

CONSECUTIVE CAST #	LATITUDE	LONGITUDE	DATE	TIME	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND	DIRECTION	WIND SPEED	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
001	54.12.63 N	166.32.66 W	23 SEP 10	0812	8.8	7.9	85			110	110					1230	

SBE 9+ 92067 DATA ON START DOWN AT DEPTH AT SURFACE  
 PRESS SN 92067 DATE ON START DOWN AT DEPTH AT SURFACE  
 PRI TEMP SN 884  
 SEC TEMP SN 889  
 PRI COND SN 535  
 SEC COND SN 530  
 CTD CONVERTED MONITOR VALUES  
 Pri DO S/N: 910 Sec DO S/N: 904 PAR S/N: 4603 WETSar S/N: 742  
 MAX. DEPTH (m) 1000 db  
 DATA LOCATION: Tape/Diskette ID File Name/Header  
 REMARKS: Deep cast for NH<sub>4</sub> & Nuts for  
 Cleaned air bleed valve  
 Fluorometer removed

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE	SAMPLE BOTTLE NUMBER	WHITT'S NUTR
1	1000	1001			82.2	744	D1, D2, D3	
2	750	751					D4, D5, D6	
3	500	500				197	D7, D8, D9	
4	250	250				239	D10	
5	100	100				208	D11	
6	75	74					D12	
7	50	50				178	D13	
8	30	31					D14	
9	20	20					D15	
10	10	11				242	D16	
11	0	2					D17	
12								



SBE 9+ 92067 DATA ON DATE 10 SEP 2004 TIME 10:24:48 GMT 7:5 °C 7:3 °C PRESSURE 00 mb SEA STATE VISIBILITY WIND 355 deg DIRECTION 19 knts WIND SPEED CLOUD (amt) TYPE WEATHER BOTTOM DEPTH 710 STATION NAME/ID

CONSECUTIVE CAST # DEG MIN DEG MIN DAY MO YR HR MIN °C °C mb deg knts

003 57 51.17 N 168 52.19 W 24 SEP 10 2004 7:5 7:3 00 355 19

DEG MIN DEG MIN DAY MO YR HR MIN °C °C mb deg knts

92067 92067 984 889 535 530

START DOWN AT DEPTH AT SURFACE

DATA LOCATION Tape/Diskette ID File Name/Header

Sec DO S/N 910 Sec DO S/N 904 PAR S/N 4603 WET Star S/N 742

CTD CONVERTED MONITOR VALUES

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S NUTR
1	31						285			
2	31						283			
3	31						289			
4	31						287			
5	13						288			
6	13						283			
7	13									
8										
9										
10										
11										
12										

REMARKS: 10 min NO NUTRIENTS

VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D.: STATION DESIGNATION: 718 strabocannolis

SBE 9+ PRESS SN: 92067 DATA ON: \_\_\_\_\_ DATE: SEP 10 18 15 5.7 7.9 1.9 008 1.2 7.2

PRI TEMP SN: 884 START DOWN: \_\_\_\_\_ AT DEPTH: \_\_\_\_\_ AT SURFACE: \_\_\_\_\_

SEC TEMP SN: 889 AT SURFACE: \_\_\_\_\_

PRI COND SN: 535 AT SURFACE: \_\_\_\_\_

SEC COND SN: 530 AT SURFACE: \_\_\_\_\_

CTD CONVERTED MONITOR VALUES:  Pri DO S/N: 910  Sec DO S/N: 904  PAR S/N: 4603  WET Star S/N: 742

DATA LOCATION: File Name/Header: CTD004

REMARKS: 4.2°C 1st of 2 pre recovery CTDs at BS-5 10 min

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S NUTR	SAMPLE BOTTLE NUMBER	SAMPLE BOTTLE	DATA
1	Bot						B30						
2	50							120	1283				
3	90							121	1283				
4	30							122	1277				
5	24							125	1285				
6	24							128	1283				
7	24							128	1289				
8	26							123	1281	1.2.3			
9	16							124	1285				
10	0							125	1283	2.2.3			
11													
12													

VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D. STATION DESIGNATION

CONSECUTIVE CAST #: 005595449N

LATITUDE: 34° 49' N LONGITUDE: 171° 41' 60" W DATE: SEP 1 00 06 51 1985  
 TIME: 1851 probably DRY BULB: 5.9 °C WET BULB: 7.9 °C  
 PRESSURE: 19.48 mb SEA STATE: 8 VISIBILITY: 8 WIND: 43 deg DIRECTION: 188 WIND SPEED: 188 kn'ts  
 CLOUD (amt): TYPE: WEATHER: BOTTOM DEPTH: 71 STATION NAME / ID:

SBE 9+ PRESS SN: 92067 DATA ON: START DOWN: AT DEPTH: AT SURFACE: DATA LOCATION: File Name/Header: CT9065  
 PRI TEMP SN: 884 SEC TEMP SN: 889 PRI COND SN: 535 SEC COND SN: 530  
 CTD CONVERTED MONITOR VALUES: Sec DO S/N: 904 PAR S/N: 4603 WET Star S/N: 742  
 REMARKS: 2nd of 2 pre recovery CTDs of 85-5  
 Cleaned air bleed valve MAX. DEPTH (m):

*note 30 m/min this cast  
 see Thermocline trace*

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S NUTR
1	19									4,56
2	18								1285	7,89
3	18								1283	
4	18								1289	
5	11.5								1287	
6	11.5								1288	
7	11.5								1283	
8	0									
9										
10										
11										
12										



VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D. STATION DESIGNATION

CONSECUTIVE CAST #

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY deg	DIRECTION	WIND SPEED kn'ts	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID	
00	76	21	11	52	N	17	11	29	10	19	53	3.6	49	15	355	13			714	

SBE 9+ 92067 DATA ON TIMES  
 PRESS SN 92067 START DOWN  
 PRI TEMP SN 884 AT DEPTH  
 SEC TEMP SN 889 AT SURFACE  
 PRI COND SN 535 AT SURFACE  
 SEC COND SN 530 AT SURFACE

DATA LOCATION: Tape/Diskette ID File Name/Header  
 DATA DO S/N: 910 Sec DO S/N: 904 PAR S/N: 4603 WETStar S/N: 742  
 MAX. DEPTH (m)  WETStar S/N: 742

CTD CONVERTED MONITOR VALUES

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S NUTR	SAMPLE BOTTLE NUMBER	SAMPLE BOTTLE DATA	
												SALINITY	DATA
1	Bot												
2	50												
3	40												
4	30												
5	20												
6	10												
7	0												
8													
9													
10													
11													
12													

REMARKS: 0.2°C RECOVERYS 10 m/min  
 Cleaned air bleed valve





VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D.: STATION DESIGNATION:

CONSECUTIVE CAST #: DATE: SEP 1 0 03 21 GMT: 219 °C BULB WET: 56.1 °C BULB PRESSURE: 1558.35 mb SEA STATE: VISIBILITY: WIND: deg DIRECTION: WIND SPEED: kn'ts CLOUD (amt): TYPE: WEATHER: BOTTOM DEPTH: 74 STATION NAME / ID:

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb	deg	kn'ts				
00	96	20	21	30	SEP	10	03	21	21.9	56.1	1558.35						74

SBE 9+ 92067 DATA ON \_\_\_\_\_ DATA LOCATION File Name/Header: CTD009 01°C  
 PRESS SN 92067 START DOWN \_\_\_\_\_  
 PRI TEMP SN 884 AT DEPTH \_\_\_\_\_  
 SEC TEMP SN 889 AT SURFACE \_\_\_\_\_  
 PRI COND SN 535  
 SEC COND SN 530  
 P/H DO S/N: 910  Sec DO S/N: 904  PAR S/N: 4603  WETStar S/N: 742  
 Cleaned air bleed valve MAX. DEPTH (m): 67

CTD CONVERTED MONITOR VALUES

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S NUTR	SAMPLE BOTTLE NUMBER
1	Bot							33		0.2	
2	50							34	285		
3	40							35	283		
4	30							36	283		
5	20							37	283		
6	10							38	283		
7	0							39	283	0.60	
8										2.22	
9											
10											
11											
12											



VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D.: STATION DESIGNATION:

SBE 9+ PRESS SN 92067 DATA ON \_\_\_\_\_ DATE \_\_\_\_\_ TIME \_\_\_\_\_ DRY BULB \_\_\_\_\_ WET BULB \_\_\_\_\_ PRESSURE \_\_\_\_\_ SEA STATE \_\_\_\_\_ VISIBILITY \_\_\_\_\_ WIND \_\_\_\_\_ DIRECTION \_\_\_\_\_ WIND SPEED \_\_\_\_\_ CLOUD (amt) \_\_\_\_\_ WEATHER \_\_\_\_\_ BOTTOM DEPTH \_\_\_\_\_ STATION NAME / ID \_\_\_\_\_

PRI TEMP SN 884 START DOWN \_\_\_\_\_ AT DEPTH \_\_\_\_\_ AT SURFACE \_\_\_\_\_

SEC TEMP SN 889 AT SURFACE \_\_\_\_\_

PRI COND SN 535 AT SURFACE \_\_\_\_\_

SEC COND SN 530 AT SURFACE \_\_\_\_\_

CTD CONVERTED MONITOR VALUES: Pri DO S/N: 910 Sec DO S/N: 904 PAR S/N: 4603 WETStar S/N: 742

DATA LOCATION: Tape/Diskette ID \_\_\_\_\_ File Name/Header: CTDG11

REMARKS: 0.3°C MAX. DEPTH (m) 65 Cleaned air bleed valve

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S NUTR	SAMPLE BOTTLE NUMBER
1	Bot							47			
2	50							48	285		
3	40							49	283		
4	30							50	283		
5	20						B35	51	283		
6	10							52	283		
7	0							53	283		
8											
9											
10											
11											
12											

VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D.: STATION DESIGNATION: 70M50

CONSECUTIVE CAST #	LATITUDE	LONGITUDE	DATE	TIME	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND	DIRECTION	WIND SPEED	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STATION NAME / ID
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1	26	129.64	17	34	30	SEP	10	08	26	21.3	72	14	0	35	10	714
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SBE 9+ 92067 DATA ON START DOWN AT DEPTH AT SURFACE  
 PRESS SN 92067  
 PRI TEMP SN 884  
 SEC TEMP SN 889  
 PRI COND SN 535  
 SEC COND SN 530

DATA LOCATION: File Name/Header: CTD 012  
 Tape/Diskette ID: 0.6°C

REMARKS: 70 m lower 10 m pressure

CTD CONVERTED MONITOR VALUES  
 Pri DO S/N: 910  
 Sec DO S/N: 904  
 PAR S/N: 4603  
 WET Star S/N: 742  
 Cleaned air bleed valve  
 MAX. DEPTH (m)

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
						SALINITY	SAL	NUTR	CHL	WHIT'S NUTR		
1	Bot						834	54	55	285		
2	50							56	57	283		
3	40							57	58	283		
4	30							59	59	283		
5	20							60	60	283		
6	10											
7	0											
8												
9												
10												
11												
12												

05  
24  
123

VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D.: STATION DESIGNATION: 70M49

CONSECUTIVE CAST #	14.73		- from leg -		42.61		DATE	TIME	GMT	HR	MIN	BULB	°C	°C	PRESSURE	SEA STATE	VISIBILITY	WIND	deg	DIRECTION	WIND SPEED	knts	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
	DEG	MIN	DEG	MIN	DAY	MO	YR							mb													
	01	26	14	17	30	S	E	P	10	10	02	3.2	6.0	14				010		15					71		

SBE 9+ 92067 DATA ON START DOWN AT SURFACE  
 PRESS SN 92067  
 PRI TEMP SN 884  
 SEC TEMP SN 889  
 PRI COND SN 535  
 SEC COND SN 530

DATA LOCATION: Tape/Diskette ID File Name/Header  
 CTD CONVERTED MONITOR VALUES: Pri DO S/N: 910 Sec DO S/N: 904 PAR S/N: 4603 WETS Star S/N: 742  
 Cleaned air bleed valve  
 MAX. DEPTH (m)  WETS Star S/N

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S	SAMPLE BOTTLE	SAMPLE BOTTLE NUMBER
12												
11												
10												
9												
8												
7	0											
6	10											
5	20											
4	30											
3	40											
2	50											
1	60											

REMARKS: 10 m/min



VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D.: STATION DESIGNATION: 70046

CONSECUTIVE CAST #	LATITUDE	LONGITUDE	DATE	TIME GMT	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND deg	DIRECTION	WIND SPEED knts	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
01560	45.71N	133.42W	30 SEP 10	1325	3.3	7.0	12			335	21				72	

