

VESSEL RV Miller Freeman				PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 1-1																	
CONSC CAST #		LATITUDE DEG MIN		LONGITUDE DEG MIN		DATE JD= DAY MO YR		TIME (GMT) HR MIN		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	
001		5520.71 N		16815.89 W		03 SEP 99		1638		8.3		7.8		084		48270		18		1204		1		1		1		1	
SBE 9+ 09P89 1 6 6 0				TIMES				JD/TIME				DATA LOCATION				REMARKS				No Mark file									
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 type="checkbox"/> FLUOR S/N 1 5 3				<input type="checkbox"/> CHAM S/N																	
POS. TRIP DEPTH				CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER																	
1 300				PRESSURE 301				PRI. TEMP.				SEC. TEMP.				SALINITY				SAL. NUTR. CHL. WHIT'S NUTR.									
2 200				199																									
3 150				149																									
4 100				100																									
5 75				74																									
6 50				49																									
7 40				39																									
8 30				29																									
9 20				19																									
10 10				10																									
11 0				2																									
12																													

VESSEL RV Miller Freeman			PROJECT & LEG MF99-11			DSDB I.D.			STATION DESIGNATION 2-1											
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												
2	55	22.69 N	168	10.83 W	03	SEP	99	18	41	9.5	8.508	3	8	27	5	18	-	1	482	2
<div> <div>SBE 9+ 09P89 1 6 6 0</div> <div> <div> <div>DATA ON</div> <div>START DOWN</div> <div>AT DEPTH</div> <div>AT SURFACE</div> </div> <div> <div>PAR S/N 4 2 4 2</div> <div>FLUOR S/N 1 5 3</div> <div>CHIAM S/N</div> </div> </div> </div>																				
<div> <div> <div> <div>DATA LOCATION</div> <div>File Name/Header</div> </div> <div> <div>Tape/Diskette ID</div> <div></div> </div> </div> </div>																				
<div> <div> <div>REMARKS</div> <div> <div>2/0 503</div> <div>mark file not correct</div> <div>Cleaned air bleed valve</div> <div>MAX. DEPTH = 474 m</div> </div> </div> </div>																				
POS.		TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		WHIT'S NUTR.			
			PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY					SALINITY	SAL.	NUTR.	CHL.						
1		300	302									71	2390							
2		200	200										2385							
3		150	151										2386							
4		100	101										2387							
5		75	75										2388							
6		50	51										2389		✓					
7		40	40										2384		✓					
8		30	29										2382		✓					
9		20	20										2382		✓					
10		10	9										2381		✓					
11		0	2										2380		✓					
12																				

[illegible]

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.		STATION DESIGNATION 3m5H1												
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	DRY 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
5	55	38.95 N	167	29.42 W	03	SEP	99	23	45	10.0	8.4	09	47	27	0	25	85	6	137	5
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																				
TIMES JD/TIME DATA ON START DOWN AT DEPTH AT SURFACE																				
DATA LOCATION Tape/Diskette ID File Name/Header <input type="checkbox"/> Cleaned air bleed valve MAX. DEPTH = 132 m																				
REMARKS Cplous																				
TRANS. S/N SAMPLE BOTTLE NUMBER																				
CTD CONVERTED MONITOR VALUES PAR S/N 4 2 4 2 FLUOR S/N 1 5 3 CHAM S/N																				
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA														
1	132					SAL. NUTR. CHL. WHIT'S NUTR.														
2						11														
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

VESSEL						PROJECT & LEG							DSDB I.D.				STATION DESIGNATION														
RV Miller Freeman						MF99-11											Sm 7 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	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	*	(deg)	(m/s)	*	*	*	*	*	(m)							
75554'05N		16654'09W		04S		E P 99		0030		9.11		7.9084		7.285		23		861		134										77	
REMARKS																															
20 per																															
<input checked="" type="checkbox"/> Cleaned air bleed valve																															
MAX. DEPTH = 127 m																															
TRANS. S/N																															
SAMPLE BOTTLE NUMBER																															
SAMPLE BOTTLE DATA																															
SALINITY																															
SAL.																															
NUTR.																															
CHL.																															
WHIT'S NUTR.																															
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																															
CTD CONVERTED MONITOR VALUES																															
PAR S/N 4 2 4 2																															
FLUOR S/N 1 5 3																															
CHAM S/N																															
SALINITY																															
SEC. TEMP																															
PRI. TEMP.																															
PRESSURE																															
TRIP DEPTH																															
1 127																															
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

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

☐ TRANS. S/N

☒ CHAM S/N

☒ FLUOR S/N

☒ PAR S/N

☒ SEC COND SN

☒ PRI COND SN

☒ SEC TEMP SN

☒ PRI TEMP SN

☒ PRESS SN

☒ SBE 9+09P89

☒ STA. NAME/ID

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	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
9	56	12.59 N	166	29.81 W	4	SEP	99	05	52	9.0	7.5	1094	7	27	52	862	112	9	
<div> <div>SBE 9+ 09P89 1 6 6 0</div> <div> <div>TIMES</div> <div>JD/TIME</div> </div> </div>																			
<div> <div>PRESS SN 2 9 7 7 2</div> <div>DATA ON</div> </div>																			
<div> <div>PRI TEMP SN 884</div> <div>START DOWN</div> </div>																			
<div> <div>SEC TEMP SN 889</div> <div>AT DEPTH</div> </div>																			
<div> <div>PRI COND SN 530</div> <div>AT SURFACE</div> </div>																			
<div> <div>SEC COND SN 303</div> <div> <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> </div> </div>																			
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

TRANS. S/N

[illegible]

