

Voltages	P <sub>PR</sub>	D	Fluorometer	H <sub>2</sub> channel
0				
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				
36				
37				
38				
39				
40				
41				
42				
43				
44				
45				
46				
47				
48				
49				
50				
51				
52				
53				
54				
55				
56				
57				
58				
59				
60				
61				
62				
63				
64				
65				
66				
67				
68				
69				
70				
71				
72				
73				
74				
75				
76				
77				
78				
79				
80				
81				
82				
83				
84				
85				
86				
87				
88				
89				
90				
91				
92				
93				
94				
95				
96				
97				
98				
99				
100				

[illegible]

VESSEL RV Miller Freeman				PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 573H1																			
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	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	*	(m)								
35525.75 N		16804.65 W		03 SEP 99		2029		9.5		8.5		0948		270		166		81		217		3-1									
SBE 9+ 09P89 1 6 6 0				TIMES				JD/TIME				DATA LOCATION				REMARKS															
PRESS SN 2 9 7 7 2				DATA ON				Tape/Diskette ID				File Name/Header																			
PRI TEMP SN 884				START DOWN																											
SEC TEMP SN 889				AT DEPTH																											
PRI COND SN 530				AT SURFACE												Cleansed air bleed valve															
SEC COND SN 303				PAR S/N 4 2 4 2				FLUOR S/N 1 5 3				ChlAM S/N				TRANS. S/N															
POS. TRIP DEPTH				CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER																			
				PRESSURE				PRI. TEMP.				SEC. TEMP				SALINITY															
1 200																SAL. 132															
2 150																NUTR. 2400															
3 100																CHL. 2399															
4 75																2397															
5 50																2396															
6 40																2395															
7 30																2394															
8 20																2393															
9 10																2392															
10 0																22 2391															
11																															
12																															

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION													
RV Miller Freeman		MF99-11				3m4H1													
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
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	+	+	(deg)	(m/s)	+	(m)	
45532.84 N	16745.73 W	03	SEP	99	22	30	11	59	50	94	82	70	19	76	11	136	CTD004		
SBE 9+09P89 1660		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS							
PRESS SN 29772		DATA ON								C1d004									
PRI TEMP SN 884		START DOWN																	
SEC TEMP SN 889		AT DEPTH																	
PRI COND SN 530		AT SURFACE																	
SEC COND SN 303																			
POS. TRIP DEPTH		PAR S/N 4242		FLUOR S/N 153		CHAM S/N													
		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER													
1 128		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 = 128 m

☐ TRANS. S/N

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.		STATION DESIGNATION 3m5 H1																			
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								
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(m/s)	*	*	(m)									
5	55	38.95	N	167	29.42	W	03	S	E	P	9	9	23	45	10	0	8.4	09	47	27	0	25	85	6	13	7	5
REMARKS cdlows																											
DATA LOCATION Tape/Diskette ID File Name/Header																											
SBE 9+09P89 1 6 6 0 TIMES JD/TIME																											
PRESS SN 2 9 7 7 2 DATA ON																											
PRI TEMP SN 884 START DOWN																											
SEC TEMP SN 889 AT DEPTH																											
PRI COND SN 530 AT SURFACE																											
SEC COND SN 303 PAR S/N 4 2 4 2 FLUOR S/N 1 5 3 CHAM S/N																											
CTD CONVERTED MONITOR VALUES																											
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA					SAMPLE BOTTLE NUMBER					WHIT'S NUTR.											
1	132																										
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											



[illegible]

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION Sh 8 haul 1																					
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID					
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		°C		°C		(mb)		°C		(m/s)		(m)			
85558		96		N		16634		63		W		04		S		E		P		9		9		7		128		008			
SBE 9+09P89		1660		TIMES		JD/TIME																									
PRESS SN		29772		DATA ON																											
PRI TEMP SN		884		START DOWN																											
SEC TEMP SN		889		AT DEPTH																											
PRI COND SN		530		AT SURFACE																											
SEC COND SN		303		PAR S/N		4242		FLUOR S/N		153		CHAM S/N																			
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES																											
1		100		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAL.		NUTR.		CHL.		WHIT'S NUTR.									
2		75																													
3		50																													
4		40																													
5		30																													
6		20																													
7		10																													
8		0																													
9																															
10																															
11																															
12																															

