

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOCU/ GLOBEC		DSDB I.D.		STATION DESIGNATION <i>test 001</i>	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= <i>273</i> DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *
<i>0015707.</i>	<i>N 15055.</i>	<i>W 29</i>	<i>29 SEP 04</i>	<i>11</i>	<i>11</i>	<i>18</i>	<i>2149</i>	<i>29</i>	<i>1055</i>
Local Date & Time =				S E P 0 4		1049			
SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN		TIMES DATA ON START DOWN AT DEPTH AT SURFACE		JD/TIME		REMARKS <i>Started @ 67m</i>			
FIRE		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS	
SEQ.		DESIRED		SALT		NUTRIENTS		CHL. Bot. no.	
1				<i>133</i>					
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
bucket									

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION	
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC					
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE
DEG MIN	DEG MIN	DEG MIN	DAY	MO	YR	HR MIN	(°C)	(°C)	(mb)
0025920.72 N	15111.33 W	29 S	10	4	0508	10.9			1.8
		Local Date & Time		S E P O 4					
		J/D/TIME							
SRE 9'		TIMES							
PRESS SN		DATA ON							
PRI TEMP SN		START DOWN		5.06					
SEC TEMP SN		AT DEPTH							
PRI COND SN		AT SURFACE							
SEC COND SN		PAR S/N		FLUOR S/N					
FIRED		DEPTH		SAMPLE BOTTLE NUMBER		SAMPLE COMMENTS:			
SEQ.	DESIRED	ROSETTE POSITION		SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.	OTHER	
1	80			134	/				
2	50				/				
3	10				/				
4	30				/				
5	20				/				
6	10				/				
7	0				/				
8									
9									
10									
11									
12									
bucket									

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOCI/ GLOBEC		DSOB I.D.		STATION DESIGNATION CBA2										
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
003	57 20.30 N	151 14.54 W	29	S	E	P	0	4	0558	10.9	17	007	24				126	
Local Date & Time = S E P 0 4																		
SBE 9+		TIMES		JD/TIME		REMARKS												
PRESS SN		DATA ON		0553														
PRI TEMP SN		START DOWN																
SEC TEMP SN		AT DEPTH																
PRI COND SN		AT SURFACE																
SEC COND SN		PAR S/N		FLUOR S/N														
FIRED	DEPTH	ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.	CHL. VOL.	OTHER		SAMPLE COMMENTS:						
SEQ.	DESIRED																	
1	BAT					08												
2	100					09												
3	75					10												
4	50					11												
5	40					12												
6	30					13												
7	20					14												
8	10					15												
9	0					16												
10																		
11																		
12																		
bucket																		

Forgot to trip bottle

VESSEL		CRUISE ID		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION											
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC															
CONSC CAST #	LATITUDE	LONGITUDE		DATE		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
004	57 19.27 N	151 18.20 W		29 SEP 04		220		10.9		12	*	*	24	229	*	*		159	CB43
Local Date & Time = 29 SEP 04, 2207																			
SBE 9+		TIMES		JD/TIME		REMARKS													
PRESS SN		DATA ON																	
PRI TEMP SN		START DOWN																	
SEC TEMP SN		AT DEPTH																	
PRI COND SN		AT SURFACE																	
SEC COND SN		PAR S/N		FLUOR S/N		MAX. DEPTH = m													
FREQ	DEPTH	ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.	CHL. VOL.	OTHER		SAMPLE COMMENTS:							
SEQ.	DESIRED																		
1	309			136		17						Pump would not start did cast anyway - lousy data							
2	100					18													
3	75					19													
4	60					20													
5	40					21													
6	30					22													
7	20					23													
8	10					24													
9	0					25													
10																			
11																			
12																			
bucket																			

[illegible]

*1 filename is test 007.dat *renamed*
 need filename: for backup (to CTSD007.dat)

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOCI/ GLOBEC		DSDB I.D.		STATION DESIGNATION																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
067		56 59.60 N		151 25.20 W		29 SEP 04		175411.3		16		23027		563		77404																ED404	
Local Date & Time = S E P 0 4																																	
SBE 9+ TIMES JD/TIME																																	
PRESS SN		DATA ON																															
PRI TEMP SN		START DOWN																															
SEC TEMP SN		AT DEPTH																															
PRI COND SN		AT SURFACE																															
SEC COND SN		PAR S/N		FLUOR S/N																													
FIRID		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER		SAMPLE COMMENTS:																	
SEQ.		DESIRED																															
1		60f 542				138		044																									
2		500						045																									
3		300						046																									
4		200						047																									
5		150						048																									
6		100						049																									
7		60						050		✓																							
8		40						051		✓																							
9		20						052		✓																							
10		10						053		✓																							
11		0						054		✓																							
12																																	
bucket																																	

REMARKS
 Using ship's SBE 19
 Using own CTD for bottles
 MAX. DEPTH = m

VESSEL R/V Maurice Ewing		CRUISE ID EW0409		PROJECT & LEG FOCI/ GLOBEC		DSDB I.D.		STATION DESIGNATION																											
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD= 274		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID			
009		56 52. 53 91		51 14. 31 53		80 S E P 0 4		00 14		11.10		1.1		18		*		*		21/4		21		*		*		1004		ed406					
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		(*)		(*)		(mb)		*		*		(deg)		(m/s)		(m)		(m)	
Local Date & Time		=		S		E		P		O		4																							
SBE 9+		TIMES		JD/TIME																															
PRESS SN		DATA ON																																	
PRI TEMP SN		START DOWN		2341																															
SEC TEMP SN		AT DEPTH																																	
PRI COND SN		AT SURFACE																																	
SEC COND SN		PAR S/N		FLUOR S/N																															
FIRED		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER																					
SEQ.		DESIGNED																																	
1		Bot				140		66																											
2		500						67																											
3		300						68																											
4		200						69																											
5		150						70																											
6		100						71																											
7		50						72																											
8		30						73																											
9		20						74																											
10		10						75																											
11		0						76																											
12																																			
bucket																																			

REMARKS
Using ship's SBE 19
Using own CTD bottles
MAX. DEPTH = m

SAMPLE COMMENTS:

