

Cruis EDDIES				Leg:	OC415-3	Cast:	4	CTD	(0-700m)	Type:	A4	2013												
Date:				9 August 2005		Time:	1952		Lat:	30 00.239		Long:	68 09.407		Samplers:									
Date:				9 August 2005		Time:	2034		Lat:	30 00.188		Long:	68 09.320		POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres.	NH ₄	Flow Cyt
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	Vol=2L	Vol=4L	P	NP	$\delta^{15}N$	Phyto.	NP			
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																
4	1	0	25.6		2-7				29	25		31		39						1	8			
4	2	0												25	25	25	21							21
4	3	20	24.1		208				30	26		32		38						2				
4	4	20												26	26	26	22							22
4	5	40	21.4		209				31	27		33		37					3	3				
4	6	40												27	27	27	23							23
4	7	60	20.1		210				32	28		34		36						4				
4	8	60												28	28	28	24							24
4	9	70	19.9		211				33			35		35						5				
4	10	70													29	29	25							
4	11	80	19.9		212				34	29		36		34						6				
4	12	80												29	30	30	26							25
4	13	90	19.8		213				35			37		33		31	31	27		7				
4	14	100	19.8		214				36	30		38		32						8				
4	15	100												30	32	32	28							26
4	16	110	20.0		215				37			39		31		33	33			9				
4	17	120	19.8		216				38	31		40		30						10				
4	18	120												31	34	34	29							27
4	19	140	19.8		217				39	32		41		29						11				
4	20	140												32	35	35								28
4	21	200	19.4		218				40	33		42		28	33		36	30		12				29
4	22	300	19.4		219				41	34		43		27	34					13				30
4	23	500	18.8		220				42	35		44			35					14				
4	24	700	15.9		221					36		45			36					15				

Cruis EDDIES				Leg:	OC415-3	Cast:	13	*52	(0-700m)	Type:	A4	Samplers:											NH ₄	Flow Cyt							
Date:				10 August 2005		Time:		1911		Lat:		30 10.854		Long:		68 03.415															
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	δ ¹⁵ N	Pres.	NH ₄	Flow Cyt							
					Vol=2L	Vol=4L		P																							
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																							
13	1	0									121		151		143					1	11										
13	2	0												121	113	121	101							101							
13	3	20									122		152		142					2											
13	4	20												122	114	122	102							102							
13	5	40		135							123		153		141				11	3											
13	6	40												123	115	123	103							103							
13	7	60		130							124		154		140					4											
13	8	60												124	116	124	104							104							
13	9	70											155		139					5											
13	10	70													117	125	105														
13	11	80									125		156		138					6											
13	12	80												125	118	126	106							105							
13	13	90		125				12					157		137		119	127	107		7										
13	14	100									126		158		136						8										
13	15	100												126	120	128	108							106							
13	16	110											159		135	121	129				9										
13	17	120									127		160		134						10										
13	18	120												127	122	130	109							107							
13	19	140		122							128		161		133						11										
13	20	140												128	123	131	110							108							
13	21	200		118							129		162		132	129	132				12			109							
13	22	300		111				11			130		163		131	130					13			110							
13	23	500		108							131		164			131					14										
13	24	700		107				10			132		165			132					15										

Cruis EDDIES				Leg:	OC415-3				Cast:	21				CTD	(0-500m)				Type:	A5				3040						
Date:				13 August 2005				Time:	1054				Lat:	33 03.648				Long:	63 09.904				Samplers:				Tom, Olga, Sara B., Scotty, Megan			
Date:				13 August 2005				Time:	1210				Lat:	33 02.618				Long:	63 08.762											
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres.	NH ₄	Flow Cyt						
					Vol=2L	Vol=4L	NP																							
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H															NP							
21	1	0	27.2		101						193		241		221					1	9									
21	2	0												193	179	193														
21	3	20	27.3		102						194		242		220					2										
21	4	20												194	180	194														
21	5	40	23.5		103						195		243		219				17	3										
21	6	40												195	181	195														
21	7	60	22.3		104						196		244		218					4										
21	8	60												196	182	196														
21	9	70	22.0		105								245		217					5										
21	10	70													183	197														
21	11	80	21.6		106						197		246		216					6										
21	12	80												197	184	198														
21	13	90																		7										
21	14	100	21.0		108						198		248		214					8										
21	15	100												198	186	200														
21	16	110	20.9		109								249		213		187	201		9										
21	17	120	20.7		110						199		250		212					10										
21	18	120												199	188	202														
21	19	140	20.9		111						200		251		211					11										
21	20	140												200	189	203														
21	21	200	20.0		112						201	EE13	252		210	201	204			12										
21	22	300	19.5		113						202	EE14	253		209	202				13										
21	23	500	18.9		114						203	EE15	254		203					14										
21	24	500																												

Cruis EDDIES				Leg:	OC415-3				Cast:	22				CTD	(0-2000m)				Type:	A5				3038						
Date:				13 August 2005				Time:	1458				Lat:	33 03.638				Long:	63 34.903				Samplers:				Stephan, Bill, Donglai, Scotty, Megan			
Date:				13 August 2005				Time:	1614				Lat:	33 03.095				Long:	63 33.700											
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres.	NH ₄	Flow Cyt						
					Vol=2L	Vol=4L	NP																							
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H															NP							