☒ Cleaned air bleed valve

MAX. DEPTH = 123 m



VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION													
RV Miller Freeman		MF99-11				3m haul													
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											
9	56	12.59 N	166	29.81 W	4	SEP	99	05	52	9.0	7.5	094	7	27	52	10	862	112	9
<div> <div>SBE 9+ 09P89 1 6 6 0</div> <div> <div>TIMES</div> <div>JD/TIME</div> </div> </div>																			
PRESS SN		2 9 7 7 2		DATA ON		Tape/Diskette ID													
PRI TEMP SN		884		START DOWN		File Name/Header													
SEC TEMP SN		889		AT DEPTH															
PRI COND SN		530		AT SURFACE															
SEC COND SN		303		PAR S/N 4 2 4 2		FLUOR S/N 1 5 3		CHAM S/N											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA													
1	100					SAL. NUTR. CHL. WHIT'S NUTR.													
2	75					18 2416													
3	50					2415													
4	40					2414 ✓													
5	30					2413 ✓													
6	20					2412 ✓													
7	10					2411 ✓													
8	0					2410 ✓													
9						2409 ✓													
10																			
11																			
12																			

☒ Cleaned air bleed valve

MAX. DEPTH = 104 m

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION														
RV Miller Freeman		MF99-11				5m10 haul 1														
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	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	*	(m)		
105603-03N	166	19.86	W	4	SEP	99	0729	8.9	7.2	10.7	24	10	7285	24	10	10	10	10	10	
SBE 9+09P89 1 6 6 0																				
PRESS SN 2 9 7 7 2																				
PRI TEMP SN 884																				
SEC TEMP SN 889																				
PRI COND SN 530																				
SEC COND SN 303																				
<div> <input checked="" type="checkbox"/> PAR S/N 4 2 4 2           <input checked="" type="checkbox"/> FLUOR S/N 1 5 3           <input checked="" type="checkbox"/> CHAM S/N         </div>																				
CTD CONVERTED MONITOR VALUES																				
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.	CHL.	WHIT'S NUTR.
1	100															20		2424		
2	75																	2423		
3	50																	2422	✓	
4	40																	2421	✓	
5	30																	2420	✓	
6	20																	2419	✓	
7	10																	2418	✓	
8	0																	2417	✓	
9																				
10																				
11																				
12																				

DATA LOCATION

Tape/Diskette ID

File Name/Header

START DOWN

AT DEPTH

AT SURFACE

chd10

see 20

Cleaned air bleed valve

MAX. DEPTH = m

TRANS. S/N

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION Sta 11 Haul 1										
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	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	
11	55	54.89	N	166	09.59	W	04	S	E	P	9	9	10	37	8.9	7.8	4	7	123	Chd 11
<p>SBE 9+09P89 1 6 6 0</p> <p>TIMES <u>See</u> JD/TIME</p> <p>DATA LOCATION</p> <p>File Name/Header <u>Chd 11</u></p> <p>Tape/Diskette ID _____</p> <p>DATA ON _____</p> <p>START DOWN _____</p> <p>AT DEPTH _____</p> <p>AT SURFACE _____</p> <p>Press SN 2 9 7 7 2</p> <p>PRI TEMP SN 884</p> <p>SEC TEMP SN 889</p> <p>PRI COND SN 530</p> <p>SEC COND SN 303</p> <p>CTD CONVERTED MONITOR VALUES</p> <p>PAR S/N 4 2 4 2</p> <p>FLUOR S/N 1 5 3</p> <p>ChlAM S/N</p> <p>TRANS. S/N</p> <p>Cleaned air bleed valve <input checked="" type="checkbox"/></p> <p>MAX. DEPTH = m</p>																				
POS.	TRIP DEPTH	SAMPLE BOTTLE DATA										SAMPLE BOTTLE NUMBER		WHIT'S NUTR.						
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY						SAL.	NUTR.	CHL.							
1	100										13	2432								
2	75											2431								
3	50											2430	✓							
4	40											2429	✓							
5	30											2428	✓							
6	20											2427	✓							
7	10											2426	✓							
8	0											2425	✓							
9																				
10																				
11																				
12																				

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 12-1										
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/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN
1256	10.05	N	166	06.30	W	04	S	09	13	08.4	7.4	124	7	28	5	22	-	-	100	12
SBE 9+09P89 1 6 6 0 TIMES JD/TIME DATA ON START DOWN AT DEPTH AT SURFACE PAR S/N 4 2 4 2 FLUOR S/N 1 5 3 CHAM S/N CTD CONVERTED MONITOR VALUES																				
PRESS SN 2 9 7 7 2		File Name/Header																		
PRI TEMP SN 884																				
SEC TEMP SN 889																				
PRI COND SN 530																				
SEC COND SN 303		<input checked="" type="checkbox"/> PAR S/N 4 2 4 2 <input checked="" type="checkbox"/> FLUOR S/N 1 5 3 <input checked="" type="checkbox"/> CHAM S/N CTD CONVERTED MONITOR VALUES																		
POS.	TRIP DEPTH	SAMPLE BOTTLE DATA																		
1	100	PRESSURE	95		PRI. TEMP.			SEC. TEMP.			SALINITY			SAL. 22		NUTR. A8	CHL.			WHIT'S NUTR.
2	75																			
3	50																			
4	40																			
5	30																			
6	20																			
7	10																			
8	0																			
9																				
10																				
11																				
12																				

