

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Cruise: 02471			Leg: 1		Cast: 6			Type:										
Date: 4/29/11			Time: 1439		Lat: 22 10.881			Long: 65 57.409			Samplers:							
Date:			Time:		Lat:			Long:										
Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChIA	
1	80																	
2	80																	
3	80																	
4	80																	
5	60																	
6	60																	
7	60																	
8	60																	
9	60																	
10	40																	
11	40																	
12	40																	
13	40																	
14	40																	
15	20																	
16	20																	
17	20																	
18	20																	
19	20																	
20	0																	
21	0																	
22	0																	
23	0																	
24	0																	

2-PCR
Counts

Q
C

Q
C

Q
C

Q
C

[illegible]

G-10 36.5 36.2

[illegible]

[illegible]

[illegible]

[illegible]

Cruise: 00471			Leg: 1		Cast: 12					Type:								
Date: 5/1/11			Time: 1513		Lat: 17 55.154			Long: 60 57.560			Samplers:							
Date:			Time:		Lat:			Long:										
Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChIA	
1	90																	
2	80																	
3	70																	
4	80																	
5	60																	
6	60																	
7	60																	
8	60																	
9	60																	
10	40																	
11	40																	
12	40																	
13	40																	
14	40																	
15	20																	
16	20																	
17	20																	
18	20																	
19	20																	
20	0																	
21	0																	
22	0																	
23	0																	
24	0																	

3-PCR
counts

Q
C

Q
C

Q
C

Q
C

[illegible]

[illegible]

Cruise: 00471				Leg: 1		Cast: 15				Type:							
Date: 5/2/11		Time: 1522		Lat: 18 12.792			Long: 61 18.405			Samplers:							
Date:		Time:		Lat:			Long:										
Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus / Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChIA
1	80																
2	80																
3	80																
4	80																
5	60																
6	60																
7	60																
8	60																
9	60																
10	40																
11	40																
12	40																
13	40																
14	40																
15	20																
16	20																
17	20																
18	20																
19	20																
20	0																
21	0																
22	0																
23	0																
24	0																

2-100
count

Q
C

Q
C

Q
C

Q
C

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Cruise: 00471				Leg: 1		Cast: 21				Type:							
Date: 5/4/11		Time: 1510		Lat: 14 56.136			Long: 57.53.97			Samplers:							
Date:		Time:		Lat:			Long:										
Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChIA
1	80																
2	80																
3	80																
4	80																
5	60																
6	60																
7	60																
8	60																
9	60																
10	40																
11	40																
12	40																
13	40																
14	40																
15	20																
16	20																
17	20																
18	20																
19	20																
20	0																
21	0																
22	0																
23	0																
24	0																

Q-RK
count

Q
C

Q
C

Q
C

Q
C

Cruise: 00471			Leg: 1	Cast: 22			Type:										
Date: 5/4/11			Time: 1248	Lat: 14 52.732			Long: 57. 52.179			Samplers:							
Date:			Time:	Lat:			Long:										
Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keding	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus / Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChIA
1	700							C1	1/1/1								
2	500							C2	✓								
3	300		✓					C3	✓								
4	200		✓					C4	✓								
5	140		✓														
6	140								✓								
7	120																
8	120								✓								
9	100		✓														
10	100																
11	100			x					✓								
12	100				✓												
13	80			x					✓								
14	80																
15	60			x					✓								
16	60		✓														
17	40			x					✓								
18	40																
19	20		✓	x													
20	20		✓						✓								
21	0		✓														
22	0			x					✓								
23	0																
24	0				✓												

~~1/1/1~~ bottle miss fire @ unknown depth - no sample taken for nuts → salts not accurate

[illegible]

Cruise: 0471				Leg: 1		Cast: 24				Type:							
Date: 5/5/11		Time: 1445		Lat: 15 7.736			Long: 57 31.271			Samplers:							
Date:		Time:		Lat:			Long:										
Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus / Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChIA
1	80																
2	80																
3	80																
4	80																
5	60		- MISFIRE; DIDNT FIRE														
6	60																
7	60																
8	60																
9	60																
10	40																
11	40																
12	40																
13	40																
14	40																
15	20																
16	20																
17	20																
18	20																
19	20																
20	0																
21	0																
22	0																
23	0																
24	0																