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)	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	
11	55	54.89	N	166	09.59	W	04	S	E	P	99	10	37	8.9	7.8	11	47	28	02	123	Cld 11
<p>SBE 9+09P89 1 6 6 0</p> <p>TIMES <u>See</u> JD/TIME</p> <p>DATA LOCATION File Name/Header <u>Cld 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>SAMPLE BOTTLE DATA</p> <p>SAMPLE BOTTLE NUMBER</p> <p>SAL. NUTR. CHL. WHIT'S NUTR.</p> <p>13 2432 2431 2430 2429 2428 2427 2426 2425</p>																					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY																
1	100																				
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								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)	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	13	2	8.4	7.4	124	7	28	5	22	-	100	12				
SBE 9+09P89 1 6 6 0																							
PRESS SN	2 9 7 7 2		DATA ON		JD/TIME		TIMES		DATA LOCATION											REMARKS			
PRI TEMP SN	884		START DOWN		Tape/Diskette ID		File Name/Header																
SEC TEMP SN	889		AT DEPTH																				
PRI COND SN	530		AT SURFACE																	<input type="checkbox"/> Cleaned air bleed valve MAX. DEPTH = 95 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"/> CHIAM S/N													<input type="checkbox"/> TRANS. S/N SAMPLE BOTTLE NUMBER			
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																					
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA														SAL.	NUTR.	CHL.	WHIT'S NUTR.
1	100	95																		22	A8		
2	75																				A7		
3	50																				A6		✓
4	40	41																			A5		✓
5	30																				A4		✓
6	20																				A3		✓
7	10																				A2		✓
8	0																				A1		✓
9																							
10																							
11																							
12																							

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 13-1																					
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		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		°C		(deg)		(m/s)		*		(m)									
1356		16.41		N		16546.59		W		04		S E P 99		1507		8.1		7.8		12		4		7290		23756		86		13	
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		61		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

80 mwo

Cleaned air bleed valve

MAX. DEPTH = 82 m

TRANS. S/N

SAMPLE BOTTLE NUMBER

SAL. 9- NUTR. CHL. WHIT'S NUTR.

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											
14	56	23.34	N	165	23.48	W	04	SEP	99	16	44	8.3	7.1	12.4	7	29	02	86	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																			
REMARKS 140 = 20 m/min (rate out) 140 = 74 m (max)																			
TRAN. S/N SAMPLE BOTTLE NUMBER																			
CTD CONVERTED MONITOR VALUES																			
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA													
1	75																		
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

In Coccoliths since ~ 0730 local (1530 GMT) /

In Conclusion

In Conclusion

[illegible]

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION <i>Smith 7</i>																															
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)									
175646.19		N		16420.13		W		4		SEP		99		21		29		8.9		7.2		1457290		17832		74		17									
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 SN										FLUOR SN										TRANS. SN									
POS.		TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY							
1		70		168																																	
2		50																																			
3		40																																			
4		30																																			
5		20																																			
6		10																																			
7		0																																			
8																																					
9																																					
10																																					
11																																					
12																																					

Get Sal at 1-clim from both
↓ ↓ ↑

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION Mudrain 2 3 mi S Paul 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				Cleaned air bleed valve														
SEC COND SN 303		PAR SN 4 2 4 2		FLUOR SN 1 5 3		CHIAM SN		MAX. DEPTH = 69 m												
POS.	TRIP DEPTH	SAMPLE BOTTLE DATA																		
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE NUMBER														
1	70	69				SAL.	NUTR.	CHL.	WHIT'S NUTR.											
2	50						A-19													
3	44						A-18													
4	44						A-17													
5	44																			
6	30						A-16													
7	29																			
8	24																			
9	24																			
10																				
11																				
12																				

Shell Coccolithas.

PG ____ OF ____
Mooning 2 Cust 2 to get

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION <i>Sample 2</i> <i>5m18 haul 2</i>														
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		
195652.91	N	164 03 .10	W	4	S	E	P	9	23	53	9.2	7.01	457	295	17	832	72	19		
<div> <div> 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> <div> TIMES DATA ON START DOWN AT DEPTH AT SURFACE </div> <div> JD/TIME Tape/Diskette ID File Name/Header </div> </div>																				
<div> <input checked="" type="checkbox"/> PAR SN 4 2 4 2 <input checked="" type="checkbox"/> FLUOR SN 1 5 3 <input type="checkbox"/> CHIAM SN </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	20																	A-22	✓	
2	13																		✓	
3	13																		✓	
4	13																	A-21	✓	
5	5																		✓	
6	5																		✓	
7	5																		✓	
8	0																	A-20	✓	
9																				
10																				
11																				
12																				

no sal done

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION <i>Sm 19 Haul 1</i>																	
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	1547	300	19	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							
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.	
1		70.286														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)		°C		(deg)		(m/s)		* *		(m)					
21		56.52		N		163.49		.75		W		5		SEP		9		0420		7.8		6.6		153		73		05		19		872		69		21	
SBE 9+09P89		1 6 6 0		TIMES		JD/TIME																												REMARKS w063			
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																									
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES																																	
1		70		2066																																	
2		50																																			
3		40																																			
4		30																																			
5		20																																			
6		10																																			
7		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)		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	
22		5700.99 N		16413.03 W		5 SEP 99		0611		8.5		7.8		1636		310		15872		69		22									
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																													
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		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER																									
1 b		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.													
2 50																															
3 40																															
4 30																															
5 20																															
6 10																															
7 0																															
8																															
9																															
10																															
11																															
12																															

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

[illegible]

[illegible]

VESSEL		PROJECT & LEG				DSDB I.D.		STATION DESIGNATION									
RV Miller Freeman		MF99-11						24-1									
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)	*	(m/s)	*	(m)	
25	56	24	16	27	6	SEP	99	17	57	7.8	7.2	23	1	7	8	2	25
SBE 9+ 09P89		1 6 6 0		TIMES		JD/TIME		DATA LOCATION		DATA LOCATION		DATA LOCATION		REMARKS			
PRESS SN		2 9 7 7 2		DATA ON				Tape/Diskette ID		File Name/Header		Lt. Oler		Not Sure fluorometry working			
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		CHAM S/N		MAX. DEPTH =		110 m	
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES								SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
				PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.	
1		110		110										27		2756	
2		75		74												53	
3		50		50												54	
4		40		41												53	
5		30		31												A64	
6		20		21												A63	
7		10		11												A62	
8		0		2												A61	
9																	
10																	
11																	
12																	

WHIT'S
NUTR.

