

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION																											
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		% Hum (°C)		PRESSURE (mb)		SEA STATE		VISIBILITY		WIND DIRN (deg)		WIND SPD (Kts)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA NAME/ID	
001		5651.64 N		16403.12 W		26 SEP 06		1759		7.7		71.2		03		332		14													
CTD		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		CTD		REMARKS		CTD prior to recovery of 06BSM-2A and 06BST-2A															
TYPE & SN		9+ SN 91220A		DATA ON		1754																									
PRESS SN		80020		START DOWN		1754																									
PRI COND SN		915		AT DEPTH		1759																									
PRI TEMP SN		710		AT SURFACE		1806																									
SEC COND SN		884																													
SEC TEMP SN		304																													
PAR 4242		<input checked="" type="checkbox"/> WEI STAR 678		<input checked="" type="checkbox"/> Dissolved Oxygen		430904		<input checked="" type="checkbox"/> Dissolved Oxygen		430910		<input checked="" type="checkbox"/> Transmissometer		Cleaned air bleed valve																	
CTD CONVERTED MONITOR VALUES		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
PRESSURE		PRI TEMP.		SEC. TEMP.		PRI SALINITY		SEC. SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY		SALINITY	
1		6.5		65.3																											
2		6.0		60.0																											
3		5.0		49.6																											
4		4.0		40.2																											
5		3.0		30.0																											
6		2.5		25.2																											
7		2.5		25.4																											
8		2.5		25.2																											
9		2.0		20.4																											
10																															
11																															
12																															

10 m/min for steep thermocline
No good - 10 bottles closed for 9. Redo w/ cast 002.

w/o 63

MAX. DEPTH = 65.5 m

10 bottles popped - 9 fired
redesign cast

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION																							
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		% Hum (°C)		PRESSURE (mb)		SEA STATE		WIND DIRN, SPD (kts)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
25651.55 N		16403.24 W		26828 06		1822		7.1826		96.8543		33.012		0071													
CTD		TIMES		JD/TIME		DATA ON		Tape/Diskette ID		File Name/Header		CTD DATA		REMARKS		CTD prior to recovery of 06BSM-2A and 06BST-2A											
TYPE & SN		9+ S/N 91220A		DATA ON		1822		Tape/Diskette ID		File Name/Header		CTD DATA		REMARKS		CTD prior to recovery of 06BSM-2A and 06BST-2A											
PRESS SN		80020		START DOWN		1822		Tape/Diskette ID		File Name/Header		CTD DATA		REMARKS		CTD prior to recovery of 06BSM-2A and 06BST-2A											
PRI COND SN		915		AT DEPTH		1826		Tape/Diskette ID		File Name/Header		CTD DATA		REMARKS		CTD prior to recovery of 06BSM-2A and 06BST-2A											
PRI TEMP SN		710		AT SURFACE		1833		Tape/Diskette ID		File Name/Header		CTD DATA		REMARKS		CTD prior to recovery of 06BSM-2A and 06BST-2A											
SEC COND SN		884						Tape/Diskette ID		File Name/Header		CTD DATA		REMARKS		CTD prior to recovery of 06BSM-2A and 06BST-2A											
SEC TEMP SN		304						Tape/Diskette ID		File Name/Header		CTD DATA		REMARKS		CTD prior to recovery of 06BSM-2A and 06BST-2A											

15 m/min per BF.
3-25 m bottles - 1st one = water sample

PAR 4242 ☒ WETSTAR 678 ☒ Dissolved Oxygen - 430904 ☒ Dissolved Oxygen - 430910 ☒ Transmissometer

CTD CONVERTED MONITOR VALUES

POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MOROY'S NUTR.	WHIT'S NUTR.	CHL.	Oxygen	Urea	Bacteria	POC/ PON
1	6.5	65.4						098	x 12	x 61					
2	6.0	60.5							x 56	x 62					
3	5.0	50.1							x 65	x 63					
4	4.0	39.9							x 78	x 64					
5	3.0	30.2							x 165	x 65					
6	2.5	25.9							x 106	x 66					
7	2.5	25.7							x 106	x 66					
8	2.5	25.7							x 106	x 66					
9	2.0	19.8							x 106	x 66					
10	1.0								x 106	x 66					
11	0.0								x 106	x 66					
12	0.0								x 106	x 66					

Cleaned air bleed valve ☐

2nd cast
CTD 003
110

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION	
CONSC CAST #		LATITUDE		LONGITUDE	
DEG MIN		DEG MIN		DATE JD=	
00 35 56.1		11 52 N		164 48.3 144 W 26 06 06	
CTD		TIMES		JD/TIME	
TYPE & SN		DATA ON		1854	
PRESS SN		START DOWN		1854	
PRI COND SN		AT DEPTH		1855	
PRI TEMP SN		AT SURFACE		1858	
SEC COND SN					
SEC TEMP SN					
		PAR 4242		X METSTAR 678	
		X Dissolved Oxygen		X Dissolved Oxygen	
		X Transmissometer		X Transmissometer	
		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
TRIP DEPTH		PRESSURE		PRI TEMP	
1		11.2		SEC TEMP	
2		11.4		PRI SALINITY	
3		11.2		SEC SALINITY	
4		18.3		SALINITY	
5		2.4		SAL.	
6				MORDY's	
7				NUTR.	
8				WHIT's	
9				NUTR.	
10				CHL.	
11				Oxygen	
12				Urea	
				Bacteria	
				POC/	
				PON	

Bottles in addition to those from STD002.

