

2017-08/
Cruise: 2017-09

Chlorophyll Data Sheet

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Dates of Cruise: 2017-08/2017-09

Time and date acetone added: 18 Sept 2017 3:35

Analyst: Nicola Davies

Time and date out of freezer: 19-Sept(2017) 1:15.

Time analysis started: 2.15.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.023			
STD			LOW	2-	11.309			
STD			HIGH	4-	60.628			
Blank				6-	0.016	8-	0.014	
246A	P11	304	9.9	1-	4.388	2-	2.450	2017-08
256	P12			3-	9.334	4-	5.956	2017-08
258 B	P12			5-	24.939	6-	15.139	2017-08
259 A	P12			7-	22.848	8-	14.002	2017-08
5092 A	P12			1-	5.543	2-	8.164	2017-08
53527 B	41			3-	86.254	4-	51.806	New file
515A	38			5-	32.527	6-	22.834	2017-09
516 B	38			7-	111.605	8-	65.959	
524 A	41			1-	7.223	2-	5.867	
525 A	41			3-	39.437	4-	24.931	
511 A	40			5-	9.343	6-	7.544	
513 B	40			7-	26.825	8-	17.222	
512 A	40			1-	14.508	2-	10.5	
515 B	38			3-	31.715	4-	20.995	
514 A	38			5-	7.081	6-	5.981	
497 A	28			7-	8.485	8-	6.620	
498 B	28			1-	43.451	2-	28.051	
510 B	GE01			3-	42.728	4-	26.074	
508 A	GE01			5-	12.934	6-	9.364	
507 B	GE01			7-	6.203	8-	4.981	
499 B	28			1-	126.493	2-	73.844	
485 B	24			3-	107.751	4-	67.328	
484 A	24			5-	19.319	6-	12.818	
483 B	24			7-	5.217	8-	4.168	
Stand-by				1-	-0.024			
Std	Low			2-	11.222			
Std	High			4-	61.183			
Blank	by			6-	0.024	8-	0.021	

246A CHL P11 5 m 2017-08 Bot 1	256 CHL P12 100 m 2017-08 Bot 5	258B CHL P12 60 m 2017-08 Bot 7	259A CHL P12 50 m 2017-08 Bot 8	5042A CHL P12 LOOP 2017-08 Bot 1	527B CHL 41 0 m 2017-09 Bot 11	515A CHL 38 10m 2017-09 Bot 2	516B CHL 38 0 m 2017-09 Bot 3	524A CHL 41 20 m 2017-09 Bot 8	525A CHL 41 10 m 2017-09 Bot 9	511A CHL 40 20m 2017-09 Bot 1
513 CHLB 40 0 m 2017-09 Bot 3	512 CHLA 40 10m 2017-09 Bot 2	515B CHL 38 10m 2017-09 Bot 2	514A CHL 38 20m 2017-09 Bot 1	497A CHL 28 20 m 2017-09 Bot 1	498B CHL 28 10 m 2017-09 Bot 2	510B CHL GEO1 0 m 2017-09 Bot 11	508A CHL GEO1 10 m 2017-09 Bot 9	507B CHL GEO1 20 m 2017-09 Bot 8	499B CHL 28 0 m 2017-09 Bot 3	485B CHL 24 0 m 2017-09 Bot 3
484A CHL 24 10 m 2017-09 Bot 2	483B CHL 24 20 m 2017-09 Bot 1									

↑
 2017-08
 (the rest are 2017-09)

Chlorophyll Data Sheet

Cruise:

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Dates of Cruise: 2017-09

Time and date acetone added: 9:40

18-SEP (2017)

Analyst:

ND
Nicole Davies

Time and date out of freezer: 8:40

Time analysis started: 9:40

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.023			
STD			LOW	2-	11.374			
STD			HIGH	4-	61.654			
Blank				6-	0.012	8-	0.011	
496A	22		9.9	1-	75.584	2-	43.881	
494B	22			3-	19.782	4-	13.227	
493B	22			5-	13.805	6-	10.876	
481A	CPF1			7-	65.522	8-	39.024	
480A	CPF1			1-	21.863	2-	15.845	
479B	CPF1			3-	10.581	4-	8.624	
476B	BS11			5-	52.431	6-	31.981	
475B	BS11			7-	33.285	8-	22.967	
471B	CPF2			1-	71.049	2-	45.095	
470B	CPF2			3-	59.042	4-	37.889	
469A	CPF2			5-	12.107	6-	9.063	
468B	11			7-	33.872	8-	20.345	
464A	11			1-	11.863	2-	9.364	
454A	14			3-	46.593	4-	28.727	
452B	14			5-	35.086	6-	21.887	
453B	14			7-	44.620	8-	27.437	
452A	14			1-	36.678	2-	23.221	
468A	11			3-	34.271	4-	20.844	
465A	11			5-	32.592	6-	20.430	
5188A	LOOP			7-	14.029	8-	8.492	
446B	MLOS			1-	34.513	2-	21.067	
449B	SS05			3-	33.508	4-	19.742	
450B	SS05			5-	14.344	6-	8.111	
451A	SS05			7-	11.032	8-	6.166	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