CHL.

NUTR.

SAL.

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 25-1																					
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)													
2651627	17N	16928	084W	6	SEP	99	18	38	7.9	7.0	23.1	7				731		100	26												
SBE 9+ 09P89 1 6 6 0 TIMES JD/TIME DATA ON START DOWN AT DEPTH AT SURFACE																															
PRESS SN		2 9 7 7 2																													
PRI TEMP SN		884																													
SEC TEMP SN		889																													
PRI COND SN		530																													
SEC COND SN		303																													
POS. TRIP DEPTH 1 85 2 75 3 50 4 40 5 30 6 20 7 10 8 0 9 10 11 12				PAR S/N 4 2 4 2 <input checked="" type="checkbox"/> CTD CONVERTED MONITOR VALUES				FLUOR S/N 1 5 3 <input type="checkbox"/> CHIAM S/N				TRANS. S/N SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER															
PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY				SAL.				NUTR.				CHL.				WHIT'S NUTR.			
88																17				2764											
76																				2763											
50																				2762				✓							
40																				2761				✓							
30																				2760				✓							
20																				2759				✓							
10																				2758				✓							
0																				2757				✓							

☐ Cleaned air bleed valve

MAX. DEPTH = 89 m

[illegible]

[illegible]

VESSEL				PROJECT & LEG				DSDB I.D.				STATION DESIGNATION								
RV Miller Freeman				MF99-11								28-1								
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												
29	56	33.57	N	169	28.90	W	06	20	07	9.0	7.5	24	17						37	29
<div> <div>SBE 9+ 09P89 1 6 6 0</div> <div> <div> <div>TIMES</div> <div>JD/TIME</div> </div> <div> <div>DATA LOCATION</div> <div>File Name/Header</div> </div> </div> <div> <div> <div>DATA ON</div> <div>Tape/Diskette ID</div> </div> <div> <div>START DOWN</div> <div></div> </div> <div> <div>AT DEPTH</div> <div></div> </div> <div> <div>AT SURFACE</div> <div></div> </div> </div> </div>																				
PRESS SN	2 9 7 7 2																			
PRI TEMP SN	884																			
SEC TEMP SN	889																			
PRI COND SN	530																			
SEC COND SN	303																			
<div> <div> <div>PAR S/N</div> <div>4 2 4 2</div> </div> <div> <div>FLUOR S/N</div> <div>1 5 3</div> </div> </div>			<div> <div>ChAM S/N</div> <div></div> </div>			<div> <div>TRANS. S/N</div> <div></div> </div>			<div> <div>SAMPLE BOTTLE NUMBER</div> <div></div> </div>											
POS.	TRIP DEPTH	<div> <div>CTD CONVERTED MONITOR VALUES</div> <div> <div>SAMPLE BOTTLE DATA</div> <div> <div>SALINITY</div> <div></div> </div> <div> <div>SALINITY</div> <div></div> </div> <div> <div>SEC. TEMP.</div> <div></div> </div> <div> <div>PRI. TEMP.</div> <div></div> </div> <div> <div>PRESSURE</div> <div></div> </div> </div> </div>																		
1	36																			
2	30																			
3	20																			
4	10																			
5	0																			
6																				
7																				
8																				
9																				
10																				
11																				
12																				

1st Station - St. Paul Island (shallow end)

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 54-1 A10																									
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	
305714-73N		17012		72W		09 SEP 99		0446		10.0		9.0		0606		Lt air												18		30	
SBE 9+ 09P89		1660																													
PRESS SN		29772																													
PRI TEMP SN		884																													
SEC TEMP SN		889																													
PRI COND SN		530																													
SEC COND SN		303																													
POS.		TRIP DEPTH																													
1		756																													
2		40																													
3		40																													
4		30																													
5		20																													
6		10																													
7		0																													
8																															
9																															
10																															
11																															
12																															

REMARKS

20 per

WD 14

Cleared air bleed valve

MAX. DEPTH = m

TRANS. S/N 15

SAMPLE BOTTLE NUMBER

DATA LOCATION

File Name/Header

Tape/Diskette ID

CHAM S/N

FLUOR S/N 1 5 3

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SALINITY

SALINITY

SEC. TEMP

PRI. TEMP.

PRESSURE

TRIP DEPTH

POS.

WHIT'S NUTR.

CHL.

SAL.

NUTR.