MAX. DEPTH = 11.48m

REMARKS CTD prior to recovery of 06BSM-2A and 06BST-2A

Cleaned air bleed valve

[illegible]

O₂ 1st 12m bottle

193	8.0
050	7.9

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA R/V MILLER FREEMAN		MF-06-10 Leg II													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
088	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	M4
			27 05 05	06 20 01										70	
CTD	TIMES		JD/TIME		DATA LOCATION										
TYPE & SN	9+ S/N 91220A		DATA ON		Tape/Diskette ID										
PRESS SN	80020		START DOWN		MF-06-10 Leg II										
PRI COND SN	915		AT DEPTH		CTD 008										
PRI TEMP SN	710		AT SURFACE		MAX. DEPTH = 63.3 m										
SEC COND SN	884														
SEC TEMP SN	304														
<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve			CTD CONVERTED MONITOR VALUES												
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
1	65								22				W20		
2	66							108	23						
3	50								24	x			W21		
4	45								25	x			W22		
5	38								26	x			W23		
6	20								27	x			W24		
7	13.5												W25		
8	11.1								28	x			W26		
9	11.2									x					
10	11.3									x					
11	4								29	x			W27		
12															

024 1.0
 024 0.8
 024 0.8

VESSEL		PROJECT & LEG		STATION DESIGNATION													
NOAA R/V MILLER FREEMAN		MF 06-10 Leg II															
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
449	57 51.64 N	168	51.90 W	28	06	02 54 06.37	1.60	45	83	27	20	6			711		
CTD		TIMES		JD/TIME		DATA LOCATION											
TYPE & SN		DATA ON		0250		Tape/Diskette ID		File Name/Header									
PRESS SN		START DOWN		0250		MF-06-10 Leg II		CTD 009									
PRI COND SN		AT DEPTH		0254													
PRI TEMP SN		AT SURFACE		0303													
SEC COND SN		884															
SEC TEMP SN		304															
		PAR 4242		WETSTAR 678		Dissolved Oxygen		430904		Dissolved Oxygen		430910					
POS.		TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAMP. BOTTLE DATA	
1		807		65.3												106	
2		50		50.6												X W30	
3		40		40.1												X W29	
4		30		29.6												X W31	
5		20		19.9												X W32	
6		12-1		11.9												X W33	
7		12-2		12.1													
8		12-3		11.6													
9		0		1.3												X W34	
10																	
11																	
12																	

CTD CONVERTED MONITOR VALUES

MAX. DEPTH = 66.4 m

CTD after 06-BS-4B deployed

Cleaned air bleed valve

VESSEL			PROJECT & LEG			STATION DESIGNATION		
NOAA R/V MILLER FREEMAN			MF-06-10 Leg II					
CONSC	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	
CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR MIN
010	58	05.85	N	169	46.28	W	28	0608
CTD	TIMES		JD/TIME		DATA LOCATION			
TYPE & SN	9+ S/N 91220A		DATA ON		Tape/Diskette ID			
PRESS SN	80020		START DOWN		MF-06-10 Leg II			
PRI COND SN	915		AT DEPTH		CTD 010			
PRI TEMP SN	710		AT SURFACE		MAX. DEPTH = 66.3 m			
SEC COND SN	884							
SEC TEMP SN	304							
TRANSFORMER			PAR 4242			WETSTAR 678		
Dissolved Oxygen			430904			Dissolved Oxygen		
CTD CONVERTED MONITOR VALUES			430910			Cleaned air bleed valve		
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.
1	40	39.6			21/22	1		169
2	30	38.4			23/24	2		110
3	30	29.2			25/26	3		111
4	30	28.9			27/28	4		112
5	20	20.3			29/30	5		34
6								
7								
8								
9								
10								
11								
12								

29.6
32

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF-06-10 Leg II		STATION DESIGNATION	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB (°C)
0115822.77	N 17015.44	W 28858.8	06092906.166.2074	27313	74
CTD	TIMES JD/TIME		DATA LOCATION		
TYPE & SN 9+ S/N 91220A	DATA ON 6924		Tape/Diskette ID MF-06-10 Leg II		
PRESS SN 80020	START DOWN 6924		File Name/Header CTD 011		
PRI COND SN 915	AT DEPTH 4936		MAX. DEPTH = 69.1 m		
PRI TEMP SN 710	AT SURFACE				
SEC COND SN 884					
SEC TEMP SN 304					
<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> METSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
1	45	45.3			
2	35	32.8			
3	35	33.5			
4	35	32.7			
5	25	24.4			
6					
7					
8					
9					
10					
11					
12					
		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.
		113	35		
		114	36		
		115	34		
		116	38		
			39		

En

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA RV MILLER FREEMAN		MF-06-10 Leg II													
CONSC	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	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)	(kts)	*	*	(m)	
0125953.84	N	17141.70	28 06	182005.0	79.705		30010							0070	
CTD	TIMES		JD/TIME	DATA LOCATION											
TYPE & SN	9+ S/N 91220A		DATA ON	1815											
PRESS SN	80020		START DOWN	1815											
PRI COND SN	915		AT DEPTH	1816											
PRI TEMP SN	710		AT SURFACE	1828											
SEC COND SN	884														
SEC TEMP SN	304														
<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.				
1	65	65.9						117	x 41		w35				
2	60	60.1							x 42		w36				
3	50	49.6							x 43		w37				
4	40	40.0							x 44		w38				
5	30	30.0							x 45		w39				
6	25	25.1							x 46		w40				
7	11	11.4													
8	11	10.7													
9	11	10.9													
10	5	2.2							x 47		w41				
11															
12															

Pre-recovery

MAX. DEPTH = m

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAA R/V MILLER FREEMAN		MF-06-10 Leg II			
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)
0135954.41	N 17142.59	W 29858.06	06	000606.47	2.10
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(mb)
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	DATA ON	0002	Tape/Diskette ID		
PRESS SN	START DOWN	0003	File Name/Header		
PRI COND SN	AT DEPTH	0006	CTD 013		
PRI TEMP SN	AT SURFACE	0016	MAX. DEPTH = 65 m		
SEC COND SN	884				
SEC TEMP SN	304				
PAR 4242		WETSTAR 678		Dissolved Oxygen 430904	
CTD CONVERTED MONITOR VALUES		Dissolved Oxygen 430910		Cleaned air bleed valve	
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
1	65	1.5			
2	60	59.5			
3	50	49.4			
4	40	39.6			
5	30	29.9			
6	22	22.4			
7	22	22.6			
8	22	22.1			
9	16	2.8			
10	0	2.4			
11					
12					
SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		MORDY'S NUTR.	
				CHL.	
				WHIT'S NUTR.	