SBE 9+ 92067 DATA ON START DOWN AT DEPTH AT SURFACE  
 PRESS SN 92067  
 PRI TEMP SN 884  
 SEC TEMP SN 889  
 PRI COND SN 535  
 SEC COND SN 530

DATA LOCATION: Tape/Diskette ID File Name/Header  
 PAR S/N 4603  
 WETStar S/N 742  
 Cleaned air bleed valve  
 MAX. DEPTH (m)

CTD CONVERTED MONITOR VALUES

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S NUTR	SAMPLE BOTTLE	SAMPLE BOTTLE NUMBER	DATA	
1	0 depth										B40	75		
2	50							76	285					
3	40							77	282					
4	30							78	282					
5	20							79	282					
6	10							80	283					
7	0							81	283					
8														
9														
10														
11														
12														

10 on/in

CONSECUTIVE CAST #

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	GMT	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND deg	DIRECTION	WIND SPEED knt's	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STATION NAME / ID
01	66	02	54	25	SEP	10	15	29	3.5	5.5	12				340	16				64	

SBE 9+ 92067 DATA ON START DOWN AT DEPTH AT SURFACE  
 PRESS SN 92067  
 PRI TEMP SN 884  
 SEC TEMP SN 889  
 PRI COND SN 535  
 SEC COND SN 530

DATE LOCATION: 10/15/29  
 Tape/Diskette ID: 0.5°C  
 File Name/Header: 10 m/min

CTD CONVERTED MONITOR VALUES  
 Pri DO S/N: 910  
 Sec DO S/N: 904  
 PAR S/N: 4603  
 WET Star S/N: 742  
 MAX. DEPTH (m)  
 Cleaned air bleed valve

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S NUTR	SAMPLE BOTTLE NUMBER
10	10						841	82			
2	20							83	285		
3	40							84	283		
4	30							85	283		
5	20							86	283		
6	10							87	283		
7	0							88	283		
8											
9											
10											
11											
12											















VESSEL		PROJECT & LEG		COD I.D.		STATION DESIGNATION																
NOAA Ship MILLER FREEMAN		MF-10-06				70 m Line																
CONSECUTIVE CAST #	LATITUDE		LONGITUDE		DATE		TIME		DRY BULB		WET BULB		PRESSURE	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	°C										
23	59	35.92	N	170	55.04	W	01	SEP	10	06	17		074	8	355		16	6			71	
SBE 9+	92067		TIMES		DATA LOCATION		File Name/Header		13°C													
PRESS SN	92067		DATA ON		Tape/Diskette ID		CTD 023															
PRI TEMP SN	884		START DOWN																			
SEC TEMP SN	889		AT DEPTH																			
PRI COND SN	535		AT SURFACE																			
SEC COND SN	530																					
			<input checked="" type="checkbox"/> Pri DO S/N: 910		<input checked="" type="checkbox"/> Sec DO S/N: 904		<input checked="" type="checkbox"/> PAR S/N: 4603		<input checked="" type="checkbox"/> WET Star S/N: 742													
CTD CONVERTED MONITOR VALUES																						
POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER											
							SAL	NUTR	CHL	WHIT'S	SAL	NUTR	CHL	WHIT'S								
1	BOT						131															
2	50						132															
3	40						133															
4	30						134															
5	20						135															
6	10						136															
7	0						137															
8																						
9																						
10																						
11																						
12																						

No Surface bottle

B45 02

227/058







VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D.: STATION DESIGNATION: 70M29

CONSECUTIVE CAST #	LATITUDE		LONGITUDE		DATE			TIME		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND	DIRECTION	WIND SPEED	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STATION NAME / ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb			deg	knt's					
02	15	57.10	170	19.40	01	05	10	11	19	3.5	5.5	0.5			340	20				70	
SBE 9+ 92067 DATA ON _____ TIMES _____ DATA LOCATION _____ PRESS SN 92067 START DOWN _____ Tape/Diskette ID _____ File Name/Header _____ PRI TEMP SN 884 AT DEPTH _____ SEC TEMP SN 889 AT SURFACE _____ PRI COND SN 535 AT SURFACE _____ SEC COND SN 530 AT SURFACE _____ <input checked="" type="checkbox"/> Pri DO S/N: 910 <input checked="" type="checkbox"/> Sec DO S/N: 904 <input checked="" type="checkbox"/> PAR S/N: 4603 <input type="checkbox"/> MAX. DEPTH (m) _____ <input checked="" type="checkbox"/> WET Star S/N: 742 <input type="checkbox"/> Cleaned air bleed valve _____																					

