Cruise: EDDIES	Leg: TRANSECT #1	Cast: 90/40 #1	Type: 0-140m Primary Production ~~Area~~ Deployment #1.
Date: 26-JUN-04	Time: 0714	Lat: 30° 29.936'N	Long: 64° 55.151'W
Date: 26-JUN-04	Time: 0855	Lat: 30° 29.665'N	Long: 64° 55.102'W.

Samplers: Rod, Steve, Megan.

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC	DIC	DOC	DON	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
			SALTS.	^{14}C.														
1	1		101	3 47, 10k 1 98														
2	20		102	"							ARGOS	46560						
3	40*		103	"							RDF #1	154 ·	585					
4	60		104	"								160 ·	785					
5	80		105	"														
6	100		106	"														
7	120*		107	"														
8	140		108	"														
9																		
10																		
11				* Bottles Mistakenly Sampled from Cast #2														
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Cruise: EDDIES	Leg: TRANSECT (T)	Cast: 90ML0 #2	Type: 0-140 m Primary Production. #2 @ EDDY CENTRE
Date: 29-JUL-04	Time: 0704	Lat: 30° 30.060'N	Long: 64° 55.110'W
Date: 29-JUL-04	Time: 0813	Lat: 30° 30.110'N	Long: 64° 54.940'W

Samplers: STATION 4 (111)

N #	depth	Niskin temp	Oxygens O2 1	O2 2	O2 3	~~DIC~~	DIC	DOC	DON	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSi Vol=	HPLC Vol=	BBOP Chla	
			Primary	Production		SALTS												
1	1		3 L 209	1 DK	170	216												
2	20		"	"	"	217												
3	40		"	"	"	218												
4	60		"	"	"	219												
5	80		"	"	"	220												
6	100		"	"	"	221												
7	120		"	"	"	222												
8	140		"	"	"	223												
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Cruise: 2 EDDIES	Leg: TRANSECT 1	Cast: GOFIO #3	Type: 0-140m @ PP3 Midway Station (6) & (7).
Date: 30-JUN-04	Time: 0725	Lat: 29° 57.570'N	Long: 65° 32.800'W
Date:	Time: 0811	Lat: 29° 57.330'N	Long: 65° 31.720'W

Samplers: Ron, Megan, Steve

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC	DIC	DOC	DON	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
			14C-Production.															
1	1 322		3Et	10K	17d					322								
2	20		4	"	"					323	resampled at New Eddy core							
3	40		4	"	"					324								
4	60		4	"	"					325								
5	80		4	"	"					326								
6	100		4	"	4					327								
7	126		4	"	4					328								
8	148 329		1	"	1					329								
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Cruise: EDDIES	Leg: TRANSECT ①	Cast: CTD #1	Type: 0-700m CORE. @ STATION 111 - EDDY CENTRE | XOLOPC1.X
Date: 24-JUN-04	Time: 13.41	Lat: 30° 27.492'N	Long: 64° 53.576W
Date: 24-JUN-04	Time: 14.55	Lat: 30° 26.537'N	Long: 64° 54.235W

Samplers: ROD, MEGAN, STEVE, MATT, BRIAN, MEREDITH, COURTNEY

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC	~~DIC~~ TBS (BUESSELER THORIUM)	DOC/DON	~~DON~~ CARLSON SLIDES MCS-1 (50 ml)	Salts	Nut1	~~Nut~~ CARLSON MCS-2 PRODN (25 ml)	~~Bact~~ CARLSON MCS-4 DNA (2 l)	POC PON Vol= 2l	~~POC~~ CARLSON MCS-5 ~~CARBS~~	HPLC ✱ flow cyt Vol=4l	BBOP Chla	EDAS (AMBRUST)
	✱ VALVES not fully closed.																	
1 ✱	1	25.1	201	216	217	WB1-1		WB404-1 -01	✱ E1-C1-B1	109	EDT1-1	✱ E1-C1-B1		EDT1-1	✱ E1-C1-B1	EDT1-01	✱ EDT1-01	
2 ✱	1						✱ E1						✱ E1-C1-B2					✱ EDI-1
3	20	24.9	202			WB2-2		-02		110	EDT2-2			EDT1-2	✱	EDT1-2	✱ -02	
4	20						✱ E2											
5	40	23.7	203			WB1-3		-03	✱ E1-C1-B5	110	EDT-3	✱ E1-C1-B5		EDT1-3	✱ 5 E1-C1-B5	EDT1-3	✱ -03	
6	40						✱ E3						✱					✱ EDI-2
7	50	22.4	204			WB1-4		-04		112	EDT-4			EDT1-4	✱	EDT1-4		
8	60	21.9	205			WB1-5		-05	✱ E1-C1-B8	113	EDT-5	✱ E1-C1-B8		EDT1-5	✱ 8 E1-C1-B8	EDT1-5	✱ EDT1-04	
9	60						✱ E4						✱					
10	70	21.2	206			WB1-6		-06	✱ E1-C1-B10	114	EDT-6	✱ E1-C1-B10		EDT1-6	✱ 10 E1-C1-B10	EDT1-6		
11	80	21.3	207	218	219	WB1-7		-07		115	EDT-7	E1-C1-B11		EDT1-7	✱ 11 E1-C1-B11	EDT1-7		
12	80						✱ E5		✱ E1-C1-B12			✱ ~~E1-C1-B~~	✱					✱ ~~EDI-3~~
13	90	20.7	208			WB1-8		-08	✱ E1-C1-B13	116	EDT-8	✱ E1-C1-B13	✱	EDT1-8	✱ E1-C1-B13	EDT1-8		
14	100	20.3	209			WB1-9		-09	✱ E1-C1-B14	117	EDT-9	✱ E1-C1-B14		EDT1-9	✱ E1-C1-B14	EDT1-9		
15	100						✱ E6						✱					✱ EDI-3
16	120	20.3	210			WB1-10		-10	✱ E1-C1-B16	118	EDT1-10	✱ E1-C1-B16		EDT1-10	✱ E1-C1-B16	EDT1-10		
17	120						✱ E7						✱					
18	140	20.3	211			WB1-11		-11	✱ E1-C1-B18	119	EDT1-11	✱ E1-C1-B18		EDT1-11	✱ E1-C1-B18	EDT1-11		
19	140						✱ E8						✱					
20	200	19.7	212			WB1-12		-12	✱ E1-C1-B20	120	EDT1-12	✱ E1-C1-B20		EDT1-12	✱ E1-C1-B20	EDT1-12		
21	200						✱ E9						✱					
22	300	19.2	213			WB1-13	✱ E10	-13		121	EDT1-13			EDT1-13				
23	500	~~15.3~~ 17.2	214			WB1-14		-14		122	EDT1-14							
24	700	15.6	215	220	221			WB404-1 -15		123	EDT1-15							

Cruise: EDDZES	Leg: TRANSECT (1)	Cast: CTD #2	Type: 0-700m Profile @ EDDY CENTRE STATION 4 (11)
Date: 24-JUN-04	Time: 2036	Lat: 30° 30.043'N	Long: 64° 55.206'W
Date: 24-JUN-04	Time: 2115	Lat: 30° 29.788'N	Long: 64° 55.206'W

Samplers:

N #	depth	Niskin temp	Oxygens O2 1	O2 2	O2 3	DIC	DIC	DOC	DON	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSi Vol=	HPLC Vol=	BBOP Chla	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

NONE

Cruise: EDDIES	Leg: TRANSECT 1	Cast: CTD #3	Type: 0-700m PROFILE @ PP ARRAY	X0409C3.DAT
Date: 24-JUN-04	Time: 21.23	Lat: 30° 26.477'N	Long: 64° 48.851'W	Samplers:
Date: 24-JUN-04	Time: 2301	Lat: 30° 26.274'N	Long: 64° 49.025'W	

N #	depth	Niskin temp	Oxygens O2 1	O2 2	O2 3	DIC	DIC	DOC	DON	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSi Vol=	HPLC Vol=	BBOP Chla	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

NONE

Cruise: EDDIES	Leg: TRANSECT D	Cast: CTD #4	Type: 0-700m CORE @ STATION #1 (175) NE CORNER.
Date: 25-JUN-04	Time: 1344	Lat: 31° 13.157'N	Long: 64° 04.910'N
Date: 25-JUN-04	Time: 15.04	Lat: 31° 12.899'N	Long: 64° 06.266'W

Samplers: MEGAN, STEVE, ROD, MEG MATT, BRIAN COURTNEY, MEREDITH. X0409C4.DAT.

