



VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																	
NOAA Ship MILLER FREEMAN		ME500 #05																					
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)		(deg)	(m/s)	*	*	(m)					
4255	11	10	N	161	40	19	5	20	13	32	2.5	4.5	84	Z	7	0	19	Z	6	*#1	94	KTD02	
SBE 9+	91660				JD/TIME				DATA LOCATION														
PRESS SN	29772		DATA ON						Tape/Diskette ID File Name/Header														
PRI TEMP SN	889		START DOWN																				
SEC TEMP SN	884		AT DEPTH																				
PRI COND SN	303		AT SURFACE																				
SEC COND SN	530								<input checked="" type="checkbox"/> FLUOR S/N 153 <input checked="" type="checkbox"/> CHIAM S/N 109 <input type="checkbox"/> PAR S/N 4242														
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER									
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT'S NUTR.							
1																21							
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Cleaned air bleed valve

MAX. DEPTH = 91 m



VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION										
NOAA Ship MILLER FREEMAN		MF-00-05														
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
45422.64 N	165 16.54 W	21	APR 00	0453	1.5	2.0	0.9	4.6	250	12387					171CTD04	
SBE 9+	91660	TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS				
PRESS SN	29772	DATA ON														
PRI TEMP SN	889	START DOWN														
SEC TEMP SN	884	AT DEPTH														
PRI COND SN	303	AT SURFACE														
SEC COND SN	530	PAR S/N 4242														
POS. TRIP DEPTH		FLUOR S/N 153														
		CTD CONVERTED MONITOR VALUES														
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA		SALINITY		SALINITY		SAL.	NUTR.	CHL.	WHIT'S NUTR.	
1												35				
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

max w/o = 162

Cleaned air bleed valve

MAX. DEPTH = 162 m

CHIAM S/N 109

FLUOR S/N 153

CTD CONVERTED MONITOR VALUES

35



VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION														
NOAA Ship MILLER FREEMAN		MF0005																		
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR										MIN	(mb)	(m/s)
446	54	26.55	N	164	59.14	W	21	APR	00	08	14	-11	0	0	0	4	43	54	CTD06	
SBE 9+	91660				JD/TIME				Tape/Diskette ID		File Name/Header		REMARKS							
PRESS SN	29772				DATA ON								w/o = 49							
PRI TEMP SN	889				START DOWN								<input checked="" type="checkbox"/> Cleaned air bleed valve							
SEC TEMP SN	884				AT DEPTH								MAX. DEPTH = 49 m							
PRI COND SN	303				AT SURFACE															
SEC COND SN	530				PAR SN 4242		<input type="checkbox"/>		FLUOR SN 153		<input checked="" type="checkbox"/>		CHIAM SN 109							
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SAL.		NUTR.	CHL	WHIT'S NUTR.		
1	49													24						
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																
NOAA Ship MILLER FREEMAN		ME20095																				
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/D		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN	
4075421	15	6	165	55	89	21	APR	00	12	41	0	5	7	0	0	0	8	*	#	1	477	CTD07
SBE 9+	91660				JD/TIME						DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS		max w/o = 462			
PRESS SN	29772				DATA ON																	
PRI TEMP SN	289				START DOWN																	
SEC TEMP SN	284				AT DEPTH																	
PRI COND SN	303				AT SURFACE																	
SEC COND SN	530				PAR SN 4242																	
POS.	TRIP DEPTH				CTD CONVERTED MONITOR VALUES								SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER							
1					PRESSURE		PRI TEMP.		SEC. TEMP		SALINITY		SALINITY		SAL		NUTR.		CHL		WHIT'S NUTR.	
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