CTD #		N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP
		Cruis EDDIES		Leg: OC415-3		Cast: 23		CTD (0-2000m)		Type: A5		3036													
		Date: 13 August 2005		Time: 1838		Lat: 33 03.708		Long: 63 59.900		Samplers: Sarah B., Valery, Ellyn, Scotty, Sybille, Olga, Megan															
		Date: 13 August 2005		Time: 2016		Lat: 33 02.172		Long: 63 58.697																	
23	1	0	27.9			209				217		271		247							1	8			
23	2	0													217	201	217								
23	3	20	27.3			210				218		272		246							2				
23	4	20													218	202	218								
23	5	40	22.3			211				219		273		245					19	3					
23	6	40													219	203	219								
23	7	60	20.8			212				220		274		244							4				
23	8	60													220	204	220								
23	9	70	20.4			213						275		243							5				
23	10	70														205	221								
23	11	80	20.2			214				221		276		242							6				
23	12	80													221	206	222								
23	13	90	20.1			215						277		241		207	223				7				
23	14	100	20.2			216				222		278		240							8				
23	15	100													222	208	224								
23	16	110	20.2			217						279		239		209	225				9				
23	17	120	20.3			218				223		280		238							10				
23	18	120													223	210	226								
23	19	140	20.0			219				224		281		237							11				
23	20	140													224	211	227								
23	21	200																							
23	22	300	19.3			221				226		283		235	226						13				
23	23	500	18.6			222				227		284			227						14				
23	24	700	17.9			223				228		285			228						15				

Cruis EDDIES				Leg:	OC415-3				Cast:	24		Cod	(0-200m)		Type:	A5		3035		Center of A5					
Date: #####				Time:	2133				Lat:	33 03.605		Long:	64 12.506		Samplers: Olga, Tom, Scotty, Sarah, Sybille										
Date: 13 August 2005				Time:	2259				Lat:	33 02.996		Long:	64 12.602		POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres.	NH ₄	Flow Cyt	
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	Vol=2L	Vol=4L									NP
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																	
24	1	0	27.3		1				183	229		286		260						1	11				
24	2	0												229	212	229									
24	3	20	26.0		2				184	230		287		259						2					
24	4	20												230	213	230									
24	5	40	21.3		3				185	231		288		258					20	3					
24	6	40												231	214	231									
24	7	60	20.5		4				186	232		289		257						4					
24	8	60												232	215	232									
24	9	70	19.8		5				187			290		256						5					
24	10	70													216	233									
24	11	80	19.8		6				188	233		291		255						6					
24	12	80												233	217	234									
24	13	90	20.5		7				189			292		254		218	235			7					
24	14	100	20.0		8				190	234		293		253						8					
24	15	100													234	219	236								
24	16	110	19.9		10				191			294		252		220	237			9					
24	17	120	19.9		11				192	235		295		251						10					
24	18	120													235	221	238								
24	19	140	19.9		12				193	236		296		250						11					
24	20	140													236	222	239								
24	21	200	19.8		13				194	237		297		249	237		240			12					
24	22	300	19.1		15				195	238		298		248	238					13					
24	23	500	18.1		16				196	239		299			239					14					
24	24	700	17.8		17					240		300			240					15					

Cruis EDDIES				Leg:	OC415-3	Cast:	28	CTD	(0-2000m)	Type:	A4	3030													
Date:				14 August 2005		Time:	1223		Lat:	33 03.551		Long:	65 14.900		Samplers: Olga, Megan, Scotty, tom										
Date:				14 August 2005		Time:	1338		Lat:	33 02.857		Long:	65 14.752												
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres.	NH ₄	Flow Cyt	
					Vol=2L	Vol=4L																			
28	1	0	27.3		52					265		331		299						1	11				
28	2	0												265	245	265									
28	3	20	27.0		53					266		332		298						2					
28	4	20												266	246	266									
28	5	40	22.5		54					267		333		297						3					
28	6	40												267	247	267									
28	7	60	21.3		55					268		334		296						4					
28	8	60												268	248	268									
28	9	70	20.7		56							335		295						5					
28	10	70													249	269									
28	11	80	20.5		57					269		336		294						6					
28	12	80												269	250	270									
28	13	90	20.5		58							337		293		251	271			7					
28	14	100	20.2		60					270		338		292						8					
28	15	100													270	252	272								
28	16	110	20.2		61							339		291		253	273			9					
28	17	120	20.2		62					271		340		290						10					
28	18	120													271	254	274								
28	19	140	19.9		63					272		341		289						11					
28	20	140													272	255	275								
28	21	200	19.3		64					273		342		288	273		276			12					
28	22	300	18.8		65					274		343		287	274					13					
28	23	500	18.0		66					275		344			275					14					
28	24	700	16.0		67					276		345			276					15					

Cruis EDDIES				Leg:	OC415-3				Cast:	29				CTD	(0-700m)				Type:	A4 Center Intercalibration w/ WBII 2070						
Date:				18 August 2005				Time:	2040				Lat:	30 11.118				Long:	68 34.112				Samplers: Sara, Valery, Bill, Sybille, Eilyn			
Date:				18 August 2005				Time:	2040				Lat:	30 11.393				Long:	68 33.714							
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres.	NH ₄	Flow Cyt	NP	
					O ₂	O ₂	O ₂	³ H																		Vol=2L
29	1	0	26.4		101				211	277		346		312						1	8			161		
29	2	0												277	256	277	161									
29	3	20	25.0	107	103			9	212	278		347		311						2				162		
29	4	20												278	257	278	162									
29	5	40	23.7	108	104				213	279		348		310						3				163		
29	6	40												279	258	279	163									
29	7	60	20.5	111	105			10	214	280		349		309						4				164		
29	8	60												280	259	280	164									
29	9	70	19.8	114	106				215			350		308						5						
29	10	70													260	281	165									
29	11	80	19.8	118	107				216	281		351		307						6						
29	12	80												281	261	282	166							165		
29	13	90	19.7		108				217			352		306		262	283	167		7						
29	14	100	19.7	122	109			11	218	282		353		305						8						
29	15	100												282	263	284	168							166		
29	16	110	19.8		110				219			354		304		264	285			9						
29	17	120	19.9	125	111				220	283		355		303						10						
29	18	120												283	265	286	169							167		
29	19	140	19.8	130	112			12	221	284		356		302						11						
29	20	140												284	266	287	170							168		
29	21	200	19.4		113				222	285	EE20	357		301	285		288			12				169		
29	22	300	19.2		114				223	286	EE21	358		300	286					13				170		
29	23	500	18.7		116				224	287	EE22	359		287						14						
29	24	700	16.2		117					288	EE23	360		288						15						