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB (°C)
0226224.92 N	17441.29 W	30 Sept 06	0530	498.6	0022056108
CTD	TIMES DATA ON		DATA LOCATION		
TYPE & SN 9+ SN 91220A	JD/TIME 0518		Tape/Diskette ID MF-06-10 Leg II		
PRESS SN 80020	START DOWN		File Name/Header CTD 022		
PRI COND SN 915	AT DEPTH		CTD 022		
PRI TEMP SN 710	AT SURFACE		MAX. DEPTH = 66 m		
SEC COND SN 884					
SEC TEMP SN 304					
<input checked="" type="checkbox"/> PAR-4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
1	66	66.7			
2	50	50.1			
3	40	40.0			
4	30	30.3			
5	20	20.1			
6	10	10.0			
7	0	2.3			
8					
9					
10					
11					
12					
		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		SAL.	MORDY's NUTR.	CHL.	WHIT's NUTR.
		11	83		
			84		
			85		
			86		
			87		
			88		
			89		

12/0 64

North corner

BS-8

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-06-10 Leg II		STATION DESIGNATION	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB (°C)
236211.84N	17514.13W	36559	06	0746	6.8
					% Hum
					92.7
					PRESSURE
					SEA STATE
					VISIBILITY
					WIND DIRN.
					WIND SPD.
					CLOUD (amt)
					WEATHER
					BOTTOM DEPTH
					STA. NAME/ID
					84 m 84
CTD	TIMES		JD/TIME		DATA LOCATION
TYPE & SN	DATA ON		Tape/Diskette ID		File Name/Header
PRESS SN	START DOWN		MF-06-10 Leg II		CTD
PRI COND SN	AT DEPTH				
PRI TEMP SN	AT SURFACE				
SEC COND SN					MAX. DEPTH =
SEC TEMP SN					m
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
1	bottom	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
2	60	60.5			SEC. SALINITY
3	50	50.1			SALINITY
4	40	40.3			SAL.
5	30	29.5			MORDY's
6	20	20.5			NUTR.
7	10	10.1			CHL.
8	0	2.1			WHIT's
9					NUTR.
10					
11					
12					

Cleaned air bleed valve

[illegible]

VESSEL			PROJECT & LEG			STATION DESIGNATION																
NOAA RV MILLER FREEMAN			MF 06-10 Leg II																			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. #1 NAME/ID				
025	62	02.04N	174	39.79W	30	04	06	1115	6.498	40	0		40	13			16					
CTD			TIMES		JD/TIME		DATA LOCATION			REMARKS												
TYPE & SN			DATA ON		11:09		Tape/Diskette ID			File Name/Header												
PRESS SN			START DOWN		11:09		MF-06-10 Leg II			CTD												
PRI COND SN			AT DEPTH		11:15																	
PRI TEMP SN			AT SURFACE		11:19																	
SEC COND SN																						
SEC TEMP SN																						
			<input checked="" type="checkbox"/> PAR 4242		<input checked="" type="checkbox"/> WETSTAR 678		<input checked="" type="checkbox"/> Dissolved Oxygen		<input checked="" type="checkbox"/> Dissolved Oxygen		<input type="checkbox"/> Cleaned air bleed valve											
							430904				430910											
POS. TRIP DEPTH			CTD CONVERTED MONITOR VALUES																			
			PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAL.		MORDY'S NUTR.		CHL.		WHIT'S NUTR.	
1	bottom		71.0												14		106					
2	50		50.4														107					
3	70		49.8														108					
4	30		30.0														109					
5	20		19.8														110					
6	10		10.1														111					
7	0		1.7														112					
8																						
9																						
10																						
11																						
12																						

MAX. DEPTH = 71.0 m

-1.5 °

VESSEL		PROJECT & LEG		STATION DESIGNATION																			
NOAA RV MILLER FREEMAN		MF 06-10 Leg II																					
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% HUM	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	ISO # 2							
0266	15° 53' N	121° 22' 74" W	30061006	1223	6.8		0.0			41	11				74								
CTD		TIMES		JD/TIME		DATA LOCATION										REMARKS							
TYPE & SN		DATA ON		12:18		Tape/Diskette ID										File Name/Header							
PRESS SN		START DOWN		12:18		MF-06-10 Leg II										CTD							
PRI COND SN		AT DEPTH		12:23																			
PRI TEMP SN		AT SURFACE		12:27												MAX. DEPTH = 68.0 m							
SEC COND SN																							
SEC TEMP SN																							
		<input checked="" type="checkbox"/> PAR 4242		<input checked="" type="checkbox"/> WETSTAR 678		<input checked="" type="checkbox"/> Dissolved Oxygen		430904		<input checked="" type="checkbox"/> Dissolved Oxygen		430910		<input type="checkbox"/> Cleaned air bleed valve									
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES																					
		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER									
1 bottom		68.0										O2		SALINITY		SAL. 015		MORDY's NUTR. 113		CHL.		WHITT's NUTR.	
2 50		49.8																114					
3 70		40.1																115					
4 90		30.2																116					
5 20		20.1																117					
6 10		9.2																118					
7 0		1.7																119					
8																							
9																							
10																							
11																							
12																							

O2 241 -1.5°C
459 -1.3°C

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB (°C)
0276152.811N	174 02.129 W	30 54 40 6	13 51	6.6	99.4
CTD	TIMES DATA ON		DATE LOCATION		
TYPE & SN	9+ S/N 91220A		Tape/Diskette ID		
PRESS SN	80020		File Name/Header		
PRI COND SN	915		CTD		
PRI TEMP SN	710		MAX. DEPTH = 66.1 m		
SEC COND SN	884				
SEC TEMP SN	304				
POS.	TRIP DEPTH	<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve			
		CTD CONVERTED MONITOR VALUES			
1	bottom	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
2	50	46.1	49.9		1.2
3	40	40.1			
4	30	29.8			
5	20	20.0			
6	10	9.7			
7	0	2.0			242, 032
8					
9					
10					
11					
12					
		SAMPLE BOTTLE DATA SAL. 16 MOROY's NUTR. 120 CHL. WHIT'S NUTR.			