VESSEL				PROJECT & LEG				DSDB I.D.				STATION DESIGNATION									
RV Miller Freeman				MF99-11								13-1									
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/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN
13	56	16.41 N	165	46.59 W	04	SEP	99	15	07	8.1	7.8	12.4	4	7	29	0	3	7	5	6	13
REMARKS																					
SBE 9+ 09P89 1 6 6 0											DATA LOCATION										
PRESS SN 2 9 7 7 2											Tape/Diskette ID										
PRI TEMP SN 884											File Name/Header										
SEC TEMP SN 889																					
PRI COND SN 530																					
SEC COND SN 303																					
<input checked="" type="checkbox"/> PAR S/N 4 2 4 2 <input checked="" type="checkbox"/> FLUOR S/N 1 5 3 <input checked="" type="checkbox"/> CHL S/N											<input type="checkbox"/> TRANS. S/N <input type="checkbox"/> SAMPLE BOTTLE NUMBER										
POS. TRIP DEPTH											SAMPLE BOTTLE DATA										
1 01											SALINITY										
2											SALINITY										
3											SALINITY										
4											SALINITY										
5											SALINITY										
6											SALINITY										
7											SALINITY										
8											SALINITY										
9											SALINITY										
10											SALINITY										
11											SALINITY										
12											SALINITY										

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 14-1										
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/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN
14	56	23.34	N	165	23.48	W	04	SEP	99	16	44	8.3	7.1	12.4	7	29	02	86	24	14
SBE 9+ 09P89 1 6 6 0 PRESS SN 2 9 7 7 2 PRI TEMP SN 884 SEC TEMP SN 889 PRI COND SN 530 SEC COND SN 303																				
DATA LOCATION File Name/Header Tape/Diskette ID MAX. DEPTH = 75 m Cleaned air bleed valve 140 = 20 m/min (rate out) 140 = 74 m (max)																				
REMARKS 140 = 20 m/min (rate out) 140 = 74 m (max) Cleaned air bleed valve MAX. DEPTH = 75 m TRANS. S/N SAMPLE BOTTLE NUMBER																				
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES																
				PAR S/N 4 2 4 2				FLUOR S/N 1 5 3				CHAM S/N				SAMPLE BOTTLE DATA				
				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY				
1		75														SALINITY				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

In Coccoliths since ~ 0730 local (1530 GMT) /

VESSEL RV Miller Freeman				PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION																							
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID													
DEG MIN		DEG MIN		DEG MIN		DAY MO YR		HR MIN		°C		(deg)		(m/s)		*		*		(m)															
15		56 30 . 60 N		165 00 . 07 W		04 SEP 99		18 32		8 . 1		6 . 8		47 29 0		18 86 2		79		15															
SBE 9+ 09P89 1 6 6 0				TIMES				JD/TIME				DATA LOCATION				REMARKS																			
PRESS SN 2 9 7 7 2				DATA ON				Tape/Diskette ID				File Name/Header				100 = 20 m/min																			
PRI TEMP SN 884				START DOWN												Max 40 = 68																			
SEC TEMP SN 889				AT DEPTH												<input type="checkbox"/> Cleaned air bleed valve																			
PRI COND SN 530				AT SURFACE												MAX. DEPTH = 69 m																			
SEC COND SN 303				<input checked="" type="checkbox"/> PAR S/N 4 2 4 2				<input checked="" type="checkbox"/> FLUOR S/N 1 5 3				<input checked="" type="checkbox"/> CHAM S/N				<input type="checkbox"/> TRANS. S/N																			
POS. TRIP DEPTH				CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER																							
1 69				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY				SAL.				NUTR.				CHL.				WHIT'S NUTR.			
2																				10															
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

In Case of this

VESSEL		PROJECT & LEG				DSDB I.D.		STATION DESIGNATION											
RV Miller Freeman		MF99-11																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	(m)		
165637	85°N	16436	13°W	04	2008	8	9	8	9	8	01	44	6	30	5	20	872	75	16
SBE 9+09P89		1 6 6 0		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN		2 9 7 7 2		DATA ON		Tape/Diskette ID		File Name/Header		40 = 6									
PRI TEMP SN		884		START DOWN						MAX = 68									
SEC TEMP SN		889		AT DEPTH						<input type="checkbox"/> Cleaned air bleed valve									
PRI COND SN		530		AT SURFACE						MAX. DEPTH =		m							
SEC COND SN		303		<input checked="" type="checkbox"/> PAR S/N		4 2 4 2		<input checked="" type="checkbox"/> FLUOR S/N		1 5 3		<input checked="" type="checkbox"/> CHAM S/N		<input type="checkbox"/> TRANS. S/N					
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	68											1							
2	610																		
3	600																		
4	600																		
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			



