

DEPTH ON MOD FORM NEEDS TO BE CORRECTED -
ACTUAL DEPTH = MOD DEPTH + 5m

VESSEL		PROJECT & LEG		STATION DESIGNATION																					
NOAA RV MILLER FREEMAN		MF02-05																							
CONSC	LATITUDE	LONGITUDE		DATE JD= 116		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID							
CAST #	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	*	*	(m)								
001	54 03 . 42 N	12 01 13 . 06 W	28 APR 02	12 45	9.7	8.6	09.37	11	00	20	56	1	7	7	CT	DD	00	00							
CTD	441	TIMES		JD/TIME		DATA LOCATION													REMARKS						
TYPE & SN	9+ S/N 91660	DATA ON				Tape/Diskette ID		File Name/Header											calibration cast						
PRESS SN	29772	START DOWN																	measuring 41AKP-1B						
TEMP SN	884/889	AT DEPTH																							
COND SN	530/303	AT SURFACE																	MAX. DEPTH = 260 m						
		<input checked="" type="checkbox"/> PAR 4242	<input type="checkbox"/> FLUOR 153	<input type="checkbox"/> CHAM 109	<input type="checkbox"/> TRANSMISSOMETER	<input type="checkbox"/> Cleaned air bleed valve																			
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES																							
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER										SAMPLE BOTTLE NUMBER						
								8046X 01	Niskin bottle impl. at 2m recovery										41						
1																			SAL.			NUTR.	CHL.	WHIT'S NUTR.	
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

[illegible]

[illegible]

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF02-05				STATION DESIGNATION									
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD= 19		TIME (GMT)	DRY BULB	WET BULB	PRESSURE SEA STATE VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID
00453355.92N	16555.26W	29	19	02	0255	5.1	5.0	1345	18080	877	1010	CTD004			
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				CTD004								
TEMP SN	884/889		AT DEPTH												
COND SN	530/303		AT SURFACE												
POS. TRIP	<input checked="" type="checkbox"/> PAR 4242		<input type="checkbox"/> FLUOR 153		<input type="checkbox"/> CHAM 109		<input type="checkbox"/> TRANSMISSOMETER		<input type="checkbox"/> Cleaned air bleed valve						
DEPTH	CTD CONVERTED MONITOR VALUES														
	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT'S					
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

MAX. DEPTH = m

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF02-05		STATION DESIGNATION																											
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD= 119		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	
6455144.18N		14921.69W		29 APR 02		1918		4.7		4.0		21.2		721		7		7		7		7		8715		44					
CTD		φ45		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														New Primary Sensor													
TEMP SN		884/889		AT DEPTH														C-915													
COND SN		580/303		AT SURFACE														MAX. DEPTH = 1544 m													
POS. TRIP DEPTH				<input checked="" type="checkbox"/> PAR 4242		<input type="checkbox"/> FLUOR 153		<input type="checkbox"/> CHAM 109		<input type="checkbox"/> TRANSMISSOMETER		<input type="checkbox"/> Cleaned air bleed valve		CTD CONVERTED MONITOR VALUES																	
		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER															
1														39		SAL.		NUTR.		CHL.		WHIT'S NUTR.									
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

you turned out to be due
to unrelated problem (broken)
Coronado CTD (sea cable wire) - PAR is
working okay

Light Meter rotated to 1000m, taken to 1544m
fastest, turned our back out on way up, New

[illegible]

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION													
NOAA RV MILLER FREEMAN		MF02-05															
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=120	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
48	52.15.91 N	169.41.46 W	3 APR 02	1121	4.5	3.5	243	2626	581	1866	45020						
CTD	48	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	580/303	AT SURFACE															
		<input type="checkbox"/> PAR 4242	<input type="checkbox"/> FLUOR 153	<input type="checkbox"/> CHLAM 109	<input type="checkbox"/> TRANSMISSOMETER												
		<input type="checkbox"/> Cleaned air bleed valve															
POS.	TRIP	CTD CONVERTED MONITOR VALUES												SAMPLE BOTTLE	SAMPLE BOTTLE NUMBER		
DEPTH		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHITS						
1																	
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

MAX. DEPTH = m

[illegible]

[illegible]

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA R/V MILLER FREEMAN		MF99-06 4245													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=121	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
0125224.73N	17138.29W	41 MAY 02	0904	5.4	5.4	33.24	16.2	24	16.2	24	66.3	452	452	0.442	2
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													
PAR 4242		FLUOR 153	CHAM 109	TRANSMISSOMETER		Cleaned air bleed valve									
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL. BOTTLE DATA	SAMPLE BOTTLE NUMBER						
1									SAL.	NUTR.	CHL.	WHIT'S			
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