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Chlorophyll Data Sheet

Cruise:

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Dates of Cruise: 2017-09

Time and date acetone added: 19-Sept (2017) 1:40. Analyst: Nicole Davies

Time and date out of freezer: 11:340 (20-Sept 2017)

Time analysis started: 12:50

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.024			
STD			LOW	2-	11.300			
STD			HIGH	4-	61.306			
Blank				6-	0.006	8-	11.24	
	L602							
296A	L602		9.9	1-	17.383	2-	10.260	
299A	L601			3-	19.041	4-	14.837	
300A	L601			5-	6.905	6-	4.698	
301B	L601			7-	7.718	8-	4.590	
328A	LBP7			1-	37.272	2-	22.305	
329A	LBP7			3-	14.469	4-	8.743	
331A	LBP7			5-	12.426	6-	7.096	
348A	LBP5			7-	15.387	8-	9.912	
349A	LBP5			1-	36.175	2-	21.692	
350B	LBP5			3-	35.321	4-	19.760	
5120B	LBP/LBP3			5-38.832	23.384	6-	23.383	
380B	CS00			7-	10.172	8-	5.998	
379B	CS00			1-	27.379	2-	16.496	
361B	LBP3			3-	43.653	4-	26.662	
359B	LBP3			5-	20.044	6-	11.385	
361A	LBP3			7-	44.964	8-	27.404	
382B	CS00			1-	7.003	2-	3.890	
358B	LBP3			3-	12.826	4-	7.765	
5120A	LBP/LBP3			5-	39.513	6-	24.166	
401A	CS02			7-	67.942	8-	39.742	
402B	CS02			1-	78.424	2-	44.447	
400B	CS02			3-	55.388	4-	33.654	
408B	CS04			5-	88.164	6-	52.252	
418B	CS06			7-	162.512	8-	93.540	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

296 A	299 A	300 A	301 B	328 A	329 A	331 A	348 A	349 A	350 B	B 5120
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
LG02	LG01	LG01	LG01	LBP7	LBP7	LBP7	LBP5	LBP5	LBP5	Loop
5 m	20 m	10 m	5 m	20 m	10 m	5 m	20 m	10 m	5 m	LBP3
2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09
Bot 8	Bot 3	Bot 4	Bot 5	Bot 18	Bot 19	Bot 21	Bot 17	Bot 18	Bot 19	Bot 1

B 380	B 379	361	359	361	B 382	358	A 5120	401 A	402 B	400 B
CHL	CHL	CHL B	CHL B	CHL A	CHL	CHL B	CHL	CHL	CHL	CHL
CS00	CS00	LBP3	LBP3	LBP3	CS00	LBP3	Loop	CS02	CS02	CS02
10 m	20 m	5 m	10 m	5 m	5 m	20 m	LBP3	10 m	5 m	20 m
2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09
Bot 19	Bot 18	Bot 11	Bot 9	Bot 11	Bot 21	Bot 8	Bot 1	Bot 19	Bot 20	Bot 18

408 B	418 B
CHL	CHL
CS04	CS06
20 m	5 m
2017-09	2017-09
Bot 5	Bot 7

Chlorophyll Data Sheet

Cruise:

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Dates of Cruise: 2017-09

Time and date acetone added: 19-Sept(2017) 3:40 Analyst: Nicki Davies

Time and date out of freezer: 1:40 (20-Sept 2017)

Time analysis started: 2:50

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.023			
STD			LOW	2-	11.280			
STD			HIGH	4-	60.755			
Blank				6-	0.004	8-	0.004	
446A	NLOS		9.9	1-	35.011	2-	21.792	
448A	NLOS			3-	63.382	4-	36.402	
5177B	LOOP NLOS			5-	29.976	6-	17.056	
441A	NLI			7-	35.475	8-	20.397	
442A	NLI			1-	17.493	2-	10.154	*170 mL?
440A	NLI			3-	40.366	4-	25.934	
431B	SS3			5-	37.879	6-	24.085	
432B	SS3			7-	52.093	8-	31.553	
433B	SS3			1-	30.858	2-	17.874	
436B	SS1			3-	14.697	4-	8.392	
435B	SS1			5-	44.332	6-	26.271	
436A	SS1			7-	14.373	8-	8.334	
434B	SS1			1-	46.880	2-	29.659	
418A	CS06			3-	170.305	4-	101.478	
5156	LOOP CS06			5-	155.832	6-	87.494	
421A	CS09			7-	20.724	8-	13.785	
428B	CS09			1-	34.374	2-	21.210	
429A	CS09			3-	75.841	4-	42.438	
433A	SS3			5-	31.893	6-	18.861	
408A	CS04			7-	98.932	8-	59.674	
409A	CS04			1-	99.488	2-	56.880	
416B	CS06			3-	159.646	4-	92.886	
415B	CS06			5-	128.496	6-	75.381	
410B	CS04			7-	91.026	8-	51.641	
Stand-by				1-	-0.025			
Std	Low			2-	11.290			
Std	High			4-	60.814			
Blank	by			6-	0.014	8-	0.012	