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 (°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							
325717	24	N	17010	03	W	09	SEP	99	0526	10.0	9.0	0603	1	1	1	1	1	1	38	32								
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													MAX. DEPTH = 34 m	
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																				SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
1	30	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY																SALINITY		SAL.	NUTR.	CHL.	WHIT'S NUTR.		
2	20																											
3	10																											
4	0																											
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

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		
235718	DEG	MIN	DEG	MIN	DAY	MO	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	*	(m)			
SBE 9+ 09P89		17009.18		09		0544		9.8	9.8	9.8	20603	4	4	4	4	4	49	33		
TIMES		JD/TIME		DATA LOCATION		REMARKS														
PRESS SN		29772		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		4242		FLUOR S/N		153		CHIAM S/N		TRANS. S/N		SAMPLE BOTTLE DATA				
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.	CHL.	WHIT'S NUTR.
1	40															7		---		
2	30																	2795		
3	20																	2794		
4	10																	2793		
5	0																	2792		
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		DAY		MO		YR		HR		MIN		°C		°C		(mb)		*		(m)																																					
365723		39 N		17005		95 W		09		S		E		P		0703		8.9		8.9		207		207		207		207		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				SAL.				NUTR.				CHL.				WHIT'S NUTR.																			
1 50																																22				2810				✓																							
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 8.00

~32m

PG ____ OF ____

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 61-1 A3																				
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)	(deg)	(m/s)	*	*	(m)										
37	57	25	85	N	17	00	2	00	W	09	S	E	P	07	33	8	5	8	00	82	70	65	14	12	63	37
SBE 9+ 09P89 1 6 6 0																										
TIMES JD/TIME																										
DATA ON																										
PRESS SN 2 9 7 7 2																										
PRI TEMP SN 884																										
SEC TEMP SN 889																										
PRI COND SN 530																										
SEC COND SN 303																										
CTD CONVERTED MONITOR VALUES																										
PAR S/N		4 2 4 2		FLUOR S/N		1 5 3		CHAM S/N		TRANS. S/N																
POS.		TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.		
1	50																									
2	40																									
3	30																									
4	20																									
5	10																									
6	0																									
7																										
8																										
9																										
10																										
11																										
12																										

W20 56

Cleared air bleed valve

MAX. DEPTH = 57 m

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 (°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
385729	29	39 N	17000	089 W	9	SEP	9	0810	8.5	8.1	1082	6	060	10	67	12	38		
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 w/o 59																			
Cleaned air bleed valve																			
MAX. DEPTH = 61 m																			
TRAN. 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		SALINITY		SALINITY		SAL.		NUTR.	CHL.	WHIT'S NUTR.	
1	60	61												14 1282					
2	50	51												9221					
3	40	46												9220					
4	30	31												1219					
5	20	20												1218					
6	10	10												1217					
7	0	2												2816					
8																			
9																			
10																			
11																			
12																			

[illegible]

VESSEL			PROJECT & LEG			DSDB I.D.			STATION DESIGNATION														
RV Miller Freeman			MF99-11						70-2														
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	
405730.03N	17001.33W	11	SEP	99	0146													67	70				
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION														REMARKS			
PRESS SN 2 9 7 7 2		DATA ON				No Weather																	
PRI TEMP SN 884		START DOWN				File Name/Header																	
SEC TEMP SN 889		AT DEPTH																					
PRI COND SN 530		AT SURFACE																		Cleared air bleed valve			
SEC COND SN 303																				MAX. DEPTH = 63 m			
POS.	TRIP DEPTH	PAR S/N 4 2 4 2		FLUOR S/N 1 5 3		CHAM S/N		SAMPLE BOTTLE DATA												TRANS. S/N			
		CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE NUMBER																	
1	40	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY														SAL.	NUTR.	CHL.	WHIT'S NUTR.
2	50	(63)																			1926		
3	40																				1925	✓	
4	30																				1924	✓	
5	20																				1923	✓	
6	10																				1922	✓	
7	0																				1921	✓	
8																							
9																							
10																							
11																							
12																							

VESSEL RV Miller Freeman						PROJECT & LEG MF99-11							DSDBI.D.								STATION DESIGNATION 73-11										
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)	(°C)	(mb)	*	*	*	*	(deg)	(m/s)	*	*	*	*	(m)						
41	5724	76	N	1700	44	12	S	E	P	17	14	9.9	8.9	90.1	47.1	30.8	47.3	10.60	41												
SBE 9+ 09P89 1 6 6 0																															
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				CTD CONVERTED MONITOR VALUES																											
1	bottom 55			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		WHIT'S NUTR.							
2	50																			1933											
3	40																			1932		✓									
4	30																			1931		✓									
5	25																			1930		✓									
6	20																					✓									
7	15																			1929		✓									
8	10																					✓									
9	5																			1928		✓									
10	0																					✓									
11																															
12																				1927		✓									

Telly in 10 ~ 40m?

PG ____ OF ____

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	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																25			
2	40																			
3	30																			
4	25																			
5	20																			
6	15																			
7	10																			
8	5																			
9	0																			
10																				
11																				
12																				

[illegible]

[illegible]

VESSEL				PROJECT & LEG				DSDB I.D.				STATION DESIGNATION																			
RV Miller Freeman				MF99-11								84-1 B2																			
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)			
455647.37		N		1703		.43		W		14		S E P		18		43		8.0		7.1		114272		60097		781		105		45	
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 SN 4 2 4 2				<input checked="" type="checkbox"/> FLUOR SN 1 5 3				<input type="checkbox"/> CHIAM SN																			
POS. TRIP DEPTH				CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER																			
1 95				PRESSURE				PRI TEMP.				SEC. TEMP				SALINITY				SAL. NUTR. CHL. WHIT'S NUTR.											
2																				35											
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION							
RV Miller Freeman		MF99-11				85-1 132.5							
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
465650.39 N	17028.49 W	49W	4 SEP 99	1913	8.0	7.1	142	72600	06	74	102	46	
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 SN 4 2 4 2		FLUOR SN 1 5 3		CHIAM SN		TRANS. SN					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		WHIT'S NUTR.					
1	91	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY								
2													
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

See Sal ~ 35m

PG 47 OF

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION							
RV Miller Freeman		MF99-11				86-1 B3							
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
475653.15N	17026.73W	17026.73W	14 SEP 99	1942	8.1	7.5	43725009	731	98	731	98	47	
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 SN 4 2 4 2 <input checked="" type="checkbox"/> FLUOR SN 1 5 3 <input type="checkbox"/> CHIAM SN											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER							
1	82	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SAL.	NUTR.	CHL.	WHIT'S NUTR.		
2								7					
3													
4													
5													
6													
7													
8													
9													
10													
11													
12													