VESSEL		CRUISE ID		PROJECT & LEG		SDSB I.D.		STATION DESIGNATION													
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
011	56	41	18	58	31	430	S E P 0 4	05	21	11	17	22	*	*	18	18	*	*		2380	04408
Local Date & Time = S E P 0 4																					
SBE 9+		TIMES		JD/TIME		REMARKS															
PRESS SN		DATA ON		0429																	
PRI TEMP SN		START DOWN		0532																	
SEC TEMP SN		AT DEPTH																			
PRI COND SN		AT SURFACE																			
SEC COND SN		PAR S/N		FLUOR S/N																	
FIRID	DEPTH	ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.	CHL. VOL.	OTHER		SAMPLE COMMENTS:									
SEQ.	DESIRED			142		88						Good data only to 1500 m. Cast went deeper to fix wire & stopper which									
1	1500					89															
2	1000					90															
3	500					91															
4	300					92															
5	200					93															
6	100					94															
7	60					95															
8	40					96															
9	20					97															
10	10					98															
11	0																				
12																					
bucket																					

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOC/ GLOBEC		SDOB I.D.		STATION DESIGNATION																											
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID			
012		56 36		65 N		150 50.3		W		30 S		E		P		014		0733		11.8		.		22		.		187		23		3926		d409	
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		°C		°C		(mb)		*		*		(deg)		(m/s)		*		(m)	
Local Date & Time =		S		E		P		0		4																									
SBE 9+		TIMES		JD/TIME																															
PRESS SN		DATA ON																																	
PRI TEMP SN		START DOWN																																	
SEC TEMP SN		AT DEPTH																																	
PRI COND SN		AT SURFACE																																	
SEC COND SN		PAR S/N																																	
FIRED		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER		SAMPLE COMMENTS:																			
1		1500				143		99																											
2		1000						160																											
3		500						101																											
4		300						102																											
5		200						103																											
6		100						104																											
7		60						105		1																									
8		40						106		v																									
9		20						107		v																									
10		10						108		v																									
11		0						109		v																									
12																																			
bucket																																			

REMARKS
SBE 19

MAX. DEPTH = m

3879

1026 - from SBE911 headers

VESSEL R/V Maurice Ewing		CRUISE ID EW0409		PROJECT & LEG FOCI/ GLOBEC		DSD8 I.D.		STATION DESIGNATION																															
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID							
013		56		31.49 N		15043.19 W		30		S		E		P		0		4		2226		11		1.5		.		22		.		181		21		4824		ed410	
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		(°C)		(°C)		(mb)		.		.		(deg)		(m/s)		.		(m)					
Local Date & Time =																																							
SBE 9+ TIMES JD/TIME																																							
PRESS SN		DATA ON		START DOWN		22:26		Gmt																															
PRI TEMP SN		AT DEPTH		23:22																																			
SEC TEMP SN		AT SURFACE		23:56																																			
PRI COND SN		PAR S/N		FLUOR S/N																																			
SEC COND SN		SAMPLE BOTTLE NUMBER		SAMPLE COMMENTS:																																			
FIRED		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER																									
SEQ.		DESIRED				144		110																															
1		1500																																					
2		1000																																					
3		500						112																															
4		300						113																															
5		200						114																															
6		100						115																															
7		60						116																															
8		40						117																															
9		20						118																															
10		10						119																															
11		0						120																															
12																																							
bucket																																							

Remarks
 SBE 911

MAX. DEPTH = m

bottle taken 015 - pin would not hold

Long time at 800m (sheet of cast) - checking out hot electronics smell & smoke in lab.

VESSEL R/V Maurice Ewing		CRUISE ID EM0409		PROJECT & LEG FOCI/ GLOBEC		DSDB I.D.		STATION DESIGNATION																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
014		56 26.10 N		150 35.22 W		30 S E P 014		13 27		12.		.		20		.		199		28		.		.		.		5271		ED 411			
DEG MIN		DEG MIN		DAY MO YR		HR MIN		(°C)		(°C)		(mb)		*		(deg)		(m/s)		*		*		(m)									
Local Date & Time = S E P 014																																	
SBE 9+ TIMES JD/TIME																																	
PRESS SN		DATA ON		START DOWN		13:27 GMT																											
SEC TEMP SN		AT DEPTH		14:19 GMT																													
PRI COND SN		AT SURFACE		14:50 "																													
SEC COND SN		PAR S/N		FLUOR S/N																													
FIRED		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER		SAMPLE COMMENTS:																	
SEQ.		DESIRED																															
1		1500		1		145		121																									
2		---		---		---		122		500m		12 position 2																					
3		1000		---		---		123		new at 1000m																							
4		500		3		---		124																									
5		300		4		---		125																									
6		200		5		---		126																									
7		100		6		---		127																									
8		60		7		---		128																									
9		40		8		---		129																									
10		20		9		---		130																									
11		10		10		---		131																									
12		0		11		---		131																									
bucket																																	

Not sun sample valid - but cloud, maybe not
but bottom
1000k

Sea at SBE 19

MAX. DEPTH = m

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																									
R/V Maurice Ewing		EWO409		FOCI / GLOBEC				ED412																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD =		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)												
015	56	22	02	N	150	29	65	W	30	S	E	P	O	4	16	45	12	.2	.	19	*	*	20	4	28	*	*	*	52	6	1	ED412	
Local Date & Time =																																	
SBE 9+ TIMES JD/TIME																																	
PRESS SN DATA ON																																	
PRI TEMP SN START DOWN																																	
SEC TEMP SN AT DEPTH 16:45 gmt																																	
PRI COND SN AT SURFACE 17:15 gmt																																	
SEC COND SN PAR S/N FLUOR S/N																																	
FIRE	DEPTH	ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER		SAMPLE COMMENTS:																			
SEQ.	DESIR																																
1	1500			146		132								Sea cat in Position 2																			
2																																	
3	1000					133																											
4	500					134																											
5	300					135																											
6	200					136																											
7	100					137																											
8	60					138																											
9	40	F11				139																											
10	20	F11				140																											
11	10	F11				141																											
12	0	F11				142																											
bucket																																	