446A CHL NL05 20 m 2017-09 Bot 1	448A CHL NL05 5 m 2017-09 Bot 3	5177B CHL Loop NL01 2017-09 Bot 1	A 441 CHL NL1 10 m 2017-09 Bot 5	A 442 CHL NL1 5 m 2017-09 Bot 6	A 440 CHL NL1 20 m 2017-0 Bot 4	431B CHL SS3 20 m 2017-09 Bot 4	432B CHL SS3 10 m 2017-09 Bot 2	433B CHL SS3 5 m 2017-09 Bot 3	436B CHL SS1 5 m 2017-09 Bot 3	435B CHL SS1 10 m 2017-09 Bot 2
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436A CHL SS1 5 m 2017-09 Bot 3	434B CHL SS1 20 m 2017-09 Bot 1	418A CHL CS06 5 m 2017-09 Bot 7	A 5156 CHL Loop CS06 2017-09 Bot 1	427A CHL CS09 20 m 2017-09 Bot 9	428B CHL CS09 10 m 2017-09 Bot 10	429A CHL CS09 5 m 2017-09 Bot 11	433A CHL SS3 5 m 2017-09 Bot 3	408A CHL CS04 20 m 2017-09 Bot 5	409A CHL CS04 10 m 2017-09 Bot 6	416B CHL CS06 10 m 2017-09 Bot 5
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415B CHL CS06 20 m 2017-09 Bot 4	410B CHL CS04 5 m 2017-09 Bot 7
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Chlorophyll Data Sheet

Cruise:

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Dates of Cruise: 2017-09

Time and date acetone added: 20-Sept (2017) 12:00 Analyst: Nicole Davies

Time and date out of freezer: 10:00 (21-Sept 2017)

Time analysis started: 11:30

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.021			
STD			LOW	2-	11.332			
STD			HIGH	4-	21.61.278			
Blank				6-	0.008	8-	0.006	
451 B	SS05		9.9	1-	11.614	2-	6.507	
450 A	SS05			3-	14.992	4-	*	
449 A	SS05			5-	33.590	6-	19.959	
5188 B	Loop SS			7-	14.120	8-	8.630	
465 B	11			1-	34.152	2-	21.788	
453 A	14			3-	35.380	4-	28.618	
454 B	14			5-	45.613	6-	27.728	
464 B	11			7-	12.276	8-	9.587	
469 B	CPF2			1-	12.292	2-	9.052	
470 A	CPF2			3-	56.661	4-	36.093	
471 A	CPF2			5-	73.027	6-	46.294	
475 A	BS11			7-	34.274	8-	22.250	
479 A	BS11			1-	83.706	2-	48.248	
476 A	BS11			3-	58.783	4-	35.350	
480 A	CPF1			5-	10.803	6-	8.810	
481 B	CPF1			7-	19.992	8-	14.237	
482 B	CPF1			1-	64.385	2-	39.112	
493 A	22			3-	12.521	4-	9.980	
494 A	22			5-	18.550	6-	12.154	
496 B	22			7-	79.536	8-	45.599	
484 B	24			1-	19.228	2-	12.567	
485 A	24			3-	106.016	4-	63.262	
499 A	28			5-	128.642	6-	73.304	
498 A	28			7-	41.509	8-	26.276	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

451 B CHL SS05 5 m 2017-09 Bot 3	450 A CHL SS05 10 m 2017-09 Bot 2	449 A CHL SS05 20 m 2017-09 Bot 1	5188 B CHL Loop SS5 2017-09 Bot 1	465 B CHL 11 10 m 2017-09 Bot 11	453 A CHL 14 10 m 2017-09 Bot 2	454 B CHL 14 5 m 2017-09 Bot 3	464 B CHL 11 20 m 2017-09 Bot 10	469 B CHL CPF2 20 m 2017-09 Bot 1	470 A CHL CPF2 10 m 2017-09 Bot 2	471 A CHL CPF2 0 m 2017-09 Bot 3
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A 475 CHL BS11 20 m 2017-09 Bot 4	A 479 CHL BS11 0 m 2017-09 Bot 8	A 476 CHL BS11 10 m 2017-09 Bot 5	479 A CHL CPF1 20 m 2017-09 Bot 1	480 B CHL CPF1 10 m 2017-09 Bot 2	481 B CHL CPF1 0 m 2017-09 Bot 3	493 A CHL 22 20 m 2017-09 Bot 8	494 A CHL 22 10 m 2017-09 Bot 9	496 B CHL 22 0 m 2017-09 Bot 11	484 B CHL 24 10 m 2017-09 Bot 2	485 A CHL 24 0 m 2017-09 Bot 3
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499 A CHL 28 0 m 2017-09 Bot 3	498 A CHL 28 10 m 2017-09 Bot 2
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Chlorophyll Data Sheet

Cruise:

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Dates of Cruise: 2017-09

Time and date acetone added: 2:50 20-Sept 2017 Analyst: Nicole Davies

Time and date out of freezer: 1:15 21-Sept 2017

Time analysis started: 2:15

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.022			
STD			LOW	2-	11.196			
STD			HIGH	4-	101.226			
Blank				6-		8-		
508 B	GE01			1-	12.147	2-	8.773	
507 A	GE01			3-	6.667	4-	4.999	
510 A	GE01			5-	41.697	6-	24.750	
497 B	28			7-	7.660	8-	5.822	
514 B	38			1-	6.758	2-	5.643	
512 B	40			3-	14.220	4-	10.331	
513 A	40			5-	26.617	6-	17.249	
511 B	40			7-	9.402	8-	7.743	
525 B	41			1-	40.903	2-	26.163	
524 B	41			3-	7.260	4-	5.848	
516 A	38			5-	11.340	6-	64.461	
75 A	P4			7-	41.870	8-	23.896	
70 B	P4			1-	30.106	2-	18.158	
527 A	41			3-	83.400	4-	49.398	
300 B	LG01			5-	7.619	6-	5.059	
299 B	LG01			7-	19.590	8-	15.952	
301 A	LG01			1-	7.941	2-	4.698	
328 B	LBP7			3-	36.617	4-	21.795	
323 B	LBP7			5-	14.623	6-	8.778	
331 B	LBP7			7-	12.561	8-	7.240	
348 B	LBP5			1-	14.747	2-	9.359	
349 B	LBP5			3-	32.062	4-	19.242	
350 A	LBP5			5-	23.6702	6-	20.385	
379 A	CS00			7-	26.689	8-	15.802	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

508 ^B CHL GEO1 10 m 2017-09 Bot 9	507 ^A CHL GEO1 20 m 2017-09 Bot 8	510 ^A CHL GEO1 0 m 2017-09 Bot 11	497 ^B CHL 28 20 m 2017-09 Bot 1	514 ^B CHL 38 20m 2017-09 Bot 1	512 CHL ^B 40 10m 2017-09 Bot 2	513 CHL ^A 40 0 m 2017-09 Bot 3	511 CHL ^B 40 20m 2017-09 Bot 1	525 ^B CHL 41 10 m 2017-09 Bot 910	524 ^B CHL 41 20 m 2017-09 Bot 99	516 CHL ^A 38 0 m 2017-09 Bot 3
75 ^A CHL P4 5 m 2017-08 Bot 17	70 ^B CHL P4 30 m 2017-08 Bot 12	527 ^A CHL 41 0 m 2017-09 Bot 11	300 ^B CHL LG01 10 m 2017-09 Bot 4	299 ^B CHL LG01 20 m 2017-09 Bot 3	301 ^A CHL LG01 5 m 2017-09 Bot 5	328 ^B CHL LBP7 20 m 2017-09 Bot 18	329 ^B CHL LBP7 10 m 2017-09 Bot 19	331 ^B CHL LBP7 5 m 2017-09 Bot 21	348 ^B CHL LBP5 20 m 2017-09 Bot 17	349 ^B CHL LBP5 10 m 2017-09 Bot 18

350 ^A CHL LBP5 5 m 2017-09 Bot 19	379 CHL CS00 20 m 2017-09 Bot 18
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Chlorophyll Data Sheet

Cruise:

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Dates of Cruise:

Time and date acetone added: 20-Sept (2017) 4:15. Analyst: Nicole Davis

Time and date out of freezer: 21-Sept (2017) 3:15

Time analysis started: 4:15.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	0.024			
STD			LOW	2-	11.230			
STD			HIGH	4-	62.124			
Blank				6-	0.020	8-	0.017	
288 A	LG04		7.9	1-	11.145	2-	6.382	
286B	LG04			3-	7.707	4-	4.874	
287A	LG04			5-	9.862	6-	5.761	
293A	LG02			7-	21.633	8-	17.316	
294A	LG02			1-	11.165	2-	8.083	
296B	LG02			3-	13.735	4-	8.169	
287B	LG04			5-	9.890	6-	5.837	
286A	LG04			7-	8.288	8-	5.326	
5090B	W/LG04			1-	10.685	2-	6.197	
279A	LG06			3-	17.749	4-	10.446	
277B	LG06			5-	17.519	6-	10.872	
276A	LG06			7-	10.994	8-	10.661	
235B	LD08			1-	16.523	2-	9.166	
253A	LD11			3-	6.384	4-	3.749	
254A	LD11			5-	6.836	6-	3.826	
255A	LD11			7-	8.098	8-	4.482	
276A	LG06			1-	11.042	2-	6.610	
234A	LD08			3-	16.318	4-	9.188	
233A	LD08			5-	28.514	6-	16.963	
5072B	W/LG06			7-	65.052	8-	37.899	
217A	LD06			1-	45.544	2-	27.761	
209A	LD04			3-	77.130	4-	47.983	
218B	LD06			5-	61.714	6-	34.437	
208A	LD04			7-	62.465	8-	39.082	
Stand-by				1-	0.034			
Std	Low			2-	11.241			
Std	High			4-	61.007			
Blank	by			6-	0.023	8-	0.019	

[illegible]

Chlorophyll Data Sheet

Cruise:

Page: 1 of 3

Dates of Cruise: 2017-09

Time and date acetone added: 21-Sept 2017 12:30 Analyst: Nicole Davies

Time and date out of freezer: 10:30 Sept 22, 2017

Time analysis started: 11:30

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.026			
STD			LOW	2-	11.371			
STD			HIGH	4-	6.293			
Blank				6-	0.027	8-	0.026	
441 B	NLI			1-	36.570	2-	21.053	
442 B	NLI			3-	30.911	4-	17.788	
440 B	NLI			5-	39.941	6-	24.411	
434 A	SSI			7-	45.688	8-	28.471	
431 A	SS3			1-	36.215	2-	22.793	
432 A	SS3			3-	53.688	4-	32.708	
435 A	SSI			5-	45.342	6-	26.771	
5156 B	CS06			7-	154.861	8-	86.371	
427 AB	CS09			1-	22.900	2-	15.601	
428 A	CS09			3-	30.183	4-	17.999	
429 B	CS09			5-	83.233	6-	45.701	
409 B	CS04			7-	114.765	8-	64.894	
415 A	CS06			1-	136.180	2-	79.584	
416 A	CS06			3-	169.401	4-	97.110	
410 A	CS04			5-	100.275	6-	56.064	
400 A	CS02			7-	58.083	8-	33.822	
402 A	CS02			1-	83.831	2-	47.256	
401 B	CS02			3-	65.441	4-	38.314	
382 A	CS00			5-	6.989	6-	3.925	
358 A	LB P3			7-	12.663	8-	7.774	
380 A	CS00			1-	9.996	2-	5.794	
359 A	LB P3			3-	21.944	4-	12.378	
488 A	24			5-	5.371	6-	4.209	
479 B	BSU			7-	86.891	8-	49.455	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

[illegible]

Chlorophyll Data Sheet

Cruise:

Page: 2 of 3

Dates of Cruise: 201709

Time and date acetone added: 2-Sept 17 2:15.

Analyst: Nicole Davies

Time and date out of freezer: 12:15 22-Sept 2017.

Time analysis started: 1:05.

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.026			
STD			LOW	2-	11.287			
STD			HIGH	4-	60.428			
Blank				6-	0.0027	8-	0.023	
447A	NL05.			1-	81.082	2-	48.433	
445B	NL03			3-	7.467	4-	4.221	
448B	NL05.			5-	62.708	6-	35.981	
444B	NL03			7-	8.038	8-	4.756	
443B	NL03			1-	18.005	2-	10.596	
S177A	W00/M01			3-	28.676	4-	16.423	
210B	LD04			5-	14.188	6-	8.723	
208B	LD04			7-	58.095	8-	36.004	
205B	W002			1-	77.124	2-	44.247	
204B	LD02			3-	87.013	4-	33.046	
218A	LD06			5-	63.662	6-	35.515	
203B	LD02			7-	39.053	8-	28.631	
200B	LD01			1-	54.208	2-	32.162	
199B	LD01			3-	55.813	4-	33.351	
198A	LD01			5-	47.420	6-	29.215	
217B	LD06			7-	42.573	8-	25.314	
196B	LC01			1-	146.184	2-	82.589	
195B	LC01			3-	193.253	4-	108.105	
194B	LC01			5-	73.059	6-	44.083	
189B	LC02			7-	203.547	8-	114.250	
216B	LD06			1-	41.803	2-	25.736	
187B	LC02			3-	173.960	4-	97.858	*diluted 1/2
186B	LC02			5-	91.485	6-	54.680	
178A	LC04			7-	87.409	8-	50.602	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

[illegible]

Chlorophyll Data Sheet

Cruise:

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Dates of Cruise: 2017-09

Time and date acetone added: 21-sept-2017 4:00

Analyst: Nicole Davies

Time and date out of freezer: 2:00 22-sept.

Time analysis started: 3:00

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.026			
STD			LOW	2-	11.248			
STD			HIGH	4-	60.873			
Blank				6-	0.004	8-	0.00	
216A	LD06			1-	43.052	2-	26.947	
180B	LC04			3-	179.275	4-	100.336	
233B	LD08			5-	28.835	6-	17.176	
235A	LD08			7-	16.766	8-	9.439	
209B	LD04			1-	84.422	2-	53.961	
204A	LD02			3-	54.890	4-	32.429	
198B	LD01			5-	44.884	6-	28.076	
189A	LC02			7-	187.20	8-	107.463	
178B	LC04			1-	88.936	2-	51.327	
167A	LC06			3-	168.742	4-	99.002	
293B	LG02			5-	22.590	6-	18.851	
277A	LG06			7-	18.177	8-	10.700	
255B	LD11			1-	7.959	2-	4.443	
265A	LD02			3-	76.190	4-	44.322	
199A	LD01			5-	55.799	6-	33.458	
194A	LC01			7-	69.593	8-	41.778	
179B	LCC4			1-	120.129	2-	69.745	
168A	LC06			3-	251.978	4-	160.361	*diluted in 1/2
109A	LC06			5-	243.052	6-	133.812	*diluted in 1/2
294B	LG02			7-	8.076	8-	5.765	
447B	NLOS			1-	79.747	2-	47.451	
279B	LG06			3-	17.592	4-	10.502	
254B	LD11			5-	6.751	6-	3.794	
5072	LC04/LD06			7-	60.221	8-	34.115	
Stand-by				1-	-0.024			
Std	Low			2-	11.211			
Std	High			4-	60.933			
Blank	by			6-	0.018	8-	0.017	

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Chlorophyll Data Sheet

Cruise:

Page: 1 of 1

Dates of Cruise: 2017-09

Time and date acetone added: 12:10 25-Sept 2017. Analyst:

Time and date out of freezer: 10:10 26-Sept 2017.