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION												
RV Miller Freeman		MF99-11				87-1 B4												
CONSCAST #	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
485654.97N	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN								92	48
17023.77W			14 SEP 99			2010			8.5	7.9	1437	250	10	7/8				
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														
PRI TEMP SN		884		START DOWN														
SEC TEMP SN		889		AT DEPTH														
PRI COND SN		530		AT SURFACE														
SEC COND SN		303																
TRIP DEPTH		86		PAR S/N		4 2 4 2		FLUOR S/N		1 5 3		CHIAM S/N		TRANS. S/N				
POS.				CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER								
PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY						
1		86																
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

0084

Cleaned air bleed valve

MAX. DEPTH = 86 m

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION								
RV Miller Freeman		MF99-11				88-L B5								
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	WET BULB (°C)	DRY BULB (°C)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
495657.01 N	17021.57 W	DEG	MIN	DEG	MIN	HR	MIN	HR	MIN	HR	MIN	SEA STATE	VISIBILITY	741
		17021.57	01	17021.57	01	037	01	037	01	037	01	037	01	49
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		CHIAM S/N								
TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER								
POS.		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY									
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

W077

Cleaned air bleed valve

MAX. DEPTH = 79 m

TRANS. S/N

SAMPLE BOTTLE NUMBER

WHIT'S NUTR.

CHL.

NUTR.

SAL.

3

~ 2 hr break between
Core Methods

VESSEL RV Miller Freeman				PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 89-1 136																			
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)		*		TYPE		* (m)			
5057		00.20N		170.18		78.20W		14		SEP		99		23		41		29		11		43		7		1		64		50	
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				CHAM S/N				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER											
				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY				SAL.											
1																				13											
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																
RV Miller Freeman		MF99-11				90-1 137																
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)				
515702.58	N	17016.99	W	14	SEP	99	23	42	10.1	9.10	141	7	22	00	77	1	53	51				
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																						
TIMES JD/TIME DATA ON START DOWN AT DEPTH AT SURFACE																						
DATA LOCATION Tape/Diskette ID File Name/Header 60 45 <input type="checkbox"/> Cleaned air bleed valve MAX. DEPTH = 48 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 CHLOR S/N																				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA																
1						SALINITY																
2						SALINITY																
3						SALINITY																
4						SALINITY																
5						SALINITY																
6						SALINITY																
7						SALINITY																
8						SALINITY																
9						SALINITY																
10						SALINITY																
11						SALINITY																
12						SALINITY																
							SALINITY					SAL.					NUTR.		CHL.		WHIT'S NUTR.	
												18										

VESSEL RV Miller Freeman						PROJECT & LEG MF99-11				DSDB I.D.U.				STATION DESIGNATION 91-1 B8			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= DAY MO YR	TIME (GMT) HR MIN	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													
525705.51	N	17013.38	W	15	S E P 99	201711.0	9.012	1724011	771	34	52						
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																
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES															
		PAR S/N _ 4 2 4 2	FLUOR S/N _ 1 5 3	ChlAM S/N	SAMPLE BOTTLE DATA												
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SAL. NUTR. CHL. WHIT'S NUTR.											
1						71											
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

[illegible]

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION											
RV Miller Freeman		MF99-11								281194-1											
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	
545638	18°N	169°35'W	15	SEP 99	0456	8.9	8.0	01207220	05872	70	54										
SBE 9+09P89 1660		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS									
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	CHIAM S/N													
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER													
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY																
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

WD 62
☐ Cleaned air bleed valve
 MAX. DEPTH = 64 m

30

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION													
RV Miller Freeman		MF99-11				C71195-1													
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)		
555642	92 N	169	35	92	15	SEP	05	32	9.9	8.1	1207	200	04	87	7		80	55	
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																	
TRIP DEPTH																			
POS.																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

DATA LOCATION

Tape/Diskette ID File Name/Header

START DOWN

AT DEPTH

AT SURFACE

Cleaned air bleed valve

MAX. DEPTH = 73 m

TRANS. SN

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER

PRESSURE

PRI. TEMP.

SEC. TEMP.

SALINITY

SALINITY

WHIT'S NUTR.

SAL. NUTR. CHL.

1

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 104-1/04								
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)		
58	56	57.30	16	40.97	15	S	16	25	9.0	8.00	0527	1	40	19	8	2	63	58
SBE 9+ 09P99 1 6 6 0																		
PRESS SN		2 9 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																
TRIP DEPTH				PAR SN _ 4 2 4 2		FLUOR SN _ 1 5 3		CHIAM SN		TRANS. SN								
CTD CONVERTED MONITOR VALUES																		
POS.	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAL.		NUTR.		CHL.	
1													15					
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION									
RV Miller Freeman		MF99-11								105-1 / C3									
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	
595700.777N	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	(m)		
	169	42	21	W	15	S	E	P	9	9	8	0	7	00	43	7	15	52	58
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		<input checked="" type="checkbox"/> PAR SN 4 2 4 2 <input type="checkbox"/> FLUOR SN 1 5 3 <input type="checkbox"/> CHIAM S/N											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA													
1						SALINITY													
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
REMARKS		<input type="checkbox"/> Cleaned air bleed valve MAX. DEPTH = m																	
TRANS. S/N		SAMPLE BOTTLE NUMBER																	
		SAL.	NUTR.	CHL.	WHIT's NUTR.														
		5																	

[illegible]