2. PCR
count

Q
C

Q
C

Q
C

Q
C

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Cruise: 0C471			Leg: 1		Cast: 31		Type:											
Date: 5/7/11		Time: 1600		Lat: 13 56.421		Long: 54 32.985		Samplers:										
Date:		Time:		Lat:		Long:												
Niskin #	Depth	Niskin temp	Oxygens	CH DIC Bates	RNA DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChIA	
1	700							C13	✓									
2	500							C14	✓									
3	300		✓					C15	✓									
4	200		✓					C16	✓									
5	140		✓															
6	140								✓									
7	120																	
8	120				✓													
9	120								✓									
10	120																	
11	100		/															
12	100			x					✓									
13	80			✓					✓									
14	80																	
15	60			x					✓									
16	60		/															
17	40			x					✓									
18	40																	
19	20			x					✓									
20	20		/															
21	0		/															
22	0			x					✓									
23	0																	
24	0				✓				✓									

[illegible]

[illegible]

Cruise: 06491			Leg: 1		Cast: 34				Type:									
Date: 5/8/11			Time: 1613		Lat: 15 46.653		Long: 52 45.230			Samplers:								
Date:			Time:		Lat:		Long:											
Niskin #	Depth	Niskin temp	Oxygens	Chl DIC Bates	RNA DIC Kestrel	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChIA	
1	700	Not collected						C17	700									
2	500							C18	✓									
3	300		/					C19	✓									
4	200		/					C20	✓									
5	140		/															
6	140								✓									
7	110								✓									
8	110																	
9	110		/															
10	110				✓													
11	100		/															
12	100			* X					✓									
13	80			X X					✓									
14	80																	
15	60			X X					not ✓									
16	60	✓							not ✓									
17	40			X X					not ✓									
18	40																	
19	20	✓		X X					not ✓									
20	20	✗ Not sample																
21	0	/																
22	0			X X					not ✓									
23	0																	
24	0				✓													

~~700~~ 700 m tripped @ unknown depth → No sample for Nuts

[illegible]

[illegible]

[illegible]

[illegible]

Cruise: 00471			Leg: 1		Cast: 39		Type:											
Date: 5/10/11		Time: 1459		Lat: 15 25.421		Long: 53 1.454 W		Samplers:										
Date:		Time:		Lat:		Long:												
Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChIA	
1	80																	
2	80																	
3	80																	
4	80																	
5	60																	
6	60																	
7	60																	
8	60																	
9	60																	
10	40																	
11	40																	
12	40																	
13	40																	
14	40																	
15	20																	
16	20																	
17	20																	
18	20																	
19	20																	
20	0 (?)																	
21	0																	
22	0																	
23	0																	
24	0																	

2-PCR
:ank

Q
C

Q
C

Q
C

Q
C

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

Cruise: 00471			Leg: 1		Cast: 45			Type:									
Date: 5/12/11		Time: 1525		Lat: 14 43.345			Long: 57 28.189			Samplers:							
Date:		Time:		Lat:			Long:										
Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus / Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChIA
1	80																
2	80																
3	80																
4	80																
5	60																
6	60																
7	60																
8	60																
9	60																
10	40																
11	40																
12	40																
13	40																
14	40																
15	20																
16	20																
17	20																
18	20																
19	20																
20	0																
21	0																
22	0																
23	0																
24	0																

2-PCR
count

Q
C

Q
C

Q
C

Q
C

[illegible]

Cruise: 02471 TEMPUCE			Leg:		Cast:				Type:								
Date:			Time:		Lat:			Long:			Samplers:						
Date:			Time:		Lat:			Long:									
Niskin #	Depth	Niskin temp	Oxygens 101.	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChIA
	DEEP	SHALLOW															
1	700	80															
2	500	80															
3	300	80	✓														
4	200	80	✓														
5	140	80	✓														
6	140	80															
7	120	80															
8	120	80															
9	100	80															
10	100	40															
11	100	40	✓														
12	100	40															
13	80	40															
14	80	40															
15	60	20	✓														
16	60	20															
17	40	20															
18	40	20															
19	20	20	✓														
20	20	0															
21	0	0	✓														
22	0	0															
23	0	0															
24	0	0															

2 EXTRA
AT
DCM