Time analysis started: 11:00

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.024			
STD			LOW	2-	11.193			
STD			HIGH	4-	60.451			
Blank				6-	0.003	8-	0.002	
443 A	N103			1-	19.194	2-	11.289	
444 A	N103			3-	8.570	4-	5.029	
203 A	LD02			5-	40.307	6-	29.593	
196 A	LC01			7-	138.296	8-	78.184	
187 A	LC02			1-	297.537	2-	168.848	
180 A	LC04			3-	178.800	4-	99.681	*diluted in 1/2
288 B	LG04			5-	11.833	6-	6.765	
5090 A	LG04			7-	11.155	8-	6.561	
253 B	LD11			1-	6.785	2-	3.640	
284 B	LD08			3-	16.756	4-	9.560	
5055 B	LC06			5-	171.780	6-	98.778	*diluted in 1/2
186 A	LC02			7-	82.786	8-	48.532	
195 A	LC01			1-	195.319	2-	110.460	
200 A	LD01			3-	56.656	4-	30.113	
210 A	LD04			5-	13.414	6-	8.349	
445 A	N103			7-	7.223	8-	4.220	
169 B	LC06			1-	244.565	2-	143.779	*diluted in 1/2
179 A	LC04			3-	110.908	4-	63.550	
5055 A	LC06			5-	294.707	6-	176.373	
				7-		8-		
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-	-0.026			
Std	Low			2-	11.067			
Std	High			4-	60.382			
Blank	by			6-	-0.001	8-	-0.003	

443 A CHL NL03 20 m 2017-09 Bot 1	444 A CHL NL03 10 m 2017-09 Bot 2	A 203 CHL LD02 20 m 2017-09 Bot 3	196 A CHL LC01 5 m 2017-09 Bot 7	187 A CHL LC02 10 m 2017-09 Bot 6	180 A CHL LC04 5 m 2017-09 Bot 10	288 B CHL LG04 5 m 2017-09 Bot 9	A 50% CHL Loop LG04 2017-09 Bot 1	253 B CHL LD11 20 m 2017-09 Bot 18	234 B CHL LD08 10 m 2017-09 Bot 16	B 5055 CHL Loop LC06 2017-09 Bot 1
186 A CHL LC02 20 m 2017-09 Bot 5	195 A CHL LC01 10 m 2017-09 Bot 6	200 A CHL LD01 5 m 2017-09 Bot 4	210 A CHL LD04 5 m 2017-09 Bot 5	445 A CHL NL03 5 m 2017-09 Bot 3	169 B CHL LC06 5 m 2017-09 Bot 7	179 A CHL LC04 10 m 2017-09 Bot 9	A 5055 CHL Loop LC06 2017-09 Bot 1			

Chlorophyll Data Sheet

Cruise: La Prusse

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Dates of Cruise: 09/2017

Time and date acetone added: 11:00 230012017

Analyst: N. Cae

Time and date out of freezer: 8:33 260012017

Time analysis started: 10:05

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.020			
STD			LOW	2-	11.096			
STD			HIGH	4-	60.362			
Blank				6-	0.007	8-	0.004	
11A	Haros9			1-	160.033	2-	85.031	
12B	Haros9			3-	205.104	4-	107.425	
14A	Haros9			5-	237.634	6-	124.149	
44A	LB07			7-	51.752	8-	30.074	
16A	LB01			1-	95.476	2-	54.706	
17A	LB01			3-	63.736	4-	36.632	
19A	LB01			5-	125.786	6-	70.185	
22A	LB02			7-	30.090	8-	18.450	
23A	LB02			1-	68.210	2-	39.490	
25A	LB02			3-	50.115	4-	29.337	
26A	LB02			5-	46.951	6-	27.187	
5009A	LB02			7-	42.930	8-	24.866	
31A	LB04			1-	29.728	2-	18.730	
32A	LB04			3-	61.965	4-	35.364	
33A	LB04			5-	79.018	6-	44.337	
34B	LB05			7-	220.798	8-	122.256	*diluted in 1/2
42A	LB06			1-	211.532	2-	114.004	
41B	LB06			3-	155.593	4-	84.550	
40B	LB06			5-	56.387	6-	32.536	
52A	LB08			7-	24.791	8-	17.018	
53A	LB08			1-	72.345	2-	43.568	
55B	LB08			3-	27.217	4-	50.141	
62A	LB09			5-	53.844	6-	32.748	
63A	LB09			7-	94.070	8-	57.532	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