MAX. DEPTH = 447 m

452 w/o

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA RV MILLER FREEMAN		MF02-05														
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=121	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
613	5223.57 N	17154.35 W	01 MAY 02	1044	5.3	5.3	3323	2177	21	864	343	AMP	3			
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	580/303		AT SURFACE													
PAR 4242			FLUOR 153			CHIAM 109			TRANSMISSOMETER			Cleaned air bleed valve				
CTD CONVERTED MONITOR VALUES																
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHITS	SAMPLE BOTTLE NUMBER			
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

MAX. DEPTH = 295 m

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA RV MILLER FREEMAN		ME02-05													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=121	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	(m)	
41	52	22	17	24	6	3	9	W	4	1	8	7	4	3	6
4	2	2	4	4	N										
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	520/303		AT SURFACE												
PAR 4242			FLUOR 153			CHAM 109			TRANSMISSOMETER			Cleared air bleed valve			
CTD CONVERTED MONITOR VALUES															
POS.	TRIP	SAMPLE BOTTLE DATA										SAMPLE BOTTLE NUMBER			
DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHITS					
1															
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

w/c 364

MAX. DEPTH = 364 m

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA R/V MILLER FREEMAN		MF02-05														
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=121	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
8165522.78N	17248.47W	11MAY02	1842	5.1	4.9	302	7138	1986	1	368	AMP4C					
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	580/303	AT SURFACE														
PAR 4242		FLUOR 153	CHAM 109	TRANSMISSOMETER		Cleaned air bleed valve										
POS. TRIP DEPTH	CTD CONVERTED MONITOR VALUES															
	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT'S NUTR.	SAMPLE BOTTLE DATA					SAMPLE BOTTLE NUMBER
1							15									
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

MAX. DEPTH = 375 m

[illegible]

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION															
NOAA RV MILLER FREEMAN		MF02-05																	
CONSC	LATITUDE	LONGITUDE	DATE JD=122	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
CAST #	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)				
019	5226.78 N	17128.12 W	02 MAY 02	0458	4.9	4.6	253	6	6	167	22	862	455	AMPIA					
CTD	TIMES		JD/TIME		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	580/303		AT SURFACE																
POS.	TRIP DEPTH	<input checked="" type="checkbox"/> PAR 4242		<input type="checkbox"/> FLUOR 153	<input type="checkbox"/> CHAM 109	<input type="checkbox"/> TRANSMISSOMETER	<input type="checkbox"/> Cleaned air bleed valve												
		CTD CONVERTED MONITOR VALUES																	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT'S NUTR.	SAMPLE BOTTLE DATA					SAMPLE BOTTLE NUMBER		
1								55											
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

VESSEL		PROJECT & LEG		STATION DESIGNATION																
NOAA RV MILLER FREEMAN		MFO2-05																		
CONS	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					
CAST #	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	"	"	(deg)	(m/s)	"	"	(m)						
245	215.5	172.45	64 MAY 02	1647	5.6	4.7	27.2	6	2	2	12	8	1	145	5091A					
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	520303	AT SURFACE																		
PAR 4242		FLUOR 153		CHAM 109		TRANSMISSOMETER		Cleared air bleed valve												
CTD CONVERTED MONITOR VALUES																				
POS.	TRIP DEPTH	PRESSURE										PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT'S NUTR.
1																				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

w/c = 135

MAX. DEPTH = 136 m

[illegible]

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA RV MILLER FREEMAN		MF02-05														
CONS C	LATITUDE	LONGITUDE	DATE JD=125	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
CAST #	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	*	(m)	
025	5351.01	N 16852.69	W 05 MAY 02	2134	4.1	4.1	1527	2141	6	362	71	BS4				
CTD	TIMES		JD/TIME		DATA LOCATION		REMARKS									
TYPE & SN	91320A		DATA ON		Tape/Diskette ID		File Name/Header									
PRESS SN	20772 80020		START DOWN				CTD025									
TEMP SN	884/889		AT DEPTH													
COND SN	5207303		AT SURFACE													
POS.	TRIP DEPTH	<input checked="" type="checkbox"/> PAR 4242		<input type="checkbox"/> FLUOR 153	<input type="checkbox"/> CHAM 109	<input type="checkbox"/> TRANSMISSOMETER	<input type="checkbox"/> Cleaned air bleed valve									
		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	NUTR.	CHL.	WHIT'S NUTR.						
1	62							7								
2	50							12								
3	30							11								
4	20							10								
5	10							9								
6	0							8								
7																
8																
9																
10																
11																
12																

MAX. DEPTH = 62 m

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]