VESSEL RV Miller Freeman				PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION Smith 7																															
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID															
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		°C		°C		(mb)		°C		(m/s)		(m)															
175		46.19		164		20.13		W		4		SEP		99		21		29		8.9		7.2		14.5		7290		178		74		17											
SBE 9+ 09P89 1 6 6 0				TIMES				JD/TIME				DATA LOCATION				REMARKS				15,000				15,000				15,000															
PRESS SN 2 9 7 7 2				DATA ON				Tape/Diskette ID				File Name/Header				15,000				15,000				15,000				15,000															
PRI TEMP SN 884				START DOWN																																							
SEC TEMP SN 889				AT DEPTH																																							
PRI COND SN 530				AT SURFACE																																							
SEC COND SN 303																																											
POS.				TRIP DEPTH				PAR SN 4 2 4 2				FLUOR SN 1 5 3				CHIAM SN				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER				TRANS. SN															
								CTD CONVERTED MONITOR VALUES																																			
				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY				SALINITY				SAL.				NUTR.				CHL.				WHIT'S NUTR.							
1				70																																							
2				50																																							
3				40																																							
4				30																																							
5				20																																							
6				10																																							
7				0																																							
8																																											
9																																											
10																																											
11																																											
12																																											

Get Sal at 1-clim from both  
↓ ↓ ↓

Mudrain 2

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 3 mi 18 haul 1																	
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				
18	56	52.56	N	164	03.18	W	4	S	E	P	9	9	23	3	2	9.2	7.0	145	72	18			
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION																	
PRESS SN 2 9 7 7 2		DATA ON				Tape/Diskette ID		File Name/Header															
PRI TEMP SN 884		START DOWN																					
SEC TEMP SN 889		AT DEPTH																					
PRI COND SN 530		AT SURFACE																					
SEC COND SN 303						PAR SN 4 2 4 2		FLUOR SN 1 5 3		CHIAM SN		TRANS. SN											
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	70	69														5		A-19					
2	50																	A-18		✓			
3	44																	A-17		✓			
4	44																			✓			
5	44																			✓			
6	30																	A-16		✓			
7	29																			✓			
8	24																			✓			
9	24																			✓			
10																							
11																							
12																							

Shell Coccolithas.

PG \_\_\_\_ OF \_\_\_\_  
*Mooring 2 Cust 2 to get*

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.		STATION DESIGNATION <i>5m18 haul 2</i>				STA. NAME/ID									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD		CLOUD (amt)		WEATHER		STA. NAME/ID	
195652.91 N		164 03 .10 W		4 SEP 99		2353		7.0145729517		72		19		19		19		19		19	
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS									
PRESS SN 2 9 7 7 2		DATA ON		START DOWN		AT DEPTH		AT SURFACE		Cleaned air bleed valve		MAX. DEPTH = 20 m									
PRI TEMP SN 884																					
SEC TEMP SN 889																					
PRI COND SN 530																					
SEC COND SN 303																					
POS. TRIP DEPTH		PAR SN 4 2 4 2		FLUOR SN 1 5 3		CHIAM SN		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
1 20																					
2 13																					
3 13																					
4 13																					
5 5																					
6 5																					
7 5																					
8 0																					
9																					
10																					
11																					
12																					

*no sal done*

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION Sm 19 Haul 1																	
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/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN			
20	56	40.06	N	163	52.60	W	5	SEP	99	02	44	8.4	7.0	154	7300	198	72	75	20				
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION														REMARKS			
PRESS SN 2 9 7 7 2		DATA ON				Tape/Diskette ID		File Name/Header														15 per	
PRI TEMP SN 884		START DOWN																				Cleaned air bleed valve	
SEC TEMP SN 889		AT DEPTH																				MAX. DEPTH = 69 m	
PRI COND SN 530		AT SURFACE																					
SEC COND SN 303								PAR SN 4 2 4 2		FLUOR SN 1 5 3		CHIAM SN		TRANS. SN		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.					
1	70	226												35		A-28							
2	50															A-27							
3	40															A-26							
4	30															A-25							
5	20															A-24							
6	10															A-23							
7	0																						
8																							
9																							
10																							
11																							
12																							