Cruis EDDIES				Leg:	OC415-3				Cast:	30 CTD (0-700m)				Type:	A4 2070												
Date:				18 August 2005				Time:	2232				Lat:	30 05.437				Long:	68 40.042				Samplers:	Tom, Olga, Scotty, Bill, Sybille			
Date:				18 August 2005				Time:	2306				Lat:	30 05.680				Long:	68 39.998								
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres.	NH ₄	Flow Cyt			
					Vol=2L	Vol=4L		P															Phyto.	NP			
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																			
30	1	0	25.6		118				225	289		361		325						1			171				
30	2	0												289	267	289	171										
30	3	20	24.3	135	119	2	1		226	290		362		324					2				172				
30	4	20												290	268	290	172										
30	5	40	22.2	136	120				227	291		363		323				25	3				173				
30	6	40												291	269	291	173										
30	7	60	20.7	138	121		2		228	292		364		322					4				174				
30	8	60												292	270	292	174										
30	9	70	20.0	139	124				229			365		321					5								
30	10	70													271	293	175										
30	11	80	20.0	140	201				230	293		366		320					6								
30	12	80												293	272	294	176						175				
30	13	90			202				231			367		319	273	295	177		7								
30	14	100	19.9	141	203		3		232	294		368		318					8								
30	15	100													294	274	296	178					176				
30	16	110			204				233			369		317	275	297			9								
30	17	120	19.8	143	205				234	295		370		316					10								
30	18	120												295	276	298	179						177				
30	19	140	19.7	145	206		4		235	296		371		315					11								
30	20	140													296	277	299	180					178				
30	21	200	19.5		207				236	297		372		314	297	300			12				179				
30	22	300	18.9		208				237	298		373		313	298				13				180				
30	23	500	18.6		209				238	299		374			299				14								
30	24	700	16.1		210					300		375			300				15								

Cruis EDDIES				Leg:	OC415-3	Cast:	33	CTD	(0-1200m)	Type:	A4	2011												
Date:				19 August 2005		Time:	0826		Lat:	29 59.913		Long:	68 34.650		Samplers: Valery, Bill, Sara, Ellyn, Megan									
Date:				19 August 2005		Time:	0929		Lat:	29 59.110		Long:	68 35.527		POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres.	NH ₄	Flow Cyt
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	Vol=2L	Vol=4L	P	NP	$\delta^{15}N$	Phyto.	NP	NP		
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																
33	1	0	25.3		3				253	313		391		351						1	8			
33	2	0												313	289	313	191							191
33	3	20		135		2	9												2					
33	4	20	23.4		4				254	314		392		350	314	290	314	192						192
33	5	40	21.4	136	5				255	315		393		349					27	3				
33	6	40												315	291	315	193							193
33	7	60	20.2	138	6		10		256	316		394		348						4				
33	8	60												316	292	316	194							194
33	9	70	20.0	139	7				257			395		347						5				
33	10	70													293	317	195							
33	11	80	19.8	140	8				258	317		396		346						6				
33	12	80												317	294	318	196							195
33	13	90	19.8		10				259			397		345	295	319	197			7				
33	14	100	19.8	141	11		11		260	318		398		344						8				
33	15	100													318	296	320	198						196
33	16	110	19.6		12				261			399		343		297	321			9				
33	17	120	19.8	143	13				262	319		400		342						10				
33	18	120												319	298	322	199							197
33	19	140	19.8	145	15		12		263	320		401		341						11				
33	20	140													320	299	323	200						198
33	21	200	19.5		16				264	321	EE24	402		340	321		324			12				199
33	22	300	19.0		17				265	322	EE25	403		339	322					13				200
33	23	500	18.5		18				266	323	EE26	404			323					14				
33	24	700	16.0		19					324	EE27	405			324					15				

#	#	Temp		O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H						Vol=2L	Vol=4L		P			Phyto.		NP	
37	1	0	26.6					295	349		436		390					1	7			
37	2	0											349	322	349	221					221	
37	3	20	25.3	107	56	3	7	296	350		4437		389					2				
37	4	20											350	323	350	222					222	
37	5	40	24.9	108	57			297	351		438		388				30	3				
37	6	40											351	324	351	223					223	
37	7	60	20.9	111	58			298	352		439		387					4				
37	8	60											352	325	352	224					224	
37	9	70	20.3		60			299			440		386					5				
37	10	70												326	353	225						
37	11	80	20.2	114	61			300	353		441		385					6				
37	12	80											353	327	354	226					225	
37	13	90	20.4		62			301			442		384		328	355	227		7			
37	14	100	20.1	118	63			302	354		443		384					8				
37	15	100											354	329	356	228					226	
37	16	110	20.2		64			303			444		382		330	357			9			
37	17	120	20.0	122	65			304	355		445		381					10				
37	18	120											355	331	358	229					227	
37	19	140	20.1	125	66		8	305	356		446		380					11				
37	20	140											356	332	359	230					228	
37	21	200	20.0	130	67		9	306	357		447		379	357		360			12			229
37	22	300	29.6		68			307	358		448		378	358					13			230
37	23	500	18.8		69			308	359		449		359						14			
37	24	700	16.2		72				360		450		360						15			

Cruis EDDIES		Leg: OC415-3		Cast: 38		CTD (0-1200m)		Type: A4		2306														
Date: 20 August 2005		Time: 0757		Lat: 30 54.074		Long: 68 34.597		Samplers: Ellyn, Bill, Valery, Sara, Megan																
Date: 20 August 2005		Time: 0858		Lat: 30 54.274		Long: 68 34.691																		
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres.	NH ₄	Flow Cyt
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																
38	1	0	27.8		101				309	361		451		403						1	8			231
38	2	0												361	333	361	231							