Cleaned air bleed valve

MAX. DEPTH = 464 m

FLUOR SN 153

PAR SN 4242

CHIAM SN 109 - N8 -

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA Ship MILLER FREEMAN		MF200-05														
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
485428110N	166011.85W	1419-0.2	APR-00	1419-0.2	1.0955	1.0955	7345	11	11	11	11	11	11	11	547	CTD08
SBE 9+	TIMES	JD/TIME	DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS							
PRESS SN	DATA ON															
PRI TEMP SN	START DOWN															
SEC TEMP SN	AT DEPTH															
PRI COND SN	AT SURFACE															
SEC COND SN	FLUOR S/N 153															
PAR S/N 4242	CTD CONVERTED MONITOR VALUES															
TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SALINITY	SALINITY	SAMPLE BOTTLE DATA #8	SAMPLE BOTTLE NUMBER	SAL	NUTR	CHL	WHIT'S NUTR.			
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

Cleaned air bleed valve

MAX. DEPTH = 501 m

max w/p = 502







VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION														
NOAA Ship MILLER FREEMAN		MF00009																		
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=			TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)			(m/s)			(m)		
0115	43.21	N	164	46.62	W	22	APR	10	0	14	29	-0.8	-0.8	085	72	15	3	48	CTD11	
SBE 9+	91660				JD/TIME					DATA LOCATION										
PRESS SN	29772				DATE ON					Tape/Diskette ID File Name/Header										
PRI TEMP SN	889				START DOWN															
SEC TEMP SN	884				AT DEPTH															
PRI COND SN	303				AT SURFACE															
SEC COND SN	530				PAR SN 4242			FLUOR SN 153		CHIAM SN 109										
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

REMARKS  
w/6 40

Cleaned air bleed valve

MAX. DEPTH = 44 m

VESSEL		PROJECT & LEG		STATION DESIGNATION										
NOAA Ship MILLER FREEMAN		MF200-09		DSDDB I.D.										
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
0125449.16 N	164 53.16 W	22 APR 00	1538	-1.2	-1.2	0957	330	23	863			75	CTD12	
SBE 9+	TIMES	JD/TIME	DATA LOCATION											
PRESS SN	DATA ON	Tape/Diskette ID	File Name/Header											
PRI TEMP SN	START DOWN													
SEC TEMP SN	AT DEPTH													
PRI COND SN	AT SURFACE													
SEC COND SN	PAR SN 4242	FLUOR SN 153	MAX. DEPTH = 68 m											
POS. TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SALINITY		SAL.		NUTR.	CHL	WHIT'S NUTR.
1											07			
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

REMARKS  
w/o 66

Cleaned air bleed valve

VESSEL NOAA Ship MILLER FREEMAN		PROJECT & LEG MF-00-09		DSDB I.D.		STATION DESIGNATION																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD. (m/s)		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
013		54.56.16N		164.58.90W		22 APR 00		1651		-1.8		-1.8		1015		5		7		330		24		867		91		ETD13			
SBE 9+		91660		TIMES		JD/TIME																									
PRESS SN		29772		DATA ON																											
PRI TEMP SN		889		START DOWN																											
SEC TEMP SN		884		AT DEPTH																											
PRI COND SN		303		AT SURFACE																											
SEC COND SN		530		PAR-SAL 4242																											
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		FLUOR SN 153		ChIAM SN 109		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL		WHIT'S NUTR.											
1				PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		04																	
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

REMARKS  
w/o 85

Cleaned air bleed valve

MAX. DEPTH = 83 m

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																						
NOAA Ship MILLER FREEMAN		MF00-05																										
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID								
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN							
014	55	03.00	N	165	05.89	W	22	APR	00	18	04	11.2	1.7	105	7	2	26	2	3	8	6	7	113	CTD14				
SBE 9+	91660				JD/TIME				DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS													
PRESS SN	29772				DATA ON																							
PRI TEMP SN	889				START DOWN																							
SEC TEMP SN	884				AT DEPTH																							
PRI COND SN	303				AT SURFACE																							
SEC COND SN	530				PAR S/N 4242																							
POS.	TRIP DEPTH				CTD CONVERTED MONITOR VALUES																							
1					PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAL		NUTR.		CHL		WHIT'S NUTR.							
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

