

Chlorophyll Data Sheet

20ml extraction volumes:

Cruise: 2019-062

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52B, 38, 37

Project Name: SOG

Time and date acetone added: 04 Nov 19 1105am

Time and date out of freezer: 05 Nov 1220 pm

Time analysis started: 05 Nov 19 0128 pm

Analyst: Tamara

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.018			
STD			LOW	2-	10.279			
STD			HIGH	4-	56.630			
Blank				6-	-0.016	8-	-0.016	
21B	59	304	10	1-	30.706	2-	19.059	
22	59		10	3-	30.745	4-	18.275	
20	59		10	5-	27.017	6-	16.003	
24	59		10	7-	29.528	8-	17.405	
7	SI		10	1-	77.814	2-	45.387	
6A	SI		10	3-	29.462	4-	18.473	
8	SI		10	5-	84.330	6-	48.017	
9	SI		10	7-	117.732	8-	63.379	
50	75		10	1-	83.380	2-	43.354	
51	75		10	3-	357.590	4-	174.189	
52B	75		20	5-	266.857	6-	131.020	
49	75		10	7-	49.924	8-	26.791	
38	102		20	1-	248.158	2-	121.620	
36	102		10	3-	24.912	4-	14.119	
37	102		20	5-	99.135	6-	48.604	
35B	102		10	7-	20.695	8-	12.804	
76B	69		10	1-	92.255	2-	47.067	
78	69		10	3-	81.732	4-	41.487	
75	69		10	5-	92.310	6-	47.093	
77	69		10	7-	88.023	8-	44.311	
66A	72		10	1-	214.208	2-	101.169	
64	72		10	3-	175.725	4-	86.700	
63	72		10	5-	134.160	6-	67.791	
62	72		10	7-	74.439	8-	37.774	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

21B	22	20	24	7	6A	8	9
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
59	59	59	59	SI	SI	SI	SI
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 12	Bot 13	Bot 11	Bot 15	Bot 7	Bot 6	Bot 8	Bot 9

50	51	52B	49	38	36	37	35B
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
75	75	75	75	102	102	102	102
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 12	Bot 13	Bot 14	Bot 11	Bot 14	Bot 12	Bot 13	Bot 11

76B	78	75	77	66A	64	63	62
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
69	69	69	69	72	72	72	72
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 10	Bot 12	Bot 9	Bot 11	Bot 14	Bot 12	Bot 11	Bot 10

Chlorophyll Data Sheet

20ml extraction volumes:

Cruise: 2019-062

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none

Project Name: 506

Time and date acetone added: 4 Nov 19 0225 pm

Time and date out of freezer: 5 Nov 19 0128 pm

Time analysis started: 5 Nov 19 0228 pm

Analyst: Tamara

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.019			
STD			LOW	2-	10.245			
STD			HIGH	4-	55.542			
Blank				6-	-0.018	8-	-0.017	
98	65	304	10	1-	43.714	2-	23.022	
97	65		10	3-	40.521	4-	22.080	
96B	65		10	5-	40.974	6-	21.820	
95	65		10	7-	25.847	8-	13.993	
88	ADCP		10	1-	52.745	2-	27.423	
86	ADCP		10	3-	28.522	4-	15.953	
85B	ADCP		10	5-	41.142	6-	21.638	
87	ADCP		10	7-	63.194	8-	32.747	
100	63		10	1-	40.016	2-	22.489	
101	63		10	3-	42.808	4-	24.446	
99	63		10	5-	44.176	6-	26.719	
102B	63		10	7-	44.358	8-	24.500	
113	62		10	1-	35.044	2-	19.814	
112	62		10	3-	33.385	4-	18.977	
111	62		10	5-	31.392	6-	18.032	
110B	62		10	7-	30.962	8-	17.311	
139B	46		10	1-	57.754	2-	33.145	
126B	56		10	3-	36.538	4-	21.889	
125	56		10	5-	36.785	6-	21.737	
127	56		10	7-	32.714	8-	18.642	
124	56		10	1-	36.150	2-	20.921	
138	46		10	3-	63.813	4-	36.201	
137	46		10	5-	59.922	6-	33.190	
139A	46		10	7-	58.481	8-	33.149	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