38	3	20	25.8	135	103	3	10		310	362		452		402					2				232
38	4	20												362	334	362	232						
38	5	40	22.9	136	104				311	363		453		401				31	3				233
38	6	40												363	335	363	233						
38	7	60	21.9	138	105				312	364		454		400					4				234
38	8	60												364	336	364	234						
38	9	70	21.5		106				313			455		399					5				
38	10	70													337	365	235						
38	11	80													338	366	236						235
38	12	80	21.0	139	107				314	365		456		398	365				6				
38	13	90	20.5		108				315			457		397		339	367	237		7			
38	14	100	20.5	140	109				316	366		458		396						8			
38	15	100													366	340	368	238					236
38	16	110	20.3		110				317			459		395		341	369			9			
38	17	120	20.0	141	111				318	367		460		394						10			
38	18	120													367	342	370	239					237
38	19	140	19.9	143	112		11		319	368		461		393						11			
38	20	140													368	343	371	240					238
38	21	200	19.7	145	113		12		320	369		462		392	369		372			12			239
38	22	300																		13			
38	23	500	18.2	148	116				322	371		464		371						14			
38	24	700	15.5	149	117					372		465		372						15			

Cruis EDDIES				Leg: OC415-3				Cast: 39				CTD (0-1200m)				Type: A4				2310				
Date: 20 August 2005				Time: 1559				Lat: 30 53.903				Long: 67 44.707				Samplers: Donglai, Stephan, Bill, Megan, Qian								
Date: 20 August 2005				Time: 1651				Lat: 30 53.184				Long: 67 44.420												
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Alk	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																
39	1	0	28.0		101	103	104		323	373		466		416						1				
39	2	0												373	344	373	241						241	
39	3	20	27.1		105				324	374		467		415						2				
39	4	20												374	345	374	242						242	
39	5	40	23.5		106				325	375		468		414				32	3					
39	6	40												375	346	375	243						243	
39	7	60	21.7		107				326	376		469		413						4				

39	8	60											376	347	376	244					244	
39	9	70	21.4		108				327			470		412					5			
39	10	70													348	377	245					
39	11	80	21.2		109				328	377		471		411					6			
39	12	80												377	349	378	246					245
39	13	90	20.7		110				329			472		410		350	379	247		7		
39	14	100	20.4		111				330	378		473		409						8		
39	15	100													378	351	380	248				246
39	16	110	20.2		112				331			474		408		352	381			9		
39	17	120	20.2		113				332	379		475		407						10		
39	18	120													379	353	382	249				247
39	19	140	20.3		114				333	380		476		406						11		
39	20	140													380	354	383	250				248
39	21	200	19.3		116				334	381	ZZ1	477		405	381		384			12		249
39	22	300	18.9		117				335	382	ZZ2	478		404	382					13		250
39	23	500	17.4		118				336	383	ZZ3	479			383					14		
39	24	700	14.5		119					384	ZZ4	480			384					15		

Cruis EDDIES				Leg: OC415-3				Cast: 40				CTD (0-1200m0				Type: A4				2190				
Date: 20 August 2005				Time: 1955				Lat: 30 32.465				Long: 68 09.620				Samplers: Valery, Sara, Ellyn, Sybille								
Date: 20 August 2005				Time: 2049				Lat: 30 32.809				Long: 68 09.235												
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres.	NH ₄	Flow Cyt
					Vol=2L	Vol=4L		P																
40	1	0	27.6		201				337	385		481		429						1	7			251
40	2	0												385	355	385	251							
40	3	20	26.5		202				338	386		482		428						2				252
40	4	20													386	356	386	252						
40	5	40	24.1		203				339	387		483		427					33	3				253
40	6	40													387	357	387	253						
40	7	60	21.9		204				340	388		484		426						4				254
40	8	60													388	358	388	254						
40	9	70	221.3		205				341			485		425						5				
40	10	70														359	389	255						
40	11	80	20.8		206				343	389		486		424						6				
40	12	80													389	360	390	256						255

40	13	90	20.6		207				343			487		423		361	391	257		7					
40	14	100	20.2		208				344	390		488		422						8					
40	15	100													390	362	392	258						256	
40	16	110	20.2		209				345			489		421		363	393			9					
40	17	120	20.2		210				346	391		490		420						10					
40	18	120													391	364	394	259						257	
40	19	140	19.8		211				347	392		491		419						11					
40	20	140													392	365	395	260						258	
40	21	200	19.6		212				348	393		492		418	393		396			12				259	
40	22	300	19.5		213				349	394		493		417	394					13				260	
40	23	500	18.5						350	395		494			395					14					
40	24	700	15.3		215					396		495			396					15					

Cruis EDDIES				Leg: OC415-3				Cast: 41				CTD (0-1200m)				Type: A4				2130							
Date: 20 August 2005				Time: 2234				Lat: 30 21.594				Long: 68 21.973				Samplers: Olga, Tom, Scotty, Sybille											
Date: 20 August 2005				Time: 2324				Lat: 30 21.517				Long: 68 21.518															
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/AIK	TOC/TON	Salts	Nuts	Bact	FRFF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP			
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																			
41	1	0	27.0		216				351	397		496		442						1	8						
41	2	0													397	366	397	261						261			
41	3	20	26.6		217				352	398		497		441						2							
41	4	20													398	367	398	262						262			
41	5	40	22.9		218				353	399		498		440					34	3					263		
41	6	40													399	368	399	263							263		
41	7	60	20.9		219				354	400		499		439						4						264	
41	8	60													400	369	400	264							264		
41	9	70	20.6		220				355			500		438						5							
41	10	70														370	401	265									
41	11	80	20.3		221				356	401		501		437						6							
41	12	80													401	371	402	266							265		
41	13	90	20.3		222				357			502		436		372	403	267									
41	14	100	20.2		223				358	402		503		435						8							
41	15	100													402	373	404	268							266		
41	16	110	20.2		224				359			504		434		374	405			9							
41	17	120	20.0		1				360	403		505		433						10							
41	18	120													403	375	406	269							267		

41	19	140	19.9		2				361	404		506		432					11					
41	20	140													404	376	407	270						268
41	21	200	19.5		3				362	405		507		431	405		408			12				269
41	22	300	19.2		4				363	406		508		430	406					13				270
41	23	500	18.3		5				364	407		509			407					14				
41	24	700	15.9		6					408		510			408					15				

