

Chlorophyll Analysis Log

Arctic Program IOS

Analyst: KY CS

volumes only

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Date: 16 SEPT 2010

Cruise ID: 2010-07

Ship: LSSL

Cast:

Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
19:55- 20:25 AG-S	20	R	2.097	-470			
16 SEPT	20	A	2.117	-605			
	18	A	2.083	-445			
	18	B	2.135	-640			
	19	A	2.148	-820			
	19	B	2.136	-820			
10:59- 11:25 CABOS	41	A	1.056				
17 SEPT	41	B	1.054				
	42	A	1.057				
	42	B	1.054				
	43	A	1.055				
	43	B	1.053	-0.02			~20 mls spilled
16:09- 16:34 CB316	64	A	1.056				
17 SEPT	64	B	1.054				
	63	A	1.054				
	63	B	1.053				
	65	A	1.057				
	65	B	1.054				
16:40- 17:01 CB316	66	A	1.054				
17 SEPT	66	B	1.053				
	62	A	1.051				
	62	B	1.054				
	67	A	1.056				
	67	B	1.055				~25 mls spill
17:53- 18:05 Loop	8	A	1.054				
17 SEPT	8	B	1.054				
24:55- 22:41 CB-60	89	A	2.122				
17 SEPT	90	A	2.135				
	88	A	2.126				
	90	B	2.117				
	88	B	2.125				
	89	B	2.077				

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Analyst: KY CS

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Date: 18 SEPT 2010

Cruise ID: 2010-07

Ship: LSSL

Cast:

J015

	Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
01:25-02:10	Loop	11	A	2.079				
	18 SEPT	11	B	2.125				
21:09-21:37	CR61	113	A	1.052				
	SEPT 18	111	A	1.054				
		112	A	1.057				
		111	B	1.054				
		112	B	1.055				
		113	B	1.054				
28:25-23:43	Loop 14	14	A	1.053				
	18 SEPT	14	B	1.054				
	Loop 20	20	A	1.054				
	19 SEPT	20	B	1.053				
01:32-	MK-3	166	A	1.056				
	20 SEPT	166	B	1.054				
		167	A	1.054				
		167	B	1.052				
		168	A	1.054				
		168	B	1.057				
02:56-03:13	MK-2	188	A	1.054				
	20 SEPT	188	B	1.055				
		189	A	1.053				
		189	B	1.054				
		190	A	1.053				
		190	B	1.057				
	Loop	241	A	1.054				
	20 SEPT	24	B	1.053				
06:58-01:20	MK-1	200	A	1.056				All of MK-1 sat outside from 05:05 to 06:55 before filtering
		200	B	1.056				
		201	A	1.054				
		201	B	1.054				
		202	A	1.054				
		202	B	1.057				

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Analyst: KY CS

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Date: 70 SEP 2010

Cruise ID: 2010-07

Ship: 155L

Cast:

1015

Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
CB2844	206	A	1.055	0.01			Spilled 10mLs
	206	B	1.053				- started filtering 01
	207	A	1.057				(1/2 hr after station)
	207	B	1.054				
	208	A	1.054				
	208	B	1.053				
MX-3a Sept 20	230	A	1.054				
	232	A	1.056				
	232	B	1.054				
	230	B	1.054				
	231	A	1.054				
	231	B	1.056				
MX-4 Sept 20	255	A	1.053				
	255	B	1.055				
	258	A	1.054				
	258	B	1.057				
	256	A	1.053				
	256	B	1.057				
MX-6 20 Sept	282	A	1.057				
	280	A	1.053				
	282	B	1.053				
	281	A	1.054				
	280	B	1.057				
	281	B	1.055				
Loop 20 Sept	29	A	1.053				
	29	B	1.054				
CB286	323	A	1.057				
	323	B	1.057				
	324	A	1.055				
	324	B	1.053				
	325	A	1.054				
	325	B	1.057				

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Arctic Program IOS

Analyst: KY CS

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Date: 21 SEPT 2010

Cruise ID: 2010-07

Ship: LSSL

Cast:

JOIS

Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
CB29	347	A	2.117				
21 SEPT	347	B	2.126	-0.01			Spilled 10mL
	348	A	2.135				
	348	B	2.097				
	349	A	2.122				
	349	B	2.125				
MY-7	371	A	2.125				
21 SEPT	371	B	2.122				
	372	A	2.126				
	372	B	2.097				
	373	A	2.135	-0.25			Spilled 250mL
	373	B	2.117				
CB27	395	A	5+5+5+285				no water left in niskin
# 22	395	B	2.117				
22 SEPT	396	A	1.057				"
	396	B	1.054				"
	397	A	2.125				
	397	B	2.122				
Loop	38	A	2.117				
22 Sep 10	38	B	2.126				
CB22	419	A	2.083				
# 23	419	B	2.129				
22 Sep 10	420	A	2.130				
	420	B	2.124				
	421	A	2.148				
	421	B	2.080				
CB23a	445	A	2.130				
22 SEPT	445	B	2.129				
	443	A	2.080				
	443	B	2.148				
	444	A	2.083				
	444	B	2.124				