N #	depth	NIskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC	~~DIS~~ DOC/N	~~DON~~ NUTS	~~DON~~ POC/N =2.2	~~Gallo~~ HPLC (4l) + FCUT.	~~Nut1~~ CDOM + BBOP CHL	~~Nut2~~ THORIUM (BUESSELER)	~~Bac~~ MCS-1 SLIDES	~~POC~~ ~~PON~~ ~~Vol=~~	~~PGI~~ ~~Vol=~~	HPLC Vol=	BBOP Chla	
														MCS-2 PRODUCTION	MCS-4 DNA (2l)	MCS-5 SUGARS	EDAS AMBRUST.	
1	1	26.3	301			WB1-15	WB404-1 -16	EDT1-16	EDT1-14	EDT1-13	CC1 ~~EDT1-1~~ *EDT1-5					*E1-C1-B1		1
2	1											*E27	E1-C4-B2	*E1-C4-B2	*E1-C4-B2		*ED1-4	2
3	20	24.7	302			WB1-16	WB404-1 -17	-17	-15	-14	*EDT1-6 CC2 ~~-2~~							3
4	20											*E28						4
5	40	22.3	303			WB1-17	-18	-18	-16	-15	*EDT1-7 CC-3					*E1-C1-B5		5
6	40											*E29	*E1-C4-B6	*E1-C4-B6	*E1-C4-B6		*ED1-5	6
7	50	21.8	304			WB1-18	-19	-19	-17	-16	~~[illegible]~~							7
8	60	21.8	305			WB1-19	-20	-20	-18	-17	*EDT1-8 -~~5~~4					*E1-C1-B8		8
9	60										EDT1-8 -4	*E30	*E1-C4-B9	*E1-C4-B9	*E1-C4-B9			9
10	70	21.3	306			WB1-20	-21	-21	-19	-18	-~~6~~5		*E1-C4-B10	*E1-C4-B10	E1-C4-B10	*E1-C1-B10		10
11	80	20.9	307			WB1-21	-22	-22	-20	-19	NO SAMPLE ~~-26~~					*E1-C1-B11		11
12	80											*E31	*E1-C4-B12	*E1-C4-B12	*E1-C4-B12			12
13	90	20.7	308			WB1-22	-23	-23	-21	* 3 litres -20	NO SAMPLE ~~-27~~		*E1-C4-B13	*E1-C4-B13		*E1-C1-B13		13
14	100	20.6	309			WB1-23	-24	-24	-22	-21	-8					*E1-C1-B14		14
15	100											*E32	*E1-C4-B15	*E1-C4-B15	*E1-C4-B15		*ED1-6.	15
16	120	20.5	310			WB1-24	-25	-25	-23	-22	-~~[illegible]~~9					*E1-C1-B16		16
17	120											*E33	*E1-C4-B17	*E1-C4-B17	*E1-C4-B17			17
18	140	20.0	311			WB1-25	-26	-26	-24	-23	-10					*E1-C1-B18		18
19	140											*E34	*E1-C4-B19	*E1-C4-B19	*E1-C4-B19			19
20	200	19.8	312			WB1-26	-27	-27	-25	EDT1-24	-11					*E1-C1-B20		20
21	200											*E35	*E1-C4-B21	*E1-C4-B21	*E1-C4-B21			21
22	300		313			WB1-27	-28	-28	*2.8l EDT1-26.		-12	*E36						22
23	500 ~~400~~	~~18~~ 17.8	314			WB1-28	-29.	EDT1-29										23
24	700 ~~500~~	15.5	315				-30	EDT-30										24

Cruise: EDDIES	Leg: TRANSECT (1)	Cast: CTD # 5	Type: 0-700M CORE. STATION #2 (143); X0409C5.DAT.
Date: 25-JUN-04	Time: 2007	Lat: 30° 51.612'N	Long: 64° 30.172'W
Date: 25-JUN-04	Time: 2125	Lat: 30° 52.148'N	Long: 64° 31.613'W

Samplers: ROD, STEVE, MEGAN, MEREDITH COURTNEY, BRIAN, MATT

N #	depth	Niskin temp	Oxygens O21	O22	O23	DIC BBSR	~~DIC~~ DOC/N (RANSELL)	~~DOC~~ NUTS	~~DOC~~ POC/N (2-l)	~~Suite~~ HPLC(4-l) + F. CYTON	Nut1	~~Thor~~ THORIUM (BUESSELER)	~~Bact.~~ CARLSON	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
													MCS-1 SLIDES	MCS-2 PRODUCTION	MCS-4 DNA (2L)			
1	1	26.3	316			WB1-29	WB4DU-1 -31	EDT1-31	EDT1-27	EDT1-25								1
2	1											E37	*	E1-C5-B2	E1-C5-B2			2
3	20	25.1	317			-30	-32	-32	-28	-26								3
4	20											E38						4
5	40	23.5	318			-31	-33	-33	-29	-27								5
6	40											E39						6
7	~~60~~ 50	21.9	319			-32	-34	-34	-30	-28								7
8	60	21.0	320			-33	-35	-35	-31	-29								8
9	~~60~~	DAT										E40	*	E1-C5-B9	E1-C5-B9			9
10	~~80~~ 70	20.6	321			-34	-36	-36	-32	-30								10
11	~~80~~ 80	20.5	322			-35	-37	-37	-33	-31								11
12	~~90~~ 80											E41	*	E1-C5-B12	E1-C5-B12			12
13	~~100~~ 90	20.4	323			-36	-38	-38	-34	-32								13
14	100	20.3	324			-37	-39	-39	-35	-33								14
15	100											E42						15
16	120	20.3	~~325~~ 401			-38	-40	-40	-36	-34								16
17	~~140~~ 120											E43	*	E1-C5-B7	E1-C5-B7			17
18	140	20.0	~~326~~ 402			-39	-41	-41	-37	-35								18
19	~~200~~ 148											E44	*	E1-C5-B9	E1-C5-B7			19
20	200	19.7	~~327~~ 403			-40	-42	-42	-38	-36								20
21	300					~~-41~~						E45						21
22	300	19.5	~~328~~ 404			-41	-43	-43	-39			E46						22
23	500	18.6	405			-42	-44	-44										23
24	700	16.2	406				-45	-45										24

Cruise: EDDYES	Leg: TRANSECT (1)	Cast: CTD #6	Type: 0-700M CORE : STATION #3 (127) : XØLØ9C6.DAT
Date: 26-JUN-04	Time: 02.04	Lat: 30° 40.861'N	Long: 64° 42.770'W
Date: 26-JUN-04	Time: 03.24	Lat: 30° 42.128'N	Long: 64° 43.763'W

Samplers: MEGAN, STEVE, ROD, COURTNEY, MEREDITH, BRIAN

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC	~~BIO~~ DOC/N (HANSELL)	~~DSC~~ NUTS	~~DON~~ DOCN (2-P)	~~Salts~~ HPLC(LO)	Nut1	Nut2 THORIUM WATER	~~Bact~~ CARLSON	POC ~~PON~~ Vol=	~~POI~~ ~~Vol=~~	~~HPLC~~ ~~Vol=~~	BPOP ~~Chla~~	
										HF.CUTOM.		(BIEBELER)	MCS-1 SLIDES	MCS-2 PRODUCTION	MCS-4 DNA (2-P)	MCS-5 SUGARS	EDAS (AMBRIST)	
1	1	25.8	407			WBI-43	WB404-1 -46	EDT1-46	EDT1-40	EDT1-37						EI-C6-B1	EDI-7	
2	1											E55	EI-C6-B2	EI-C6-B2	EI-C6-B2			
3	20	24.8	408			-44	-47	-47	-41	-38								
4	20											E56						
5	40	23.1	409			-45	-48	-48	-42	-39						EI-C6-B5		
6	40											E57	EI-C6-B6	EI-C6-B6	EI-C6-B6			
7	50	22.2	410			-46	-49	-49	-43	-40								
8	60	21.5	411			-47	-50	-50	-44	-41						EI-C6-B8		
9	60											E58	EI-C6-B9	EI-C6-B9	EI-C6-B9			
10	70	21.1	412			-48	-51	-51	-45	-42			EI-C6-B10	EI-C6-B10	~~EI-C6-B10~~	EI-C6-B10		
11	80	21.0	413			-49	-52	-52	-46	-43						EI-C6-B11		
12	80											E59	EI-C6-B12	EI-C6-B12	EI-C6-B12		x	
13	90	20.8	414			-50	-53	-53	-47	-44			EI-C6-B13	EI-C6-B13		EI-C6-B13		
14	100	21.6	415			-51	-54	-54	-48	-45						EI-C6-B14		
15	100											E60	EI-C6-B15	EI-C6-B15	EI-C6-B15		EDI-8	
16	120	20.7	416			-52	-55	-55	-49	-46						EI-C6-B16		
17	120											E61	EI-C6-B17	EI-C6-B17	EI-C6-B17			
18	140	20.6	417			-53	-56	-56	-50	-47						EI-C6-B18		
19	140											E62	EI-C6-B19	EI-C6-B19	EI-C6-B19			
20	200	20.4	418			-54	-57	-57	-51	EDT1-48						EI-C6-B20		
21	200											E63	EI-C6-B21	EI-C6-B21	EI-C6-B21			
22	300	19.7	419			-55	-58	-58	EDT1-52			E64						
23	500	18.1	420			WBI-56	-59	-59										
24	700		~~421~~				~~-60~~	~~-60~~		NO SAMPLE - LOST ON SURFACE								