MAX. DEPTH = 105 m

Cleaned air bleed valve

FLUOR S/N 153

CHIAM S/N 109

PAR S/N 4242

SBE 9+

Cleaned air bleed valve

REMARKS  
Max w/o 106 m

D4

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION														
NOAA Ship MILLER FREEMAN		MF-00-05																		
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN
01556	24	9	12	16	0	23	14	53	3.5	3.5	12.4	7	3	30	12	8	7	2	26	CTD15
SBE 9+	91660				JD/TIME				DATA LOCATION						REMARKS					
PRESS SN	29772				Tape/Diskette ID				File Name/Header											
PRI TEMP SN	889				START DOWN															
SEC TEMP SN	884				AT DEPTH															
PRI COND SN	303				AT SURFACE															
SEC COND SN	530				PAR S/N 4242				FLUOR S/N 153		CHIAM S/N 109									
POS. TRIP DEPTH					CTD CONVERTED MONITOR VALUES								SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
1					PRESSURE				PRI. TEMP.				SALINITY		SAL		NUTR		CHL	
2									SEC. TEMP						13					
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

VESSEL NOAA Ship MILLER FREEMAN		PROJECT & LEG MF00-05			DSD8 I.D.				STATION DESIGNATION										
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= 114 MO YR			TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
0116	5624.94N	16613.36W	23	APR	10	07	30	41.0	4	013	7	29	16	07	873	26	CTD16		
SBE 9+		TIMES		JD/TIME		DATA LOCATION													
PRESS SN		DATA ON		Tape/Diskette ID		File Name/Header													
PRI TEMP SN		START DOWN																	
SEC TEMP SN		AT DEPTH																	
PRI COND SN		AT SURFACE																	
SEC COND SN		PAR SN 4242		FLUOR SN 153		CHIAM S/N 109		MAX. DEPTH = 20 m											
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SALINITY		SALINITY		SAL.		NUTR.	CHL.	WHIT'S NUTR.	
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

REMARKS

one salinity  
in bag, KC99-1  
 cleaned air bleed valve

7

17



VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA Ship MILLER FREEMAN		MF0009		DSDB I.D.												
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	
0175	629.75 N	16059.73 W	23 APR 00	2011-03-14	3.1	4.0	1337350	10872	10872	66	CTD17					
SBE 9+	TIMES	JD/TIME	DATA LOCATION		REMARKS											
PRESS SN	DATA ON	Tape/Diskette ID	File Name/Header													
PRI TEMP SN	START DOWN															
SEC TEMP SN	AT DEPTH															
PRI COND SN	AT SURFACE															
SEC COND SN	PAR S/N 4242	<input checked="" type="checkbox"/> FLUOR S/N 153	<input checked="" type="checkbox"/> CHIAM S/N 109													
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL	WHIT'S NUTR.						
2							33									
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

W/S = 63

Cleaned air bleed valve

MAX. DEPTH = 65 m

6220

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION														
NOAA Ship MILLER FREEMAN		ME-00-09																		
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	DRY BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											MIN	
018563	21	03	160	59	23	APR	02	14	11	3.8	4.8	143	73	40	07	87	3	67	CTD18	
SBE 9+	91660		JD/TIME																	
PRESS SN	29772		DATA ON																	
PRI TEMP SN	889		START DOWN																	
SEC TEMP SN	884		AT DEPTH																	
PRI COND SN	303		AT SURFACE																	
SEC COND SN	530		PAR S/N 4242																	
POS.	TRIP DEPTH		CTD CONVERTED MONITOR VALUES		FLUOR S/N 153		CHIAM S/N 109		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL		NUTR.		CHL		WHIT'S NUTR.	
1			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		24							
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

REMARKS  
 4 RPM's - turbidity test  
 Start down 2154p  
 Cleaned air bleed valve  
 MAX. DEPTH = 64 m