Cruis EDDIES				Leg: OC415-3				Cast: 42				CTD (0-1200m)				Type: A4 2070 Sediment trap B								
Date: 21 August 2005				Time: 0432				Lat: 30 6.995				Long: 68 29.319				Samplers: Bill, Donglai, Stephan, Sybille								
Date: 21 August 2005				Time: 0524				Lat: 30 6.348				Long: 68 28.661												
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																
42	1	0	25.9		7				365	409		511		455						1				
42	2	0												409	377	409	271							271
42	3	20	24.3		8				366	410		512		454						2				
42	4	20												410	378	410	272							272
42	5	40	21.6		10				367	411		513		453				35	3					
42	6	40												411	379	411	273							273
42	7	60	20.7		11				368	412		514		452						4				
42	8	60												412	380	412	274							274
42	9	70	20.3		12				369			515		451						5				
42	10	70													381	413	275							
42	11	80	20.1		12				370	413		516		450						6				
42	12	80												413	383	414	276							275
42	13	90	20.0		15				371			517		449		383	415	277						
42	14	100	19.9		16				372	414		518		448						8				
42	15	100												414	384	416	278							276
42	16	110	19.6		17				373			519		447		385	417			9				
42	17	120	19.8		18				374	415		520		446						10				
42	18	120												415	386	418	279							277
42	19	140	19.5		19				375	416		521		445						11				
42	20	140												416	387	419	280							278
42	21	200	19.9		20				376	417		522		444	417	420				12				279
42	22	300	19.2		21				377	418		523		443	418					13				280

42	23	500	18.6		22				378	419		524			419				14					
42	24	700	16.0		23					420		525			420				15					

Cruis EDDIES				Leg: OC415-3				Cast: 43				CTD (0-1200m)				Type: A4 2010								
Date: 21 August 2005				Time: 0712				Lat: 29 59.961				Long: 68 47.053				Samplers: Sara, Valery, Ellyn, Megan								
Date: 21 August 2005				Time: 0812				Lat: 29 59.670				Long: 68 47.406												
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRF	POC/PON Vol=2L	HPLC Vol=3L	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																
43	1	0	26.6		24				379	421		526		468					1	11				
43	2	0												421	388	421	281						281	
43	3	20	23.8		26				380	422		527		467					2					
43	4	20												422	389	422	282						282	
43	5	40	21.7		28				381	423		528		466				36	3					
43	6	40												423	390	423	283						283	
43	7	60	20.2		29				382	424		529		465					4					
43	8	60												424	391	424	284						284	
43	9	70	20.1		30				383			530		464					5					
43	10	70													392	425	285							
43	11	80	20.1		31				384	425		531		463					6					
43	12	80												425	393	426	286						285	
43	13	90	20.1		32				385			535		462		394	427	287		7				
43	14	100	19.8		33				386	426		533		461	426	395	428	288		8			286	
43	15	100																						
43	16	110																						
43	17	120																						
43	18	120																						
43	19	140	19.6		37				389	428		536		458					11					
43	20	140													428	398	431	290					288	
43	21	200	19.3		38				390	429	ZZ5	537		457	429		432		12					
43	22	300	19.0		39				391	430	ZZ6	538		456	430				13					
43	23	500	18.9		40				392	431	ZZ7	539			431				14					
43	24	700	15.8		41					432	ZZ8	540			432				15					

Cruis EDDIES				Leg:	OC415-3				Cast:	44 CTD (0-1200)				Type:	A4 1950											
Date:				21 August 2005				Time:	0944				Lat:	29 49.199				Long:	68 59.613				Samplers: Olga, Valery, Scotty, Tom, Ellyn, Megan			
Date:				21 August 2005				Time:	1046				Lat:	29 49.354				Long:	68 59.852							
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Alk	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP		
					O ₂	O ₂	O ₂	³ H																		
44	1	0	26.2		42				393	433		541		481						1	8					
44	2	0												433	399	433	291						291			
44	3	20	24.2		43				394	434		542		480						2						
44	4	20												434	400	434	292						292			
44	5	40	22.8		44				395	435		543		479				37	3							
44	6	40												435	401	435	293						293			
44	7	60	20.8		45				396	436		544		478					4							
44	8	60												436	402	436	294						294			
44	9	70	20.2		46				397			545		477					5							
44	10	70													403	437	295									
44	11	80	20.0		47				398	437		546		476					6							
44	12	80												437	404	438	296						295			
44	13	90	20.0		48				399			547		475	4055	439			7							
44	14	100	20.0		49				400	438		548		474			297		8							
44	15	100												438	406	440							296			
44	16	110	19.9		51				401			549		473	407	441	298		9							
44	17	120	20.0		52				402	439		550		472					10							
44	18	120												439	408	442	299						297			
44	19	140	19.9		53				403	440		551		471					11							
44	20	140												440	409	443	300						298			
44	21	200	19.8		54				404	441		552		470	441	444			12				299			
44	22	300	19.3		55				405	442		553		469	442				13				300			
44	23	500	18.8		56				406	443		554			443				14							
44	24	700	15.4		57					444		555			444				15							

46	1	0	28.0		101				421	457		571		507					1	11				
46	2	0												457	421	457	311						311	
46	3	20	26.0		103				422	458		572		506					2					
46	4	20												458	422	458	312						312	
46	5	40	24.9		104				423	459		573		505				39	3					
46	6	40												459	423	459	313						313	
46	7	60	22.1		105				424	460		574		504					4					
46	8	60												460	424	460	314						314	
46	9	70	21.2		106				425			575		503					5					
46	10	70													425	461	315							
46	11	80	20.9		107				426	461		576		502					6					
46	12	80												461	426	462	316						315	
46	13	90	20.5		108				427			577		501		427	463	317		7				
46	14	100	20.3		109				428	462		578		500					8					
46	15	100												462	428	464	318						316	
46	16	110	20.3		110				429			579		499		429	465		9					
46	17	120	20.2		111				430	463		580		498					10					
46	18	120												463	430	466	319						317	
46	19	140	20.1		112				431	464		581		497					11					
46	20	140												464	431	467	320						318	
46	21	200	19.5		113				432	465		582		496	465		468		12				319	
46	22	300	19.0		114				433	466		583		495	466				13				320	
46	23	500	17.7		116				434	467		584			467				14					
46	24	700	15.3		117					468		585			468				15					