Cruise: EDDIES	Leg: TRANSECT (1)	Cast: CTD # 7	Type: 0-700m CORE: STATION 4 (111) : X04ØC7.DAT
Date: 26-JUN-04	Time: 0912	Lat: 30° 30.022'N	Long: 64° 55.352'W
Date: 26-JUN-04	Time: 1036	Lat: 30° 30.311'N	Long: 64° 56.270'W

Samplers: ROD, MEGAN, STEVE, MATT, MEG.

N #	depth	Niskin temp	Oxygens O21	O22	O23	DIC BATS	~~DIC~~ DOC HANSELL	DOC NUTS	~~DON~~ PON(21)	~~Salts~~ HPLC (4ml) +PON CYDN	~~Nut1~~ BBOP CDOM	~~Nut2~~ THORIUM (BUESSELER)	~~Bact~~ CARBON ~~NCS~~	~~POC~~ ~~PON~~ Vol=	~~PSP~~ Vol=	~~HPLC~~ Vol=	~~BBOP~~ Chla.	
1	1	25.5	421			WB1-57	WB0404-1 -60	EDT1-60	EDT1 -53	EDT1-49								
2	1																	
3	20	24.8	422			-58	-61	-61	-54	-50	CC13	E65						
4	20																	
5	40	24.2	423			-59	-62	-62	-55	-51	CC14	E66						
6	40																	
7	50	22.6	424			-60	-63	-63	-56	-52	CC15	E67						
8	60	21.9	601			-61	-64	-64	-57	-53								
9	60										CC16 ~~CC16~~	E68						
10	70	21.7	602			-62	-65	-65	-58	-54	CC17 ~~CC16~~							
11	80	21.3	603			-63	-66	-66	-59	-55								
12	80																	
13	90	21.2	604			-64	-67	-67	-60	-56	CC18	E69						
14	100	20.8	605			-65	-68	-68	-61	-57	CC19							
15	100																	
16	120	20.5	606			-66	-69	-69	-62	-58	CC20	E70						
17	120																	
18	140	20.2	607			-67	-70	-70	-63	-59	CC21	E71						
19	140																	
20	200	19.6	608			-68	-71	-71	-64	-60	CC22	E72						
21	200																	
22	300	19.0	609			-69	-72	-72	EDT1-65		CC23	E73						
23	500	17.2	610			WB1-70	-73	-73			CC24	E74						
24	700	14.8	611				WB0404-1 -74	EDT1-74										

* NOTE ON POC SAMPLES *
SOME CONFUSION OVER THE 13th sample. SAMPLES 7-12 originally sampled as if 8-13. HENCE, SAMPLES MAY BE OFF BY one depth. But absolutely certain samples placed in correct vials according to cast sheet.

Cruise: EDOTES	Leg: TRANSECT (1)	Cast: CTD #8	Type: 0-700m CORE: STATION 5 (95): X0409C8.DAT
Date: 26-JUN-04	Time: 16.53	Lat: 30° 19.284'N	Long: 68° 07.692'W
Date: 26-JUN-04	Time: 18.15	Lat: 30° 19.412'N	Long: 65° 07.575'W

Samplers: STEVE, MEGAN, ROD, MEG, MATT, BRIAN MEREDITH, COURTNEY

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC BATS	~~DIC~~ DOC HANSELL	DOC NUTS	~~DON~~ POCN(24)	Salts HPLC(48) + FLOW CYTO	~~Nut~~ BBOP ChLa	~~Nut2~~ THORIUM BRESSLER	~~Bact~~ CARLSON	~~POC~~ ~~PON~~ ~~Vol~~	~~PSL~~ ~~Vol~~	~~HPLC~~ ~~Vol~~	~~BBOP~~ ~~Chla~~	
													MCS-1 SLUDGE	MCS-2 PRODUCTIV	MCS-4 DNA	MCS-5 SUGARS	EDAS (AMBRUST)	
1	1	26.4	612	203	204	WBI-71	WB4041-75	EOT1-75	EOT1-66	EOT1-61	EOT1-9					EI-C8-B1	ED1-9	
2	1									flowcyt -61		E75	EI-C8-B2	EI-C8-B2	EI-C8-B2			
3	20	25.0	613			-72	-76	-76	-67	-62	EOT1-10							
4	20											E76						
5	40	24.0	614			-73	-77	-77	-68	-63	EOT1-11					EI-B8-B5		
6	40											E77	EI-C8-B6	EI-C8-B6	EI-C8-B6			
7	50	23.3	615	205	206	-74	-78	-78	-69	-64								
8	60	22.5	616			-75	-79	-79	-70	-65	EOT1-12					EI-C8-B8		
9	60											E78	EI-C8-9	EI-C8-B9	EI-C8-B9			
10	70	22.4	617			-76	-80	-80	-71	-66			EI-C8-10	EI-C8-B10	~~EI-C8-B10~~	EI-C8-B10		
11	80	22.0	618			-77	-81	-81	-72	-67						EI-C8-B11		
12	80											E79	EI-C8-12	EI-C8-B12	EI-C8-B12			
13	90	22.0	619			-78	-82	-82	-73	-68			EI-C8-13	EI-C8-B13	~~EI-C8-B13~~	EI-C8-B13		
14	100	21.6	620			-79	-83	-83	-74	-69						EI-C8-B14		
15	100											E80	EI-C8-15	EI-C8-B15	EI-C8-B15			
16	120	21.3	~~621~~ 624			-80	-84	-84	-75	-70						EI-C8-B16		
17	120											E81	EI-C8-17	EI-C8-B17	EI-C8-B17		ED1-10	
18	140	20.9	622			-81	-85	-85	-76	-71						EI-C8-B18		
19	140											E82	EI-C8-B19	EI-C8-B19	EI-C8-B19			
20	200	20.2	623			-82	-86	-86	-77	-72						EI-C8-B20		
21	200						-					E83	EI-C8-B21	EI-C8-B21	EI-C8-B21			
22	300	18.6	~~622~~ 621			-83	-87	-87	-78			E84						
23	600	17.2	201			WBI-84	-88	-88	~~-79~~									
24	700	15.3	202.	207	208.		-89	-89										

Cruise: EDDIES	Leg: TRANSECT ①	Cast: CTD #9	Type: 0-700M CORE: STATION 6 (79): X0409C9.DAT.
Date: 26-JUN-04	Time: 22.20	Lat: 38° 08.783'N	Long: 65° 20.223'N
Date: 26-JUN-04	Time: 23.34	Lat: 30° 08.608'N	Long: 65° 20.141'W