VESSEL NOAA Ship MILLER FREEMAN		PROJECT & LEG MF0005				DSDB I.D.		STATION DESIGNATION																			
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
020		5646.03 N		16419.60 W		24 APR 00		0914		-3.0		16370		3		025		09		872		7		75		T020	
SBE 9+		91660		JD/TIME		TAPES/DISKETTE ID		FILE NAME/HEADER		DATA LOCATION		REMARKS															
PRESS SN		29772		DATA ON		Tape/Diskette ID		File Name/Header		DATA LOCATION		REMARKS															
PRI TEMP SN		889		START DOWN																							
SEC TEMP SN		884		AT DEPTH																							
PRI COND SN		303		AT SURFACE																							
SEC COND SN		530		PAR S/N 4242		FLUOR S/N 153		CHIAM S/N 109		MAX. DEPTH = 68 m																	
POS. TRIP DEPTH				CTD CONVERTED MONITOR VALUES																							
				PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SAL.		NUTR.		CHL		WHIT'S NUTR.	
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

25 m/min, 111 m/min  
 sensors not working  
 Cleaned air bleed valve

VESSEL		PROJECT & LEG		STATION DESIGNATION									
NOAA Ship MILLER FREEMAN		MF308-05		DSDB I.D.									
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
0215656.42N	16349.70W	16349.70W	APR 10 01 46	11 46	4.1	4.1	3	70	25	872		71	CTD21
SBE 9+	TIMES	JD/TIME	DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS				
PRESS SN	DATA ON		FLUOR SN 153		ChIAM S/N 109				25 M/VMMVA No. btl file				
PRI TEMP SN	START DOWN		PAR S/N 4242						<input checked="" type="checkbox"/> Cleaned air bleed valve				
SEC TEMP SN	AT DEPTH		CTD CONVERTED MONITOR VALUES						MAX. DEPTH = m				
PRI COND SN	AT SURFACE		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		WHIT'S NUTR.
SEC COND SN			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
POS. TRIP DEPTH			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
1			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
2			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
3			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
4			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
5			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
6			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
7			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
8			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
9			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
10			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
11			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL
12			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL		CHL

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION															
NOAA Ship MILLER FREEMAN		ME0005																			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											MIN		
022	57	00.88	N	164	12.74	W	24	APR	00	1350	3.1	-3.1	737	020	10	872	700	CTD22			
SBE 9+	91660																				
PRESS SN	29772																				
PRI TEMP SN	889																				
SEC TEMP SN	804																				
PRI COND SN	303																				
SEC COND SN	530																				
POS.	TRIP DEPTH	PAR S/N 4242		FLUOR S/N 153		CTD CONVERTED MONITOR VALUES		CHIAM S/N 109		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL		WHIT'S NUTR.	
1												22									
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

REMARKS  
No. 64 file  
 Cleaned air bleed valve  
MAX. DEPTH = m

DATA LOCATION  
Tape/Diskette ID File Name/Header

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER

SAL. NUTR. CHL WHIT'S NUTR.







VESSEL		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION																
NOAA Ship MILLER FREEMAN		MF200505																				
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN		
025	57	50.88	N	168	52.05	W	26	APR	10	00	05	4	-2.9	-2.9	1026	4	7	480	13	862	72CTD25	
SBE 9+	91660				JD/TIME				Tape/Diskette ID		File Name/Header		REMARKS									
PRESS SN	29772		DATA ON																			
PRI TEMP SN	889		START DOWN																			
SEC TEMP SN	884		AT DEPTH																			
PRI COND SN	303		AT SURFACE																			
SEC COND SN	530		PAR S/N 4242																			
POS.	TRIP DEPTH			CTD CONVERTED MONITOR VALUES		FLUOR S/N 153		ChIAM S/N 109		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL		WHIT'S NUTR.		
1	67									SALINITY				209								
2	50									SALINITY												
3	40									SALINITY												
4	30									SALINITY												
5	20									SALINITY												
6	10									SALINITY												
7	0									SALINITY												
8										SALINITY												
9										SALINITY												
10										SALINITY												
11										SALINITY												
12										SALINITY												