CTD CONVERTED MONITOR VALUES

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAMPLE BOTTLE	SAMPLE BOTTLE NUMBER	SAL	NUTR	CHL	WHIT'S NUTR
	10 depth								72	152	285	
2	50								152	285		
3	40								154	283		
4	30								155	282		
5	20								156	283		
6	10								157	283		
7	0								158	282		
8												
9												
10												
11												
12												

10 m/min

VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D.: STATION DESIGNATION: 70M28

CONSECUTIVE CAST #: 275847 DEGREE MIN DEGREE MIN DATE: 10 SEP 10 1233 TIME: 11:00

LATITUDE: 27 58 47.0 N LONGITUDE: 170 17 54 W DAY: 01 MONTH: 09 YEAR: 10

DRY BULB: 11.0 °C WET BULB: 8.8 °C PRESSURE: 1014 mb

SEA STATE: 04 VISIBILITY: 335 deg WIND DIRECTION: 20 knt's

REMARKS: Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES: Pri DO S/N: 910 Sec DO S/N: 904 PAR S/N: 4603 WET Star S/N: 742

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S NUTR	SAMPLE BOTTLE NUMBER
1 @ depth	50						81	159			
2	40							160	285		
3	30							161	283		
4	20							162	283		
5	10							163	283		
6	0							164	283		
7								165	283		
8											
9											
10											
11											
12											

CONSECUTIVE CAST #	LATITUDE	LONGITUDE	DATE	TIME GMT	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND deg	DIRECTION	WIND SPEED kn'ts	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STATION NAME / ID
2858	26.93 N	170.10.78 W	01 SEPT	101439	3.5	5.6	0.3			330		23			Usec 71	

SBE 9+ 92067 DATA ON \_\_\_\_\_ DATA LOCATION \_\_\_\_\_  
 PRESS SN 92067 START DOWN \_\_\_\_\_  
 PRI TEMP SN 884 AT DEPTH \_\_\_\_\_  
 SEC TEMP SN 889 AT SURFACE \_\_\_\_\_  
 PRI COND SN 535  
 SEC COND SN 530  
 P/TI DO S/N: 910 P/Sec DO S/N 904 P/PAR S/N 4603  
 WETStar S/N 742  
 MAX. DEPTH (m) \_\_\_\_\_  
 Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	SAL	NUTR	CHL	WHIT'S NUTR
1	0 depth								28	166		
2	50								167	285		
3	410								168	283		
4	300								169	283		
5	200								170	283		
6	100								171	283		
7	0								172	283		
8												
9												
10												
11												
12												



VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D.: STATION DESIGNATION: 70M23

SBE 9+ PRESS SN: 92067 DATA ON: START DOWN: AT SURFACE: AT DO S/N: 910 Sec DO S/N: 904 PAR S/N: 4603 WETSar S/N: 742

CONSECUTIVE CAST #: 305802.86N 16938.98W 01 SEP 10 17 05 GMT 1754 DRY BULB: 3.5 WET BULB: 3.5 PRESSURE: 01 SEA STATE: 01 WIND: 315 25 CLOUD (amt): 70 WEATHER: FB

DATE: 01 SEP 10 17 05 GMT 1754 DRY BULB: 3.5 WET BULB: 3.5 PRESSURE: 01 SEA STATE: 01 WIND: 315 25 CLOUD (amt): 70 WEATHER: FB

DATA LOCATION: File Name/Header: COND BITE REMARKS: CLEANED AIR BLEED VALVE

CTD CONVERTED MONITOR VALUES: MAX. DEPTH (m): WETSar S/N: 742

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S
10 depth	50						94	180		
3	40							182	283	
4	30							183	283	
5	20							184	283	
6	10							185	283	
7	0							186	283	
8										
9										
10										
11										
12										

VESSEL: NOAA Ship MILLER FREEMAN  
 PROJECT & LEG: MF-10-06  
 COD I.D.:  
 STATION DESIGNATION: FOM 23

CONSECUTIVE CAST #	LATITUDE		LONGITUDE		DATE			TIME GMT	DRY BULB °C	<del>WET BULB</del> °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND deg	DIRECTION	WIND SPEED knt's	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
315803	03	04	169	39	60	01	0855	101855	3.6	6.6	00			315	23				710	