Still Coceos

Pale green

\* Probably no sample from this bottle

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 3M201H																											
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/s)		* (m)		21			
21		56.52		N		163.49		.75		W		5		SEP		9		0420		7.8		6.6		153		73		05		19		21	
SBE 9+ 09P89		1 6 6 0		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS		w063		Cleaned air bleed valve		MAX. DEPTH = 65 m		TRANS. S/N		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.	
PRESS SN		2 9 7 7 2		DATA ON		START DOWN		AT DEPTH		AT SURFACE		PAR S/N		4 2 4 2		FLUOR S/N		1 5 3		Cham S/N		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
PRI TEMP SN		884		START DOWN		AT DEPTH		AT SURFACE		PAR S/N		4 2 4 2		FLUOR S/N		1 5 3		Cham S/N		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
SEC TEMP SN		889		START DOWN		AT DEPTH		AT SURFACE		PAR S/N		4 2 4 2		FLUOR S/N		1 5 3		Cham S/N		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
PRI COND SN		530		START DOWN		AT DEPTH		AT SURFACE		PAR S/N		4 2 4 2		FLUOR S/N		1 5 3		Cham S/N		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
SEC COND SN		303		START DOWN		AT DEPTH		AT SURFACE		PAR S/N		4 2 4 2		FLUOR S/N		1 5 3		Cham S/N		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
POS.		TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
1		70		70		70		70		70		70		70		70		70		70		70		70		70		70		70		70	
2		50		50		50		50		50		50		50		50		50		50		50		50		50		50		50		50	
3		40		40		40		40		40		40		40		40		40		40		40		40		40		40		40		40	
4		30		30		30		30		30		30		30		30		30		30		30		30		30		30		30		30	
5		20		20		20		20		20		20		20		20		20		20		20		20		20		20		20		20	
6		10		10		10		10		10		10		10		10		10		10		10		10		10		10		10		10	
7		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0		0	
8																																	
9																																	
10																																	
11																																	
12																																	

Shell in caecoths

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 3m 21 haul																
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		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			
22	57	00.99	N	164	13.03	W	5	S	E	P	9	9	06	11	8.15	7.8	1636	310	15872	69	22	
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION																
PRESS SN 2 9 7 7 2		DATA ON				Tape/Diskette ID		File Name/Header														
PRI TEMP SN 884		START DOWN																				
SEC TEMP SN 889		AT DEPTH																				
PRI COND SN 530		AT SURFACE																				
SEC COND SN 303																						
POS.		TRIP DEPTH		PAR S/N 4 2 4 2		FLUOR S/N 1 5 3		ChlAM S/N		SAMPLE BOTTLE DATA												
				CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE NUMBER												
				PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.		
1	b														30		A-42					
2	50																A-41		✓			
3	40																A-40		✓			
4	30																A-39		✓			
5	20																A-38		✓			
6	10																A-37		✓			
7	0																A-36		✓			
8																						
9																						
10																						
11																						
12																						

Still collecting  
Heading to Dutch / night  
see edge of patch → would

[illegible]

VESSEL RV Miller Freeman				PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 23-1									
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		
24	56	21.06	N	169	28.16	W	6	S	17	7	7.1	6.8	231	7	300	06	6	137	24		
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION															
PRESS SN 2 9 7 7 2		DATA ON				Tape/Diskette ID				File Name/Header											
PRI TEMP SN 884		START DOWN																			
SEC TEMP SN 889		AT DEPTH																			
PRI COND SN 530		AT SURFACE																			
SEC COND SN 303						<input checked="" type="checkbox"/> PAR S/N 4 2 4 2 <input checked="" type="checkbox"/> FLUOR S/N 1 5 3 <input type="checkbox"/> CHIAM S/N				<input type="checkbox"/> TRANS. S/N											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA													SAMPLE BOTTLE NUMBER		
1	127	127																			
2	75	76																			
3	50	51																			
4	40	41																			
5	30	31																			
6	20	21																			
7	10	10																			
8	0	2																			
9																					
10																					
11																					
12																					

120 126  
Not sure if fluorometer was  
Cleaned air bleed valve

MAX. DEPTH = 127 m



[illegible]

VESSEL				PROJECT & LEG				DSDB I.D.				STATION DESIGNATION																					
RV Miller Freeman				MF99-11								25-1																					
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)					
266		27.17N		169.28.84W		6 SEP 99		1838		7.9		7.0		23.17		7		7						7		7		100		26			
SBE 9+ 09P89 1 6 6 0				TIMES				JD/TIME				DATA LOCATION				REMARKS																	
PRESS SN 2 9 7 7 2				DATA ON				Tape/Diskette ID				File Name/Header																					
PRI TEMP SN 884				START DOWN																													
SEC TEMP SN 889				AT DEPTH																													
PRI COND SN 530				AT SURFACE												Cleaned air bleed valve																	
SEC COND SN 303				PAR S/N 4 2 4 2				FLUOR S/N 1 5 3				CHIAM S/N				TRANS. S/N																	
POS. TRIP DEPTH				CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER																					
				PRESSURE				PRI. TEMP.				SEC. TEMP				SALINITY																	
1 85				88																													
2 75				76																													
3 50				50																													
4 40				40																													
5 30				30																													
6 20				20																													
7 10				10																													
8 0				2																													
9																																	
10																																	
11																																	
12																																	

[illegible]