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOCI/ GLOBEC		DSDB I.D.		STATION DESIGNATION EDX41																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
016		5619.45 N		15017.14 W		30		1835		12.3		.		15		*		*		17827		*		*		*		5149		EDX41			
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		°C		°C		(mb)		*		*		(deg)		(m/s)		(m)	
Local Date & Time =		S		E		P		O		4																							
SBE 9+		TIMES		JD/TIME		REMARKS																											
PRESS SN		DATA ON		18:35 GMT																													
PRI TEMP SN		START DOWN		19:27																													
SEC TEMP SN		AT DEPTH																															
PRI COND SN		AT SURFACE																															
SEC COND SN		PAR S/N		FLUOR S/N																													
FIRED		DEPTH		SAMPLE BOTTLE NUMBER		SAMPLE COMMENTS:																											
SEQ.		DESIRED		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER																			
1		1500		147		143																											
2																																	
3		1000				144																											
4		500				145																											
5		300				146																											
6		200				147																											
7		100				148																											
8		60				149																											
9		40		5 ft out		150																											
10		20		5 ft "		151																											
11		10		5 ft "		152																											
12		0		5 ft "		153																											
bucket																																	

took tubes to pump off secondary
cond/temp

Secut in position 2

Secut SBE 19

MAX. DEPTH = m

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																													
R/V Maurice Ewing		EW0409		FOCI/ GL08EC																																	
CONSC		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID					
CAST #		DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		°C		°C		(mb)		*		*		*		(m)					
015		56		17.066		150		23.015		530		S		E		P		04		2258		12.72				21		*		202		29		5221-ED413			
Local Date & Time =																																					
SBE 9+																																					
PRESS SN																																					
PRI TEMP SN																																					
SEC TEMP SN																																					
PRI COND SN																																					
AT SURFACE																																					
SEC COND SN																																					
PAR S/N																																					
FLUOR S/N																																					
SAMPLE COMMENTS:																																					
FIRE																																					
DEPTH																																					
ROSETTE POSITION																																					
SALT																																					
NUTRIENTS																																					
CHL. Bot. no.																																					
CHL. VOL.																																					
OTHER																																					
MAX. DEPTH =																																					
m																																					
REMARKS																																					
STA. NAME/ID																																					
DEPTH																																					
WEATHER																																					
TYPE																																					
CLOUD (amt)																																					
WIND SPD.																																					
WIND DRN.																																					
VISIBILITY																																					
SEA STATE																																					
PRESSURE																																					
WET BULB																																					
DRY BULB																																					
TIME (GMT)																																					
DATE JD=																																					
MO																																					
DAY																																					
MIN																																					
DEG																																					
LATITUDE																																					
CONSC																																					
CAST #																																					

VESSEL		CRUISE ID		PROJECT & LEG		STATION DESIGNATION	
R/V Maurice Ewing		EM0409		FOCI/ GLOBEC		DSDB I.D.	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD =	
018	5614.355	150	29.71	101	065	004	034011.7
DEG MIN		DEG MIN		DAY MO YR		HR MIN	
018 56 14		150 29		71 10 01		06 50 04	
LOCAL DATE & TIME		S E P O 4		0		034011.7	
SSE 9+		TIMES		JD/TIME		REMARKS	
PRESS SN		DATA ON		0246		Removed pump tube from primary cond. cell.	
PRI TEMP SN		START DOWN					
SEC TEMP SN		AT DEPTH					
PRI COND SN		AT SURFACE					
SEC COND SN		PAR S/N		FLUOR S/N		MAX. DEPTH = m	
FIRED DEPTH		ROSETTE POSITION		SALT		NUTRIENTS	
SEQ. DESIRED				150		165	
1 1500				166		167	
2 1000				168		169	
3 500				170		171	
4 300				172		173	
5 800				174		175	
6 100				176		177	
7 60				178		179	
8 40				180		181	
9 20				182		183	
10 10				184		185	
11 0				186		187	
12				188		189	
bucket				190		191	
				192		193	
				194		195	
				196		197	
				198		199	
				200		201	
				202		203	
				204		205	
				206		207	
				208		209	
				210		211	
				212		213	
				214		215	
				216		217	
				218		219	
				220		221	
				222		223	
				224		225	
				226		227	
				228		229	
				230		231	
				232		233	
				234		235	
				236		237	
				238		239	
				240		241	
				242		243	
				244		245	
				246		247	
				248		249	
				250		251	
				252		253	
				254		255	
				256		257	
				258		259	
				260		261	
				262		263	
				264		265	
				266		267	
				268		269	
				270		271	
				272		273	
				274		275	
				276		277	
				278		279	
				280		281	
				282		283	
				284		285	
				286		287	
				288		289	
				290		291	
				292		293	
				294		295	
				296		297	
				29			

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION												
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC																
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	(m)	
01956	12.694	1501	15.996	201	04	06	16	11	17			13			200	15			5180	ED414
Local Date & Time = S E P O 4																				
SBE 9+		TIMES		JD/TIME		REMARKS														
PRESS SN		DATA ON																		
PRI TEMP SN		START DOWN		5.23																
SEC TEMP SN		AT DEPTH																		
PRI COND SN		AT SURFACE																		
SEC COND SN		PAR S/N		FLUOR S/N																
FIRED		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER		SAMPLE COMMENTS:				
SEQ.	DESIRED																			
1	1500			151		176														
2	—																			
3	1000					177														
4	500					178														
5	300					179														
6	200					180														
7	100					181														
8	60					182														
9	40					183														
10	20					184														
11	10					185														
12	0					186														
bucket																				

VESSEL R/V Maurice Ewing		CRUISE ID EW0409		PROJECT & LEG FOCI/ GLOBEC		DSD8 I.D.		STATION DESIGNATION ED 415													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD =		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
020	56	08.46	N	150	13.03	W 01	0617	04	0750	11.7			13					195	14	5050	ED 415
Local Date & Time = S E P 0 4																					
SBE 9+ PRESS SN PRI TEMP SN SEC TEMP SN PRI COND SN SEC COND SN		TIMES DATA ON START DOWN AT DEPTH AT SURFACE		JD/TIME 07:50 GMT 09:10 GMT		REMARKS Seal at SBE 19 (Levin)															
FIRE		DEPTH	ROSETTE POSITION		SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.	OTHER		SAMPLE COMMENTS:										
SEQ.	DESIRED																				
1	1500			152	187																
2	1000				188																
3	500				189																
4	300				190																
5	200				191																
6	100				192																
7	60				193																
8	40				194																
9	20				195																
10	10				196																
11	0				197																
12																					
bucket																					

[illegible]

VESSEL R/V Maurice Ewing		CRUISE ID EW0409		PROJECT & LEG FOCI/ GLOBEC		DSDB I.D.		STATION DESIGNATION ED417																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
0225554.99 N		14954.54 W		0185004		132812.2		17		20813		4646		ED417																			
DEG MIN		DEG MIN		DAY MO YR		HR MIN		°C °C (mb)		°C °C (deg)		(m/s)		°		°		°		(m)													
Local Date & Time =		S E P O 4																															
SBE 9+		TIMES		JD/TIME																													
PRESS SN		DATA ON																															
PRI TEMP SN		START DOWN		13:28 gmt																													
SEC TEMP SN		AT DEPTH		14:21 gmt																													
PRI COND SN		AT SURFACE		14:50 gmt																													
SEC COND SN		PAR S/N		FLUOR S/N																													
FREQ		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER																			
SEQ. DESIRED																																	
1 1500				154		209																											
2																																	
3 1000						210																											
4 500						211																											
5 300						212																											
6 200						213																											
7 100						214																											
8 60						215																											
9 40						216																											
10 20						217																											
11 10						218																											
12 0						219																											
bucket																																	