VESSEL		PROJECT & LEG		STATION DESIGNATION									
NOAA Ship MILLER FREEMAN		ME200-05											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
03056	12.54N	166.30W	APR 00 2006	2006	0.0	-1.3	4	165	17	8	62	113	CTDDBA
SBE 9+	TIMES	JD/TIME	DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS				
PRESS SN	DATA ON								Max W/O = 108				
PRI TEMP SN	START DOWN								<input type="checkbox"/> Cleaned air bleed valve				
SEC TEMP SN	AT DEPTH								MAX. DEPTH = 100 m				
PRI COND SN	AT SURFACE												
SEC COND SN	PAR S/N 4242												
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES	FLUOR S/N 153	ChIAM S/N 109	SAMPLE BOTTLE DATA								
1	108	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SAL.		NUTR.	CHL	WHIT'S NUTR.
2	75												
3	50												
4	30												
5	20												
6	10												
7	5												
8													
9													
10													
11													
12													

VESSEL		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION																											
NOAA Ship MILLER FREEMAN		MF200505																															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID																
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)	.	.	(m)																	
031	56	19	01	N	16	45	89	W	26	APR	10	02	21	3	0.5	-1.0	22	71	5	0	2	4	8	6	2	1	4	7	C	T	D	3	1
SBE 9+	91660				JD/TIME				Tape/Diskette ID		File Name/Header		REMARKS																				
PRESS SN	29772				DATA ON								Max w/d = 600																				
PRI TEMP SN	889				START DOWN								<input type="checkbox"/> Cleaned air bleed valve																				
SEC TEMP SN	894				AT DEPTH								MAX. DEPTH = 162 m																				
PRI COND SN	303				AT SURFACE																												
SEC COND SN	530				PAR S/N 4242		<input checked="" type="checkbox"/>		FLUOR S/N 153		<input checked="" type="checkbox"/>		CHIAM S/N 109																				
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SAL.	NUTR.	CHL	WHIT'S NUTR.														
1	0 at ✓															09																	
2	75 ✓																																
3	50																																
4	90																																
5	20																																
6	10																																
7	0																																
8																																	
9																																	
10																																	
11																																	
12																																	

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
NOAA Ship MILLER FREEMAN		ME0009															
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WIND DIR	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)			(deg)	(m/s)				(m)		
032560	21.89 N	166.19.80 W	27 APR 00	0442	21.5	1.5	1047	4	7	130	24	862			121	CTD32	
SBE 9+	91660															REMARKS: 114	
PRESS SN	29772																
PRI TEMP SN	889																
SEC TEMP SN	884																
PRI COND SN	303																
SEC COND SN	530																
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		FLUOR S/N 153		PAR S/N 4242		CHIAM S/N 109		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		CLEANED AIR BLEED VALVE		MAX. DEPTH = 120 m	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SAL	NUTR.	CHL	WHIT'S NUTR.			
1	201											X					
2	75											X					
3	50											X					
4	30											X					
5	20											X					
6	10											X					
7	6											X					
8	50											X					
9																	
10																	
11																	
12																	

disagreement between conductivity cells is greatest near the surface



VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION												
NOAA Ship MILLER FREEMAN		MF500-505																
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR										
63255	55.02	N	166.09	9.93	W	27	APR	10	06	50	2.2	11.2	1257	130	32	857	1123	CTDB3
SBE 9+	91660				JD/TIME													
PRESS SN	29772		DATA ON															
PRI TEMP SN	889		START DOWN															
SEC TEMP SN	804		AT DEPTH															
PRI COND SN	303		AT SURFACE															
SEC COND SN	530		PAR S/N 4242															
POS.	TRIP DEPTH		FLUOR S/N 153		ChIAM S/N 109													
1	1705		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL	
2	20		116															
3	60																	
4	50																	
5	30																	
6	10																	
7	0																	
8																		
9																		
10																		
11																		
12																		