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22

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Arctic Program IOS

Analyst: *RY/CS*

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Date: *23 Sept 2010*Cruise ID: *2010-07*Ship: *LSSL*East: *---*

Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
<i>05:43- 6:18</i> CB-SD	490	A	2.130				
#26	490	B	2.129				
23 Sept	491	A	2.083				
	491	B	2.080				
	492	A	2.124				
	492	B	2.097				
<i>6:19- 6:48</i> Loop	45	A	2.079				
23 Sept 2010	45	B	2.125				
<i>14:42</i> CB-S1	515	A	2.129				
#27	515	B	2.097				
<i>15:20</i> 23-Sept	516	A	2.121				
	516	B	2.130				
	514	A	2.083				
	514	B	2.090				
<i>05:25- 5:44</i> Loop	53	A	1.055				
24 Sep 2010	53	B	1.057				
<i>1:04- 1:44</i> Loop	55	A	2.079				very green
26 Sep 10	55	B	2.125				" "
STA-A	562	A	1.054				
27 Sept 10	563	A	1.054-0.05				spilt ~ 50 mls
# 29	563	B	1.055				
	564	A	1.054				
	562	B	1.057				
	564	B	1.056				
<i>09:55</i> Loop	61	A	1.054				
27 Sep 10	61	B	1.056				
CB 29	586	A	2.092				
27 Sept 10	586	B	2.080				
# 30	587	A	2.135				
	587	B	2.124				
	588	A	2.125				
	588	B	2.122				

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Arctic Program IOS

Analyst: K1/CS

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Date: 27 Sept 2010

Cruise ID: 2010-07

Ship: LSSL

Cast:

Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
CB-2	612	A	1.055				
	612	B	1.057				
	610	A	1.054				
	610	B	1.056				
	611	A	1.054				
	611	B	1.054				
Loop 68	68	A	1.054				
	68	B	1.053				
CB-3 27 Sept	634	A	1.054				
	634	B	1.053				
	635	A	1.053				
	635	B	1.056				
	636	A	1.057				
	636	B	1.057				
Loop 28 Sept + 10	70	A	1.054				
	70	B	1.053				
CB 4 28 Sept 10 #33	661	A	2.125				
	654	B	2.097				
	654	A	2.083				
	661	B	2.080				
	657	A	2.135				
	657	B	2.130				
	658	A	2.148				
	660	B	2.129				
	658	B	2.117				
	660	A	2.126				
CB 4 #34	659	B	2.122				
	659	A	2.124				
	682	A	1.057				
	682	B	1.054				
	685	A	1.053				
	683	B	1.056				
	684	A	1.051				
	681	B	1.057				

15:57=
16:1317:53
18:0723:42
23:57

0:08

7:07-
7:3407:35-
8:1011:31
17:47

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Analyst: CS/KY

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Date: 28 Sep 2010

Cruise ID: 2010-07

Ship: LSS L

Cast:

Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
CBS	706	A	1.054				
28 Sept	706	B	1.054				
#35	707	A	1.057				
	707	B	1.053				
	708	A	1.053				
	708	B	1.054				
CB-7	730	A	1.053				
29 Sept	730	B	1.057				
#36	731	A	1.054				
	731	B	1.048				
	732	A	1.052				
	732	B	1.054				
Loop	82	A	1.054				
29 Sept	82	B	1.053				
CB-8	754	A	1.053				
30 Sept	754	B	1.052				
#37	755	A	1.054				
	755	B	1.054				
	756	A	1.054				
	756	B	1.053				
Loop 88	88	A	1.054				
30 Sept	88	B	1.053				
CB-10	802	A	2.130				
#39	802	B	2.135				
1 Oct 10	803	A	2.080				
	803	B	2.097				
	804	A	2.124				
	804	B	2.083				

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Arctic Program IOS

Analyst: KY/CS

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Date: 2 Oct 2010

Cruise ID: 2010-07

Ship: LSSL

Cast:

Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
CB-70	824	A	1.054				sampled 9:04, put in fridge until filtered @ 10:05
#40	824	B	1.057				
2 Oct 10	825	A	1.054				
	825	B	1.056				
	826	A	1.053				
	826	B	1.054				
	827	A	1.053				
	827	B	1.054				
	828	A	1.056				
	828	B	1.057				
	829	A	1.054				
	829	B	1.055				
CB-11	874	A	1.049				+ 1 filter blank
#42	874	B	1.056				
3 Oct 10	875	A	1.051				
	875	B	1.057				
	876	A	1.049				
	876	B	1.057				
Loop	97	A	1.057				
	97	B	1.054				
#44	922	A	1.054				+ 1 filter blank
4 Oct 10	922	B	1.057				
CB 9	923	A	1.057				
	923	B	1.053				
	924	A	1.056				
	924	B	1.056				
Loop	103	A	1.057 - 0.086				Too long filtering, stopped + measured vol
4 Oct 10	103	B	1.057 - 0.09				
CB-12	970	A	1.056				
#47	970	B	1.057				
4 Oct 2010	971	A	1.053				
	971	B	1.057				
	972	A	1.056				
	972	B	1.055				

