

Chlorophyll Analysis Log Arctic Program, IOS

Analyst: K. Young / Miranda

Page: 1 /

Date:

Cruise ID: 2009-20

Program: J01S/ARCTIC

Ship: LSSL

Cast:

Date

19-Sept

20-Sept

21-Sept

22-Sept

23-Sept

23-Sept

Station	Sample #	V filtered (L)	V extracted (mL)	F ₀	F _a	Notes
AF ₁ -M	20 A	1.68				sat outside 1 hr
	20 B	1.78				
	22	1.65				no duplicate taken
	23 A	1.74				
	23 B	1.72				
CABOS	66 A	2.16 L				Samples run immediately after collection
	66 B	2.16 L				
	67 A	2.15 L				
	67 B	2.165 L				
	69 A	2.180 L				
	69 B	2.16 L				
CB-316	91 A	2.180 L				Bottle 22 did not close
	91 B	2.16 L				∴ no samples taken
	93 A	2.165 L				Samples run immediately after collection
	93 B	2.105 L				
CB-23a	114 A	2.16 L				Samples run immediately after collection
	114 B	2.15 L				
	115 A	2.05 L				
	115 B	1.82				stopped after 20 min
	117 A	1.815				
	117 B	1.96				
CB-22	139 A	2.105 L				Samples run immediately after collection
	139 B	2.16 L				
	140 A	1.595				stopped after 20 min
	140 B	1.67				
	142 A	1.58				
	142 B	1.61				
CB-27	163 A	2.18				CB27: sat ~ 1 hr before filtered
	163 B	2.19				start: 9:10 end 9:30
	164 A	1.82				9:15 9:40
	164 B	1.79				
	165 A	2.17				
	165 B	1.845				no sample ↳ spilled

- All stored in Box #1 in -80°C

Chlorophyll Analysis Log

Arctic Program, IOS

Analyst: K. Young / Miranda Corkum

Page: 2 /

Date:

Cruise ID: 2009-20

Program: J01S

Ship: LSSL

Cast:

Station	Sample #	V filtered (L)	V extracted (mL)	F ₀	F _a	Notes
Sept 23/09 MK-7	186A	1.410 L				* Filtered ~1 hour after collection
	186B	1.415 L				
	188A	1.615 L				* No niskin #24 ∴ sampled from niskin #23, instead
	188B	1.455 L				Partial sample → niskin empty
	189	1.650 L				
24 Sept Sta-A	210A	2.15 L				7:13 Filtered imm.
	210B	2.14 L				7:41
	211A	2.18 L				
	211B	2.175 L				
	212A	2.17 L				
	212B	2.10 L				
25 Sept (UTC) CB-29	235A	2.19 L				Filtered imm.
	235B	2.18 L				
	236A	1.690 L				
	236B	1.770 L				
	237A	1.690 L				
	237B	1.750 L				
27 Sept (UTC) CB-28aa	240A	1.69 L				Filtered ~2 hrs later
	240B	1.68 L				
	241A	1.595 L				
	241B	1.66 L				
	242A	1.58 L				
	242B	1.67 L				
27 Sept CB-28b	290A	2.16				filtered imm.
	290B	2.15				
	292	1.70				
	295	1.78				
28 Sept BL-4	345A	2.09				filtered imm
	345B	2.18				
	346A	1.77				
	346B	1.75				
	347A	1.75				
	347B	1.65				

- All stored in Box #1 in -80°C

stopped after 20 min

750
810

1215

6:00
6:25

6:20
6:45

Chlorophyll Analysis Log

Arctic Program, IOS

Analyst: K. Young / Miranda Corkum

Page: 3 /

Date:

Cruise ID: 2009-20

Program: Arctic / J015

Ship: LSSL

Cast:

Station	Sample #	V filtered (L)	V extracted (mL)	F _o	F _a	Notes
28 Sept	BL-8	369 A	2.15			Filtered imm.
		369 B	2.16			
		370 A	2.175			
		370 B	2.035			
		371 A	1.630			
		371 B	1.845			
29 Sept UTC	CB-2	410 A	2.105			
		410 B	2.085			
		411 A	2.175 - 560			
		411 B	2.15 - 560			
		413 A	2.18 - 220			
		413 B	2.16			
29 Sept	CB-4	434 A	2.17			Filtered imm
		434 B	2.15			
		435 A	2.18			
		435 B	2.16			
		436 A	1.85			
		436 B	1.78			
30 Sept	CB-5	489 A	2.17			Filtered imm
		489 B	2.17			
		490 A	2.16			
		490 B	2.16			
		491 A	1.79			
		491 B	1.93			
1 Oct UTC	CB-7	533 A	2.180			Filtered imm.
		533 B	2.170			
		536 A	2.165			
		536 B	2.190			
		539 A	2.160			
		539 B	2.170			
1 Oct	CB-8	560 A	2.16			Filtered imm.
		560 B	2.19			
		561 A	1.91			
		561 B	1.88			
		562 A	2.17			
		562 B	2.18			

end Box 1, start Box 2 #491A
#490B

11:55

10:15

6:20

02:50

↑
Box 1Box
#2

↓

11:07

11:30

6:35

7:02

Chlorophyll Analysis Log

Arctic Program, IOS

Analyst: K Young / M Corliss

Page: 4 /

Date:

Cruise ID: 2009-20

Program: Arctic/IOS

Ship: LSSL

Cast:

Station	Sample #	V filtered (L)	V extracted (mL)	F _o	F _a	Notes
1 Oct	CB-9	579 A	2.190			Filtered imm.
		579 B	1.640			
		581 A	1.705			
		581 B	2.160			slow drip from these towers.
		583 A	1.700			(edges of filters a bit mushed from high temp)
		583 B	1.635			
2 Oct	CB-10	630 A	2.16			Filtered imm
		630 B	2.16			
		631 A	2.17			
		631 B	2.18			
		634 A	2.17			
		634 B	2.19			
2 Oct	CB-60	702 A	2.200			Filtered imm.
		702 B	2.140			(702 A + B in 2ND batch)
		704 A	2.170			
		704 B	2.16			
		705 A	2.165			
		705 B	2.175			
3 Oct (UTC)	CB-61	725 A	2.140 L			Filtered imm.
		725 B	2.200 L			
		726 A	2.170 L			
		726 B	2.175 L			
		728 A	2.165 L			
		728 B	2.16 L			
3 Oct (UTC)	CB-116	750 A	2.175 L			Filtered imm
		750 B	2.170 L			
		751 A	2.085 L			
		751 B	2.165 L			
		752 A	2.09 L			
		752 B	2.170 L			
4 Oct	CB11	786 A	1.890 L			Filtered imm.
		786 B	1.900 L			
		787 A	1.900 L			
		787 B	1.995 L			

Box 2

Chlorophyll Analysis Log

Arctic Program, IOS

Analyst:

Page: 6 /

Date:

Cruise ID: 2009-20

Program: Arctic / IOS

Ship:

LSSL

Cast:

Station	Sample #	V filtered (L)	V extracted (mL)	F _o	F _a	Notes
9 Oct CB-18	960A	2.14				Filtered 1hr after
	960B	2.20				
	961A	2.16				
	961B	2.16				
	963A	2.17				
	963B	2.18				
9 Oct CB-21	985A	2.170				Filtered imm.
	985B	2.200				
	987A	2.180				
	987B	2.165				
	988A	2.16				
	988B	2.140				
10 Oct CB-40	1009A	2.20L				Filtered imm.
	1009B	2.18L				
	1010A	2.17L				
	1010B	2.16L				
	1012A	2.16L				
	1012B	2.14L				
12 Oct 09 CB6c	1079A	2.16L				Filtered imm
	1079B	2.14L				
	1080A	2.17L				
	1080B	2.165L				
	1083A	2.20L				
	1083B	2.18L				
Filter	Blank					clean filter put in scint vial -80 with samples.
12 Oct CB 21	1089A	2.165L				Filtered, imm.
	1089B	2.170L				
	1094A	2.180L				
	1094B	2.16L				
	1098A	2.140				
	1098B	2.200				

Box 3

Chlorophyll Analysis Log Arctic Program, IOS

Arctic Program, IOS

Analyst: Kelly Young / Miranda Corkum

Page: 7 /

Date:

Cruise ID: 2009-20

Program: ARCTIC/JAS

Ship: LSSL

Cast:

[illegible]

13 Oct

1045