Cruis EDDIES				Leg:	OC415-3				Cast:	47				CTD	(0-1200m)				Type:	2068																			
Date:				22 August 2005				Time:				0110				Lat:				30 10.854				Long:				68 59.450				Samplers:				Tom, Olga, Scotty, Sybille			
Date:				22 August 2005				Time:				0158				Lat:				30 11.372				Long:				68 58.495											
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/AIk	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP															
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																															
47	1	0	27.3		118				435	469		586		520																									
47	2	0												469	432	469	321						321																
47	3	20	24.9		119				436	470		587		519																									
47	4	20												470	433	470	322						322																
47	5	40	23.6		120				437	471		588		518				40																					

50	105																								
50	105																								
50	105																								
50	105																								
50	105																								
50	105																								

Cruis EDDIES				Leg:	OC415-3				Cast:	51				CTD	(0-1200m)				Type:	A4 Center 2070																			
Date:				22 August 2005				Time:				0658				Lat:				30 10.736				Long:				68 34.981				Samplers:				Ellyn, Donglai, Sara, Valery, Megan			
Date:				22 August 2005				Time:				0800				Lat:				30 9.925				Long:				68 34.898											
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/AIk	TOC/TON	Salts	Nuts	Bact	FRFF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt P	DOP	N/P	δ ¹⁵ N	Pres. Phyto.	NH ₄	Flow Cyt NP															
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																															
51	1	0	25.9		3			463	493		616		546						1	11																			
51	2	0												493	454	493	341							341															
51	3	20														494																							
51	4	20	24.2		4			464	494		617		545	494	455		342		2					342															
51	5	40	23.3		5			465	495		618		544						3																				
51	6	40												495	456	495	343							343															
51	7	60	21.7		6			466	496		619		543						4																				
51	8	60												496	457	496	344							344															
51	9	70	20.3		7			467			620		542						5																				
51	10	70													458	497	345																						
51	11	80	20.0		8			468	497		621		541						6																				
51	12	80												497	459	498	346							345															
51	13	90	19.9		10			469			622		540		460	499	347		7																				
51	14	100	19.8		11			470	498		623		539						8																				
51	15	100												498	461	500	348							346															
51	16	110	19.8		12			471			624		538		462	501			9																				
51	17	120	19.7		13			472	499		625		537						10																				
51	18	120												499	463	502	349							347															
51	19	140	19.6		15			473	500		626		536						11																				
51	20	140													500	464	503	350							348														
51	21	200	19.5		16			474	501	ZZ9	627		535	501		504			12					349															
51	22	300	19.0		17			475	502	ZZ10	628		534	502					13					350															
51	23	500	18.3		18			476	503	ZZ11	629			503					14																				
51	24	700	15.9		19				504	ZZ12	630			504					15																				

CTD #		N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Alk	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON	HPLC	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres.	NH ₄	Flow Cyt NP
						O ₂	O ₂	O ₂	³ H						Vol=2L	Vol=4L						Phyto.			
53	1	0	28.3			39				491	517	646		572								7			
53	2	0													517	476	517	361						361	
53	3	20	26.0			40				492	518	647		571											
53	4	20													518	477	518	362						362	
53	5	40	24.2			41				493	519	648		570					44						
53	6	40													519	478	519	363						363	
53	7	60	21.8			42				494	520	649		569											
53	8	60													520	479	520	364						364	
53	9	70	221.3			43				495		650		568											
53	10	70														480	521	365							
53	11	80	20.9			44				496	521	651		567											
53	12	80													521	481	522	366						365	
53	13	90	20.7			45				497		652		566		482	523	367							
53	14	100	20.7			46				498	522	653		565											
53	15	100													522	483	524	368						366	
53	16	110	20.5			47				499		654		564		484	525								
53	17	120	20.5			48				500	523	655		564											
53	18	120													523	485	526	369						367	
53	19	140	20.5			49				501	524	656		562											
53	20	140													524	486	527	370						368	
53	21	200	20.1			51				502	525	657		561	525		528							369	
53	22	300	19.7			52				503	526	658		560	526									370	
53	23	500	18.5			53				504	527	659			527										
53	24	700	15.5			54					528	660			528										

Cruis EDDIES		Leg: OC415-3			Cast: 54		CTD (0-1200m)		Type: A4		2074												
Date: 22 August 2005		Time: 1452			Lat: 30 10.700		Long: 67 44.682		Samplers: Qian, Bill, Stephan, Donglai, Megan														

		Date: 22 August 2005			Time: 1543				Lat: 30 10.356			Long: 67 45.074												
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																
54	1	0	28.5		61				505	529		661		585						1	11			
54	2	0												529	487	529	371						371	
54	3	20	27.6		62				506	530		662		584					2					
54	4	20												530	488	530	372						372	
54	5	40	24.3		63				507	531		663		583				45	3					
54	6	40												531	489	531	373						373	
54	7	60	22.5		64				508	532		664		582					4					
54	8	60												532	490	532	374						374	
54	9	70	22.0		65				509			665		581					5					
54	10	70													491	533	375							
54	11	80	21.8		66				510	533		666		580					6					
54	12	80												533	492	534	376						375	
54	13	90	21.5		67				511			667		579		493	535	377		7				
54	14	100	21.0		68				512	534		668		578					8					
54	15	100												534	494	536	378						376	
54	16	110	20.9		69				513			669		577		495	537			9				
54	17	120	20.8		72				514	535		670		576					10					
54	18	120												535	496	538	379						377	
54	19	140	20.5		73				515	536		671		575					11					
54	20	140												536	497	539	380						378	
54	21	200	19.8		74				516	537		672		574	537		540			12			379	
54	22	300	19.4		75				517	538		673		573	538					13			380	
54	23	500	17.3		76				518	539		674		539						14				
54	24	700	14.5		77					540		675		540						15				