SAMPLE COMMENTS:

REMARKS

Sea cat SBE19 (Ewing)

MAX. DEPTH = m

VESSEL R/V Maurice Ewing		CRUISE ID EW0409		PROJECT & LEG FOCI/ GLOBEC		DSDB I.D.		STATION DESIGNATION ED418																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD =		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
0235547.99N		14944.06W		01 OCT 04		165512.3		14		211115		4528		ED418																			

SBE 9+		TIMES		JD/TIME		REMARKS	
PRESS SN		DATA ON				Seacat SBE-19 (ewing)	
PRI TEMP SN		START DOWN		16:55 GMT			
SEC TEMP SN		AT DEPTH		17:48 GMT			
PRI COND SN		AT SURFACE		18:21 GMT			
SEC COND SN		PAR S/N		FLUOR S/N		MAX. DEPTH = m	

SEQ.	DEPTH	ROSETTE POSITION	SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.	OTHER	SAMPLE COMMENTS:
1	1500		61	220				Soft wave resistant seafloor Firing order to include #2 which is empty (location of Seacat). Added 60 Hz @ 150m
2								
3	500			221				
4	300			222				
5	200			223				
6	150			224				
7	100			225				
8	60			226				
9	40			227				
10	20			228				
11	10			229				
12	0			230				
bucket								

[illegible]

VESSEL		CRUISE ID		PROJECT & LEG		DSOB I.D.		STATION DESIGNATION																									
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC				ED3N1																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG MIN		DEG MIN		DAY MO YR		HR MIN		(°C)		(°C)		(mb)		*		*		(deg)		(m/s)		*		*		*		(m)					
026	55	10	38	N	153	41	93	W	020	05	04	1530	10.9				97			168	08								54	14	EID3N1		
Local Date & Time = SEP 04																																	
SBE 9+ TIMES JD/TIME																																	
PRESS SN DATA ON 1530																																	
PRI TEMP SN START DOWN 1545																																	
SEC TEMP SN AT DEPTH 1556																																	
PRI COND SN AT SURFACE																																	
SEC COND SN PAR S/N FLUOR S/N																																	
SAMPLE COMMENTS:																																	
FIRE	DEPTH	ROSETTE POSITION		SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.	OTHER																									
SEQ.	DESIR																																
1	500			64	253																												
2																																	
3	400				254																												
4	300				255																												
5	200				256																												
6	150				257																												
7	100				258																												
8	60				259																												
9	40				260																												
10	20				261																												
11	10				262																												
12	0				263																												
bucket																																	

500m by current with angle from 150 m to 1000 m / not above

stopped at 224 hrs 5 minutes to reposition - with angle toward ship

VESSEL R/V Maurice Ewing		CRUISE ID EM0409		PROJECT & LEG FOCI/ GLOBEC		SDSB I.D.		STATION DESIGNATION ED303																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD =		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIR.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
033		55 08 . 06 N		152 29 . 34 W		0304704		1003		10 . 4		.		96		*		*		(deg)		(m/s)		*		*		(m)		4231		ED303	
Local Date & Time = S E P 0 4																																	
SBE 9+		TIMES		JD/TIME		REMARKS																											
PRESS SN		DATA ON		10:03 GMT		Ship's SBE19																											
PRI TEMP SN		START DOWN		10:50 "																													
SEC TEMP SN		AT DEPTH		11:15 "																													
PRI COND SN		AT SURFACE				MAX. DEPTH = m																											
SEC COND SN		PAR S/N		FLUOR S/N																													
FIRED		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER		SAMPLE COMMENTS:																	
SEQ.		DESIRED																															
1		1000				71		330								Leaker L small - nipple in																	
2																																	
3		500				71		331																									
4		300						332								nipple pushed in																	
5		200						333								nipple pushed in																	
6		150						334																									
7		100						335																									
8		60						336																									
9		40						337																									
10		20						338																									
11		10						339																									
12		0						340								bucket two dirty, bottle empty																	
bucket																																	

Seabird V 10.2

VESSEL R/V Maurice Ewing		CRUISE ID EW0409		PROJECT & LEG FOCI/ GLOBEC		DSD8 I.D.		STATION DESIGNATION ED304										
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
034	55	07.93 N	152	39.67 W	0306704	130711.10	9.6	22.9	22	4372	ED304							
Local Date & Time = 06 SEP 04																		
SBE 9+		TIMES		JD/TIME		REMARKS												
PRESS SN		DATA ON		13:07 GMT		Seabird SBE-19												
PRI TEMP SN		START DOWN		13:41 "														
SEC TEMP SN		AT DEPTH		14:00 "														
PRI COND SN		AT SURFACE				MAX. DEPTH = m												
SEC COND SN		PAR S/N		FLUOR S/N														
FIRE	DEPTH	ROSETTE POSITION		SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.	OTHER		SAMPLE COMMENTS:								
SEQ.	DESIR																	
1	1000			72	341													
2																		
3	500				342													
4	300				343													
5	200				344													
6	150				345													
7	100				346													
8	60				347													
9	40				348													
10	20				349													
11	10				350													
12	0				351													
bucket																		

No H₂O cable wrapped bottle

VESSEL R/V Maurice Ewing		CRUISE ID EW0409		PROJECT & LEG FOCI/ GLOBEC		DSDB I.D.		STATION DESIGNATION ED305																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD =		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
03555		07.84 N		15250.13 W		0306T04		1457		10.5		.		96		.		235		14		.		.		.		4530ED305		305			
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		°C		°C		(mb)		.		.		(deg)		(m/s)		(m)	
Local Date & Time		=		S		E		P		O		4																					
SBE 9+		TIMES		JD/TIME																													
PRESS SN		DATA ON		14:57 GMT																													
PRI TEMP SN		START DOWN		15:31																													
SEC TEMP SN		AT DEPTH		15:49																													
PRI COND SN		AT SURFACE		15:49																													
SEC COND SN		PAR S/N		FLUOR S/N																													
FREQ		DEPTH		SAMPLE BOTTLE NUMBER		SALT		NUTRIENTS		CHL. Bot. no		CHL. VOL.		OTHER		SAMPLE COMMENTS:																	
SEQ.		DESIRED		ROSETTE POSITION		73		352								mo been taken, Switched out spare Niskin																	
1		1000																															
2																																	
3		500						353																									
4		300						354																									
5		200						355																									
6		150						356																									
7		100						357																									
8		60						358																									
9		40						359																									
10		20						360																									
11		10						361																									
12		0						362																									
bucket																																	