98	97	96B	95	88	86	85B	87
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
65	65	65	65	ADCP	ADCP	ADCP	ADCP
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 10	Bot 9	Bot 8	Bot 7	Bot 10	Bot 8	Bot 7	Bot 9

100	101	99	102B	113	112	111	110B
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
63	63	63	63	62	62	62	62
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 2	Bot 3	Bot 1	Bot 4	Bot 11	Bot 10	Bot 9	Bot 8

139B	126B	125	127	124	138	137	139A
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
46	56	56	56	56	46	46	46
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 12	Bot 13	Bot 12	Bot 14	Bot 11	Bot 11	Bot 10	Bot 12

Chlorophyll Data Sheet

20ml extraction volumes:

Cruise: 2019-062

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177B, 172

Project Name: So G

Time and date acetone added: 4 Nov 19 440pm

Time and date out of freezer: 5 Nov 19 315pm

Time analysis started: 5 Nov 19 420pm

Analyst: Tamara

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.017			
STD			LOW	2-	10.221			
STD			HIGH	4-	56.007			
Blank				6-	-0.014	8-	-0.015	
136	46	304	10	1-	74.222	2-	40.762	
176	GED1		10	3-	45.636	4-	27.439	
177B	GED1		20	5-	25.293	6-	14.846	
171	39		10	7-	42.071	8-	24.749	
170	39		10	1-	24.181	2-	15.328	
152	42		10	3-	16.074	4-	9.923	
154	42		10	5-	50.755	6-	29.547	
153B	42		10	7-	51.846	8-	30.204	
156	42		10	1-	46.703	2-	27.207	
174	GED1		10	3-	30.544	4-	19.793	
175	GED1		10	5-	35.659	6-	21.983	
173B	39		10	7-	55.124	8-	30.566	
172	39		20	1-	24.687	2-	14.045	
197	24		10	3-	70.606	4-	39.903	
196B	24		10	5-	72.955	6-	41.685	
195	24		10	7-	42.464	8-	25.798	
198	24		10	1-	74.518	2-	42.793	
190	27		10	3-	16.100	4-	11.148	
192	27		10	5-	50.719	6-	29.311	
191B	27		10	7-	35.706	8-	21.732	
194	27		10	1-	50.826	2-	33.017	
200	22		10	3-	69.807	4-	40.930	
199B	22		10	5-	24.090	6-	15.067	
201	22		10	7-	73.769	8-	42.548	
Stand-by				1-	0.018			
Std	Low			2-	10.200			
Std	High			4-	56.266			
Blank	by			6-	-0.014	8-	-0.015	

136	176	177B	171	170	152	154	153B
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
46	GEO1	GEO1	39	39	42	42	42
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 9	Bot 3	Bot 4	Bot 15	Bot 14	Bot 13	Bot 15	Bot 14

156	174	175	173B	172	197	196B	195
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
42	GEO1	GEO1	39	39	24	24	24
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 17	Bot 1	Bot 2	Bot 17	Bot 16	Bot 3	Bot 2	Bot 1

198	190	192	191B	194	200	199B	201
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
24	27	27	27	27	22	22	22
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 4	Bot 13	Bot 15	Bot 14	Bot 17	Bot 2	Bot 1	Bot 3

Chlorophyll Data Sheet

20ml extraction volumes:

Cruise: 2019-062

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273, 281, 279B, 280

Project Name: SOG

Time and date acetone added: 5 Nov 19

01:35pm

Time and date out of freezer: 6 Nov 19

01:20pm

Time analysis started: 6 Nov 19

2:50pm

forgot to turn on fluorometer here

Analyst: Tamara

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-				
STD			LOW	2-	0.021			
STD			HIGH	4-	10.446			
Blank				6-	57.286			
					-0.012	8-	-0.014	
270	6	304	10	1-	17.258	2-	11.232	
273	6		20	3-	35.247	4-	20.330	
259	9		10	5-	44.058	6-	25.572	
281	BS17		20	7-	123.373	8-	61.548	
257B	9		10	1-	12.442	2-	8.205	
279B	BS17		20	3-	79.840	4-	41.569	
280	BS17		20	5-	109.506	6-	55.102	
272	6		10	7-	70.253	8-	40.983	
271B	6		10	1-	54.600	2-	32.035	
260	9		10	3-	50.236	4-	26.183	28.740
257A	9		10	5-	12.596	6-	8.447	
258	9		10	7-	36.627	8-	21.627	
230	14		10	1-	37.721	2-	21.926	
232	14		10	3-	52.551	4-	29.643	
231B	14		10	5-	44.723	6-	26.134	
229	14		10	7-	37.478	8-	22.624	
247	12		10	1-	59.121	2-	34.689	
246B	12		10	3-	59.764	4-	34.572	
248	12		10	5-	61.025	6-	34.445	
214	Q139		10	7-	47.707	8-	27.583	
217	Q139		10	1-	63.117	2-	36.374	
216B	Q139		10	3-	60.382	4-	35.026	
245	12		10	5-	42.294	6-	25.194	
212B	16		10	7-	30.709	8-	18.144	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

270	273	259	281	257B	279B	280	272
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
6	6	9	BS17	9	BS17	BS17	6
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 10	Bot 13	Bot 11	Bot 8	Bot 9	Bot 6	Bot 7	Bot 12
271B	260	257A	258	230	232	231B	229
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
6	9	9	9	14	14	14	14
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 11	Bot 12	Bot 9	Bot 10	Bot 13	Bot 15	Bot 14	Bot 12
247	246B	248	214	217	216B	245	212B
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
12	12	12	QU39	QU39	QU39	12	16
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 15	Bot 14	Bot 16	Bot 1	Bot 4	Bot 3	Bot 13	Bot 10

Chlorophyll Data Sheet

20ml extraction volumes:

Cruise: 2019-062

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334B, 375, 389, 381B

Project Name: SoG

Time and date acetone added: 5 Nov 19 425pm

Time and date out of freezer: 6 Nov 19 250pm

Time analysis started: 6 Nov 19 400pm

Analyst: Tamarca

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.017			
STD			LOW	2-	10.248			
STD			HIGH	4-	56.274			
Blank				6-	-0.017	8-	-0.017	
333	VAN4	304	10	1-	79.781	2-	42.537	
335	VAN4		10	3-	133.549	4-	67.625	
332	VAN4		10	5-	40.314	6-	22.844	
334B	VAN4		20	7-	54.132	8-	27.882	
392A	VAN5		10	1-	41.581	2-	24.856	
340	VAN6		10	3-	86.823	4-	46.070	
347B	IND0		10	5-	64.337	6-	34.729	
392B	VAN5		10	7-	39.902	8-	24.276	
361	IND2		10	1-	302.958	2-	146.206	
358B	IND2		10	3-	22.619	4-	14.957	
360	IND2		10	5-	158.385	6-	83.672	
359	IND2		10	7-	36.460	8-	24.064	
375	IND4		20	1-	191.134	2-	91.774	
373B	IND4		10	3-	19.831	4-	12.145	
374	IND4		10	5-	106.998	6-	57.292	
372	IND4		10	7-	10.662	8-	7.465	
378	IND8		10	1-	13.310	2-	8.445	
389	IND7		20	3-	273.684	4-	132.251	
388	IND7		10	5-	29.352	6-	18.041	
386	IND7		10	7-	11.047	8-	6.682	
381B	IND8		20	1-	190.415	2-	89.519	
387B	IND7		10	3-	16.425	4-	10.890	
379	IND8		10	5-	19.494	6-	12.399	
380	IND8		10	7-	48.098	8-	28.687	
Stand-by				1-	0.016			
Std	Low			2-	10.287			
Std	High			4-	56.273			
Blank	by			6-	-0.018	8-	-0.017	