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION												
RV Miller Freeman		MF99-11				107-1 / C1												
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	
61	57 06	46 N	169 44	41 W	15	S E P	17 47	8.0	7.0	004	3	7	140	21	802	54	61	
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																
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																
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAL.		NUTR.	CHL.	WHIT's NUTR.
1														21				
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

5-ond Line A A103

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION							
RV Miller Freeman		MF99-11				117-1							
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
625714.98	17 01 2.76	17 01 2.76	17 SEP 99	0220	8.3	7.2	4	470	65	138	55	26	62
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		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SAL.		NUTR.	CHL.	WHIT'S NUTR.
1	20								32		1936	✓	
2	10										1935	✓	
3	0										1934	✓	
4													
5													
6													
7													
8													
9													
10													
11													
12													

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION									
RV Miller Freeman		MF99-11								118-1 A9									
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
635716.13 N	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	(m)	
	170	11	170	11	17	SEP	99	02	39	9.0	7.5	84.4	7	060	15	855		30	63
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		CHIAM S/N		SAMPLE BOTTLE DATA							
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL. NUTR. CHL. WHIT's NUTR.							
1 20												40 1939 ✓							
2 10												1937 ✓							
3 0												1937 ✓							
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

1937

VESSEL RV Miller Freeman						PROJECT & LEG MF99-11							DSDB I.D.								STATION DESIGNATION 119-11 A2																																																													
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	SEC	DAY	MO	YR	HR	MIN	(°C)	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	*	*	(deg)	(m/s)	*	*	*	*	*	*	(m)																																																			
64	57	17	.16	N	17	01	02	W	17	S	E	P	9	9	02	56	8	.9	7	.3	44	7	0	6	5	1	8	8	5	5	3	8		64																																																
SBE 9+ 09P89 1 6 6 0																																	TIMES										DATA LOCATION										REMARKS																													
																																	JD/TIME										Tape/Diskette ID										File Name/Header																													
																																	DATA ON																																																	
																																	START DOWN																																																	
																																	AT DEPTH																																																	
																																	AT SURFACE																																																	
																																	PAR S/N 4 2 4 2										FLUOR S/N 1 5 3										CHIAM S/N																													
																																	SEC COND SN 303										CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA																													
																																	TRIP DEPTH										PRESSURE										PRI. TEMP.										SEC. TEMP.										SALINITY									
																																	1 30																																																	
																																	2 20																																																	
																																	3 10																																																	
																																	4 0																																																	
																																	5																																																	
																																	6																																																	
																																	7																																																	
																																	8																																																	
																																	9																																																	
																																	10																																																	
																																	11																																																	
																																	12																																																	

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 120-1 17												
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										
655718.02	N	17009.16	W	17	S	E	P	0317	8.7	7.2834	7	0651	8855	50	65			
SBE 9+ 09P89 1 6 6 0 TIMES JD/TIME DATA ON _____ START DOWN _____ AT DEPTH _____ 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 _____ CTD CONVERTED MONITOR VALUES TRAN. S/N _____ SAMPLE BOTTLE NUMBER _____																		
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAL.	NUTR.	CHL.	WHIT'S NUTR.							
1	40							4	✓	✓								
2	30							1947	✓	✓								
3	20							1946	✓	✓								
4	10							1945	✓	✓								
5	0							1944	✓	✓								
6																		
7																		
8																		
9																		
10																		
11																		
12																		

1944

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 121-1 A6															
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE (mb)	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID						
			DAY	MO	YR	HR	MIN	(°C)	(°C)		(deg)	(m/s)	*	(m)							
665719.42	N	17008.48	W	17	S	03	38	8.0	7.1	82470	08	2.5	855	52	66						
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																					
Cleaned air bleed valve																					
MAX. DEPTH = 45 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	CHIAM S/N	SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER					
1	40						PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.	28	NUTR.	1951	CHL.	1	WHIT'S NUTR.
2	30						PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.	1951	NUTR.	1951	CHL.	1	WHIT'S NUTR.
3	20						PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.	1950	NUTR.	1950	CHL.	1	WHIT'S NUTR.
4	10						PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.	1949	NUTR.	1949	CHL.	1	WHIT'S NUTR.
5	0						PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.	1948	NUTR.	1948	CHL.	1	WHIT'S NUTR.
6							PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.
7							PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.
8							PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.
9							PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.
10							PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.
11							PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.
12							PRI. TEMP.			SEC. TEMP.			SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.

1948

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION								
RV Miller Freeman		MF99-11								122-111A5								
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)	
675720.85	N	17008	04	W	17	S	E	P	9	0403	7.5	6.8	4	7075	22	855	57	67
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		CHIAM S/N		TRANS. S/N				
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
1	50	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT'S NUTR.								
2	40						17	1956	✓									
3	30							1955	✓									
4	20							1954	✓									
5	10							1953	✓									
6	0							1952	✓									
7																		
8																		
9																		
10																		
11																		
12																		

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 123-11 AY								
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
685723	55	N	17006	25	W	17	S	E	P	9	0439	7.6	7.0844	7065	1885		60	68
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																		
<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 CTD CONVERTED MONITOR VALUES																		
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		TRANS. S/N				
1	50									SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.
2	40											27		1961		✓		
3	30													1960		✓		
4	20													1959		✓		
5	10													1958		✓		
6	0													1957		✓		
7																		
8																		
9																		
10																		
11																		
12																		

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION								
RV Miller Freeman		MF99-11								124-11A 3.5								
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
695724	72 N	17	004	73	W	17	0504	7.0	6.5	844	706	015	855	62	69			
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		ChlAM S/N												
TRIP DEPTH		CTD CONVERTED MONITOR VALUES																
POS.		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA												
1	50																	
2	40																	
3	30																	
4	20																	
5	10																	
6	0																	
7																		
8																		
9																		
10																		
11																		
12																		