Well-mixed

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 27-1																		
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/ID					
	DEG	MIN	DEG	MIN	DAY	MO														YR	HR	MIN		
28	56	32.16	N	169	28.89	W	6	SEP	9	1943	8.1	7.024	1	7				72	28					
SBE 9+ 09P89		1 6 6 0		TIMES		JD/TIME		DATA LOCATION												REMARKS				
PRESS SN		2 9 7 7 2		DATA ON				Tape/Diskette ID		File Name/Header								Strong current to W (rides b) Slow						
PRI TEMP SN		884		START DOWN														100 60						
SEC TEMP SN		889		AT DEPTH														Cleaned air bleed valve						
PRI COND SN		530		AT SURFACE														MAX. DEPTH = 602 m						
SEC COND SN		303		PAR S/N		4 2 4 2		FLUOR S/N		1 5 3		CHAM S/N		NOT		TRANS. S/N		SAMPLE BOTTLE NUMBER						
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																						
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA														SAL.	NUTR.	CHL.	WHIT'S NUTR.
1	70																				16	2778		
2	50																					2777	✓	
3	40																					2776	✓	
4	30																					2775	✓	
5	20																					2774	✓	
6	10																					2773	✓	
7	0																					2772	✓	
8																								
9																								
10																								
11																								
12																								

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSD8 I.D.				STATION DESIGNATION 28-1																					
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	
DEG		MIN		DEG		MIN		DAY		MO		YR		HR		MIN		°C		°C		(mb)		(m/s)		* * *		(m)			
29		5633.57		N 16928.90		W 06		S E P 9		2007		9.0		7.5		24.1		7								74		37		29	
SBE 9+ 09P89		1 6 6 0		TIMES		JD/TIME																									
PRESS SN		2 9 7 7 2		DATA ON																											
PRI TEMP SN		884		START DOWN																											
SEC TEMP SN		889		AT DEPTH																											
PRI COND SN		530		AT SURFACE																											
SEC COND SN		303																													
POS.		TRIP DEPTH																													
1		36																													
2		30																													
3		20																													
4		10																													
5		0																													
6																															
7																															
8																															
9																															
10																															
11																															
12																															

REMARKS

Lt aux

DATA LOCATION

File Name/Header

Tape/Diskette ID

Cleaned air bleed valve

MAX. DEPTH = 35 m

TRANS. S/N

SAMPLE BOTTLE NUMBER

SAMPLE BOTTLE DATA

CTD CONVERTED MONITOR VALUES

Chiam S/N

FLUOR S/N 1 5 3

PAR S/N 4 2 4 2

SALINITY

SALINITY

SEC. TEMP

PRI. TEMP.

PRESSURE

WHIT'S

CHL.

NUTR.

SAL.

23

2782

2781

2780

2779

135 Station. St. Paul Island (shallow end)

[illegible]

7.52

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
RV Miller Freeman		MF99-11				55-1 A9											
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)	(°C)	(mb)	*	*	(m)		
3157	15.98 N	170 10.91 W	109	SEP 9	05	07	09	04	04	4	00	00	04	04	29	31	
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION											
PRESS SN 2 9 7 7 2		DATA ON				Tape/Diskette ID		File Name/Header									
PRI TEMP SN 884		START DOWN															
SEC TEMP SN 889		AT DEPTH															
PRI COND SN 530		AT SURFACE															
SEC COND SN 303																	
POS. TRIP DEPTH		PAR S/N 4 2 4 2		FLUOR S/N 1 5 3		CHAM S/N		TRANS. S/N									
		CTD CONVERTED MONITOR VALUES						SAMPLE BOTTLE DATA									
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.	
1	20											35		2787		✓	
2	10													2786		✓	
3	0													2785		✓	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

Cleaned air bleed valve

MAX. DEPTH = 26 m

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 56-1 A8																											
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)					
325717.24		N 17010.03		W 09		SEP 99		052610.0		9.0		9.0		0.0		3		1		1		1		1		1		38		32			
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME																													
PRESS SN 2 9 7 7 2		DATA ON																															
PRI TEMP SN 884		START DOWN																															
SEC TEMP SN 889		AT DEPTH																															
PRI COND SN 530		AT SURFACE																															
SEC COND SN 303		PAR S/N 4 2 4 2		FLUOR S/N 1 5 3		CHIAM S/N																											
POS. TRIP DEPTH																																	
1 30		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY			
2 20																																	
3 10																																	
4 0																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

Cleaned air bleed valve

MAX. DEPTH = 34 m

TRANS. S/N

SAMPLE BOTTLE NUMBER

WHIT'S  
NUTR.

CHL.

NUTR.

SAL.

