

[illegible]

VESSEL		PROJECT & LEG				STATION DESIGNATION													
NOAA R/V MILLER FREEMAN		MF99-05B																	
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)	
0425	51	51	16	35	22	W	09	22	39	3.8	2.4	1733	7	35	5	11	862	59	IFM12
CTD		TIMES		JD/TIME		DATA LOCATION													
				APR		Tape/Diskette ID File Name/Header													
TYPE & SN		9+ S/N 91660																	
PRESS SN		29772																	
TEMP SN		884/889																	
COND SN		530/303																	
						MAX. DEPTH = 56 m													
TRIP DEPTH						Cleaned air bleed valve													
						SAMPLE BOTTLE DATA													
POS.						SAMPLE BOTTLE DATA													
						SAL. NUTR. CHL. WHIT's NUTR.													
1		60				33													
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

VESSEL NOAA RV MILLER FREEMAN						PROJECT & LEG MF99-05B								STATION DESIGNATION																																
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)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID																								
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN												(°C)	(mb)	*	(deg)	(m/s)	*	(m)																	
003	55	22	.85 N	164	07	.1 W	23	MAY	99	00	59	1.9	1.3	173	7	3	15	13	7	62	97	IF 13																								
CTD					JD/TIME			APR																																						
TYPE & SN		9+ S/N 91660			DATA ON																																									
PRESS SN		29772			START DOWN																																									
TEMP SN		884/889			AT DEPTH																																									
COND SN		530/303			AT SURFACE																																									
					PAR 4242			FLUOR 153			CHAM 109			TRANSMISSOMETER			Cleaned air bleed valve																													
POS.		TRIP DEPTH			CTD CONVERTED MONITOR VALUES																		SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER																			
1		93			PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY													SAL.	NUTR.	CHL.	WHIT'S NUTR.																				
2																																														
3																																														
4																																														
5																																														
6																																														
7																																														
8																																														
9																																														
10																																														
11																																														
12																																														

VESSEL		PROJECT & LEG		STATION DESIGNATION																		
NOAA R/V MILLER FREEMAN		MF99-05B																				
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 (am)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
004	56	25.15	N	160	12.9	W	23	15	24	-1.5	-2.0	19	4	7	27	5	1	2	29	KC981		
CTD				TIMES				JD/TIME				DATA LOCATION				REMARKS						
TYPE & SN				DATA ON				Tape/Diskette ID				File Name/Header										
PRESS SN				START DOWN																		
TEMP SN				AT DEPTH																		
COND SN				AT SURFACE																		
				PAR 4242				FLUOR 153				CHIAM 109				Cleaned air bleed valve						
				CTD CONVERTED MONITOR VALUES																		
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.	CHL.	WHIT'S NUTR.
1																		27				
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

VESSEL		PROJECT & LEG				STATION DESIGNATION													
NOAA R/V MILLER FREEMAN		MF99-05B																	
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)	
4455625.47N	16013.58W	23	MAY	99	18	48	-1.8	-2.0	20	37	29	5	13	86	2	26	KC99J		
CTD	TIMES		JD/TIME		DATA LOCATION														
TYPE & SN	9+ S/N 91660		DATA ON		Tape/Diskette ID File Name/Header														
PRESS SN	29772		START DOWN																
TEMP SN	884/889		AT DEPTH																
COND SN	530/303		AT SURFACE																
					<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> FLUOR 153 <input checked="" type="checkbox"/> CHLOR 109 <input type="checkbox"/> TRANSMISSOMETER <input type="checkbox"/> Cleaned air bleed valve					SAMPLE BOTTLE DATA									
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
1	22	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT'S NUTR.								
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

MAX. DEPTH = m

[illegible]

[illegible]

[illegible]

[illegible]