2. 40m

1962

VESSEL		PROJECT & LEG				DSDB I.D.				STATION DESIGNATION										
RV Miller Freeman		MF99-11								125-11/13										
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)		
705725.95N	17003	12W	17	17	SEP	99	0530	7.0	6.1	844	7055	855	855	63	70					
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																	
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		TRANS. S/N		SAMPLE BOTTLE		DATA		SAMPLE BOTTLE NUMBER	
POS.	TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.	
1	50																			
2	40																			
3	30																			
4	20																			
5	10																			
6	0																			
7																				
8																				
9																				
10																				
11																				
12																				

VESSEL		PROJECT & LEG				DSDB I.D.		STATION DESIGNATION												
RV Miller Freeman		MF99-11						126-11172												
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)		
715729.45	N	17	00	07	6	W	17	05	57	05	05	57	05	57	05	19	8	1	67	71
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																
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. S/N						
POS.	TRIP DEPTH			CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
1	6(60)			PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		
2	50															1977		✓		
3	40															1976		✓		
4	30															1975		✓		
5	20															1974		✓		
6	10															1973		✓		
7	0															1972		✓		
8																				
9																				
10																				
11																				
12																				

Check

1294?

A3.5

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 130-1																
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amb)	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(mb)	*	(deg)	(m/s)	*	*	(m)					
73	57	24	70	N	17	04	69	W	1	00	6	7	0	6	1	8	1	6	73			
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																						
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											SAMPLE BOTTLE NUMBER		TRANS. S/N	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY														SAL.	CHL.	WHIT'S NUTR.	
1	50	50																	5			
2	40	40																				
3	30	30																				
4	20	19																				
5	10	12																				
6	0	2																				
7																						
8																						
9																						
10																						
11																						
12																						

REMARKS

48 w/o

50

Cleaned air bleed valve

MAX. DEPTH = 50 m

TRANS. S/N

SAMPLE BOTTLE NUMBER

5

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	WHIT'S NUTR.
1	50	50				5	
2	40	40					
3	30	30					
4	20	19					
5	10	12					
6	0	2					
7							
8							
9							
10							
11							
12							

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION																									
RV Miller Freeman		MF99-11				29-3																									
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		
74	57	29	44	N	17	00	75	W	17	S	06	48	23	7	35	01	78	6	68	74											
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																													
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 57		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		DATA		SAMPLE BOTTLE		SAL.		NUTR.		CHL.		WHIT'S									
2 50		56																													
3 40		49																													
4 30		38																													
5 20		29																													
6 10		19																													
7 0		10																													
8																															
9																															
10																															
11																															
12																															

Program froze when tried to close it. Had to reboot the computer

VESSEL RV Miller Freeman						PROJECT & LEG MF99-11							DSDB I.D.								STATION DESIGNATION 130-1												
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	
DEG	MIN	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	*	(m)										
75	5755	.74	N	169	19	.17	W	17	S	E	P	9	9	1408	7.4	7.080	370	10	5												75		
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																																	
POS.		TRIP DEPTH																															
1	56																																
2	50																																
3	40																																
4	30																																
5	20																																
6	10																																
7	0																																
8																																	
9																																	
10																																	
11																																	
12																																	

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 134-1																			
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	
765804.03		N 16843.91		W 1641		17 SEP 99		1641		7.2		6.2		0.2		0.3		0.5		0.5		0.5		872		70		76	
SBE 9+ 09P89 1 6 6 0		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS		w/o = 58 m															
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																							
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.													
1 60		PRESSURE 60		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		13		1231															
2 50		51																											
3 40		41																											
4 30		32																											
5 20		21																											
6 10		10																											
7 0		2																											
8																													
9																													
10																													
11																													
12																													

31.5 m Coccolithophion layer 3

Richard said we were back in coccoliths since the first sm.

Corroded pin on PAR → Mooring

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		STATION DESIGNATION 132-1																											
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	
775751		16 N		16852.46 W		17 SEP 99		1824		8.0		7.08		17		4		17		4		17		872		72		77			
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																													
POS.		TRIP DEPTH																													
1		60		PRESSURE		60		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		WHIT'S NUTR.									
2		50		60		51																									
3		40		40		30																									
4		30		20		10																									
5		20		10		3																									
6		10																													
7		0																													
8																															
9																															
10																															
11																															
12																															

REMARKS

File Name/Header

Tape/Diskette ID

DATA LOCATION

DATA ON

START DOWN

AT DEPTH

AT SURFACE

Cleaned air bleed valve

MAX. DEPTH = 60 m

TRANS. SN

Chiam SN

FLUOR SN 1 5 3

PAR SN 4 2 4 2

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE NUMBER

SAMPLE BOTTLE DATA

CTD CONVERTED MONITOR VALUES

CTD CONVERTED MONITOR VALUES

[illegible]

[illegible]

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 134-1								
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		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
805745	45	96 N	168	27	87	W	17	S	22	5	6.9	6.0	8.1	47	64	30	71	80
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																		
<div> <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 </div>																		
CTD CONVERTED MONITOR VALUES																		
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA												
1	65					SAL. NUTR. CHL. WHIT'S NUTR.												
2	50					10 1252 ✓												
3	40					1251 ✓												
4	30					1250 ✓												
5	20					1249 ✓												
6	10					1248 ✓												
7	0					1247 ✓												
8						1246 ✓												
9																		
10																		
11																		
12																		

604

Cleaned air bleed valve

MAX. DEPTH = 65 m

TRANS. S/N

SAMPLE BOTTLE NUMBER

Chiam S/N

SAMPLE BOTTLE DATA

SALINITY

SALINITY

SEC. TEMP.

PRI. TEMP.

PRESSURE

WHIT'S NUTR.