Cleaned air bleed valve

MAX. DEPTH = \_\_\_\_\_ m

SAMPLE BOTTLE NUMBER 19

CTD CONVERTED MONITOR VALUES



VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA Ship MILLER FREEMAN		MF-006-09		DSDB I.D.											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0355	22.25 N	168.11 W	27 APR 00	1714	4.8	3.8	1015.6	195	195	195	188	2	KT	544	CTDB35
SBE 9+	TIMES		JD/TIME	DATA LOCATION											
PRESS SN	DATA ON			Tape/Diskette ID File Name/Header											
PRI TEMP SN	START DOWN														
SEC TEMP SN	AT DEPTH														
PRI COND SN	AT SURFACE														
SEC COND SN	PAR S/N 4242	FLUOR S/N 153	CHIAM S/N 109												
POS. TRIP DEPTH	CTD CONVERTED MONITOR VALUES														
	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY
1	500														
2	400														
3	300														
4	200														
5	100														
6	60														
7	30														
8	0														
9															
10															
11															
12															

REMARKS  
W0 = 511M  
 Cleaned air bleed valve  
MAX. DEPTH = 507 m

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																							
NOAA Ship MILLER FREEMAN		MF-00-05				TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE		SEA STATE		WIND DIRN. (deg)		WIND SPD. (m/s)		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID			
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (HR MIN)		DRY BULB (°C)		WET BULB (°C)		PRESSURE		SEA STATE		WIND DIRN. (deg)		WIND SPD. (m/s)		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
0265		21.74N		168.1534W		APR 02 2005		2031		5.0		4.0		999		4721		18		852		852		1648		CTD 136			
SBE 9+		91660				JD/TIME																							
PRESS SN		29772				DATA ON		Tape/Diskette ID		File Name/Header																			
PRI TEMP SN		289				START DOWN																							
SEC TEMP SN		284				AT DEPTH																							
PRI COND SN		303				AT SURFACE																							
SEC COND SN		530				PAR S/N 4242		FLUOR S/N 153		CHIAM S/N 109																			
POS. TRIP DEPTH																													
1		1630																											
2		700																											
3		400																											
4		300																											
5		200																											
6		100																											
7		60																											
8		30																											
9		0																											
10																													
11																													
12																													

Wp = 1133  
 Altimeter did not sense bottom

Cleaned air bleed valve

MAX. DEPTH = 1630 m

CTD CONVERTED MONITOR VALUES

PRESSURE

TRIP DEPTH

PRI. TEMP.

SEC. TEMP.

SALINITY

SALINITY

WHIT'S

CHL

NUTR.

NUTR.

SAMPLE BOTTLE

SAMPLE BOTTLE NUMBER

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

SAMPLE DATA

VESSEL		PROJECT & LEG		STATION DESIGNATION									
NOAA Ship MILLER FREEMAN		ME-00-05											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
437	5506.89 N	168 29.03 W	28 APR 00	153	5.4	4.2	3A	160	0.8	852		175	CTD 037
SBE 9+	TIMES	JD/TIME	DATA LOCATION										
PRESS SN	DATA ON		Tape/Diskette ID File Name/Header										
PRI TEMP SN	START DOWN												
SEC TEMP SN	AT DEPTH												
PRI COND SN	AT SURFACE												
SEC COND SN	PAR SN 4242	FLUOR SN 153	CHIAM SN 109										
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES											
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	SAL.	NUTR.	CHL.	WHIT'S NUTR.	
1	1000								26				
2	700												
3	400												
4	300												
5	200												
6	100												
7	60												
8	30												
9	0												
10													
11													
12													