CTD Bottle # 242
 Temp 032
 4 6.95

0.5
-1.3
0.37
0.37

VESSEL NOAA RV MILLER FREEMAN				PROJECT & LEG MF 06-10 Leg II				STATION DESIGNATION																					
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		% Hum (°C)		PRESSURE (mb)		SEA STATE (deg)		WIND DIRN. (deg)		WIND SPD. (kts)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
6135.24N		173142.65W		30801406		1616		6.8		9.8		9.7		46413												74750965			
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																					
TYPE & SN		9+ S/N 91220A		DATA ON		4615		Tape/Diskette ID		File Name/Header																			
PRESS SN		80020		START DOWN		41615		MF-06-10 Leg II		CTD																			
PRI COND SN		915		AT DEPTH		1617																							
PRI TEMP SN		710		AT SURFACE		1621																							
SEC COND SN		884																											
SEC TEMP SN		304																											
POS.		TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAL.		MORDY'S NUTR.		CHL.		WHIT'S NUTR.							
1		65		65						5.6						18		135											
2		50																136											
3		40																137											
4		30																138											
5		20																139											
6		10																140											
7		0																											
8																													
9																													
10																													
11																													
12																													

CTD CONVERTED MONITOR VALUES

☒ PAR 4242

☒ WETSTAR 678

☒ Dissolved Oxygen. 430904

☒ Dissolved Oxygen. 430910

☐ Cleaned air bleed valve

039
219

6.3
6.3

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF-06-10 Leg II		STATION DESIGNATION	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)
DEG MIN	DEG MIN	DAY	MO	YR	HR MIN
03 06 12 5.47 N	173 41.43 W	06	06	1753	6.1
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	DATA ON	1749	Tape/Diskette ID		
PRESS SN	START DOWN	1749	File Name/Header		
PRI COND SN	AT DEPTH	1753	CTD		
PRI TEMP SN	AT SURFACE		MAX. DEPTH =		
SEC COND SN			65m w/s		
SEC TEMP SN					
POS.	TRIP DEPTH	<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve		CTD CONVERTED MONITOR VALUES SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	
1	bottom	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
2	50	67.1			52
3	50	50.1			19
4	40	39.9			142
5	30	29.9			143
6	20	20.2			144
7	10	10.1			2
8	0	2.0			3
9					
10					
11					
12					

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA R/V MILLER FREEMAN		MF-06-10 Leg II		90 IS0 #8												
CONSC	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	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)	(kts)				(m)	
0326108.68N		17345.89W	30 08 06	20 31			31								716	
CTD	TIMES		JD/TIME		DATA LOCATION											
TYPE & SN	9+ S/N 91220A		DATA ON		Tape/Diskette ID File Name/Header											
PRESS SN	80020		START DOWN		MF-06-10 Leg II CTD 032											
PRI COND SN	915		AT DEPTH													
PRI TEMP SN	710		AT SURFACE													
SEC COND SN	884															
SEC TEMP SN	304															
<input checked="" type="checkbox"/> PAD-412 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910			<input type="checkbox"/> Cleaned air bleed valve													
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES														
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER								
1	8.4	71.5				114.12	202 + 197	24	MORDY'S	CHL.	WHIT'S					
2	50	50.3														
3	40	39.9														
4	30	38.0														
5	20	20.2														
6	10	10.4														
7	0	1.4														
8																
9																
10																
11																
12																

REMARKS

70 IS0 #8

MAX. DEPTH = 71 m

44068

CTD CONVERTED MONITOR VALUES

WHIT'S

NUTR.

CHL.

MORDY'S

SAL.

24

202 + 197

114.12

SEC. SALINITY

PRI. SALINITY

SEC. TEMP.

PRI. TEMP.

PRESSURE

TRIP DEPTH

POS.

02 202 - -0.8°

197 - -0.8°

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION 3001	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB (°C)
0346045.46N	17339.48W	300106	233306.598.99346	37208	72
CTD	TIMES DATA ON 2329		DATA LOCATION Tape/Diskette ID MF-06-10 Leg II		REMARKS 20 TS 0 #10
TYPE & SN 9+ S/N 91220A	PRESS SN 80020	PRI COND SN 915	PRI TEMP SN 710	SEC COND SN 884	SEC TEMP SN 304
START DOWN -		AT DEPTH 2333		AT SURFACE 2341	
MAX. DEPTH = 68 m		w/685			
<input checked="" type="checkbox"/> PAR-4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve					
CTD CONVERTED MONITOR VALUES					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
1	8.77	68			
2	5.0	50.5			
3	4.0	39.9			
4	3.0	30.5			
5	2.0	20.7			
6	1.0	9.9			
7	0	2.4			
8					
9					
10					
11					
12					
SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
SAL.		MORDY's NUTR.		CHL.	
178/239		25		28	
15+16		26		27	
		29		30	
		31		31	