		Cruis EDDIES			Leg: OC415-3				Cast: 55			CTD (0-200m)			Type: Incubation by prod array									
		Date: 23 August 2005			Time: 1120				Lat: 29 56.574			Long: 68 57.222			Samplers:									
		Date: 23 August 2005			Time: 1135				Lat: 29 56.515			Long: 68 57.186												
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																

56	7	60	221.0		106				522	544		679		595					4					
56	8	60												544	501	544	384						384	
56	9	70	20.6		107				523			680		594					5					
56	10	70													502	545	385							
56	11	80	20.3		108				524	545		681		593					6					
56	12	80												545	503	546	386						385	
56	13	90	19.9		109				525			682		592		504	547	387		7				
56	14	100	19.9		110				526	546		683		591					8					
56	15	100													546	505	548	388					386	
56	16	110	19.8		111				527			684		590		506	549		9					
56	17	120	19.7		112				528	547		685		589					10					
56	18	120													547	507	550	389					387	
56	19	140	19.6		113				529	548		686		588					11					
56	20	140													548	508	551	390					388	
56	21	200	19.5		114				530	549	ZZ13	687		587	549		552		12				389	
56	22	300	19.3		116				531	550	ZZ14	688		586	550				13				390	
56	23	500	18.5		117				532	551	ZZ15	689			551				14					
56	24	700	14.8		118					552	ZZ16	690			552				15					

Cruis EDDIES				Leg:	OC415-3			Cast:	57		CTD	(0-1200m)		Type:	A4		1778							
Date:				23 August 2005				Time:	2326		Lat:	29 16.734		Long:	67 57.140		Samplers: Olga, Tom, Bill, Scotty, Sybille							
Date:				23 August 2005				Time:	0012		Lat:	29 16.782		Long:	67 56.844									
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																
57	1	0	28.0									553		691					1	8				
57	2	0												553	509	553	391						391	
57	3	20	27.0		120							554		692					2					
57	4	20												554	510	554	392						392	
57	5	40	23.5		121							555		693				47	3					393
57	6	40												555	511	555	393							393
57	7	60	22.0		124							556		694					4					
57	8	60												556	512	556	394							394
57	9	70	21.3		201							695		607					5					
57	10	70													513	557	395							
57	11	80	20.8		202							557		696					6					

57	12	80												557	514	558	396						395	
57	13	90	20.4			203								697		605					7			
57	14	100	20.2			204								558		698					8			
57	15	100																						396
57	16	110				205								699		603					9			
57	17	120	20.3			206								559		700					10			
57	18	120																						397
57	19	140	20.2			207								560		701					11			
57	20	140																						398
57	21	200	19.1			208								561		702					12			299
57	22	300	19.0			209								562		703					13			400
57	23	500	17.2			210								563		704					14			
57	24	700	13.9			211								564		705					15			

Cruis EDDIES				Leg:	OC415-3					Cast:	58					CTD	Type:	A4								1894									
Date:				24 August 2005				Time:			0632			Lat:			29 38.368			Long:			68 22.251			Samplers:								Valery, Eilyn, Sara, Megan	
Date:				24 August 2005				Time:			0729			Lat:			29 38.172			Long:			68 22.032												
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Alk	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON	HPLC	Chla	Flow Cyt	DOP	N/P	δ ¹⁵ N	Pres.	NH ₄	Flow Cyt											
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																	Vol=2L	Vol=4L	P	NP							
58	1	0	28.2			212													1	7															
58	2	0												565		520		565		401				401											
58	3	20	25.6			213								566		707				2				402											
58	4	20																						402											
58	5	40	23.4			215								567		708				48	3														
58	6	40																						403											
58	7	60	21.7			216								567		522		567		403				403											
58	8	60												568		523		568		404				404											
58	9	70	20.9			217														5															
58	10	70																																	
58	11	80	20.6			218								569		711				6															
58	12	80																						405											
58	13	90	20.3			219								569		525		570		406				405											
58	14	100	20.2			220														7															
																				8															

59	20	140											584	541	587	420						418	
59	21	200	19.4		17				585			732		626	585		588				12		419
59	22	300	19.2		18				586			733		625	586						13		420
59	23	500	18.6		19				587			734			587						14		
59	24	700	15.7		20				588			735			588						15		

Cruis EDDIES				Leg: OC415-3				Cast: 60 CTD (0-1200m)				Type: A4 Center 2010												
Date: 24 August 2005				Time: 1150				Lat: 29 59.948				Long: 68 46.912				Samplers: Tom, Olga, Scotty, Sara, Megan								
Date: 24 August 2005				Time: 1237				Lat: 29 59.864				Long: 68 47.129												
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																
60	1	0	27.6		21				533	589		736		650						1	11			
60	2	0												589	542	589	421							421
60	3	20	26.4		22				534	590		737		649						2				
60	4	20												590	543	590	422							422
60	5	40	25.3		23				535	591		738		648					50	3				423
60	6	40												591	544	591	423							423
60	7	60	21.9		24				536	592		739		647						4				
60	8	60												592	545	592	424							424
60	9	70	21.4		25				537			740		646		546	593	425		5				
60	10	80	20.9		26				538	593		741		645						6				
60	11	80												593	547	594	426							425
60	12	90	20.8		29				539			742		644		548	595	427		7				
60	13	100	20.6		30				540	594		743		643						8				
60	14	100												594	549	596	428							426
60	15	110	20.5		31				541			744		642		550	597			9				
60	16	120	20.5		32				542	595		745		641						10				
60	17	120												595	551	598	429							427
60	18	140	20.5		33				543	596		746		640						11				
60	19	140												596	552	599	430							428
60	20	200	20.2		34				544	597		747		639	597		600			12				429
60	21	300	19.9		35				545	598		748		638	598					13				430
60	22	500	19.2		37				546	599		749			599					14				