 REMARKS
 SBE 9+ 19

MAX. DEPTH = m

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOCI/ GLOBEC		DSDB I.D.		STATION DESIGNATION ED306	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN		DRY BULB (°C)	
03 655 07.710 N		153 00.76 W		03 08 04		16 48		10.8	
								WET BULB (°C)	
								PRESSURE (mb)	
								SEA STATE	
								VISIBILITY	
								WIND DIRN. (deg)	
								WIND SPD. (m/s)	
								CLOUD (amt)	
								TYPE	
								WEATHER	
								BOTTOM DEPTH (m)	
								STA. NAME/ID	
								4643 ED306	
Local Date & Time = 06 04									
SBE 9+ TIMES JD/TIME									
PRESS SN DATA ON					16:48 GMT				
PRI TEMP SN START DOWN									
SEC TEMP SN AT DEPTH									
PRI COND SN AT SURFACE					17:46				
SEC COND SN					PAR S/N				
FIRE					FLUOR S/N				
DEPTH					SAMPLE BOTTLE NUMBER				
SEQ. DESIRED					SALT NUTRIENTS CHL. Bot. no. CHL. VOL. OTHER				
1 1000					74 363				
2									
3 500					364				
4 300					365				
5 200					366				
6 150					367				
7 100					368				
8 60					369 ✓				
9 40					370 ✓				
10 20					371 ✓				
11 10					372 ✓				
12 0					373 ✓				
bucket									
REMARKS									
Scabrid SBE19									
MAX. DEPTH = m									
SAMPLE COMMENTS:									

VESSEL		CRUISE ID		PROJECT & LEG		STATION DESIGNATION	
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC		E2308	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=	
0385507		28515321		6590304		210610.9	
DEG MIN		DEG MIN		DAY MO YR		TIME (GMT)	
03 28		15 32		03 04		21 06 10	
SEC COND SN		AT SURFACE		PAR S/N		FLUOR S/N	
SBE 9+		TIMES		JD/TIME		REMARKS	
PRESS SN		DATA ON				Seacat 50447	
PRI TEMP SN		START DOWN		2032		FD: we?	
SEC TEMP SN		AT DEPTH		2106		MAX. DEPTH = m	
PRI COND SN		AT SURFACE					
SEC COND SN		PAR S/N		FLUOR S/N		SAMPLE COMMENTS:	
FIRID DEPTH		ROSETTE POSITION		SALT		NUTRIENTS	
1 1000						385	
2				76		386	
3 500						387	
4 300						388	
5 200						389	
6 150						390	
7 100						391	
8 60						392	
9 40						393	
10 20						394	
11 10						395	
12 0						395	
bucket							

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION															
R/V Maurice Ewing		EM0409		FOCI/ GLOBEC				ED309															
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
	DEG MIN	DEG MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)					
039	55 07 .	46 51	15	3	32	. 07	W	03	8	57	0	4	23	00	10	. 6	.	95	21	5	15	5041	ED309
Local Date & Time = 5030																							
SBE 9+	TIMES		JD/TIME		REMARKS																		
PRESS SN			DATA ON																				
PRI TEMP SN			START DOWN		2226																		
SEC TEMP SN			AT DEPTH																				
PRI COND SN			AT SURFACE																				
MAX. DEPTH =	m																						
SEC COND SN		PAR S/N		FLUOR S/N		SAMPLE COMMENTS:																	
FIRE	DEPTH	ROSETTE POSITION		SALT		NUTRIENTS	CHL. Bot. no.	CHL. VOL.	OTHER														
SEQ.	DESIGN																						
1	1000					396																	
2	---																						
3	500					397																	
4	300			77		398																	
5	200					399																	
6	150					400																	
7	100					401																	
8	60					402																	
9	40					403																	
10	20					404																	
11	10					405																	
12	0					406																	
bucket																							

VESSEL		CRUISE ID		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION														
R/V Maurice Ewing		EW0409		FOCI/ GLOBEC				ED310														
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD =		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	*	*	(m)				
0410	55 07	22	28	11	53	42	26	04	08	10	4	02	22	22	8	16		93	241	17	5207	ED310
Local Date & Time = 1 SEP 04 0222																						
S187																						
SBE 9+		TIMES		JD/TIME		REMARKS																
PRESS SN		DATA ON																				
PRI TEMP SN		START DOWN		0147																		
SEC TEMP SN		AT DEPTH		0222																		
PRI COND SN		AT SURFACE																				
SEC COND SN		PAR S/N		FLUOR S/N																		
FREQ		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER		SAMPLE COMMENTS:						
SEQ.		DESIGD																				
1	1000					4107																
2																						
3	500					4108																
4	300					4109																
5	200					4110																
6	150					4111																
7	100					4112																
8	60					4113																
9	40					4114																
10	20					4115																
11	10					4116																
12	0					4117																
presumed chl sample																						
bucket																						

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																													
R/V Maurice Ewing		EW0409		FOCI/ GLOBEC				F0312																													
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID					
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		(°C)		(°C)		(mb)		*		*		*		(m)							
042		5506		759		154		03		86		04		08		04		0630		9.7				90						188		13		5521		F0312	
Local Date & Time =																																					
S E P O 4																																					
SBE 9+ TIMES JD/TIME																																					
PRESS SN DATA ON																																					
PRI TEMP SN START DOWN																																					
SEC TEMP SN AT DEPTH																																					
PRI COND SN AT SURFACE																																					
0558																																					
0632																																					
0651																																					
MAX. DEPTH = 1000 m																																					
SEC COND SN PAR S/N FLUOR S/N																																					
SAMPLE BOTTLE NUMBER																																					
SAMPLE COMMENTS:																																					
FREQ		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER																							
SEQ.		DESIGD																																			
1		1000				80		429																													
2		500						430																													
3		300						431																													
4		200						432																													
5		150						433																													
6		100						434																													
7		60						435																													
8		40						436																													
9		20						437																													
10		10						438																													
11		0						439																													
12																																					
bucket																																					