O₂ Temp 23.9 ~ 0.4
178 ~ 0.3

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA RV MILLER FREEMAN		MF-06-10 Leg II		31-1											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
035	60 35.28 N	173 39.16 W	061006	0653	6.9	97.2	29.1	4	4	1	24	8		69	
CTD	TIMES		JD/TIME	DATA LOCATION											
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID File Name/Header											
PRESS SN	80020		START DOWN	MF-06-10 Leg II CTD 035											
PRI COND SN	915		AT DEPTH												
PRI TEMP SN	710		AT SURFACE	0059											
SEC COND SN	884														
SEC TEMP SN	304														
<input checked="" type="checkbox"/> DATA <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve				REMARKS 70 ISB #11 MAX. DEPTH = 63 m w/d 60											
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
		PRESSURE	PRI. TEMP.	SEC. TEMP.	O ₂ PAR-OXYGENITY	Urea	SALINITY	SAL.	MORBY'S NUTR.	CHL.	WHIT'S NUTR.				
1	80 ft	62.5				0.17/0.18		21	32						
2	50	49.5							33						
3	40	40.3							34						
4	30	31.0							35						
5	20	19.6							36						
6	10	16.0							37						
7	0	2.1				0.64/0.32			38						
8															
9															
10															
11															
12															

On 064 6.3
 Temp 072 6.3

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA R/V MILLER FREEMAN		MF 06-10 Leg II		32-2											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
03660	25.32 N	117.35 W	0106	22707	49.6	8	914	4	3	4	2	8	006	4	
CTD	TIMES		JD/TIME	DATA LOCATION											
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID											
PRESS SN	80020		START DOWN	MF-06-10 Leg II											
PRI COND SN	915		AT DEPTH	CTD 036											
PRI TEMP SN	710		AT SURFACE	MAX. DEPTH = 59 m											
SEC COND SN	884														
SEC TEMP SN	304														
<input checked="" type="checkbox"/> Trawl <input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> METSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve				CTD CONVERTED MONITOR VALUES											
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	Ca	Urea	SALINITY	SAL.	MORBY's NUTR.	CHL.	WHIT's NUTR.				
1	8.0	58			06/159	19/20		20	39						
2	50	5							40						
3	40	40.5							41						
4	30	30.3							42						
5	20	20.2							43						
6	10	10.3							44						
7	0	19							45						
8															
9															
10															
11															
12															

0.7 mpa 061 = 0.7
199 = 08

W/059

70 ISO #12

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAA R/V MILLER FREEMAN		MF-06-10 Leg II		33-1	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)
037	60 15.05 N	173 31.65 W	061006	034207.49	7.19
DEG	MIN	DEG	MIN	DAY	MO
03	7	17	3	06	10
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	9+ S/N 91220A	DATA ON	Tape/Diskette ID		
PRESS SN	80020	START DOWN	MF-06-10 Leg II		
PRI COND SN	915	AT DEPTH	CTD 037		
PRI TEMP SN	710	AT SURFACE	MAX. DEPTH = 65 m		
SEC COND SN	884				
SEC TEMP SN	304				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
1	6.1	Pressure	PRI. TEMP.	SEC. TEMP.	SEC. SALINITY
2	5.0	64			021/022
3	4.0	50.3			
4	3.0	39.9			
5	2.0	30.6			
6	1.0	19.8			
7	0	10.0			074/056
8		3.4			
9					
10					
11					
12					

Stopped at 55 + continued down

Trans

Temp 074 = 6.5°C
O₂ 076 = 6.6°C

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA R/V MILLER FREEMAN		MF-06-10 Leg II		34-1												
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA NAME/ID
038	60 07.25 N	173 20.45 W	0106	07.49	07.49	39.05	30.40	27	8						90	
CTD	TIMES		JD/TIME	DATA LOCATION												
TYPE & SN	9+ S/N 91220A		DATA ON	0451												
PRESS SN	80020		START DOWN	0456												
PRI COND SN	915		AT DEPTH	0501												
PRI TEMP SN	710		AT SURFACE													
SEC COND SN	884															
SEC TEMP SN	304															
POS.	TRIP DEPTH	<input checked="" type="checkbox"/> PART 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve		CTD CONVERTED MONITOR VALUES												
1	BotT	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORRIS NUTR.	CHL.	WHIT'S NUTR.					
2	50	60.4			075/106	23/24		92	50							
3	40	46.7							55							
4	30	36.3							56							
5	20	26.2							57							
6	10	18							58							
7	0	22							59							
8																
9																
10																
11																
12																

O_2 0.75 = 0.2%
 Temp 106 = 0.3%

62 m

70 m FSD #14

MAX. DEPTH = 63 m

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA R/V MILLER FREEMAN		MF 06-10 Leg II		35-2												
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0396	03.33 N	117.302.63 W	0106106	06:10	7.39	7.39	794	5	4	03	3	23	0	0	0066	
CTD	TIMES		JD/TIME		DATA LOCATION											
TYPE & SN	9+ S/N 91220A		DATA ON		Tape/Diskette ID File Name/Header											
PRESS SN	80020		START DOWN		MF-06-10 Leg II CTD039											
PRI COND SN	915		AT DEPTH													
PRI TEMP SN	710		AT SURFACE													
SEC COND SN	884															
SEC TEMP SN	304															
POS.	TRIP	CTD CONVERTED MONITOR VALUES														
DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY's NUTR.	CHL.	WHIT'S NUTR.	SAMPLE BOTTLE DATA					
1	6.17	58.6				25.26	93	6.0			Cleared air bleed valve					
2	50	49.3						6.1								
3	40	46.0						6.2								
4	30	31.2						6.3								
5	20	20.0														
6	10	14														
7	0	2.7														
8																
9																
10																
11																
12																