Samplers: ROO, MEGHAN, STEVE, MEREDITH, COURTNEY MATT, BRIAN

N #	depth	Niskin temp	Oxygens O21	O22	O23	DIC	~~DIC~~ DOC HANSELL	~~DOC~~ NUTS	~~DON~~ PON(21)	~~Salts~~ HPLC(40) + FLOW CYTOMETRY	Nut1	Nut2 THORIUM (BUESSELER)	Bact. CARLSON	POC PON Vol= MCS-1 SLIDES	PSI Vol= MCS-2 PRODUCTION	HPLC Vol=	BBOP Chla	
1	1	26.0	209			WB1-85	WB404-1 -90	EDT1 -90	EDT1 -79	EDT1 -73								
2	1											E93	E1-C9-B2	E1-C9-B2				
3	20	24.7	210			-86	-91	-91	-80	-74								
4	20											E94	~~E1-C9-B4~~	~~E1-C9~~				
5	40	22.7	211			-87	-92	-92	-81	-75								
6	~~50~~											E95	E1-C9-B6	E1-C9-B6				
7	~~60~~ 50	21.8	212			-88	-93	-93	-82	-76								
8	60	21.2	213			-89	-94	-94	-83	-77								
9	~~60~~											E96	E1-C9-B9	E1-C9-B9				
10	~~70~~ 70	21.0	214			-90	-95	-95	-84	-78			E1-C9-B10	E1-C9-B10				
11	80	20.6	215			-91	-96	-96	-85	-79								
12	80											E97	E1-C9-B12	E1-C9-B12				
13	~~100~~ 90	20.4	216			-92	-97	-97	-86	-80			E1-C9-B13	E1-C9-B13				
14	100		~~217~~ MISFIRE			~~-93~~	~~-98~~	~~-98~~	~~-87~~	~~-81~~								
15	120	20.3	217			93	98	98	87	81		E98 2.5L	E1-C9-15	E1-C9-B15				
16	120	20.2	218			-94	-99	-99	-88	-82								
17	~~120~~											E99	E1-C9-17	E1-C9-B17				
18	140	20.3	219			-95	-100	-100	-89	-83								
19	~~200~~ 140											E100	E1-C9-B19	E1-C9-B19				
20	200	26.0	220			-96	-101	-101	~~-100~~ 90	-84								
21	200		~~221~~									E101	E1-C9-B21	E1-C9-B21				
22	300	MISFIRE	221			~~97~~	~~-102~~	~~-102~~	~~-101~~			~~E102~~	~~E1-C9~~	~~E1-C9~~				
23	500	18.5	222			WB1-~~98~~ 97	-103	-103										
24	700	15.8	223				-104	-104										

Cruise: EDDIES	Leg: TRANSECT (1)	Cast: CTD# 10	Type: 0-700M CORE : STATION 7 (47) /SW CORNER : X0409C10.DAT
Date: 27-JUN-04	Time: 0551	Lat: 29° 46.746'N	Long: 65° 45.608'N
Date: 27-JUN-04	Time: 0712	Lat: 29° 46.370'N	Long: 65° 45.236'W

Samplers: ROD, MEGAN, STEVE, MEREDITH, COURTNEY, MATT, MEG.

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC B#15	~~DIC~~ DOC HANSELL	~~DOC~~ NUTS B#15	~~DON~~ DOC/N (2R)	Salts	Nut1 ~~HPLC~~	Nut2 BBOP CDOM	~~Bact.~~ THYMIDIN (BUSSELER)	~~POC PON~~ Vol=	PSI Vol=	HPLC Vol=	BBOP Chla		
											TRW CYL			MCS-1 SIZES	MCS-2 PRODUCTION	MCS-~~4~~5 ~~DNA~~ SUGARS	MCS-~~5~~ ~~SUGARS~~ DNA		EDAS (AMBROT)
1	1	26.6	301	~~B~~		WB1—98	WB404-1 —105	ED71 —105	ED71 91 —~~107~~	201	ED71-85	BB1					E1-C10-B1		1
2	1												E111	E1-C10-B2	E1-C10-B2		E1-C10-B2 ~~ED1-11~~	ED1-11	2
3	20	25.3	302			-99	-106	-106	92 —~~102~~	202	-86	BB2							3
4	20												E112						4
5	40	22.7	303			-100	-107	-107	93 —~~103~~	203	-87	BB3				E1-C10-B5			5
6	40												E113	E1-C10-B6	E1-C10-B6		E1-C10-B6		6
7	50	21.8	304			-101	-108	-108	94 —~~104~~	204	-88								7
8	60	21.4	305			-102	-109	-109	95 —~~105~~	205	-89	BB4				E1-C10-B8			8
9	60												E114	E1-C10-B9	E1-C10-B9		E1-C10-B9		9
10	70	21.0	306			-103	-110	-110	96 —~~106~~	206	-90	BB5		E1-C10-B10	E1-C10-B10	E1-C10-B10			10
11	80	20.8	307			-104	-111	-111	97 —~~107~~	207	-91	BB6				E1-C10-B11			11
12	80												E115	E1-C10-B12	E1-C10-B12		E1-C10-B12		12
13	90	20.8	308			-105	-112	-112	98 —~~108~~	208	-92	BB7		E1-C10-B13	E1-C10-B13	E1-C10-B13			13
14	100	20.6	309			-106	-113	-113	99 —~~109~~	209	-93	BB8				E1-C10-B14			14
15	100												E116	E1-C10-B15	E1-C10-B15		E1-C10-B15 ~~ED1-12~~	ED1-12	15
16	120	20.6	310			-107	-114	-114	-100	210	-94	BB9				E1-C10-B16			16
17	120												E117	E1-C10-B17	E1-C10-B17		E1-C10-B17		17
18	140	20.3	311			-108	-115	-115	-101	211	-95	BB10				E1-C10-B18			18
19	140												E118	E1-C10-B19	E1-C10-B19		E1-C10-B19		19
20	200	20.0	312			-109	-116	-116	-102	212	-96	BB11				E1-C10-B20			20
21	200												E119	E1-C10-B21	E1-C10-B21		E1-C10-B21		21
22	300	20.0	313			-110	-117	-117	* -103 ~~-113~~ (3R)	213		BB12.	E120.						22
23	500		~~314~~ *			* ~~WB1-111~~	-118	-118		214									23
24	700	17.0	315				-119	-119		215									24

Cruise: EDDIES	Leg: TRANSECT 1	Cast: CTD #11	Type: 0-700M CORE ; STATION 6(79) : X0409C11.DAT. REPEAT
Date: 27-JUN-04	Time: 10.57	Lat: 30° 09.782'N	Long: 68° 20.46'W
Date: 27-JUN-04	Time: 12.18	Lat: 30° 08.938'N	Long: 65° 20.797'W

Samplers: STEVE, MEGAN, ROD, BRIAN, COURTNEY, MEREDITH

N #	depth	Niskin temp	Oxygens O21	O22	O23	DIC	~~DIC~~ DOC HANSELL	~~DOC~~ NUTS BAR5	~~DON~~ PON (2.2)	~~Salts~~ HPLC TPC.	Nut1	~~Nut2~~ THORIUM BUESSELER	~~Bact~~ CARLSON	~~POC~~ ~~PON~~ Vol=	~~PSI~~ ~~Vol=~~	~~HPLC~~ ~~Vol=~~	~~BOOP~~ ~~Chla~~	
													MCS-1 SLIDES	MCS-2 PROKEYL	MCS-4 DNA	MCS-5 SUGARS	EDA5 AMBRUST	
1	1	25.6	316			WBI-111	WBI-04-1 -120	EDT1 -120	EDT1 -104	EDT1 -97	~~120~~					EI-C11-B1		
2	1											E121	EI-C11-B2	EI-C11-B2	EI-C11-B2		~~EDJ-13~~	
3	20	24.8	317			-112	-121	-121	-105	-98	~~121~~							
4	20											E122						
5	40	23.2	318			-113	-122	-122	-106	-99	~~122~~					EI-C11-B5		
6	40											E123	EI-C11-B6	EI-C11-B6	EI-C11-B6			
7	50	21.6	319			-114	-123	-123	-107	-100	~~123~~							
8	60	21.0	320			-115	-124	-124	-108	-101	~~124~~					EI-C11-B8		
9	60											E124	EI-C11-B9	EI-C11-B9	EI-C11-B9			
10	70	20.5	321			-116	-125	-125	-109	-102	~~125~~		EI-C11-B10	EI-C11-B10		EI-C11-B10		
11	80	20.5	322			-117	-126	-126	-110 ~~-120~~	-103	~~126~~					EI-C11-B11		
12	80											E125	EI-C11-B12	EI-C11-B12	EI-C11-B12			
13	90		323			-118	-127	-127	-111 ~~-121~~	-104			EI-C11-B13	EI-C11-B13		EI-C11-B13		
14	100	20.0	324			-119	-128	-128	-112	-105						EI-C11-B14		
15	100											E126	EI-C11-B15	EI-C11-B15	EI-C11-B15		~~EDJ-14~~	
16	120	19.8	401			-120	-129	-129	-113	-106						EI-C11-B16		
17	120		E									E127	EI-C11-B17	EI-C11-B17	EI-C11-B17			
18	140	19.8	402			-121	-130	-130	-114	-107						EI-C11-B18		
19	140											E128	EI-C11-B19	EI-C11-B19	EI-C11-B19			
20	200	19.5	403			-122	-131	-131	-115	-108						EI-C11-B20		
21	200											E129	EI-C11-B21	EI-C11-B21	EI-C11-B21			
22	300	19.1	404			-123	-132	-132	(32) -116			E130.						
23	500	18.1	405			-124	-133	-133										
24	900	15.4	406				-134	-134										

Cruise: EDDIES	Leg: TRANSECT 1	Cast: CTD#12	Type: 0-700M ; STATION 5(95); X0409C12.DAT. /REPEAT
Date: 27-JUN-04	Time: 16.03	Lat: 30° 19.369'N	Long: 65° 07.904W
Date: 27-JUN-04	Time: 17.23	Lat: 30° 19.477'N	Long: 65° 08.071W

Samplers: MEGAN, STEVE, ROD, COURTNEY, MEREDITH, MATT, BRIAN MEG.