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																	
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC				ED313																	
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DATE JD=	DAY	MO	YR	TIME (GMT)	HR	MIN	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
04355	6.38	N	154	15.00	W	4	9	5	0	4	08	01	8.6		88			19	7	10				538	7ED313
Local Date & Time = 15 SEP 04 08:01																									
SBE 9+		TIMES		JD/TIME		001																			
PRESS SN		DATA ON		08:01 GMT																					
PRI TEMP SN		START DOWN		08:28 GMT																					
SEC TEMP SN		AT DEPTH																							
PRI COND SN		AT SURFACE																							
SEC COND SN		PAR S/N		FLUOR S/N																					
FIRID DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER		SAMPLE COMMENTS:											
SEQ.	DESIRED																								
1	1000					440																			
2																									
3	500			81		441																			
4	300					442																			
5	200					443																			
6	150					444																			
7	100					445																			
8	60					446																			
9	40					447																			
10	20					448																			
11	10					449																			
12	0					450																			
bucket																									

V = 11.1' ✓ before fq
10.9' after

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION													
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC				ED316													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
046	55	05	56	N	154	47	41	W	04	05	10	4	14	13	09	9	94	247	08	37119	ED3116
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)		
Local Date & Time = SEP 04																					
SBE 9+		TIMES		JD/TIME		REMARKS															
PRESS SN		DATA ON		14:13 GMT																	
PRI TEMP SN		START DOWN		14:45 "																	
SEC TEMP SN		AT DEPTH		15:06 "																	
PRI COND SN		AT SURFACE																			
SEC COND SN		PAR S/N		FLUOR S/N																	
FIRID		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER		SAMPLE COMMENTS:					
SEQ.	DESIRED																				
1	1000			1000		473															
2				84		474															
3	500					475															
4	300					476															
5	200					477															
6	150					478															
7	100					479															
8	60					480															
9	40					481															
10	20					482															
11	10					483															
12	0					483															
bucket																					

VESSEL		CRUISE ID		PROJECT & LEG		DSOB I.D.		STATION DESIGNATION																
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC				E6318																
CONSC CAST #	LATITUDE	DEG	MIN	DEG	MIN	DATE JD=	DAY	MO	YR	HR	MIN	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
0485504	197	N	15509.1	W	0402104	175208.7																		
Local Date & Time = 9-24-04																								
SBE 9+		TIMES		JD/TIME		REMARKS																		
PRESS SN		DATA ON		17:52																				
PRI TEMP SN		START DOWN		18:27																				
SEC TEMP SN		AT DEPTH		18:48																				
PRI COND SN		AT SURFACE																						
SEC COND SN		PAR S/N		FLUOR S/N																				
FIRED		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER		SAMPLE COMMENTS:								
SEQ.	DESIRED					86																		
1	1000					495																		
2						---																		
3	500					496																		
4	300					497																		
5	200					498																		
6	150					499																		
7	100					500																		
8	60					501																		
9	40					502																		
10	20					503																		
11	10					504																		
12	0					505																		
bucket																								

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION	
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC				ED319	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	
049		55 04.758		155 20.16		W 04 28 04		19 40	
DEG MIN		DEG MIN		DAY MO YR		HR MIN		DRY BULB (°C)	
55 04		75 20		16 W 04 28		04		19 40	
								WET BULB (°C)	
								PRESSURE (mb)	
								SEA STATE	
								VISIBILITY	
								WIND DIRN (deg)	
								WIND SPD (m/s)	
								CLOUD (amt)	
								TYPE	
								WEATHER	
								BOTTOM DEPTH (m)	
								STA. NAME/ID	
								2248 ED319	
Local Date & Time = 19 SEP 01 4									
SBE 9+ TIMES JD/TIME									
PRESS SN DATA ON									
PRI TEMP SN START DOWN 19:40GMT									
SEC TEMP SN AT DEPTH 2014									
PRI COND SN AT SURFACE									
SEC COND SN PAR S/N FLUOR S/N									
SAMPLE COMMENTS:									
SEQ.	DEPTH	ROSETTE POSITION	SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.	OTHER		
1	1000		506	507				Stopped filtering nutrients and H ₂ S	
2				508				Leaker - Valve open	
3	500			509					
4	300			510					
5	200			511					
6	150			512					
7	100			513				Leaker - Valve open	
8	60			514					
9	50			515					
10	20								
11	10								
12	0		87	516				87	
bucket									

VESSEL		CRUISE ID		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION										
R/V Maurice Ewing		EM0409		FOCI/ GLOBEC														
CONSC CAST #	DEG	MIN	DEG	MIN	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
0505504	27	11	55	31	02004	2239	8.8		83			312	20				237	7EPD320
Local Date & Time = S E P 0 4																		
2399																		
REMARKS																		
SBE 9+ TIMES JD/TIME																		
PRESS SN DATA ON																		
PRI TEMP SN START DOWN 8205																		
SEC TEMP SN AT DEPTH 2239																		
PRI COND SN AT SURFACE																		
SEC COND SN																		
PAR S/N FLUOR S/N																		
SAMPLE BOTTLE NUMBER																		
SAMPLE COMMENTS:																		
FREQ	DEPTH	ROSETTE POSITION		SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.	OTHER										
SEQ.	DESIRED																	
1	1000			88	517													
2	---			---	---													
3	520				518													
4	300				519													
5	200				520													
6	150				521													
7	100				522													
8	60				523													
9	40				524													
10	20				525													
11	10				526													
12	0				527													
bucket																		

VESSEL		CRUISE ID		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC															
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
0525503	790	.539		05 21 04		02 15		8.2	.	82	*	*	31	14	27	*	*	1532	ED322
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	(m)	
05	25	03	10	05	05	04	02	15	8.2	.	82	*	*	31	14	27	*	*	1532
Local Date & Time = S E P O 4																			
SBE 9+		TIMES		JD/TIME		REMARKS													
PRESS SN		DATA ON																	
PRI TEMP SN		START DOWN		0142															
SEC TEMP SN		AT DEPTH																	
PRI COND SN		AT SURFACE																	
SEC COND SN		PAR S/N		FLUOR S/N															
FIRID		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER		SAMPLE COMMENTS:			
SEQ.	DESIRED																		
1	1000							539											
2	---							---											
3	500							540											
4	300					90		541											
5	200							542											
6	150							543											
7	100							544											
8	60							545											
9	40							546											
10	20							547											
11	10							548											
12	0							549											
bucket																			