SBE 9+ 92067  
 PRESS SN 92067  
 PRI TEMP SN 884  
 SEC TEMP SN 889  
 PRI COND SN 535  
 SEC COND SN 530

DATA ON START DOWN AT DEPTH AT SURFACE  
 DATA LOCATION File Name/Header

CTD CONVERTED MONITOR VALUES  
 Pri DO S/N: 910  
 Sec DO S/N: 904  
 PAR S/N: 4603  
 WETS/S/N: 742

REMARKS: 1.3°C  
 RE-DO OF CTD030 (WHICH HAD 4  
 FOULED/COND CELLS)  
 3 AND AFTER TRITON-X

Cleaned air bleed valve  
 MAX. DEPTH (m)

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER										
						SALINITY	SAL	NUTR	CHL		WHIT'S NUTR									
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

NO SAMPLES

VESSEL

NOAA Ship MILLER FREEMAN

PROJECT & LEG

MF-10-06

COD I.D.

STATION DESIGNATION

700022

CONSECUTIVE CAST #	LATITUDE		LONGITUDE		DATE		TIME		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND	DIRECTION	WIND SPEED	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STATION NAME / ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb			deg	knts				
032	57	58.53	169	21.34	01	SEP	10	20	12	31.0	7.1	0058	320	25	4				68	

SBE 9+ 92067

PRESS SN 92067

PRI TEMP SN 884

SEC TEMP SN 889

PRI COND SN 535

SEC COND SN 530

DATA LOCATION

File Name/Header 032

Tape/Diskette ID CTD 032

REMARKS

Multiple nuts for Proctor freeze experiment

Cleaned air bleed valve

MAX. DEPTH (m) 62 m

WETS/S/N 742

PAR/S/N 4603

Sec DO S/N 904

Pri DO S/N: 910

CTD CONVERTED MONITOR VALUES

POSITION	TRIP	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S
	DEPTH									
	rel depth							187		
2	50							188	285	
3	40							189	283	
4	30							1	283	
5	20							2	283	
6	10							77	3	283
7	0							4	4	283
8										
9										
10										
11										
12										

BSY pins



VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D.: STATION DESIGNATION: 70m line A20

CONSECUTIVE CAST #	LATITUDE	LONGITUDE	DATE	TIME GMT	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND deg	DIRECTION	WIND SPEED knts	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STATION NAME / ID
0335747	914 N	16851.61 W	01 SEP 10	2224	41.6	1.3	985.8	3	16	27	4	71				

SBE 9+ PRESS SN 92067 DATA ON START DOWN TIMES  
 PRI TEMP SN 884 AT DEPTH  
 SEC TEMP SN 889 AT SURFACE  
 PRI COND SN 535 AT SURFACE  
 SEC COND SN 530

DATA LOCATION: File Name/Header: CTD 033  
 Tape/Diskette ID:   
 Cleaned air bleed valve  
 MAX. DEPTH (m): 62  
 WET Star S/N: 742  
 Sec DO S/N: 904  
 PAR S/N: 4603  
 CTD CONVERTED MONITOR VALUES

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHT'S NUTR	SAMPLE BOTTLE NUMBER	SAMPLE BOTTLE	DATA		
													SALINITY	DATA	
1	Bot						86	5							
2	50							6	.285						
3	40							7	.283						
4	30							8	.283						
5	20							9	.283						
6	10							10	.283						
7	0							11	.283						
8															
9															
10															
11															
12															

Brackling 011 CTD line to search for missing 9BS-48

VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D.: STATION DESIGNATION:

CONSECUTIVE CAST #: 345651.60N 16403.56W 04 05 10 17 48 3.8 9.692 005 7 72

LATITUDE: 345651.60N LONGITUDE: 16403.56W DATE: 04 05 10 17 48 GMT: 3.8 DRY BULB: 3.8 WET BULB: 9.692 PRESSURE: 005 mb SEA STATE: 7 WIND: 7 deg DIRECTION: 7 knts WIND SPEED: 7 knts CLOUD (amt): 7 TYPE: 7 WEATHER: 7 BOTTOM DEPTH: 72 STATION NAME/ID: 72