0.2 Temp = 080 = 6.3°C
10.5 = 6.3°C

4/16/58

134

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION 56-1	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB (°C)
3405958.999 N	17243.32 W	0106	0514	7.5	98.4
CTD	TYPES & SN 9+ S/N 91220A	DATA ON	JD/TIME	DATA LOCATION	
PRESS SN 80020	START DOWN			Tape/Diskette ID MF-06-10 Leg II	File Name/Header CTD 040
PRI COND SN 915	AT DEPTH				
PRI TEMP SN 710	AT SURFACE				
SEC COND SN 884					
SEC TEMP SN 304					
POS.	TRIP DEPTH	<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WET STAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910		<input type="checkbox"/> Cleaned air bleed valve	
		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
1	61.5	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY
2	58.2				22.28
3	46.2				
4	29.6				
5	20.8				
6	10.6				
7	1.4				117, 160
8					
9					
10					
11					
12					

on bottle # Temp
117 6.6°C
160 6.5°C

REMARKS
70750 #16

MAX. DEPTH = m

403

VESSEL		PROJECT & LEG		STATION DESIGNATION										
NOAA RV MILLER FREEMAN		MF 06-10 Leg II												
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE (deg)	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
04151754.22N	17225.33W	51061066	91061066	170500	7.4		90		32	1			42	705417
CTD	TIMES		JD/TIME	DATA LOCATION										
TYPE & SN	DATA ON		9:45	Tape/Diskette ID										
PRESS SN	80020		9:45	File Name/Header										
PRI COND SN	915		9:50	CTD										
PRI TEMP SN	710		9:55	MAX. DEPTH = 66.2 m										
SEC COND SN	884													
SEC TEMP SN	304													
<input checked="" type="checkbox"/> PAR-4242		<input checked="" type="checkbox"/> METSTAR 678		<input checked="" type="checkbox"/> Dissolved Oxygen . 430904		<input checked="" type="checkbox"/> Dissolved Oxygen . 430910		<input type="checkbox"/> Cleaned air bleed valve						
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	Urea SEC. SALINITY	O ₂ SALINITY	SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.			
1	Bot	60.7				29.30	118.119	094	37					
2	50	51.1							35					
3	40	41.0							36					
4	30	30.1							37					
5	20	20.6							38					
6	10	10.2							39					
7	0	1.6							40					
8														
9														
10														
11														
12														

O₂ bottle # 119
Temp -0.2
-6.5

41

FOOT OF

VESSEL NOAA RV MILLER FREEMAN				PROJECT & LEG MF 06-10 Leg II				STATION DESIGNATION																							
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		% Hum (°C)		PRESSURE (mb)		SEA STATE (deg)		WIND DIRN. (deg)		WIND SPD. (kts)		CLOUD (amt)		TYPE WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID			
442	57	40.7	31.4	122	46.1	5	W	410	0106	1138	7.4	49	91.3	3	1	63	3	16	16	0	0	0	0	0	0	0	0	0	0	0	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																							
TYPE & SN		9+ S/N 91220A		DATA ON		1133		Tape/Diskette ID		File Name/Header																					
PRESS SN		80020		START DOWN				MF-06-10 Leg II		CTD																					
PRI COND SN		915		AT DEPTH		1137																									
PRI TEMP SN		710		AT SURFACE		1144																									
SEC COND SN		884																													
SEC TEMP SN		304																													
POS.		TRIP		PAR 4242		WEISTAR 678		Dissolved Oxygen		430904		Dissolved Oxygen		430910		Cleared air bleed valve															
DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		O ₂ SALINITY		SAL.		MORDY's NUTR.		CHL.		WHIT's NUTR.											
1	68.6																														
2	50.5																														
3	40.6																														
4	31.4																														
5	21.2																														
6	9.5																														
7	1.5																														
8																															
9																															
10																															
11																															
12																															

O₂ bottle # 126
 Temp -0.1
 -0.6

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA R/V MILLER FREEMAN		MF 06-10 Leg II													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
43	59 49.79 N	171 45.99 W	4106	1309	7.59	91.59	0	058	09					0072	76m19
CTD	TIMES		JD/TIME	DATA LOCATION											
TYPE & SN	DATA ON		1304	Tape/Diskette ID File Name/Header											
PRESS SN	START DOWN			MF-06-10 Leg II CTD 43											
PRI COND SN	AT DEPTH														
PRI TEMP SN	AT SURFACE		1315	MAX. DEPTH = m											
SEC COND SN															
SEC TEMP SN															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.				
1	bet	46.2				Urea	33,34	0	96	088					
2	50.0								089						
3	40.2								090						
4	30.3								091						
5	21.1								092						
6	10.3								093						
7	0	3.1							094						
8															
9															
10															
11															
12															

122.5 6.8°C
157.5 6.8°C

☐ Cleaned air bleed valve

[illegible]

— 5 —

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION														
NOAA RV MILLER FREEMAN		MF 06-10 Leg II																
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	PRESSURE	SEA STATE	VISIBILITY	WIND DIR/N.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
046	59 53.96 N	171 15.34 W	0106106	1638	6.9		972			099	65				69	055E		
CTD	TIMES		JD/TIME		DATA LOCATION											REMARKS		
TYPE & SN	9+ S/N 91220A		DATA ON		1636		Tape/Diskette ID		File Name/Header							Redo 30 m. bath		
PRESS SN	80020		START DOWN		1636		MF-06-10 Leg II		CTD							Continued previous cast		
PRI COND SN	915		AT DEPTH		30m													
PRI TEMP SN	710		AT SURFACE															
SEC COND SN	884															MAX. DEPTH = m		
SEC TEMP SN	304																	
POS.	<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen. 430904 <input checked="" type="checkbox"/> Dissolved Oxygen. 430910 <input type="checkbox"/> Cleaned air bleed valve																	
TRIP DEPTH	CTD CONVERTED MONITOR VALUES																	
	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY's NUTR.	CHL.	WHIT's NUTR.	SAMPLE BOTTLE DATA						SAMPLE BOTTLE NUMBER	
1	30							129										
2																		
3																		
4																		
5																		
6																		
7																		
8																		
9																		
10																		
11																		
12																		