11 A	12 B	14 A	44 12 A	16 A	17 A	19 A	22 A	23 A	25 A	26 A
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Haro59	Haro59	Haro59	LB07	LB01	LB01	LB01	LB02	LB02	LB02	LB03
20 m	10 m	0 m	5 m	20 m	10 m	5 m	20 m	10 m	5 m	5 m
2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09
Bot 11	Bot 12	Bot 14	Bot 1	Bot 2	Bot 3	Bot 5	Bot 3	Bot 4	Bot 6	Bot 1

A 5009	31 A	32 A	33 A	34 B	42	41	40 B	52 A	53 A	55 B
CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL	CHL
Loop	LB04	LB04	LB04	LB05	LB06	LB06	LB06	LB08	LB08	LB08
LB02	20 m	10 m	5 m	5 m	5 m	10 m	20 m	20m	10m	5m
2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09	2017-09
Bot 1	Bot 5	Bot 6	Bot 7	Bot 1	Bot 8	Bot 7	Bot 6	Bot 7	Bot 8	Bot 10

62 A	63 A
CHL	CHL
LB09	LB09
20 m	10 m
2017-09	2017-09
Bot 7	Bot 8

Chlorophyll Data Sheet

Cruise: LP

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Dates of Cruise: 2017-09

Time and date acetone added: 4:20 25 Oct 2017

Analyst: NICOU

Time and date out of freezer: 2:20 26 Oct 2017

Time analysis started: 3:20

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	- 0.059			
STD			LOW	2-	10.977			
STD			HIGH	4-	60.059			
Blank				6-	0.000	8-	0.006	
91A	LB12			1-	26.333	2-	15.011	
90A	LB12			3-	51.996	4-	29.860	
89A	LB12			5-	51.858	6-	30.012	
76B	LB11			7-	55.286	8-	32.480	
75A	LB11			1-	54.322	2-	31.304	
74A	LB11			3-	49.461	4-	29.300	
65A	LB10			5-	170.097	6-	100.558	
64A	LB09			7-	125.698	8-	72.453	
131A	LC11			1-	5.698	2-	3.282	
130A	LC11			3-	7.212	4-	5.557	
112A	LB16			5-	12.133	6-	7.084	
5037B	LB14			7-	9.550	8-	5.376	
110A	LB14			1-	7.857	2-	4.446	
109A	LB14			3-	7.665	4-	4.232	
108A	LB14			5-	6.102	6-	3.555	
92A	LB13			7-	17.203	8-	9.647	
160A	LC08			1-	18.719	2-	9.045	
159A	LC08			3-	29.392	4-	17.142	
146B	LC09			5-	42.129	6-	24.326	
149A	LC09			7-	7.989	8-	4.459	
147B	LC09			1-	8.905	2-	4.985	
308-5014	LC011		29kt	3-	7.565	4-	4.404	
132A	LC11			5-	5.658	6-	3.192	
111B	LB15			7-	4.255	8-	2.424	
Stand-by				1-	- 0.020			
Std	Low			2-	10.979			
Std	High			4-	59.859			
Blank	by			6-	0.005	8-	0.003	

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Chlorophyll Data Sheet

Cruise: LP

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Dates of Cruise: 2017/09

Time and date acetone added: 4:20 Oct 26, 2017

Analyst: Nicolep

Time and date out of freezer: 2:20 Oct 27, 2017

Time analysis started: 3:20

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.021			
STD			LOW	2-	10.991			
STD			HIGH	4-	59.833			
Blank				6-	0.007	8-	0.006	
20 B	LB03			1-	47.804	2-	27.854	
52 B	LB08			3-	23.900	4-	16.179	
40 A	LB06			5-	60.332	6-	35.213	
41 A	LB06			7-	160.185	8-	86.268	
42 B	LB06			1-	227.248	2-	122.327	
34 A	LB05			3-	192.237	4-	110.909	*diluted 1/2
64 B	LB09			5-	134.100	6-	76.831	
63 B	LB09			7-	89.532	8-	53.619	
62 B	LB09			1-	54.956	2-	33.132	
55 A	LB08			3-	43.415	4-	24.555	*poured into beaker after 200 -diluted remaining 1/2 to increase vol
53 B	LB08			5-	68.650	6-	41.355	
89 B	LB12			7-	52.131	8-	30.760	
76 A	LB11			1-	56.806	2-	33.751	
75 B	LB11			3-	53.004	4-	30.531	
74 B	LB11			5-	47.129	6-	28.341	
65 B	LB10			7-	238.594	8-	174.030	
109 B	LB14			1-	7.591	2-	4.248	
108 B	LB14			3-	5.602	4-	3.177	
92 B	LB13			5-	16.856	6-	9.805	
91 B	LB12			7-	26.467	8-	15.308	
90 B	LB12			1-	50.782	2-	29.801	
131 B	LC11			3-	5.630	4-	3.229	
130 B	LC11			5-	9.159	6-	5.496	
112 B	LB16			7-	11.789	8-	6.857	
Stand-by				1-	-0.021			
Std	Low			2-	10.993			
Std	High			4-	59.868			
Blank	by			6-	0.004	8-	0.002	

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Chlorophyll Data Sheet

Cruise:

Page: 3 of 5

Dates of Cruise: 2017-09

Time and date acetone added: 11:25 Oct 26 2017

Analyst: Nicole

Time and date out of freezer: 9:25 27 Oct 2017

Time analysis started: 10:25

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.022			
STD			LOW	2-	11.084			
STD			HIGH	4-	60.004			
Blank				6-	0.004	8-		
160 B	LC08			1-	16.499	2-	9.300	
167 B	LC06			3-	182.369	4-	103.205	
5106 A	LOOP106	2017-08		5-	7.558	6-	4.284	
5107 B	LOOP107	2017-08		7-	3.399	8-	2.034	
5108 B	LOOP108	2017-08		1-	3.890	2-	2.290	
790	P4	2017-08		3-	1.392	4-	1.093	
793	P4	2017-08		5-	44.241	6-	26.793	
796 B	P4	2017-08		7-	28.176	8-	15.682	
5111 A	P4	2017-08		1-	28.930	2-	16.026	
792 A	P4	2017-08		3-	11.733	4-	7.621	
16 B	LB01			5-	91.824	6-	52.407	
44 B	LB07			7-	50.011	8-	29.261	
14 B	H0059			1-	236.665	2-	124.082	
12 A	H0059			3-	198.738	4-	105.010	
11 B	H0059			5-	165.462	6-	88.169	
250	LB02			7-	48.690	8-	27.949	
25 B	LB02			1-	69.782	2-	40.032	
22 B	LB02			3-	30.058	4-	18.479	
19 B	LB01			5-	122.850	6-	68.724	
17 B	LB01			7-	64.473	8-	37.553	
33 B	LB04			1-	77.746	2-	43.955	
32 B	LB04		99	3-	60.300	4-	33.992	
31 B	LB04			5-	30.704	6-	19.583	
5009 B	LB02			7-	41.712	8-	23.987	
Stand-by				1-				
Std	Low			2-				
Std	High			4-				
Blank	by			6-		8-		

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Chlorophyll Data Sheet

Cruise:

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Dates of Cruise: 2017/09

Time and date acetone added: 11:15am 30 Oct 2017 Analyst: NCD

Time and date out of freezer: 10:15am 31

Time analysis started: 11:20am

Sample #	Station	Vol filt	Vol acet		Rb		Ra	Comments
Stand-	by			1-	-0.002			
STD			LOW	2-	11.030			
STD			HIGH	4-	59.612			
Blank				6-	0.003	8-	6.00	
794	P4	2017-08		1-	33.832	2-	18.704	
5111 B	P4	2017-08		3-	81.637	4-	15.248	
792 B	P4	2017-08		5-	12.161	6-	7.884	
5106 B	LOOP	2017-08		7-	7.533	8-	4.302	
5107 A	LOOP	2017-08		1-	3.240	2-	1.955	
5108 A	LOOP	2017-08		3-	3.932	4-	2.343	
791	P4	2017-08		5-	4.680	6-	3.360	
796 A	P4	2017-08		7-	30.133	8-	16.888	
5037 A	LB14			1-	8.868	2-	4.987	
110 B	LB14			3-	7.436	4-	4.104	
1419 B	LC09			5-	8.109	6-	4.494	
147 A	LC09			7-	8.885	8-	5.067	
5044 A	LC11			1-	7.484	2-	4.409	
132 B	LC11	251		3-	5.833	4-	3.261	
111 A	LB15			5-	4.628	6-	2.664	
168 B	LC06			7-	299.782	8-	171.761	*diluted in 1/2
1102 A	LC08			1-	22.421	2-	12.531	
159 B	LC08			3-	29.367	4-	17.162	
162 B	LC08			5-	21.349	6-	11.890	
146 A	LC09			7-	44.226	8-	25.581	
				1-		2-		
				3-		4-		
				5-		6-		
				7-		8-		
Stand-by				1-	-0.020			
Std	Low			2-	10.972			
Std	High			4-	59.731			
Blank	by			6-	0.004	8-	0.002	

794 CHL P4 10 m 2017-08 Bot 18	5111 B CHL P4 LOOP 2017-08 Bot 1	792 CHL P4 B 50 m 2017-08 Bot 16	5106 B CHL Loop 106 LOOP 2017-08 Bot 1	5107 CHL A Loop 107 LOOP 2017-08 Bot 1	5108 A CHL loop 108 LOOP 2017-08 Bot 1	791 CHL P4 75 m 2017-08 Bot 15	796 CHL P4 A 5 m 2017-08 Bot 20	5037 CHL A LB14 5 m 2017-09 Bot 18 LOOP	110 B CHL LB14 5 m 2017-09 Bot 18	149 B OHL LC09 5 m 2017-09 Bot 17
147 A CHL LC09 10 m 2017-09 Bot 15	5044 A CHL Loop LC11 5 m 2017-09 Bot 1	132 B CHL LC11 5 m 2017-09 Bot 19	111 A CHL LB15 5 m 2017-09 Bot 1	168 B CHL LC06 10 m 2017-09 Bot 6	162 A CHL LC08 5 m 2017-09 Bot 13	159 B CHL LC08 20 m 2017-09 Bot 10	162 B CHL LC08 5 m 2017-09 Bot 13	146 A CHL LC09 20 m 2017-09 Bot 14		