Cleaned air bleed valve

W/o = 1514

MAX. DEPTH = 1504 m

VESSEL		PROJECT & LEG		STATION DESIGNATION									
NOAA Ship MILLER FREEMAN		MF-00-05		DSDB I.D.									
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
03254	52.15 N	16844.68 W	28 APR 100	0506	4.5	5.2	9	827	06	8	2223	038	
SBE 9+	TIMES		JD/TIME	DATA LOCATION									
PRESS SN	DATA ON			Tape/Diskette ID File Name/Header									
PRI TEMP SN	START DOWN												
SEC TEMP SN	AT DEPTH												
PRI COND SN	AT SURFACE												
SEC COND SN	PAR S/N 4242			Chiam S/N 109									
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER							
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT'S NUTR.			
1	1000 ✓						φ16						
2	700 ✓												
3	400 ✓												
4	300 ✓												
5	200 ✓												
6	100 ✓												
7	60 ✓												
8	30 ✓												
9	0												
10													
11													
12													

depth based on ping

Cleaned air bleed valve

MAX. DEPTH = 1556m

REMARKS w/b = 1559



VESSEL		PROJECT & LEG		STATION DESIGNATION									
NOAA Ship MILLER FREEMAN		MF=00=05											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
04054	19.94 N	169.49 W	26	13 15	4.0	3.1	9937	340	10	86	Z	1861	CTD40
SBE 9+	TIMES	JD/TIME	DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS				
PRESS SN	DATA ON		FLUOR SN 153		CHIAM SN 109		Bottom depth from charts						
PRI TEMP SN	START DOWN		PAR S/N 4242				Cleaned air bleed valve						
SEC TEMP SN	AT DEPTH		530				MAX. DEPTH = m						
PRI COND SN	AT SURFACE		CTD CONVERTED MONITOR VALUES										
SEC COND SN			PRESSURE		PRI TEMP.		SEC. TEMP.		SALINITY		SAL.		WHIT'S NUTR.
POS. TRIP DEPTH			PRESSURE		PRI TEMP.		SEC. TEMP.		SALINITY		SAL.		CHL
1	1000										✓		
2	700										✓		
3	400										✓		
4	300										✓		
5	200										✓		
6	150										✓		
7	100										✓		
8	30										✓		
9	0										✓		
10													
11													
12													











VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																	
NOAA Ship MILLER FREEMAN		MF-00-05																					
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE (mb)	VISIBILITY (deg)	WIND DIRN. (m/s)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN		
645	24	65	168	54	29	APR	10	02	58	4.0	3.0	4	4	7	3	4	0	6	11	138	CTD 45		
SBE 9+	91660				JD/TIME				Tape/Diskette ID		File Name/Header		REMARKS w/o = 1078										
PRESS SN	29772		DATA ON																				
PRI TEMP SN	889		START DOWN																				
SEC TEMP SN	894		AT DEPTH																				
PRI COND SN	303		AT SURFACE																				
SEC COND SN	530		PAR S/N 4242										FLUOR S/N 153								CHIAM S/N 109		
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
1	986																						
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

Cleaned air bleed valve

MAX. DEPTH = 986 m



VESSEL		PROJECT & LEG		STATION DESIGNATION													
NOAA Ship MILLER FREEMAN		MF-00-05		DSDB I.D.													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
04753	22.11N	16841.52W	29 APR 10	1033	3.5	2.7	1027.3	10	10	10	10	3	434CTDHT				
SBE 9+	TIMES	JD/TIME	DATA LOCATION		Tape/Diskette ID		File Name/Header		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 4242	FLUOR S/N 153	CHIAM S/N 109														
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											
1	bot	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT'S NUTR.						
2	250																
3	100																
4	75																
5	50																
6	30																
7	20																
8	10																
9	0																
10																	
11																	
12																	

Cleaned air bleed valve

MAX. DEPTH = m

17