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION 42-2	
CONSC CAST #		LATITUDE		DATE JD=	
DEG MIN		DEG MIN		DAY MO YR	
04 76 0		05 11 8		17 15 8	
CTD		TIMES		JD/TIME	
TYPE & SN		DATA ON		1916	
PRESS SN		START DOWN		1916	
PRI COND SN		AT DEPTH		1919	
PRI TEMP SN		AT SURFACE			
SEC COND SN					
SEC TEMP SN					
POS.		<input checked="" type="checkbox"/> PARADE <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen <input checked="" type="checkbox"/> Dissolved Oxygen <input type="checkbox"/> Cleaned air bleed valve		430904 430910 53 m/s	
TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
PRESSURE		PRI. TEMP.		SEC. TEMP.	
PRI. SALINITY		SEC. SALINITY		SALINITY	
SAL.		MORDY'S NUTR.		CHL.	
WHIT'S NUTR.					
1		6.4		86	
2		40		111	
3		30.3		112	
4		26		113	
5		14		114	
6		0			
7					
8					
9					
10					
11					
12					

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA RV MILLER FREEMAN		MF-06-10 Leg II		43-2												
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (Kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
04185953.94 N	17240.04 W	01062123	01062123				44					8			72	
CTD	TIMES	JD/TIME	DATA LOCATION													
TYPE & SN	9+ S/N 91220A	DATA ON	Tape/Diskette ID													
PRESS SN	80020	START DOWN	MF-06-10 Leg II													
PRI COND SN	915	AT DEPTH	CTD 048													
PRI TEMP SN	710	AT SURFACE	MAX. DEPTH = 87 m													
SEC COND SN	884															
SEC TEMP SN	304															
<input checked="" type="checkbox"/> PAR-422 <input checked="" type="checkbox"/> T-1000 <input checked="" type="checkbox"/> METSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve			CTD CONVERTED MONITOR VALUES													
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORBY's NUTR.	CHL.	WHIT'S NUTR.					
1	8.5	66.9			34.7	34.7		87	115							
2	50	49.9							116							
3	40	40.4							117							
4	30	30.9							118							
5	26	20.4							119							
6	10	10.7							120							
7	0	2.7														
8																
9																
10																
11																
12																

Col Temp 67
187

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA RV MILLER FREEMAN		MF 06-10 Leg II		45-1											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
05059	46.96 N	17126.65 W	02000106	0053	7.0		7544103108							72	40420
CTD	TIMES		JD/TIME		DATA LOCATION										
TYPE & SN	9+ S/N 91220A		DATA ON		Tape/Diskette ID										
PRESS SN	80020		START DOWN		MF-06-10 Leg II										
PRI COND SN	915		AT DEPTH		CTD 050										
PRI TEMP SN	710		AT SURFACE		MAX. DEPTH = 66 m										
SEC COND SN	884														
SEC TEMP SN	304														
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> PAR 4212 <input checked="" type="checkbox"/> WEI STAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Trawls <input type="checkbox"/> Cleaned air bleed valve </div>															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	SAL.	MORBY'S NUTR.	CHL.	WHIT'S NUTR.			
1	65.0	65.0			127 + 187	02	35 + 36	89	128						
2	51.3							129							
3	40	40.0						130							
4	40	40.3													
5	30	31.2													
6	20	20.3													
7	10	9.9													
8	0	2.5													
9															
10															
11															
12															

more water problems -
on 1000 ft depth of June

127 = 0.5

45-1-12

02 T₁₀₀ 174 = 6.6
198 = 6.6

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA R/V MILLER FREEMAN		MF-06-10 Leg II		L72-2 for Ch 105												
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
533	36.11 N	12053.61 W	20060606	0354	7.2	99.4	954.7	77	68	710	70m	22				
CTD	TYPE & SN	DATA ON	JD/TIME	DATA LOCATION												
	9+ S/N 91220A			Tape/Diskette ID File Name/Header												
	PRESS SN 80020	START DOWN		MF-06-10 Leg II CTD 053												
	PRI COND SN 915	AT DEPTH														
	PRI TEMP SN 710	AT SURFACE		MAX. DEPTH = 64 m												
	SEC COND SN 884															
	SEC TEMP SN 304															
		<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910		<input type="checkbox"/> Cleaned air bleed valve												
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES														
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.					
1	Bot	63.6			39.80	131/132		80	141							
2	50	49.7						142	✓							
3	70	39.8						143	✓							
4	30	29.5						144	✓							
5	20	20.4						145	✓							
6	10	9.5						146	✓							
7	0	2.2						147	✓							
8																
9																
10																
11																
12																

CTD 1710-0.60
132 = 0.60

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION 42-1	
CONSC CAST #		LATITUDE		LONGITUDE	
DEG MIN		DEG MIN		DATE JD=	
054572.32N		17052.81W		060106	
TIME (GMT)		DRY BULB (°C)		% Hum	
0514		7.4		97.0	
PRESSURE		SEA STATE		VISIBILITY	
9646		156		38	
WIND DIRN.		WIND SPD.		CLOUD (amt)	
156		38		70	
WIND TYPE		WEATHER		BOTTOM DEPTH (m)	
70 m/s - 15 knots				70	
CTD		TIMES		JD/TIME	
TYPE & SN		DATA ON		DATA LOCATION	
9+ S/N 91220A				Tape/Diskette ID	
PRESS SN		START DOWN		File Name/Header	
80020				MF-06-10 Leg II	
PRI COND SN		AT DEPTH		CTD 054	
915					
PRI TEMP SN		AT SURFACE		MAX. DEPTH = 65 m	
710					
SEC COND SN					
884					
SEC TEMP SN					
304					
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
1		PRESSURE		PRI. TEMP.	
63.5				SEC. TEMP.	
2		PRI. SALINITY		SEC. SALINITY	
41.8		41.42		SALINITY	
3		SAL.		MORDY'S NUTR.	
149		148		CHL.	
4		WHIT'S NUTR.			
150					
5					
151					
6					
152					
7					
153					
8					
154					
9					
10					
11					
12					

ocean swell O₂ Temp 024 = 6.7°C
050 = 6.7°C

6/6 = 61

Cleaned air bleed valve

[illegible]