7:11-
7:29

10:15

2:10-
3:0911:50
12:00

Chlorophyll Analysis Log

Arctic Program IOS

Analyst: KY / CS

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Date: 5 Oct 2010

Cruise ID: 2010-07

Ship: LSSL

Cast:

Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
CB16	1018	A	2.129				
#49	1018	B	2.148				
5 Oct 2010	1019	A	2.122				
	1019	B	2.117				
	1020	A	2.160				
	1020	B	2.126				
CB-13	1066	A	1.054				
#51	1066	B	1.054				
5 Oct 2010	1067	A	1.054				
	1067	B	1.053				
	1068	A	1.055				
	1068	B	1.054				
CB-15	1138	A	1.054				
#54	1138	B	1.053				
6 Oct 2010	1139	A	1.055				
	1139	B	1.054				
	1140	A	1.054				
	1140	B	1.054				
CB-17	1162	A	2.083				
#55	1162	B	2.124				
7 Oct 2010	1163	A	2.097				
	1163	B	2.135				
	1164	A	2.160				
	1164	B	2.130				
PP-7	1210	A	1.054				-100mLs - leaky
Oct 7	1210	B	1.056				
#57	1211	A	1.055				
	1211	B	1.053				
	1212	A	1.057				
	1212	B	1.056				

11:04
11:3716:35-
16:524:04
4:412206
2224

Chlorophyll Analysis Log

Arctic Program IOS

Analyst: KY/CS

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Date: 8 Oct 2010

Cruise ID: 2010-07

Ship: LSSL

Cast:

Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
PP-6	1258	A	1.054				
#59	1258	B	1.057				
8 Oct 2010	1259	A	1.055				
	1259	B	1.053				
	1260	A	1.056				
	1260	B	1.056				
CB-DW	1279	A	2.160				
Oct 8	1279	B	2.134				
#60	1280	A	2.130				
	1281	B	2.017				
	1282	A	2.083				
	1282	B	2.135				
CB-DW	1283	A	2.080				
Oct 8	1283	B	2.126				
	1284	A	2.140				
	1284	B	2.117				
	1285	A	2.129				
CB 18	1306	A					+ filter blank
#61	1306	B					
9 Oct 2010	1307	A					
	1307	B					
	1308	A					
	1308	B					
CB-19	1330	A	1.054				
#62	1330	B	1.055				
10 Oct 10	1331	A	1.053				
	1331	B	1.054				
	1332	A	1.054				
	1332	B	1.054				
CB-6	1354	A	1.057				
#63	1354	B	1.054				
10 Oct 10	1355	A	1.055				
	1355	B	1.055				
	1356	A	1.056				
	1356	B	1.056				

8:21
8:3618:47-
19:30

19:38

8:34

6:42
6:5516:00
16:14

Chlorophyll Analysis Log

Arctic Program IOS

Analyst: KY / CS

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Date: 11-Oct-2010

Cruise ID: 2010-07

Ship: LSSL

Cast: 65

Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
CB-21	1401	B	1.056				
65	1401	A	1.049				
11-Oct-2010	1405	A	1.052				
	1398	B	1.054				
	1398	A	1.049				
	1400	A	1.050				
	1400	B	1.057				
	1399	A	1.053				
	1399	B	1.054				
	1403	A	1.052				
	1402	A	1.051				
	1402	B	1.055				
	1397	A	1.050				
	1397	B	1.049				
✓	1403	B	1.054				
CB-21	1404	A	1.052				
cast 65	1405	B	1.054				
11-Oct-10	1404	B	1.053				
CB-21	1426	A	2.124				
#66	1426	B	2.083				
11 Oct 10	1427	A	2.160				
	1427	B	2.130				
	1428	A	2.135				
	1428	B	2.097				
CB-40	1450	A	1.054				
#67	1450	B	1.056				
12 Oct 10	1451	A	1.052				
	1451	B	1.055				
	1452	A	1.054				
	1452	B	1.053				
CB 50	1474	A	1.056				
#68	1474	B	1.054				
12 Oct 10	1475	A	1.051				
	1475	B	1.052				
	1476	A	1.053				
	1476	B	1.051				
							-200 mL Spill

5:04

5:18

5:20

5:33

5:41

5:57

10:16

10:49

5:33

16:18

Chlorophyll Analysis Log Arctic Program IOS

Arctic Program IOS

Analyst: K7 / CS

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Date: 13 Oct 2010

Cruise ID: 2010-07

Ship: USS L

Cast: 69-71

Station	Sample #	A or B	V Filtered (L)	V Extracted (mL)	Fo	Fa	Notes
CB 51	1498	A	1.052				
# 69	1498	B	1.054				
13 Oct 10	1499	A	1.056				
	1499	B	1.054				
	1500	A	1.055				
	1500	B	1.053				
CB-52	1522	A	1.057				
# 70	1522	B	1.056				
13 Oct 10	1523	A	1.053				
	1523	B	1.054				
	1524	A	1.054				
	1524	B	1.052				
CB-53	1541	A	1.055				
# 71	1541	B	1.052				
13 Oct 10	1542	A	1.051				
	1542	B	1.056				
	1543	A	1.051				
	1543	B	1.053				