time and date acetone added: *15 Aug 19 @ 2:24pm*

Analyst: *Julian*

A199

Time and date out of freezer: *16 Aug 19 @ 12:15pm*

A405A

Time analysis started: *1:19pm*

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.015			
STD			LOW	2-	10.359			
STD			HIGH	4-	56.678			
Blank				6-	0.008	8-	0.008	
97B	MS1			1-	50.086	2-	27.330	
114 B	MS4			3-	17.153	4-	9.701	
134B	MS8			5-	8.306	6-	4.518	
170B	MT08B			7-	54.944	8-	31.040	
186B	JUAN2			1-	288.682	2-	157.017	
199	JPS1		20mL	3-	164.865	4-	85.833	
209B	JPS7			5-	230.419	6-	121.589	
224B	MT05			7-	36.741	8-	21.065	
5073B	LOOP3			1-	61.436	2-	34.389	
247B	HECS4			3-	167.938	4-	90.197	
259B	HECS7			5-	234.570	6-	122.503	
270B	HECS8			7-	46.335	8-	26.292	
284B	CH14			1-	51.353	2-	28.071	
333B	CH5			3-	79.589	4-	41.568	
377A	CHAT3			5-	88.332	6-	45.683	
5094B	LOOP4			7-	166.555	8-	86.047	
363B	CH8			1-	15.987	2-	10.150	
388B	CH11			3-	92.414	4-	48.827	
489A	CHAT1			5-	100.466	6-	55.507	
536B	CH25			7-	28.619	8-	16.300	
570B	CH21			1-	36.704	2-	20.575	
403A	CH12		20mL	3-	195.809	4-	100.594	
422A	CH16			5-	24.591	6-	14.061	
Done cruise				7-		8-		
Stand-by	Blank			1-	0.008		0.008	
Std	Low			2-	10.311			
Std	High			4-	56.349			
Blank	by			6-	0.013	8-		

97 B	114	134 B	170 B	186 B	199	209 B	224 B	CH1 B	247 B
CHL	CHL B	CHL	CHL	CHL	CHL	CHL	CHL	LOOP3	CHL
MS1	MS4	MS8	MT08B	JUAN2	JPS1	JPS7	MT05	2019-069	HECS4
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	5073 B	2019-069
Bot 10	Bot 14	Bot 18	Bot 13	Bot 12	Bot 10	Bot 8	Bot 12		Bot 8
259 B	270 B	284 B	333 B	377 A	5094	363B	388B	489 A	536 B
CHL	CHL	CHL	CHL	CHL	CH1 B	CHL	CHL	CHL	CHL
HECS7	HECS8	CH14	CH5	CHAT3	LOOP4	CHL	CH1	CHAT1	CH25
2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069	2019-069
Bot 8	Bot 7	Bot 9	Bot 11	Bot 9		2019-069	2019-069	Bot 16	Bot 8
	4031A					Bot 7			
510 B	CH1	422							
CHL	CH12	CHL A							
CH21	2019-69	CH16							
2019-069		2019-069							
Bot 9	Bot 11	Bot 10							