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC	~~DIC~~ DOC HANSELL	~~DOC~~ NUTS	~~DON~~ POCN(2L)	~~Salts~~ HPLC + FLOW CYTOM	~~NUT~~	~~Nut2~~ THORIUM (BUESSELER)	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
													NCS-1 SLIDES	NCS-2 PRODUCTI	NCS-4 DNA			
1	1	27.1	407			WBI-125	WB404-1 -135	EDT1-135	EDT1 119 -127	EDT1 -109							EDT1-13	1
2	1											E131	E1-C12-B2	E1-C12-B2	E1-C12-B2		~~EDT1~~	2
3	20	24.6	408			-126	-136	-136	119 -128	-100							EDT1-14	3
4	20											E132						4
5	40	24.0	409			-127	-137	-137	119 -129	-110							EDT1-15	5
6	40											E133	E1-C12-B6	E1-C12-B6	E1-C12-B6			6
7	50	22.9	410			-128	-138	-138	120 -130	-112							~~EDT1~~-	7
8	60	22.6	411			-129	-139	-139	-131	-113							EDT1-16	8
9	60											E134	E1-C12-B9	E1-C12-B9	E1-C12-B9			9
10	70	22.0	412			-130	-140	-140	-132	-114			E1-C12-B10	E1-C12-B10				10
11	80	21.6	413			-131	-141	-141	-133	-115								11
12	80											E135	E1-C12-B12	E1-C12-B12	E1-C12-B12			12
13	90	21.3	414			-132	-142	-142	-134	-116			E1-C12-B13	E1-C12-B12				13
14	100	21.3	415			-133	-143	-143	-135	-117								14
15	100											E136	E1-C12-B15	E1-C12-B15	E1-C12-B15			15
16	120	21.0	416			-134	-144	-144	-136	-118								16
17	120											E137	E1-C12-B17	E1-C12-B17	E1-C12-B17			17
18	140	20.8	417			-135	-145	-145	-137	-119								18
19	140											E138	E1-C12-B19	E1-C12-B19	E1-C12-B19			19
20	200	20.4	418			-136	-146	-146	-138	120 -139								20
21	200											E139	E1-C12-B21	E1-C12-B21	E1-C12-B21			21
22	300	18.8	419			-137	-147	-147	(3 litres) -139.			E140						22
23	500	16.9	420			-138	-148	-148										23
24	700'	15.0	421				-149.	-149										24

Cruise: EDDIES	Leg: TRANSECT 1	Cast: CTD#13	Type: 0-700M: STATION 3 (127); X0409CB.DAT
Date: 27-JUN-04	Time: 22 45	Lat: 30° 40.857'N	Long: 64° 42.641 W
Date: 28-JUN-04	Time: 00.03	Lat: 30° 41.222'N	Long: 64° 43.477 N.

Samplers: ROD, STEVE, MEGAN, MATT, BRIAN.

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC BATS.	~~DIC~~ DOC HANSELL	~~DOC~~ NUTS.	DON POCN(21)	~~Salts~~ HPLC +FLOW CYT.	Nut1	Nut2 THORZUM BUESSELER	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
1	1	26.4	201			WB1-139	WB404-1 -150	E071 - 150	E071 - 150	E071 - 121								
2	1											E 141						
3	20	24.9	202			-140	-151	151	-151	-122								
4	20											E 142						
5	40	23.6	203			-141	-152	-152	-152	-123								
6	40											E 143						
7	50	23.1	204			-142	-153	-153	-153	-124								
8	60	22.4	205			-143	-154	-154	-154	-125								
9	60											E 144						
10	70	21.9	206			-144	-155	-155	-155	-126								
11	80	21.5	207			-145	-156	-156	-156	-127								
12	80											E145						
13	90	21.2	208			-146	-157	-157	-157	-128								
14	100	20.6	209			-147	-158	-158	-158	-129								
15	100											E146						
16	120	20.3	210			-148	-159	-159	-159	-130								
17	120		?									E 147						
18	140	20.1	211			-149	-160	-160	-160	-131								
19	140											E 148						
20	200	19.7	212			-150	-161	-161	-161	-132								
21	200											E 149						
22	300	19.0	213			-151	-162	-162	-162			E 150						
23	500	17.6	214			-152	-163	-163										
24	700	16.5	215				-164	-164										

Cruise: EDOTES	Leg: TRANSECT 1	Cast: CTD #14	Type: 0-700m CORE: STATION 2 (143) X0409C14.DAT
Date: 28-JUN-04	Time: 08:36	Lat: 30° 51.654'W	Long: 64° 30.129'W
Date: 28-JUN-04	Time: 10:02	Lat: 30° 51.840'W	Long: 64° 31.580'W

Samplers: Rod, Megan, Steve, Meredith, Courtney, Brian, Meg

N #	depth	Niskin temp	Oxygens O21	O22	O23	~~DIC~~ DZA BATS	DIC DOC HANSELL	~~DOC~~ NUTS	~~DON~~ DOCN(2)	Salts HPLC	Nut1	~~Nut2~~ THORIUM BUESSLER	~~Bact~~ CARLSON	~~POC~~ PON Vol=	~~POC~~ Vol=	~~HPLC~~ Vol=	~~BBOP~~ ~~Chla~~
										FLOW CYTOM							
1	1	26.2	216			WB1-153	WB404-1 -165	EDT1 -165	EDT1 -143	EDT1 -133		-	MCS-1 SLIDES	MCS-2 PRODUCTION	MCS-4 DNA		
2	1																
3	20	24.7	217			-154	-166	-166	EDT1 -144	-134		E159	~~E1-C14-B2~~ ~~E1-B14-C~~	E1-C14-B2	E1-C14-B2		
4	20																
5	40	23.8	218			-155	-167	-167	-145	-135		E160					
6	40																
7	50	22.5	219			-156	-168	-168	-146	-136		E161	E1-C14-B6	E1-C14-B6	E1-C14-B6		
8	60	21.8	220			-157	-169	-169	-147	-137							
9	60																
10	70	21.2	221			-158	-170	-170	-148	-138		E162	E1-C14-B9	E1-C14-B9	E1-C14-B9		
11	80	20.9	222			-159	-171	-171	-149	-139			E1-C14-B10	E1-C14-B10			
12	80																
13	90	20.6	223			-160	-172	-172	-150	-140		E163	E1-C14-B12	E1-C14-B12	E1-C14-B12		
14	100	20.6	224			-161	-173	-173	-151	-141			E1-C14-B13	E1-C14-B13			
15	100																
16	120	20.2	~~235~~ 301			-162	-174	-174	-152	-142		E164	E1-C14-B15	E1-C14-B15	E1-C14-B15		
17	120																
18	140	20.0	302			-163	-175	-175	-153	-143		E165	E1-C14-B17	E1-C14-B17	E1-C14-B17		
19	140																
20	200	19.6	303			-164	-176	-176	-154	-144		E166	E1-C14-B19	E1-C14-B19	E1-C14-B19		
21	200																
22	300	19.3	304			-165	-177	-177	(3 lit red) -155			E167	E1-C14-B21	E1-C14-B21	E1-C14-B21		
23	500	18.2	305			-166	-178	-178				E168					
24	700	15.5	306				-179.	-179.									