11	80	20.2		107					650		810		697						6							
12	80												650	591	642	466								465		
13	90	20.1		108							811		696		592	643	467			7						
14	100	20.0		109					651		812		695							8						
15	100												651	593	644	468								466		
16	110	20.0		110							813		694		594	645				9						
17	120	19.8		111					652		814		693							10						
18	120												652	595	646	469								467		
19	140	19.7		112					653		815		692							11						
20	140												653	596	647	470								468		
21	200	19.6		113					654	ZZ25	816		691	654		648				12				469		
22	300	19.3		114					655	ZZ26	817		690	655						13				470		
23	500	18.7		210					656	ZZ27	818			656						14						
24	700	15.8		211					657	ZZ28	819			657						15						

Cruis EDDIES		Leg: OC415-3		Cast: 67		CTD (0-1200m)		Type: Sediment trap A																		
Date: 25 August 2005		Time: 1018		Lat: 29 56.204		Long: 68 49.525		Samplers: Bill, Sara, Scotty, Tom, Olga, Megan																		
Date: 25 August 2005		Time: 1112		Lat: 29 55.902		Long: 68 50.231																				
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Alk	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON Vol=3L	HPLC Vol=4L	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP	DIC Radiocarbon	
					O ₂ ₁	O ₂ ₂	O ₂ ₃	³ H																		
67	1	0	27.0						212																	
67	2	100	20.0						213					658	597	649	471			1				471		
67	3	200	19.5						215					659	598	650	472			2				472		
67	4	200												660						3						
67	5	300	19.5											660	599	651	473							473		
67	6	300																		4						
67	7	400	19.1											661										474		
67	8	400																		5						
67	9	500	19.1											662										475		
67	9	500	19.1						218					662						6					579	
67	10	500												663										476		
67	11	600	18.3																	7					580	
67	12	600												664										477		
67	13	700	16.4																	8					581	
67	14	700												665										478		
67	15	800	13.9																	9					582	
67	16	800												666										479		
67	17	850	12.9																	10					583	

67	18	850					5A							667								480	
67	19	900	12.2		223			576	668		830								11				584
67	20	900					6A							668								481	
67	21	1000	10.8		224			577	669		831								12				585
67	22	1000					7A							669								482	
67	23	1200	9.2		1			578	670		832								13				586
67	24	1200					8A							670								483	

Cruis EDDIES		Leg: OC415-3				Cast: 68		CTD (0-1200m)		Type: A4		Center 2070												
Date: 25 August 2005		Time: 1312				Lat: 30 10.656		Long: 68 34.514		Samplers: Sara G., Scotty, Olga, Tom, Megan														
Date: 25 August 2005		Time: 1354				Lat: 30 10.171		Long: 68 34.285																
CTD #	N #	Depth	Niskin Temp	Helium	Oxygens				DIC/Aik	TOC/TON	Salts	Nuts	Bact	FRRF	POC/PON Vol=2L	HPLC Vol=4L	Chla	Flow Cyt P	DOP	N/P	$\delta^{15}N$	Pres. Phyto.	NH ₄	Flow Cyt NP
					O ₂	O ₂	O ₂	³ H																
	1	0	27.2		7				671		833		715							1	11			
	2	0												671	600	652	474						484	
	3	20	25.4		8				672		834		714							2				
	4	20												672	601	653	475						485	
	5	40	24.0		10				673		835		713						55	3				
	6	40												6733	602	654	476						486	
	7	60	21.3		11				674		836		712							4				
	8	60												674	603	655	477						487	
	9	70	20.8		12						837		711							5				
	10	70													604	656	478							
	11	80	20.5		13				675		838		710							6				
	12	80												675	605	657	479						484	
	13	90	20.2		15						839		709		606	658	480			7				
	14	100	20.3		16				676		840		708							8				
	15	100												676	607	659	481						489	
	16	110	20.2		17						841		707		608	660				9				
	17	120	20.0		18				677		842		706							10				
	18	120												677	609	661	482						490	
	19	140	19.9		19				678		843		705							11				
	20	140												678	610	662	483						491	
	21	200	19.5		20				679		844		704	679		663				12			492	
	22	300	19.1		21				680		845		703	680						13			493	
	23	500	18.4		22				681		846			681						14				
	24	700	15.3		23				682		847			682						15				

Comments
HPLC 12 Vol=2
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments
HPLC 24 Vol=2
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments

Niskin # 2 bottom cap leak

Spigot on Niskin 15

POC/PON Vol=3

POC/PON Vol=3

POC/PON Vol=3

Comments

Comments
Niskin 1 bottom cap leak after venting
Niskin 10 not gas tight
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments
Niskin 1 bottom cap leak when vent opened
Niskin 19 leaking out bottom
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3
No oxygens on DIC on this cast;

Comments
HPLC 131 Vol=3.7
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments

Comments

Comments
Chla 151 Vol=210ml
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments
HPLC 176 Vol=3.25
Niskin 19 not gas tight
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments
bottle 15 was leaking from the bottom
Niskin 19 leaking from bottom cap after vent open
POC/PON Vol=3
POC/PON Vol=3
bottle 24 fired at 500m not the intended 700m; no samples taken from Niskin 24

Comments

Niskin 18 not gas tight
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3; POC/PON 216 torn filter

Comments

Comments
Check N/P numbers on sheet to make sure they are in the correct column
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments
Bottle 21 NGT dribbles when vent closed
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Niskin 10 not gas tight
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments

POC/PON Vol=3
POC/PON Vol=3

Comments
Niskin 13 spigot stiff
HPLC 395 Vol=2
Vent left open
Vent left open
Vent left open
Vent left open
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments
Niskin 16 leaking from bottom after vent open
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments

Comments
Niskin 3 leaking from bottom after opening
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments
Niskin 3 leaking from bottom after opening
Niskin 7 leaking from bottom after opening
Niskin 12 leaking from bottom after opening
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments

Niskin 15 leaking from bottom cap
POC/PON Vol=3
POC/PON Vol=3
POC/PON Vol=3

Comments

Comments
Bottle 2 not closed; vent open; not gas tight