VESSEL						PROJECT & LEG							STATION DESIGNATION												
NOAA RV MILLER FREEMAN						MF99-05B																			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)					
0115646.75 N	164	14.98	W	24	MAY	99	16	41	-3.4	-3.8	3.4	4	7	3	17	22	77	2	76	M 2 A					
CTD		JD/TIME		TIMES		REMARKS																			
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header																			
PRESS SN		START DOWN																							
TEMP SN		AT DEPTH																							
COND SN		AT SURFACE				68m w/b																			
						MAX. DEPTH = m																			
POS.	TRIP DEPTH	PAR 4242		<input checked="" type="checkbox"/> FLUOR 153	<input checked="" type="checkbox"/> CHIAM 109	<input type="checkbox"/> TRANSMISSOMETER		<input type="checkbox"/> Cleaned air bleed valve		SAMPLE BOTTLE DATA												SAMPLE BOTTLE NUMBER			
		PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY														SAL.	NUTR.	CHL.	WHIT'S NUTR.		
1	74																			16					
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

VESSEL		PROJECT & LEG				STATION DESIGNATION																		
NOAA R/V MILLER FREEMAN		MF99-05B																						
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)						
012	56	52.53	N	164	03.88	W24	99	17	29	-3.0	-3.1	32.4	7	31	6	19	58	1	73	M2				
CTD		TIMES		JD/TIME		DATA LOCATION														REMARKS				
TYPE & SN		9+ S/N 91660		DATA ON		Tape/Diskette ID		File Name/Header																
PRESS SN		29772		START DOWN																				
TEMP SN		884/889		AT DEPTH																		66 w/o		
COND SN		530/303		AT SURFACE																		67 m		
TRIP DEPTH		67		CTD CONVERTED MONITOR VALUES		PAR 4242		FLUOR 153		CHIAM 109		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
POS.	1	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY														SAL.	NUTR.	CHL.	WHIT's NUTR.
2																					19			
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

VESSEL				PROJECT & LEG				STATION DESIGNATION																					
NOAA R/V MILLER FREEMAN				MF99-05B																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		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)		(mb)		*		*		(deg)		(m/s)		* * *		(m)					
0235751.23N		16851.87W		27 APR 99		1335		1.8		9.1		1838		112		238		72		73				M4					
CTD				TIMES				JD/TIME				DATA LOCATION				REMARKS													
TYPE & SN				9+ S/N 91660				DATA ON				Tape/Diskette ID				File Name/Header													
PRESS SN				29772				START DOWN																					
TEMP SN				884/889				AT DEPTH																					
COND SN				530/303				AT SURFACE								MAX. DEPTH = 67 m													
TRIP DEPTH				PAR 4242				FLUOR 153				CHAM 109				TRANSMISSOMETER													
POS.				CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER																	
PRESSURE				PRI. TEMP.				SEC. TEMP.				PRI. SALINITY				SEC. SALINITY													
1				70.												SAL. 24													
2				50.												NUTR. 2055													
3				40.												NUTR. 2054													
4				30.												NUTR. 2053													
5				20.												NUTR. 2052													
6				10.												NUTR. 2051													
7				0												NUTR. 2050													
8																													
9																													
10																													
11																													
12																													

[illegible]

[illegible]

[illegible]

[illegible]

VESSEL			PROJECT & LEG			STATION DESIGNATION																			
NOAA RV MILLER FREEMAN			MF99-05B																						
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			
02855	55	S	168	39	W	29	A	P	99	08	11	2.5	19	37	196	22	8	75		154	SG4				
CTD		JD/TIME			DATA LOCATION										REMARKS										
TYPE & SN		DATA ON			Tape/Diskette ID			File Name/Header										Calibration Cast shortly after 99SG4 recovered max W/O = 146m MAX. DEPTH = 146 m							
PRESS SN		START DOWN																							
TEMP SN		AT DEPTH																							
COND SN		AT SURFACE																							
PAR 4242		FLUOR 153		CHAM 109		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA												SAMPLE BOTTLE NUMBER			
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAL.				NUTR.		CHL		WHIT'S NUTR.	
1	146															3									
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

[illegible]

[illegible]