Cruise: EDDIES	Leg: TRANSECT 1	Cast: CTD#15	Type: 0-700M CORE: STATION 1 (175): X0409C15.DAT
Date: 28-JUN-04	Time: 17:05	Lat: 31° 13.064'N	Long: 64° 05.041'W
Date: 28-JUN-04	Time: 18:25	Lat: 31° 13.287'N	Long: 64° 06.066'W

Samplers:

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC DIC BATS	~~DIC~~ DOC HANSELL	~~DOC~~ NUTS	~~DON~~ DOCN(21)	~~Salts~~ HPLC TFLON CYL	Nut1	~~Nut2~~ THORIUM BUESSELER	~~Bact~~ CARLSON	~~POC~~ ~~PON~~ ~~Vols~~	~~POL~~ ~~Vols~~	~~HPLC~~ ~~Vols~~	BBOP Chla
													MCS-1 SLIDES	MCS-2 PRODUCTIV	MCS-4 DNA		
1	1	26.2	307			WB1-167	WBLOG-1 -180	EDT1 -180	EDT1 -156	EDT1 -145							EDT1-17
2	1											E 177	E1-C15-B2	E1-C15-B2	E1-C15-B2		
3	20	24.2	308			-168	-181	-181	-157	-146							EDT1-18
4	20											E 178	~~E1-C~~				
5	40	21.9	309			-169	-182	-182	-158	~~-147~~							EDT1-19
6	40									-147		E 179	E1-C15-B6	E1-C15-B6	E1-C15-B6		
7	50	21.5	310			-170	-183	-183	-159	-148							
8	60	21.4	311			-171	-184	-184	-160	~~-149~~							EDT1-20
9	60									-149		E 180	E1-C15-B9	E1-C15-B9	E1-C15-B9		
10	70	20.5	312			-172	-185	-185	-161	-150			E1-C15-B10	E1-C15-B10			
11	80	20.6	313			-173	-186	-186	-162	-151							
12	80											E 181	E1-C15-B12	E1-C15-B12	E1-C15-B12		
13	90	20.5	314			-174	-187	-187	-163	-152			E1-C15-B13	E1-C15-B13			
14	100	20.5	315			-175	-188	-188	-164	-153							
15	100											E 182	E1-C15-B15	E1-C15-B15	E1-C15-B15		
16	120	20.4	316			-176	-189	-189	-165	-154							
17	120											E 183	E1-C15-B17	E1-C15-B17	E1-C15-B17		
18	140	20.3	317			-177	-190	-190	-166	-155							
19	140											E 184	E1-C15-B19	E1-C15-B19	E1-C15-B19		
20	200	20.3	318			-178	-191	-191	-167	-156							
21	200											E 185	E1-C15-B21	E1-C15-B21	E1-C15-B21		
22	300	19.7	319			-179	-192	-192	3 litres -168	~~-157~~		E 186.					
23	500	18.8	320			-180	-193	-193									
24	700	16.6	321.			~~-181~~	-194	-194									

Cruise: EDDIES	Leg: TRANSECT/	Cast: CTD #6	Type: 0-700m PROFILE @ Sediment Trap 'B' Recovery Site
Date: 28-JUN-04	Time: 21:12	Lat: 31° 28.362' N	Long: 64° 22.231' W
Date: 28-JUN-04	Time: 21:49	Lat: 31° 28.673' N	Long: 64° 22.806' W

Samplers: NONE

N #	depth	NIskin temp	Oxygens O2 1	O2 2	O2 3	DIC	DIC	DOC	DON	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

NO Bottles

Cruise: ~~29-JUN-04~~	Leg: EDDIES : TRANSECT 1	Cast: CTD #17	Type: 0-700M STATION #4 (111) E.C. STDEXSTOP OCEANUS
Date: 29-JUN-04	Time: 14.04	Lat: 30° 30.030'N	Long: 64° 55.189'W.
Date: 29-JUN-04	Time: 15.19	Lat: 30° 30.237'W	Long: 64° 54.770'W

Samplers: Rod, Steve, Megan, Brian, Courtney, Meredith, MATT

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC	~~DIC~~ DOC HANSELL	~~DIC~~ NUTS	~~DON~~ ~~HPLC~~ ~~Flow~~ ~~Cytom.~~	Salts	~~NUT~~ HPLC	~~NUT~~ BBOP Chl a	~~Bact~~ THORIUM BUESSELE	~~POC~~ ~~PON~~ ~~Vol~~	~~PSI~~ ~~Vol~~	HPLC Vol=	BBOP Chla	COMS AMBRUST.
									PDCN(22)		FLOW CYTOM.	HACDOM		CARLSON MCS1-SEDIS	MCS-2 PRODUCTION	MCS-4 DNA(22)	MCS-5 SUGARS	
1	1	27.5	322	413	414	WB1-181	WB404-1 -195	EDT1 -195	EDT1 -169	301	EDT1 -157	EDTI-21					EI	
2	1											BB13	E195	EI	EI	EI	✓	EDI-13
3	20	25.1	323			-182	-196	-196	-170	302	-158	EDTI-22						
4	20.											BB14	E196					
5	40	23.7	324			-183	-197	-197	-171	303	-159	EDTI-23					EI	
6	40											BB15	E197	EI	EI	EI		
7	50	22.8	~~325~~ 401			-184	-198	-198	-172	304	-160							
8	60	22.5	402	415	416	-185	-199	-199	-173	305	-161	EDTI-24					EI	
9	60											BB16	E198	EI	EI	EI		
10	70	22.0	403			-186	-200	-200	-174	306	-162	BB17		EI	EI		EI	
11	80	21.8	404			-187	-201	-201	-175	307	-163						EI	
12	80											BB18	E199	EI	EI	EI		
13	90	21.4	405			-188	-202	-202	-176	308	-164			EI	EI		EI	
14	100	21.2	406			-189	-203	-203	-177	309	-165						EI	
15	100											BB19	E200	EI	EI	EI		
16	120	21.1	407			-190	-204	-204	-178	310	-166						EI	
17	120											BB20	E201	EI	EI	EI		EDI-14
18	140	20.8	408			-191	-205	-205	-179	311	-167						EI	
19	140											BB21	E202	EI	EI	EI		
20	200	20.1	409			-192	-206	-206	-180	312	-168						EI	
21	200											BB22	E203	EI	EI	EI		
22	300	18.6	410			-193	-207	-207	-181	313	~~-169~~		E204					
23	500	16.9	411			-194	-208	-208	(≈2.9 L) -182	314								
24	700	14.9	412	417	418		-209	-209		315								

Cruise: EDDIES	Leg: TRANSECT 1.	Cast: CTD#18; X0409C18.DA	Type: 0-4000M: THORIUM CALIBRATION / DOC REMIN. EXP.
Date: 29-JUN-04	Time: 1752	Lat: 30° 30.088'N	Long: 64° 55.079'W.
Date: 29-JUN-04	Time: 2120	Lat: 30° 30.589'N	Long: 64° 54.784'W

Samplers: MATT, BRIAN, ROD, MEGAN, STEVE, Courtney, Meredith.

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	~~DIC~~ SALTS	~~DIC~~ SALTS, REP.	DOC REMINERALIZATION (CARLSON)	DON	~~Salts~~ THORIUM CALIBRATION.	Nut1	~~Nut2~~ TRAP LASW (BATS)	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
1	1											x						
2	1											x						
3	1											x						
4	1											x						
5	1											x						
6	20	25.3						x										
7	20							x										
8	100	21.5						x										
9	100							x										
10	800?	11.4	419	424	601	316												
11	1000	9.0	420			317												
12	1200	8.0	421			318												
13	2000	7.0	422			319												
14	4000	7.0	423	602	603	320	321			x								
15	4000									x								
16	4000									x								
17	4000									x								
18	4000									x								
19	4000									x								
20	4000									x								
21	4000									x								
22	4000									x								
23	4000									x								
24	4000									x								

Cruise: EDDIES	Leg: TRANSECT #1	Cast: CTD #19.	Type: 0-700 M STATION PP3 ( ) SW EDGE OF EDDY BETWEEN 6->7.
Date: 30-JUN-04	Time: 1333	Lat: 29 57.540'N	Long: 65° 33.050'W
Date: 30-JUN-04	Time: 1454	Lat: 29° 56.921'N	Long: 65° 33.498'W

Samplers:

N #	depth	Niskin temp	Oxygens O21	O22	O23	~~DIC~~	~~DIC~~ DOC HALTSELL	~~DOC~~ Nuts	~~DON~~ PON(21)	Salts HPLC	~~NOM~~ BBOP CH-a	Nut2	~~BBOP~~ THORZUN BUESSELER	~~DOC~~ ~~PON~~ ~~Vol=~~	PSI Vol=	HPLC Vol=	~~BBOP~~ ~~Chla~~	
										HFLOW CYTO-				CARLSON NCSI-SIZAS				
1	1	27.3	201			WBI-195	WB404-1 -210	E071-1 -210	E071-183	E071-169	E071-25		E					
2	1									-169 Pouch			E215	E1-B19-C2				
3	20	25.0	202				-211	-211	-184	-170	-26							
4	20												E216					
5	30	22.0	203				-212	-212	-185	-171	-27							
6	40												E217	E1-B19-C6				
7	50	21.3	204				-213	-213	-186	-172	E071-28							
8	60	20.6	205			WBI-196	-214	-214	-187	-173								
9	60												E218	E1-B19-C9				
10	70	20.3	206				-215	-215	-188	-174				E1-B19-C10				
11	80	20.4	207			WBI-197	-216	-216	-189	-175								
12	80												E219	E1-B19-C12				
13	90	20.0	208				-217	-217	-190	-176				E1-B19-C13				
14	100	20.0	209			WBI-198	-218	-218	-191	-177								
15	100												E22	E1-B19-C15				
16	120	19.8	210			WBI-199	-219	-219	-192	-178								
17	120												E21	E1-B19-C17				
18	MISFIRE 140		211				-220	-220	-193	-179								
19	140	19.8	~~211~~ 212				-220	-220	193	179			E22	E1-B19-C19				
20	200	19.6	~~212~~ 211			WBI-200	-221	-221	-194	-180.								
21	200												E23	E1-B19-C21				
22	300	19.1	213				-222 ~~-223~~	~~-222~~ ~~-223~~	~~-195~~				E24					
23	500	17.8	214				-223 ~~-224~~	-223 ~~-224~~										
24	700	15.3	215				-224 ~~-225~~	-224 ~~-225~~										

Cruise: EDDIES	Leg: TRANSECT 1	Cast: CTD #20	Type: 0-700m PROFILE only PP3-1 (7nm NOR PP3)
Date: 1802	Time: 1802	Lat: 30° 04.464'N	Long: 65° 33.090'W
Date: 30-JUN-04	Time: 1840	Lat: 30° 03.949'N	Long: 65° 32.980'W

Samplers: X0409C20.DAT

N #	depth	Niskin temp	Oxygens O2 1	O2 2	O2 3	DIC	DIC	DOC	DON	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

None

Cruise: EDDIES	Leg: TRANSECT 2	Cast: CTD#21	Type: 0-700m Profile: PP3-2 X0409C21.DAT.
Date: 30-JUN-04	Time: 2018	Lat: 29° 52.019'N	Long: 65° 38.859'W
Date: 30-JUN-04	Time: 21.00	Lat: 29° 51.784'N	Long: 65° 38.671'W

Samplers:

N #	depth	Niskin temp	Oxygens O2 1	O2 2	O2 3	DIC	DIC	DOC	DON	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

NONE

Cruise: EDDIES	Leg: TRANSECT 1	Cast: CTD #22	Type: 0-200m Profile (PP3-3): closed to productivity Array
Date: 30-JUN-04	Time: 22.17	Lat: 29° 52.702	Long: 65° 26.867'W
Date: 30-JUN-04	Time: 22.55	Lat: 29° 52.249'	Long: 65° 26.271'W

Samplers:

N #	depth	Niskin temp	Oxygens O2 1	O2 2	O2 3	DIC	DIC	DOC	DON	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

None

Cruise: EDAS	Leg: TRANSECT 1	Cast: CTD #22	Type: 0 – 700M : STATION 241 (CONTROL SITE) X0409C22.DAT
Date: 1-JUL-04	Time: 0741	Lat: 29° 46.793'N	Long: 66° 10.689'W
Date: 1-JUL-04	Time: 0904	Lat: 29° 46.498'N	Long: 66° 09.551'W

Samplers: ROD, STEVE, MEGHAN, MATT, BRIAN, COURTNEY, MEREDITH

N #	depth	NIskin temp	Oxygens O21	O22	O23	~~DIC~~	~~DIC~~ DOC	~~DOC~~ NUTS	~~DON~~ POCN(2L)	Salts HPLC	Nut1	Nut2 (THORIUM QUESSELER)	~~Bact.~~ CARLSON	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla
							HANSELL			+PLOT CN			MCS1-SIZING	MCS-2 PRODUCTION	MCS-4 DNA	MCS-5 SIGNAL	EDAS AMBIENT
1	1	27.0	216			WB1-201	HBL404-225	E0T1-225	E0T1-195	E0T1-181						E1-C23-B1	
2	1											E-242	E1-C23-B2	E1-C23-B2	E1-C23-B2		
3	20	25.4	217				-226	-226	196	-182						~~E1-C23-B3~~	
4	20											E-243					
5	40	23.3	218			WB1-202	-227	-227	197	-183						E1-C23-B5	
6	40											E-244	E1-C23-B6	E1-C23-B6	E1-C23-B2		
7	50	22.7	219														
8	60	22.3	220			WB1-203	-228	-228	198	-184						E1-C23-B8	
9	60											E-245	E1-C23-B9	E1-C23-B9	E1-C23-B9		
10	70	21.9	221										E1-C23-B10	E1-C23-B10		E1-C23-B10	
11	80	21.7	222			WB1-204	-229	-229	199	-185						E1-C23-B11	
12	80											E-246	E1-C23-B12	E1-C23-B12	E1-C23-B12		
13	90	21.4	223										E1-C23-B13	E1-C23-B13		E1-C23-B13	
14	100	21.1	224			WB1-205	-230	-230	-200	-186						E1-C23-B14	
15	100											E-247	E1-C23-B15	E1-C23-B15	E1-C23-B15		
16	120	20.8	301				-231	-231	-201	-187						E1-C23-B16	
17	120											E-248	E1-C23-B17	E1-C23-B17	E1-C23-B17		
18	140	20.4	302			WB1-206	-232	-232	-202	-188						E1-C23-B18	
19	140											E-249	E1-C23-B19	E1-C23-B19	E1-C23-B19		
20	200	19.9	303			~~WB1-2~~	-232	-233	-203	-189.						E1-C23-B20	
21	200											E-250	E1-C23-B21	E1-C23-B21	E1-C23-B21		
22	300	19.5	304			WB1-207	-234	-234	-204			E1-251					
23	~~500~~	18.8	305				-235	-235									
24	~~700~~	15.9	306														

Cruise: ED07ES	Leg: TRANSECT 1	Cast: CTD#24	Type: 0-700M & S-N PROFILE. STATION #51 (S-N TRANSECT).
Date: 1-JULY-04	Time: 16.45	Lat: 29° 46.796'N	Long: 64° 55.111'W
Date: 1-JULY-04	Time: 17.55	Lat: 29° 47.738'N	Long: 64° 53.070'W.

Samplers:

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC BBSR.	~~DIC~~ DOC HANSELL	~~DOC~~ NUTS	~~DON~~ POCN(2)	Salts HOLC	~~Nut1~~ BBOP Chla	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla
1	1	27.5	307				WB404 -236	ED71-236	ED71-206	ED71-190	ED71-29						
2	20	24.8	308							-191	-30						
3	40	21.5	309				-237	~~-227~~	ED71-~~20~~ 207	-192	-31						
4	60	20.5	310				-238	-237	208	-193	-32.						
5	80	20.2	311			WB1-208	-239	-238	209	-194							
6	90	19.9	312				-240	-239	~~209~~ 210	-195							
7	100	20.0	313			-209	-241	-240	~~210~~ 211	-196							
8	120	19.8	314				-242	-241	212	-197							
9	140	20.8	315			-210.	-243	-242	213	-198							
10	200	19.3	316				-244	-243	214	-199.							
11	300	19.2	317				-245	-244	215								
12	500	17.7	318				-246		?								
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	
21																	
22																	
23																	
24																	

Cruise: EDDIES	Leg: TRANSECT 1	Cast: CTD # 25	Type: 0-700 M S-N ~~Pac~~ Transect: STATION # 80.
Date: 1-JUL-04	Time: 2106	Lat: 30° 08.464'N	Long: 65° 07.398'W
Date: 1-JUL-04	Time: 2215	Lat: 30° 08.351'N	Long: 65° 06.128'W

Samplers:

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC BBSR.	~~DIC~~ DOC HANSELL.	~~DOC~~ POCN(2) N~~UTS~~.	DON ~~POCN~~ (2) HPLC	Salts NUTS	Nut1	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
1	1	27.4	401				WB404-1 247	E071 -216	E071-200	E071-245								
2	20	25.2	402				-248	-217	-201									
3	40	22.6	403				-249	-218	-202									
4	60	20.8	404				-250	-219	-203	-246								
5	80	20.2	405			WB1 -211	-251	-220	-204	-247								
6	90	20.0	406				-252	-221	-205	-248								
7	100	19.9	407			WB1. -212.	-253	-222	-206	-249								
8	120	19.8	408				-254	-223	-207	-250								
9	140	19.6	409			WB1 -213.	-255	-224	-208	-251								
10	200	19.3	410				-256	-225	-209	-252								
11	300	18.8	411				-257	-226	.	-253								
12	500	17.1	412.				-258											
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Cruise: ENDEAVOR	Leg: TRANSECT 1	Cast: CTD # 26	Type: 0-700 m Practice only Station #5 (95)
Date: 01/JUL/04	Time: 2345	Lat: 30° 19.242'N	Long: 65° 07.615W
Date: 02/JUL/04	Time: 00:20	Lat: 30° 19.174' N	Long: 65° 06.812'W

Samplers:

N #	depth	Niskin temp	Oxygens O2 1	O2 2	O2 3	DIC	DIC	DOC	DON	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
1																		
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Now

Cruise: EDDIES	Leg: TRANSECT 1	Cast: CTD# 27	Type: 0-700m CORE STATION 110 ('NEW' EDDY CORE).
Date: 2-JUL-04	Time: 0145	Lat: 30° 29.629'N	Long: 65° 07.738'W.
Date: 2-JUL-04	Time: 0259	Lat: 30° 29.806'N	Long: 65° 06.663'W.

Samplers: MEGAN, ROD, STEVE, MATT, BRIAN, COURTNEY, MEREDITH

N #	depth	Niskin temp	Oxygens O21	Oxygens O22	Oxygens O23	DIC BBSR.	~~DIC~~ HANSELL DOC	~~DOC~~ NUTS.	DON POCN/Chl	~~Sals~~ HPLC	Nut1 ~~SALES~~	~~Nut2~~ THERMO QUESTLER	~~Bact.~~	POC PON Vol=	PSI Vol=	~~HPLC Vol=~~	BBOP Chla	
										HIGH CYT.			MCS-1 SIZES.	MCS-2 PRODUCTION.	MCS-4 DNA			
1	1	26.6	413			WB1-214	WB1 -259	EDT1 -254	EDT1 -227	EDT1 210 -~~254~~								
2	1											E252	E1-C27-B2	E1-C27-B2	E1-C27-B2			
3	20	25.0	414				-260	-255	-228	211 -~~255~~								
4	20											E253	~~B4~~					
5	40	24.3	415				-261	-256	-229	212 -~~256~~								
6	40											E254	E1-C27-B6	E1-C27-B6	E1-C27-B6			
7	50						-262	-257	-230	213 -~~257~~								
8	60	21.7	416			WB1-215	-263	-258	-231	214 -~~258~~								
9	60							—				E255	E1-C27-B9	E1-C27-B9	E1-C27-B9			
10	70						-264	-259	-232	-215 -~~259~~			E1-C27-B10	E1-C27-B10				
11	80	20.5	417			WB1 -216	-265	-260	-233	-216 -~~260~~								
12	80											E256	E1-C27-B12	E1-C27-B12	E1-C27-B12			
13	90						-266	-261	-234	-217 -~~261~~			E1-C27-B13	E1-C27-B13				
14	100	20.2	418			WB1 -217	-267	-262	-235	-218 -~~262~~								
15	100											E257	E1-C27-B15	E1-C27-B15	E1-C27-B15			
16	120	20.0	~~420~~ 419				-268	-263	-236	-219 -~~263~~								
17	120											E258	E1-C27-B17	E1-C27-B17	E1-C27-B17			
18	140	19.4	420			WB1-218	-269	-264	-237	-220 -~~264~~								
19	140											E259	E1-C27-B19	E1-C27-B19	E1-C27-B19			
20	200	19.2	421			WB1 -219.	-270	-265	-238	-221 -~~265~~								
21	200											E260	E1-C27-B21	E1-C27-B21	E1-C27-B21			
22	300	18.4	422				-271	-266	-239.			E261						
23	500	17.1	423				-272	-267										
24	700	14.5	424				-273	-268										

Cruise: EDDIES	Leg: TRANSECT 1	Cast: CTD# 28	Type: O - 700M STATION #140. X0409C28.DAT.
Date: 2/JUL/04	Time: 0532	Lat: 30° 51.670'N	Long: 65° 07.800'W
Date: 2/JUL/04	Time: 0641	Lat: 30° 51.876'N	Long: 65° 07.901'W

Samplers: MEGAN, ROD, STEVE.

N #	depth	Niskin temp	Oxygens O2 1	O2 2	O2 3	DIC BBSR	~~DIC~~ DOC HANSELL	DOC HANSELL	~~DON~~ PON(L)	~~Salts~~ HPLC (ul)	Nut1	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
1	1	27.3	601				WB40F-1 -247	WB40F-1 -274	EDT1 -240	EDT1 -222	EDT1 -269							
2	20	25.1	602				-248	-275	-241	-223	~~-270~~							
3	40	23.6	603				-249	-276	-242	-224	~~-271~~		DOC					
4	60	21.9	604			WB1 -220	-250	-277	-243	-225	-270		278,	279,	EMPTY	DOCN	BOTTLES.	
5	80	21.1	605			WB1-22b	-251	-278	-244	-226	-271				DTO	THESE	GET	TWICE
6	90	20.5	606				-252	-279	-245	-227	-272				IN	OTHER	BOTTLES	
7	100	20.3	607			WB1-222	-253	-280	-246	-228	-273							
8	120	20.9	608				-254	-281	-247	-229	-274							
9	140	20.0	609			WB1-223	-255	-282	-248	-230	-275							
10	200	19.6	610				-256	-283	-249	-231	-276							
11	300	19.2	611				-257	-284	-250		-277							
12	500	17.9	612					-285			-278							
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Cruise: EDDIES	Leg: TRANSECT #1	Cast: CTD #29	Type: 0-200M STATION #170 (N-STATION OF S-N TRANSECT)
Date: 2/JUL/04	Time: 0918	Lat: 31° 13.133'N	Long: 65° 07.853'W.
Date: 2/JUL/04	Time: 1023	Lat: 31° 12.612'N	Long: 65° 08.162'W

Samplers: MEGAN, ROD & MR. BELL.

N #	depth	Niskin temp	Oxygens O2 1	O2 2	O2 3	~~DIC~~	~~DIC~~ DOC	DOC POCN (29)	DON HPLC	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
1	1	27.0	613				HMS02 WG40U -286	EDT1-251	EDT1-232	322	EDT1-279							
2	20	24.7	614				-287	252	-233									
3	40	22.2	615				-288	253	-234	323								
4	60	20.9	616				-289	254	-235	324	280							
5	80	20.5	617				-290	255	-236	325	281							
6	90	20.3	1618				-291	256	-237		282							
7	100	20.0	619				-292	257	-238	326	283							
8	120	19.8	620				-293	258	-239		284							
9	140	19.7	621				-294	259	-240	327	285							
10	200	19.2	622				-295	260	~~2~~241		286							
11	300	19.2	623				-296	261		328	287							
12	~~700~~ 500	17.3	~~622~~ 1,624				-297			~~329~~ 329	288.							
13	700		~~623~~							~~329~~ 330								
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		

Cruise: EDDIES	Leg: TRANSECT 1	Cast: CTD#30 X040K30	Type: 0-300m. SPMR - BBOP Chla
Date: 2-JUL-04	Time: 1623	Lat: 31° 55.668'N	Long: 64° 48.499'W
Date: 2-JUL-04	Time: 1712	Lat: 31° 55.365'N	Long: 64° 48.566'N

Samplers: MEG.

N #	depth	Niskin temp	Oxygens O2 1	O2 2	O2 3	~~DIC~~ BBOP Chl	DIC	DOC	DON	Salts	Nut1	Nut2	Bact.	POC PON Vol=	PSI Vol=	HPLC Vol=	BBOP Chla	
1	1					EDT-33?												
2	20					EDT-34												
3	40					EDT-35												
4	60					EDT-36.												
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		
13																		
14																		
15																		
16																		
17																		
18																		
19																		
20																		
21																		
22																		
23																		
24																		