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOCI/ GLOBEC		DSDB I.D.		STATION DESIGNATION	
CONC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN		DRY BULB (°C)	
0535503.4187		15559.1900		05 OCT 04		0338		8.3	
WET BULB (°C)		PRESSURE (mb)		SEA STATE		VISIBILITY		WIND DIRN. (deg)	
1949		82		*		*		311	
WIND SPD. (m/s)		CLOUD (amt)		TYPE		WEATHER		WIND (m/s)	
28		*		*		*		28	
BOTTOM DEPTH (m)		STA. NAME/ID		LOCAL DATE & TIME		S I E P O 4		1925	
1949		E03R3		Local Date & Time =		S I E P O 4		1925	
SBE 9+		TIMES		JD/TIME		REMARKS			
PRESS SN		DATA ON							
PRI TEMP SN		START DOWN		D304					
SEC TEMP SN		AT DEPTH		0338					
PRI COND SN		AT SURFACE		0355					
SEC COND SN		PAR S/N		FLUOR S/N					
FIRED		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS	
SEQ.		DESIRED						CHL. Bot. no.	
1		1000						CHL. VOL.	
2		—						OTHER	
3		520							
4		300							
5		200							
6		150							
7		100							
8		60							
9		40							
10		20							
11		10							
12		0							
bucket									

VESSEL		CRUISE ID		PROJECT & LEG		STATION DESIGNATION	
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC			
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD-	
0555503		.182		.845		0525504	
DEG	MIN	DEG	MIN	DAY	MO	YR	
05	55	03	N	15	06	08	W
SBE 9+		TIMES		JD/TIME			
PRESS SN		DATA ON					
PRI TEMP SN		START DOWN		0726			
SEC TEMP SN		AT DEPTH		0801			
PRI COND SN		AT SURFACE					
SEC COND SN		PAR S/N		FLUOR S/N			
FIRE		DEPTH		SAMPLE BOTTLE NUMBER		SAMPLE COMMENTS:	
SEQ.	DESIRED	ROSETTE POSITION		SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.
1	1000				572		
2	—				93		
3	500				573		
4	300				574		
5	800				575		
6	150				576		
7	100				577		
8	60				578		
9	40				579		
10	20				580		
11	10				581		
12	0				582		
bucket							

REMARKS

MAX. DEPTH = m

1699

1713

ED325

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOCI/ GLOBEC		STATION DESIGNATION ED326	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=	
0565502	53 N	15618.18	W	0525504	0919	09.2	
DEG	MIN	DEG	MIN	DAY	MO	YR	
Local Date & Time				S	E	P	0 4
SBE 9+		TIMES		JD/TIME		REMARKS	
PRESS SN		DATA ON					
PRI TEMP SN		START DOWN		09:19 GMT			
SEC TEMP SN		AT DEPTH		0954			
PRI COND SN		AT SURFACE					
SEC COND SN		PAR S/N		FLUOR S/N			
FIRE	DEPTH	ROSETTE POSITION		SAMPLE BOTTLE NUMBER		SAMPLE COMMENTS:	
SEQ.	DESIRED			SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.
1	1000			94	583		
2							
3	500				584		
4	300				585		
5	200				586		
6	150				587		
7	100				588		
8	60				589	✓	
9	40				590	✓	
10	20				591	✓	
11	10			94	592	✓	
12	0				593	✓	
bucket							

3 brooks 8 310 when taking surface samples

brooks

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOCI/ GLOBEC		DSOB I.D.		STATION DESIGNATION ED327	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD-		TIME (GMT)	
05755	02.08 N	15630.15 W	05 OCT 04	11	27	09.9			
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	
SBE 9+		TIMES		JD/TIME		REMARKS			
PRESS SN		DATA ON		11:27 GMT					
PRI TEMP SN		START DOWN							
SEC TEMP SN		AT DEPTH							
PRI COND SN		AT SURFACE							
SEC COND SN		PAR S/N		FLUOR S/N					
FIRE		DEPTH		SAMPLE BOTTLE NUMBER		SAMPLE COMMENTS:			
SEQ.	DESIRED	ROSETTE POSITION		SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.	OTHER	
1	1000				594				
2									
3	500				595				
4									
5	900				596				
6	150				597				
7	400				598				
8									
9									
10									
11	20				599				
12	10				600				
Bucket									

VESSEL		CRUISE ID		PROJECT & LEG		STATION DESIGNATION	
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC		DSOB I.D.	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR MIN
58	59	09	51	31	10	04	08 44
TIME (GMT)		DRY BULB		WET BULB		PRESSURE	
9.3		9.3		9.3		9.3	
SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.	
3		305		305		305	
CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH	
79		79		79		79	
STA. NAME/ID		STA. NAME/ID		STA. NAME/ID		STA. NAME/ID	
300		300		300		300	
SBE 9+		TIMES		JD/TIME		REMARKS	
PRESS SN		DATA ON		0842			
PRI TEMP SN		START DOWN		0844			
SEC TEMP SN		AT DEPTH		08			
PRI COND SN		AT SURFACE		08			
SEC COND SN		PAR S/N		FLUOR S/N		MAX. DEPTH =	
FIRE		DEPTH		SAMPLE BOTTLE NUMBER		SAMPLE COMMENTS:	
SEQ.	DESIRED	ROSETTE POSITION		SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.
1	701	(73)			601		
2	50				602		
3	30				603		
4	20				604		
5	10				605		
6	0				96	606	
7							
8							
9							
10							
11							
12							
bucket							

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOCI/ GLOBEC		DSD8 I.D.		STATION DESIGNATION	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN		DRY BULB	
060 5900.676		150 57.41 W		07 04 04		10 36		9.6	
WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.	
92		337		97		167		GP2	
167		GP2		167		GP2		GP2	
LOCAL DATE & TIME		LOCAL DATE & TIME		LOCAL DATE & TIME		LOCAL DATE & TIME		LOCAL DATE & TIME	
SBE 9+		TIMES		JD/TIME		REMARKS		REMARKS	
PRESS SN		DATA ON		1030					
PRI TEMP SN		START DOWN		1036					
SEC TEMP SN		AT DEPTH							
PRI COND SN		AT SURFACE							
SEC COND SN		PAR S/N		FLUOR S/N					
FIRID		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS	
SEQ.		DESIRID		98		616		617	
1		Bot							
2		125							
3		100							
4		75							
5		50							
6		30							
7		20							
8		10							
9		0							
10									
11									
12									
bucket									

VESSEL		CRUISE ID		PROJECT & LEG		DSOB I.D.		STATION DESIGNATION			
R/V Maurice Ewing		EWN0409		FOCI/ GLOBEC							

CONSC CAST #	LATITUDE		LONGITUDE		DATE JD-		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
061	58	56.974	N	150	55.940	W	09	04	11	26	9.6			9.4	325	9			158	5193