CHL.

NUTR.

SAL.

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

SALINITY

70m Bobath ~~shil coral~~

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11		DSDB I.D.		STATION DESIGNATION 136-1							
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	SEA STATE VISIBILITY	WIND DIRN. (deg)	WIND SPD (m/s)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
815738	05 N	16736.94	18 SEP 99	0154	7.2	6.78	137320	188	71	71	81		
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		NOT		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
1	65	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY		SAL.	NUTR.	CHL.	WHIT'S NUTR.		
2	50							16	1259				
3	40								1258				
4	30								1257				
5	20								1256				
6	10								1254				
7	0								1253				
8													
9													
10													
11													
12													

20 64

Cleaned air bleed valve

MAX. DEPTH = 65 m

TRANS. S/N

SAMPLE BOTTLE NUMBER

CTD CONVERTED MONITOR VALUES

NOT

d variable in 1253

Shil coral b-rhs, but patchy! Possibly near edge.

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 136-1										
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)			
825732	04	N	166	43	18	SEP	06	13	9.0	8.1	1804	7	305	20	8	16	69	82		
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> <div> <input 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 </div> <div> <input type="checkbox"/> TRAN. S/N </div> </div>																				
<div> <div>DATA ON</div> <div>START DOWN</div> <div>AT DEPTH</div> <div>AT SURFACE</div> </div>																				
<div> <div>Tape/Diskette ID</div> <div>File Name/Header</div> </div>																				
<div> <div>MAX. DEPTH = 64 m</div> <div>Cleaned air bleed valve <input type="checkbox"/></div> </div>																				
REMARKS 20 63																				
<div> <div>CTD CONVERTED MONITOR VALUES</div> <div>off</div> </div>																				
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.	CHL	WHIT'S NUTR.
1	65													22 1266		22		1266	✓	
2	50													1265		1265		✓		
3	40													1264		1264		✓		
4	30													1263		1263		✓		
5	20													1262		1262		✓		
6	10													1261		1261		✓		
7	0													1260		1260		✓		
8																				
9																				
10																				
11																				
12																				

5th week's // Fluor was 0

1260

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION							
RV Miller Freeman		MF99-11				137-1							
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
835725.02	16551.73W	18 SEP 99	0907	8.8	8.8	8.8	163101	8.8	2	69	83		
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		CTD CONVERTED MONITOR VALUES		FLUOR S/N 1 5 3		CHIAM S/N		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
1	50	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT'S NUTR.			
2	50	51					7	1273					
3	40							1272					
4	30							1271					
5	20							1270					
6	10							1269					
7	0							1268					
8								1267					
9													
10													
11													
12													

☐ Cleaned air bleed valve

MAX. DEPTH = 59 m

VESSEL RV Miller Freeman		PROJECT & LEG MF99-11				DSDB I.D.				STATION DESIGNATION 138-1														
CONSC CAST #	DEG	MIN	LATITUDE		DEG	MIN	LONGITUDE		DAY	MO	YR	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)	S-T-A NAME-ID
84	57	06	90	N	165	0	27	W	18	S	99	1206	10	0	9	28	12	73	23	16	87	2	70	84
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		CHIAM S/N												
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SALINITY		SALINITY		SAL.		NUTR.		CHL		VISITS NO. IR.						
1	60			PRESSURE		60		PRI. TEMP.				SEC. TEMP.				SALINITY		30		1280				
2	50			PRESSURE		50		PRI. TEMP.				SEC. TEMP.				SALINITY		1279		1278				
3	35			PRESSURE		36		PRI. TEMP.				SEC. TEMP.				SALINITY		1277		1276				
4	25			PRESSURE		25		PRI. TEMP.				SEC. TEMP.				SALINITY		1275		1274				
5	20			PRESSURE		20		PRI. TEMP.				SEC. TEMP.				SALINITY								
6	10			PRESSURE		10		PRI. TEMP.				SEC. TEMP.				SALINITY								
7	0			PRESSURE		3		PRI. TEMP.				SEC. TEMP.				SALINITY								
8				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY								
9				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY								
10				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY								
11				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY								
12				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY								

VESSEL		PROJECT & LEG				DSDB I.D.		STATION DESIGNATION										
RV Miller Freeman		MF99-11						139-1										
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/D	
855652-36N	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN								85	
	164	03	45	W	18	S	E	P	9	9	28	27	280	188	6	72		
SBE 9+ 09P89	1	6	6	0														
PRESS SN	2	9	7	2														
PRI TEMP SN	884																	
SEC TEMP SN	889																	
PRI COND SN	530																	
SEC COND SN	303																	
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER										
1	61	61						35										
2	50	50																
3	50	50																
4	44	44																
5	44	44																
6	44	44																
7	36	30																
8	24	24																
9	24	24																
10	24	24																
11	1320	21																
12	00	0																

☐ Cleaned air bleed valve
MAX. DEPTH = 61

TRANS. S/N
SAMPLE BOTTLE NUMBER

Chiam S/N

FLUOR S/N 1 5 3

PAR S/N 4 2 4 2

FLUOR S/N 1 5 3

VESSEL		PROJECT & LEG		DSDB I.D.		STATION DESIGNATION													
RV Miller Freeman		MF99-11				139-2													
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	
865652.35 N	DEG MIN	16403.13 W	DEG MIN	18 SEP 99	DAY MO YR	HR MIN	8.9	8.9	2.58	2.58	27	27	27	27	1	5	72	86	
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																	
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		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER													
1	13	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY														
2	13	13																	
3	13	14																	
4	5	5																	
5	5	5																	
6	5	5																	
7																			
8																			
9																			
10																			
11																			
12																			

purplet

WHIT'S NUTR.

CHL.

NUTR.

SAL.