333	335	332	334B	392A	340	347B	392B
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
VAN4	VAN4	VAN4	VAN4	VAN5	VAN6	IND0	VAN5
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 6	Bot 8	Bot 5	Bot 7	Bot 3	Bot 5	Bot 4	Bot 3

361	358B	360	359	375	373B	374	372
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
IND2	IND2	IND2	IND2	IND4	IND4	IND4	IND4
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 12	Bot 9	Bot 11	Bot 10	Bot 14	Bot 12	Bot 13	Bot 11

378	389	388	386	381B	387B	379	380
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
IND8	IND7	IND7	IND7	IND8	IND7	IND8	IND8
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 3	Bot 8	Bot 7	Bot 5	Bot 6	Bot 6	Bot 4	Bot 5

Chlorophyll Data Sheet

Cruise: 2019-062

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Project Name: SOG

Time and date acetone added: 06 Nov 19 1115 am

Time and date out of freezer: 07 Nov 19 1020 am

Time analysis started: 1125 am

Analyst: Tamaru

20ml extraction volumes:

343, 349

(just for blanks)
started using
new batch of
90% acetone prep'd
7 Nov 19

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.021			
STD			LOW	2-	10.358			
STD			HIGH	4-	56.634			
Blank				6-		8-		
343	VAN6	304	20	1-	221.930	2-	108.377	
341B	VAN6		10	3-	94.973	4-	50.623	
349	INDP		20	5-	224.828	6-	112.228	
346	INDP		10	7-	45.682	8-	26.061	
315	CPF1		10	1-	45.174	2-	26.350	
316	CPF1		10	3-	44.227	4-	24.703	
310	2		10	5-	42.151	6-	24.034	
312	2		10	7-	45.477	8-	25.558	
246A	12		10	1-	10.750	2-	7.341	
231A	14		10	3-	44.376	4-	24.828	
271A	6		10	5-	46.787	6-	28.009	
279A	BS17		10	7-	149.108	8-	78.696	
311	2		10	1-	42.927	2-	24.506	
278	BS17		10	3-	83.686	4-	45.054	
297	3		10	5-	66.941	6-	38.358	
294	3		10	7-	18.660	8-	13.355	
309B	2		10	1-	29.151	2-	17.344	
327	VAN1		10	3-	67.506	4-	37.591	
324B	VAN1		10	5-	65.102	6-	36.367	
296	3		10	7-	70.850	8-	40.592	
323	VAN1		10	1-	18.385	2-	10.682	
314	CPF1		10	3-	38.696	4-	22.889	
325	VAN1		10	5-	64.032	6-	35.954	
313B	CPF1		10	7-	22.879	8-	13.853	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

343	341B	349	346	315	316	310	312
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
VAN6	VAN6	IND0	IND0	CPF1	CPF1	2	2
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 8	Bot 6	Bot 6	Bot 3	Bot 3	Bot 4	Bot 13	Bot 15

246A	231A	271A	279A	311	278	297	294
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
12	14	6	BS17	2	BS17	3	3
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 14	Bot 14	Bot 11	Bot 6	Bot 14	Bot 5	Bot 16	Bot 13

309B	327	324B	296	323	314	325	313B
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
2	VAN1	VAN1	3	VAN1	CPF1	VAN1	CPF1
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 12	Bot 11	Bot 8	Bot 15	Bot 7	Bot 2	Bot 9	Bot 1

Chlorophyll Data Sheet

Cruise: 2019-062

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20ml extraction volumes:

173A, 52A

Project Name: SoG

Time and date acetone added: 6 Nov 19 0215pm

Time and date out of freezer: 7 Nov 19 1215pm

Time analysis started:

Analyst: Tamara

0120pm

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.018			
STD			LOW	2-	10.224			
STD			HIGH	4-	56.192			
Blank				6-	-0.016	8-		
216A	QU39	304	10	1-	58.805	2-	34.482	
215	QU39		10	3-	52.285	4-	30.705	
210	16		10	5-	16.957	6-	10.536	
212A	16		10	7-	31.185	8-	18.697	
211	16		10	1-	25.893	2-	16.608	
213	16		10	3-	31.748	4-	19.263	
199A	22		10	5-	22.954	6-	14.187	
202	22		10	7-	75.699	8-	43.599	
196A	24		10	1-	73.029	2-	42.435	
191A	27		10	3-	35.450	4-	21.923	
153A	42		10	5-	50.384	6-	29.643	
177A	GEO1		10	7-	48.610	8-	25.866	28.535
126A	56		10	1-	35.197	2-	21.465	
173A	39		20	3-	25.494	4-	14.537	
102A	63		10	5-	43.753	6-	25.844	
110A	62		10	7-	32.716	8-	19.322	
21A	59		10	1-	29.521	2- + 3	17.723	17.686
6B	56		10	3-	30.450	4-	19.701	
52A	75		20	5-	223.952	6-	111.145	
35A	102		10	7-	19.523	8-	11.793	
76A	69		10	1-	92.768	2-	47.396	
60B	72		10	3-	200.286	4-	98.755	
96A	65		10	5-	40.657	6-	23.042	
85A	ADCP		10	7-	37.797	8-	20.822	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

216A	215	210	212A	211	213	199A	202
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
QU39	QU39	16	16	16	16	22	22
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 3	Bot 2	Bot 8	Bot 10	Bot 9	Bot 11	Bot 1	Bot 4

196A	191A	153A	177A	126A	173A	102A	110A
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
24	27	42	GEO1	56	39	63	62
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 2	Bot 14	Bot 14	Bot 4	Bot 13	Bot 17	Bot 4	Bot 8

21A	6B	52A	35A	76A	66B	96A	85A
CHL	CHL	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
59	SI	75	102	69	72	65	ADCP
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 12	Bot 6	Bot 14	Bot 11	Bot 10	Bot 14	Bot 8	Bot 7

Chlorophyll Data Sheet 2019-062

Cruise: *SOG*

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20ml extraction volumes:

342, 348

Project Name:

Time and date acetone added: 6 Nov 19 410pm

Time and date out of freezer: 7 Nov 19 0225pm

Time analysis started: 7 Nov 19 0305pm

Analyst: *Tamara*

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.017			
STD			LOW	2-	10.186			
STD			HIGH	4-	56.111			
Blank				6-	-0.016	8-	-0.016	
334A	VAN4	304	10	1-	116.684	2-	60.019	
341A	VAN6		10	3-	95.535	4-	51.178	
395	VAN5		10	5-	111.088	6-	59.272	
295A	3		10	7-	52.772	8-	31.735	
393	VAN5		10	1-	77.927	2-	41.784	
394	VAN5		10	3-	98.490	4-	52.141	
358A	IND2		10	5-	23.173	6-	15.351	
381A	IND8		10	7-	144.020	8-	72.619	DF=3
342	VAN6		10	1-	129.265	2-	66.194	
348	IND0		20	3-	138.151	4-	71.125	
324A	VAN1		10	5-	63.138	6-	35.492	
309A	2		10	7-	30.687	8-	18.363	
313A	CPE1		10	1-	23.899	2-	15.236	
347A	IND0		10	3-	67.760	4-	38.079	
387A	IND7		10	5-	14.850	6-	9.858	
373A	IND4		10	7-	24.314	8-	16.420	
295B	3		10	1-	52.898	2-	31.878	
				3-		4-		
				5-		6-		
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-	0.015			
Std	Low			2-	10.227			
Std	High			4-	56.027			
Blank	by			6-	-0.017	8-	-0.016	

334A	341A	395	295A	393	394	358A	381A	342
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
VAN4	VAN6	VAN5	3	VAN5	VAN5	IND2	IND8	VAN6
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 7	Bot 6	Bot 6	Bot 14	Bot 4	Bot 5	Bot 9	Bot 6	Bot 7

348	324A	309A	313A	347A	387A	373A	295B
Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a	Chl_a
IND0	VAN1	2	CPF1	IND0	IND7	IND4	3
2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062	2019-062
Bot 5	Bot 8	Bot 12	Bot 1	Bot 4	Bot 6	Bot 12	Bot 14