Local Date & Time = 09/04/04

SBE 9+	TIMES	JD/TIME	REMARKS
PRESS SN	DATA ON		
PRI TEMP SN	START DOWN	1122	
SEC TEMP SN	AT DEPTH	1126	
PRI COND SN	AT SURFACE		

SEC COND SN	PAR S/N	FLUOR S/N	SAMPLE BOTTLE NUMBER	SAMPLE COMMENTS:

SEQ.	DEPTH	ROSETTE POSITION	SALT	NUTRIENTS	CHL. Bot. no.	CHL. VOL.	OTHER
1	Bot		99	625			
2							
3	125			626			
4	100			627			
5	75			628			
6	50			629			
7	30			630			
8	20			631			
9	10			632			
10	0		99	633			
11							
12							
bucket							

[illegible]

VESSEL		CRUISE ID		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION																									
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC				CPS																									
CONSC		LATITUDE		LONGITUDE		DATE JD-		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
CAST #		DEG MIN		DEG MIN		DAY MO YR		HR MIN		(°C)		(°C)		(mb)		*		*		(deg)		(m/s)		*		*		(m)					
635849		23 N		15052.83 W		7 Oct 04		1257		9.0				9.4						349		12						192					
Local Date & Time = 06 Oct 04																																	
SBE 9+ _____ TIMES _____ JD/TIME _____																																	
PRESS SN _____ DATA ON _____																																	
PRI TEMP SN _____ START DOWN _____ 1254																																	
SEC TEMP SN _____ AT DEPTH _____ 1257																																	
PRI COND SN _____ AT SURFACE _____																																	
SEC COND SN _____ PAR S/N _____ FLUOR S/N _____																																	
SAMPLE COMMENTS:																																	
FIRID		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER																			
SEQ.		DESIRED																															
1		182						643																									
2		150						644																									
3		100						645																									
4		75				101		646																									
5		50						647																									
6		30						648																									
7		20						649																									
8		10						650																									
9		0						651																									
10																																	
11																																	
12																																	
bucket																																	

56-64

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOCI/ GLOBEC		DSD8 I.D.		STATION DESIGNATION CPLC 03610 3613																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
645845.02 N		15052.05 W		7047014		1344		9.3		.1		94		349		13		128															
SBE 9+		TIMES		JD/TIME																													
PRESS SN		DATA ON		1338																													
PRI TEMP SN		START DOWN		1344																													
SEC TEMP SN		AT DEPTH																															
PRI COND SN		AT SURFACE																															
SEC COND SN		PAR S/N		FLUOR S/N																													
FIRED		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.		CHL. VOL.		OTHER																			
SEQ.		DESIRED																															
1		180						652																									
2		—																															
3		150						653																									
4		100						654																									
5		75						655																									
6		50						656																									
7		30						657																									
8		20						658																									
9		10						659																									
10		0						102		660		1																					
11																																	
12																																	
bucket																																	

REMARKS
Cast was
accidentally
water over
MAX. DEPTH = m

che

[illegible]

VESSEL		CRUISE ID		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION																									
R/V Maurice Ewing		EWO409		FOCI/ GLOBEC				04C671A C-Medea																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD-		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
DEG MIN		DEG MIN		DAY MO YR		HR MIN		(°C) (°C)		(mb)		*		(deg)		(m/s)		*		*		*		(m)									
665907.68 N		14845.77 W		8 OCT 04		0714		9.9		9.7				2914										150									
Local Date & Time - 08 OCT 04																																	
SBE 9+ TIMES JD/TIME																																	
PRESS SN DATA ON 0709																																	
PRI TEMP SN START DOWN 0714																																	
SEC TEMP SN AT DEPTH																																	
PRI COND SN AT SURFACE																																	
SEC COND SN PAR S/N FLUOR S/N																																	
SAMPLE COMMENTS:																																	
FIRE DEPTH ROSETTE POSITION SALT NUTRIENTS CHL. Bot. no. CHL. VOL. OTHER																																	
SEQ. DESIRED																																	
1 142 104 670																																	
2 186 671																																	
3 100 672																																	
4 75 673																																	
5 90 674																																	
6 30 675																																	
7 20 676																																	
8 10 677																																	
9 0 678 ✓																																	
10																																	
11																																	
12																																	
bucket																																	

VESSEL R/V Maurice Ewing		CRUISE ID EWD0409		PROJECT & LEG FOCI/ GLOBEC		DSOB I.D.		STATION DESIGNATION 04 6130-5A																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD-		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
6759		2.41 N		14841.60 W		804704		0818		10.1		.		99						4116		16								206			
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		(°C)		(°C)		(mb)		*		*		*		(m)			
Local Date & Time =																																	
SBE 9+		TIMES		JD/TIME																													
PRESS SN		DATA ON																															
PRI TEMP SN		START DOWN																															
SEC TEMP SN		AT DEPTH																															
PRI COND SN		AT SURFACE																															
SEC COND SN		PAR S/N		FLUOR S/N																													
FIRED		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Boc. no.		CHL. VOL.		OTHER																			
SEQ.		DESIRED				105		679																									
1		195																															
2																																	
3		150				105		680																									
4		100				105		681																									
5		75						682																									
6		50						683																									
7		30						684																									
8		20						685																									
9		10						686																									
10		0						687																									
11																																	
12																																	
bucket																																	

Shooped at 35m
correct wire

REMARKS
MAX. DEPTH = m

SAMPLE BOTTLE NUMBER
SAMPLE COMMENTS:

[illegible]

VESSEL R/V Maurice Ewing		CRUISE ID EWO409		PROJECT & LEG FOC/ GL OREC		DSDB I.D.		STATION DESIGNATION			
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD-		TIME (GMT)		1507 GMT	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	
69	59	30	99	N	14	9	10	02	W	9	04
Local Date & Time		06/01/04		06/01/04		06/01/04		06/01/04		06/01/04	
SBE 9+		TIMES		JD/TIME		REMARKS					
PRESS SN		DATA ON									
PRI TEMP SN		START DOWN									
SEC TEMP SN		AT DEPTH									
PRI COND SN		AT SURFACE									
SEC COND SN		PAR S/N		FLUOR S/N							
FIRE		DEPTH		ROSETTE POSITION		SALT		NUTRIENTS		CHL. Bot. no.	
SEQ.		DESIRED				JD/TIME				CHL. VOL.	
1		205				907		697			
2		150						698			
3		100						699			
4		75						700			
5		50						701			
6		30						702			
7		20						703			
8		10						704			
9		0						705			
10											
11											
12											
bucket											