SBE 9+ 92067 DATA ON START DOWN AT DEPTH AT SURFACE  
 PRESS SN 92067 DATA LOCATION 3.5°C  
 PRI TEMP SN 884 Tape/Diskette ID File Name/Header  
 SEC TEMP SN 889 AT SURFACE  
 PRI COND SN 535 AT SURFACE  
 SEC COND SN 530 AT SURFACE  
 Pri DO S/N: 910  Sec DO S/N: 904  PAR S/N: 4603  WETSar S/N: 742  
 CTD CONVERTED MONITOR VALUES

POSITION	TRIP	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAL	NUTR	CHL	WHIT'S NUTR
	DEPTH								
1	61					73	.12		1417
2									18
3	50						.13	.283	
4	40						.14	.283	
5	30						.15	.285	
6	24.5							.287	
7	24.5							.288	
8	24.5							.289	
9	20						.16	.277	
10	12						.17		13,14
11	0						.18	.283	15
12									

REMARKS: poor to recoveries of moorings @ site a 1 of 2 10 ml/min  
 Cleaned air bleed valve  
 MAX. DEPTH (m):  
 WETSar S/N: 742

FL 12  
 12.5  
 24.5  
 18  
 N1  
 12  
 61



BIG <sup>700</sup> SPRING @ 244m

VESSEL: NOAA Ship MILLER FREEMAN PROJECT & LEG: MF-10-06 COD I.D. STATION DESIGNATION

CONSECUTIVE CAST #

DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	BULB	°C	°C	mb	deg	knts	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
03	51	164	03	05	08	10	03	52	4.5	4.5	914	025	14					72	

LATITUDE: 03 51.66 N  
 LONGITUDE: 164 03.78 W  
 DATE: 05 08 10  
 TIME GMT: 03 52  
 DRY BULB: 4.5 °C  
 WET BULB: 4.5 °C  
 PRESSURE: 914 mb  
 SEA STATE: 025 deg  
 DIRECTION: 14 knts  
 WIND SPEED: 14 knts  
 CLOUD (amt):  
 TYPE:  
 WEATHER:  
 BOTTOM DEPTH: 72  
 STATION NAME / ID:

SBE 9+ 92067 DATA ON START DOWN AT DEPTH AT SURFACE  
 PRESS SN 92067  
 PRI TEMP SN 884  
 SEC TEMP SN 889  
 PRI COND SN 535  
 SEC COND SN 530  
 DATA LOCATION: Tape/Diskette ID File Name/Header  
 PAR S/N 4603  
 WETS/S/N 742  
 MAX. DEPTH (m)  
 Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY DATA	SAL	NUTR	CHL	WHITT'S NUTR
1	Depth						82	19		19/20
2	61									
3	50							20	.283	
4	40							21	.283	
5	33								.283	
6	33								.285	
7	33								.287	
8	30							22	.288	
9	20							23	.289	
10	10							24	.287*	
11	0							25	.283	
12										

SAMPLE BOTTLE NUMBER AFTER DEPLOYMENT OF MOORINGS @ SITE 2  
 1062

E 11,33  
N 13.5, 41

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF09-04, leg 2		STATION DESIGNATION															
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	REL HUM (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN (deg)	WIND SPD. (knts)	CLOUD (amt) *	WEATHER *	BOTTOM DEPTH (m)	STA. NAME/ID				
037	56 51.65 N	164 03.74 W	05 OCT 09	04 24	4.6	91.2	29.4	2	0113	12	6	rd		92					
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS											
TYPE & SN		9+ S/N 2067		DATA ON		Tape/Diskette ID		4.4°C File Name/Header		AFTER DEPTH OF MOORINGS SITE 2									
PRESS SN		2067		START DOWN		MF09-04 leg 2		CTD 037		2 OF 2									
PRI COND SN		993 535		AT DEPTH		MF09-04				MAX. DEPTH = m									
PRI TEMP SN		710 984		AT SURFACE															
SEC COND SN		566 530																	
SEC TEMP SN		884 889																	
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLER BOTTLE DATA		SAMPLER BOTTLE NUMBER		Cleansed air bleed valve									
		pH		DK		DOC		TOC		SALINITY		SAL.		MORDY's NUTR.		CHL.		WHIT's NUTR.	
1	13.5																		
2	11																		
3	11																		
4	11																		
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

02  
147.22