2791

2790

2789

2788



7.59

7.39x

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION												
RV Miller Freeman		MF99-11				57-1 A7												
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
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(m/s)	*	(m)	
23	57	18	44	N	17	09	18	W	09	54	9.8	9.8	20603	4	15	1/5	49	33
SBE 9+ 09P89 1 6 6 0																		
TIMES JD/TIME																		
DATA ON																		
START DOWN																		
AT DEPTH																		
AT SURFACE																		
Tape/Diskette ID File Name/Header																		
DATA LOCATION																		
REMARKS																		
w0 44																		
Cleaned air bleed valve																		
MAX. DEPTH = 46 m																		
TRANS. SN																		
SAMPLE BOTTLE DATA																		
SALINITY																		
SAL.																		
NUTR.																		
CHL.																		
WHIT'S NUTR.																		
SALINITY																		
SALINITY																		
SEC. TEMP.																		
PRI. TEMP.																		
PRESSURE																		
CTD CONVERTED MONITOR VALUES																		
FLUOR S/N																		
PAR S/N																		
CHIAM S/N																		
TRIP DEPTH																		
1 40																		
2 30																		
3 20																		
4 10																		
5 0																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

7.38

PG \_\_\_\_ OF \_\_\_\_

7.24

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION											
RV Miller Freeman		MF99-11				58-1 A6											
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
3457	19.33	N	17008.20	W	09	S E P 99	0610	9.9	9.9	0061	7050	10	1/4	53	34		
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN 2 9 7 7 2		DATA ON				Tape/Diskette ID		File Name/Header									
PRI TEMP SN 884		START DOWN															
SEC TEMP SN 889		AT DEPTH															
PRI COND SN 530		AT SURFACE															
SEC COND SN 303																	
POS. TRIP DEPTH		PAR S/N		4 2 4 2		FLUOR S/N		1 5 3		CHIAM S/N		TRANS. S/N		SAMPLE BOTTLE NUMBER			
1 48		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.	
2 40																	
3 30																	
4 20																	
5 10																	
6 0																	
7																	
8																	
9																	
10																	
11																	
12																	

W0 4/6

Cleaned air bleed valve

MAX. DEPTH = 42 m

[illegible]

VESSEL RV Miller Freeman				PROJECT & LEG MF99-11				DSDBI.D. 6.3				STATION DESIGNATION 60-1				A41																															
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID																			
DEG MIN		DEG MIN		DEG MIN		DAY MO YR		HR MIN		°C		°C		(mb)		*		(deg)		(m/s)		*		(m)																							
365723		39 N		17005		95 W		09 SEP 99		0703		8.9		8.20		727		060		12		12		12		60		36																			
SBE 9+ 09P89 1 6 6 0				TIMES				JD/TIME				DATA LOCATION				REMARKS																															
PRESS SN 2 9 7 7 2				DATA ON								Tape/Diskette ID				File Name/Header																															
PRI TEMP SN 884				START DOWN																																											
SEC TEMP SN 889				AT DEPTH																																											
PRI COND SN 530				AT SURFACE																																											
SEC COND SN 303				PAR S/N 4 2 4 2				FLUOR S/N 1 5 3				CHAM S/N																																			
POS. TRIP DEPTH				CTD CONVERTED MONITOR VALUES																																											
				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY				SALINITY				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER																			
1 50																												SAL. 22				NUTR. 2810				CHL. ✓				WHIT'S NUTR.							
2 40																																															
3 30																																															
4 20																																															
5 10																																															
6 0																																															
7																																															
8																																															
9																																															
10																																															
11																																															
12																																															

2054

Cleaned air bleed valve

MAX. DEPTH = 55 m

790 8.0

~32m

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 61-1 A3																			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		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								
37	57	25.85	N	170	02.00	W	09	S	E	P	07	33	8.5	8.00	827	065	114	12	63	37					
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION												REMARKS							
PRESS SN 2 9 7 7 2		DATA ON				Tape/Diskette ID		File Name/Header																	
PRI TEMP SN 884		START DOWN																W20 56							
SEC TEMP SN 889		AT DEPTH																<input type="checkbox"/> Cleaned air bleed valve							
PRI COND SN 530		AT SURFACE																MAX. DEPTH = 57 m							
SEC COND SN 303		<input type="checkbox"/> PAR S/N 4 2 4 2		<input type="checkbox"/> FLUOR S/N 1 5 3		<input type="checkbox"/> CHAM S/N												<input type="checkbox"/> TRANS. S/N							
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	50																		20	22	15	✓			
2	40																						✓		
3	30																					14	✓		
4	20																					13	✓		
5	10																					12	✓		
6	0																					28	11	✓	
7																									
8																									
9																									
10																									
11																									
12																									

