Cruise: HS1227 AE1314	Leg: 1	Cast: HS1227c1.hex	Type: HS Shallow Core 0-500m
Date: 20130624 Time: 1512	Lat: 32°09.7251 N	Long: 064°29.9475W	Samplers: SAM, JOE, Craig, Craig, Kim, Steve
Date: 20130624 Time: 1601	Lat: 32°09.440 N	Long: 064°30.304	

Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Kim's Experiment	Virus/ Probes Steve Giovannoni Compound Specific DOM	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChlA
			614														
1	1	25.3	···101 113 114					·101									
2	1										X	X					
3	10	24.9	·102					·102			X						
4	20										X						
5	20																
6	25	23.9	·103					·103									
7	40										X	X					
8	40																
9	50	21.7	·104					·104									
10	75	20.9	·105					·105									
11	80										X	X					
12	80																
13	100	20.4	·106					·106									
14	120										X	X					
15	120																
16	150	20.4	·107					·107				X					
17	200	20.0	·108					·108				X					
18	200																
19	250	19.9	·~~704~~ 113					·109				~~X~~					
20	250											X					
21	300	19.8	···110 115 116					·110									
22	300											X					
23	400	19.2	·111					·111									
24	500	18.6	···112 117 118					·112									

Cruise: HS1227 / AE1314				Leg: 1		Cast: HS1227c2.hex				Type: HS Deep Core O- Bottom							
Date: 1648			Time: 2013 0624	Lat: 32°10.9710 N			Long: 064°29.931 W			Samplers: Dan Joe Craig Craig Kim							
Date: 1929			Time: 20130624	Lat: 32°09.3754 N			Long: 064°30.6838 W										
Niskin #	Depth	Niskin temp	Oxygens	DIC Bates	DIC Keeling	TOC/N	Sugars	Salts	Nuts	TDP / SRP / APA	Carlson DOM	Virus/ Probes DNA	POC/N vol = DAPI	Psi vol = Oxygen optode	DOP vol = DOC Ref Water	HPLC/FCM vol =	ChlA
1	1										X	X	X	X			
2	20										X	X	X	X			
3	40										X	X	X	X			
4	80										X	X	X	X			
5	120										X	X	X	X			
6	160										X	X	X	X			
7	200										X	X	X	X			
8	250																
9	300										X	X	X	X			
10	600	17.3	201 215 216					213									
11	700	16.2	202 217 218					214									
12	800	14.1	203 ~~217 218~~	suspect - leaker				215			X	X	X	X			
13	900	12.7	204					216									
14	1000	11.7	205					217			X	X	X	X			
15	1200	11.2	206					218									
16	1400	11.0	207					119									
17	1600	10.5	208					120									
18	2000	10.1	209					121									
19	2200	9.9	210					122									
20	2600	9.9	211					123, 127									
21	3000	9.8	212					124, 128									
22	3200	9.8	213					125, 129							X		
23	Bottom 3424	10.4	214 219 220					126, 130									
24	Bottom 3424																

Cruise: HS1227 AE1314				Leg: 1		Cast: HS1227c3.hex				Type: Hydro 0-300m mo' Pump Support							
Date: 2013 06 24			Time: 2325	Lat: 32°09.8802 N			Long: 064°29.6773 W			Samplers: Kim, Craig, Craig, MO Students.							
Date: 2013 06 24			Time: 2355	Lat: 32°09.8237 N			Long: 064°29.6023 W										
Niskin #	Depth	Niskin temp	Carlson ~~Oxygens~~	~~DIC~~ Bates	~~DIC~~ Keeling	~~POC/N~~	~~Sugars~~	~~Salts~~ Kim Exp.	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChlA
			FCM	DOM	DNA	POC	DNA Size Fraction										
1	0							x									
2	20		x	x	x	x		x									
3	40		x	x	x	x	x	x									
4	40																
5	40																
6	40																
7	40																
8	40																
9	40																
10	80		x	x	x	x		x									
11	100							x									
12	120		x	x	x	x		x									
13	150		x	x	x	x											
14	180		x	x	x	x											
15	200		x	x	x	x	x										
16	200																
17	200																
18	200																
19	200																
20	200																
21	200																
22	300		x	x	x	x											
23																	
24																	

Cruise: HS1227 AE1314				Leg:		Cast: HS1227 c4.hex				Type: HS MO Pump Support							
Date: 2013 06 25			Time: 0351	Lat: 32°09.0872 N			Long: 064° 30.3891 W			Samplers: Kim, Craig, Craig							
Date: 2013 06 25			Time: 0439	Lat: 32°08.7045 N			Long: 064° 30.4562 W										
Niskin #	Depth	Niskin temp	~~Oxygens~~ DNA Size Fraction	DIC Bates	DIC Keeling	~~POC/N~~ Kim Exp.	Sugars	Salts	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChlA
1	0					x											
2	20					x											
3	40					x											
4	80					x											
5	80		x														
6	80		x														
7	80		x														
8	80		x														
9	80		x														
10	80		x														
11	100					x											
12	120					x											
13	300		x														
14	300		x														
15	300		x														
16	300		x														
17	300		x														
18	300		x														
19	300		x														
20																	
21																	
22																	
23																	
24																	

Cruise: HS 1227 AE1314	Leg: 1	Cast: HS1227c5.hex	Type: HS Kim Exp.
Date: 2013 06 25 Time: 0835	Lat: 32° 09.4084	Long: 064° 29.7894	Samplers: Kim
Date: 2013 06 25 Time: 0859	Lat: 32° 09.3474	Long: 064° 29.8150	

Niskin #	Depth	Niskin temp	~~Oxygens~~ Kim Exp.	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 =	ChlA
1	0		X														
2	20		X														
3	40		X														
4	80		X														
5	100		X														
6	120		X														
7																	
8																	
9																	
10																	
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Cruise: HS1227 AE13 14				Leg:		Cast: HS 1227 c6 .hex				Type: Pump Support & Experiment Collection							
Date: 201306 25			Time: 0937	Lat: 32°09.6214 N			Long: 64°29.9887 W			Samplers:							
Date: 20130625			Time: 0959	Lat: 32 09.345 N			Long: 64°30.008' W										
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 =	ChlA
1	16																
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9	120																
10	150																
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21	200																
22																	
23																	
24																	

Aborted too many bottles
fired @ 150m (fired up to 10).

Cruise: HS1227 AE1314	Leg: 1	Cast: HS1227 C7.hex	Type: Pump Support + Experiment Collection
Date: 2013 06 25 Time: 1041	Lat: 32° 09.2614 N	Long: 064° 30.0580	Samplers: Craig Craig Rachel
Date: 2013 06 25 Time: 1029	Lat: 32° 09.1088 N	Long: 064° 30.1647	

Niskin #	Depth	Niskin temp	~~Oxygens~~ DNA Size Fraction	DIC Bates	DIC Keeling	~~POC/N~~ Rachel Barnes BBOP	Sugars	~~Salts~~ Exp.	Nuts	TDP / SRP / APA	Bact.	Virus/ Probes	POC/N vol =	Psi vol =	POP vol =	HPLC/FCM vol =	ChlA
1	10					X											
2	10					X											
3	10					X											
4	10					X											
5	10					X											
6	10					X											
7	10					X											
8	10					X											
9	120		X														
10	120		X														
11	120		X														
12	120		X														
13	120		X														
14	120		X														
15	150		X														
16	150		X														
17	150		X														
18	150		X														
19	150		X														
20	150		X														
21	200		X					X									
22	200							X									
23	200							X									
24	200							X									