VESSEL RV Miller Freeman			PROJECT & LEG MF99-11			DSDB I.D.			STATION DESIGNATION 62-1 A2										
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
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	*	(m)	
385729	29	39	N	17000	08	9	9	08	10	8.5	8.1	0826	060	060	10	10	12	67	38
SBE 9+ 09P89 1 6 6 0																			
TIMES JD/TIME																			
DATA ON																			
START DOWN																			
AT DEPTH																			
AT SURFACE																			
DATA LOCATION																			
Tape/Diskette ID File Name/Header																			
Cleaned air bleed valve																			
MAX. DEPTH = 61 m																			
TRANS. S/N																			
SAMPLE BOTTLE NUMBER																			
CTD CONVERTED MONITOR VALUES																			
POS.	TRIP DEPTH	PAR S/N	4 2 4 2	FLUOR S/N	1 5 3	CHAM S/N	SAMPLE BOTTLE DATA												
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY													
1	60	61				14 1292													
2	50	51				9221													
3	40	46				1220													
4	30	31				1219													
5	20	20				1218													
6	10	10				1217													
7	0	2				2816													
8																			
9																			
10																			
11																			
12																			

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION													
RV Miller Freeman		MF99-11				63-1													
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	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(m/s)	(m)		
39	57	34	13	N	110	56	50	W	9	08	56	7	9	7	50	9	36	06	0
SBE 9+ 09P89		1 6 6 0		TIMES		JD/TIME		DATA LOCATION		REMARKS									
PRESS SN		2 9 7 7 2		DATA ON				Tape/Diskette ID		File Name/Header									
PRI TEMP SN		884		START DOWN															
SEC TEMP SN		889		AT DEPTH															
PRI COND SN		530		AT SURFACE															
SEC COND SN		303		<input checked="" type="checkbox"/> PAR S/N 4 2 4 2 <input checked="" type="checkbox"/> FLUOR S/N 1 5 3 <input type="checkbox"/> CHAM S/N															
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SALINITY		SAL.		NUTR.	CHL.	WHIT'S NUTR.			
1	61	(60)										71		1229					
2	50	51												1228					
3	40	40												1227					
4	30	30												1226					
5	20	20												1225					
6	10	11												1224					
7	0	2												1223					
8																			
9																			
10																			
11																			
12																			

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION													
RV Miller Freeman		MF99-11								70-2													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID		
405730.03	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(mb)	* * *	(m/s)	* * *	(m)							67	40
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME																			
PRESS SN 2 9 7 7 2		DATA ON																					
PRI TEMP SN 884		START DOWN																					
SEC TEMP SN 889		AT DEPTH																					
PRI COND SN 530		AT SURFACE																					
SEC COND SN 303		PAR S/N 4 2 4 2		FLUOR S/N 1 5 3		CHIAM S/N																	
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAL.		NUTR.		CHL.		WHIT'S NUTR.			
1	40	(63)																					
2	50																						
3	40																						
4	30																						
5	20																						
6	10																						
7	0																						
8																							
9																							
10																							
11																							
12																							

WD 62  
☐ Cleaned air bleed valve  
 MAX. DEPTH = 63 m

DATA LOCATION  
 File Name/Header  
 Tape/Diskette ID

CTD CONVERTED MONITOR VALUES



VESSEL		PROJECT & LEG		DSD8 I.D.		STATION DESIGNATION	
RV Miller Freeman		MF99-11				73-11	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		
	DEG	MIN	DEG	MIN	DAY	MO	YR
41	57	24	17	04	12	SEP	99
SBE 9+09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION	
PRESS SN 2 9 7 7 2		DATA ON		Tape/Diskette ID		File Name/Header	
PRI TEMP SN 884		START DOWN					
SEC TEMP SN 889		AT DEPTH					
PRI COND SN 530		AT SURFACE					
SEC COND SN 303		PAR SN 4 2 4 2		FLUOR SN 1 5 3		Chiam S/N	
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
1	bottom 55	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAL.	WHIT'S NUTR.
2	50					1933	
3	40					1932	
4	30					1931	
5	25					1930	
6	20					1929	
7	15						
8	10					1928	
9	5						
10	0					1927	
11							
12							

☐ Cleaned air bleed valve  
MAX. DEPTH = 55 m

TRANS. S/N

Telly in 10 ~ 40m?

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION														
RV Miller Freeman		MF99-11				A211 74-1														
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	
425729	41 N	17000	86 W	12 SEP 99	22 09	10.2	8.90	24	7	115	20	7	3					67	42	
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION														
PRESS SN 2 9 7 7 2		DATA ON				File Name/Header														
PRI TEMP SN 884		START DOWN																		
SEC TEMP SN 889		AT DEPTH																		
PRI COND SN 530		AT SURFACE				<input type="checkbox"/> Cleaned air bleed valve MAX. DEPTH = 62 m														
SEC COND SN 303		<input checked="" type="checkbox"/> PAR S/N 4 2 4 2		<input checked="" type="checkbox"/> FLUOR S/N 1 5 3		<input type="checkbox"/> CHAM S/N		TRANS. S/N		SAMPLE BOTTLE NUMBER										
POS.	TRIP DEPTH	SAMPLE BOTTLE DATA																		
1	50	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY														
2	40																			
3	30																			
4	25																			
5	20																			
6	15																			
7	10																			
8	5																			
9	0																			
10																				
11																				
12																				

[illegible]