193 - 0.6
214 - 0.1

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION 50-2	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)
559	15.55 N	17022.46 W	2006106	0751	7.3
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	DATA ON	4751	Tape/Diskette ID		
PRESS SN	START DOWN	4751	File Name/Header		
PRI COND SN	AT DEPTH	4754	CTD 056		
PRI TEMP SN	AT SURFACE		MAX. DEPTH =		
SEC COND SN			m		
SEC TEMP SN					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
1	62.1	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY
2	50.6				45.46
3	40.9				
4	30.2				
5	21.0				
6	11.0				
7	1.8				
8					
9					
10					
11					
12					

O2 Bottle # 1
 032
 242
 -0.1
 0.1

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA RV MILLER FREEMAN		MF 06-10 Leg II														
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
4575906	52N	17814.39W	0200106	0923	5.9	99.3	96			095	4.7				67	76m 76
CTD	TIMES		JD/TIME	DATA LOCATION												
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID File Name/Header												
PRESS SN	80020		START DOWN	MF-06-10 Leg II CTD												
PRI COND SN	915		AT DEPTH	6923												
PRI TEMP SN	710		AT SURFACE	4928												
SEC COND SN	884															
SEC TEMP SN	304															
POS. TRIP DEPTH		<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678		<input checked="" type="checkbox"/> Dissolved Oxygen. 430904 <input checked="" type="checkbox"/> Dissolved Oxygen. 430910		<input type="checkbox"/> Cleaned air bleed valve										
		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA												
1	85T	60.8														
2	50	51.5														
3	42	49.4														
4	30	29.3														
5	20	20.1														
6	10	10.9														
7	0	1.4														
8																
9																
10																
11																
12																

G₂ Bottle # Temp

039 6.2

241 6.2

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA RV MILLER FREEMAN		MF-06-10 Leg II													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
05958	46.77 N	12019.11 W	0206106	1208	71.298	200	89	8						73	70m 28
CTD	TIMES		JD/TIME	DATA LOCATION											
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID											
PRESS SN	80020		START DOWN	MF-06-10 Leg II											
PRI COND SN	915		AT DEPTH	CTD											
PRI TEMP SN	710		AT SURFACE	MAX. DEPTH = m											
SEC COND SN	884														
SEC TEMP SN	304														
POS. TRIP DEPTH		PAR 4242		WET STAR 678		Dissolved Oxygen		430904		Dissolved Oxygen		430910		Cleaned air bleed valve	
CTD CONVERTED MONITOR VALUES															
1	Bot	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY's NUTR.	CHL.	WHIT's NUTR.				
2	50	104.4				51.52			74						
3	46	40.5													
4	30	29.2													
5	20	20.1													
6	10	10.2													
7	0	2.6													
8															
9															
10															
11															
12															

02 Bottle # / Temp

195 / 4.5
700 / 10.5

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION	
CONSC CAST #		LATITUDE		LONGITUDE	
DEG MIN		DEG MIN		DATE JD=	
16 58 36.79 N		174 16.68 W		02 01 06	
CTD		TIMES		JD/TIME	
TYPE & SN		DATA ON		1323	
PRESS SN		START DOWN		1326	
PRI COND SN		AT DEPTH		1331	
PRI TEMP SN		AT SURFACE		1331	
SEC COND SN		884			
SEC TEMP SN		304			
PAR 4242		WETSTAR 678		Dissolved Oxygen 430904	
Dissolved Oxygen 430904		Dissolved Oxygen 430910		Cleaned air bleed valve	
CTD CONVERTED MONITOR VALUES		SAMPLER BOTTLE DATA		SAMPLER BOTTLE NUMBER	
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
1	6.5.9				53.54
2	48.7				86.102
3	39.9				
4	30.7				
5	19.4				
6	16.4				
7	1.9				
8					
9					
10					
11					
12					

86
 102
 0.0
 102

VESSEL		PROJECT & LEG		STATION DESIGNATION																
NOAA RV MILLER FREEMAN		MF-06-10 Leg II																		
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
061	58	26.74	N	125	10.80	W	20	06106	14	42	7	42	95	12	6	8		73	70m34	
CTD	TIMES		JD/TIME		DATA LOCATION										REMARKS					
TYPE & SN	9+ S/N 91220A		DATA ON		14.38		Tape/Diskette ID										File Name/Header			
PRESS SN	80020		START DOWN		14:38		MF-06-10 Leg II										CTD 61			
PRI COND SN	915		AT DEPTH		14:42															
PRI TEMP SN	710		AT SURFACE		14 46															
SEC COND SN	884																			
SEC TEMP SN	304																			
			Trend																	
			<input checked="" type="checkbox"/> PART 4242		<input checked="" type="checkbox"/> WETSTAR 678		<input checked="" type="checkbox"/> Dissolved Oxygen		430904		<input checked="" type="checkbox"/> Dissolved Oxygen		430910		<input type="checkbox"/> Cleaned air bleed valve					
			CTD CONVERTED MONITOR VALUES																	
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	URI. SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	SAL.	MORBY'S NUTR.	CHL.	WHIT'S NUTR.								
1	Bot	69.4				55.56	0.2	76	002											
2	50	49.6						8												
3	40	40.5						9												
4	30	30.4						10												
5	20	19.2						11												
6	10	11.2						12												
7	0	7.2					088, 242	13												
8																				
9																				
10																				
11																				
12																				

02 Bottle #

Tamp

88

6.6

2.12

6.6

[illegible]

	6.7	6.7
891	6.7	6.7
202	6.7	6.7

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION 9-2	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB (°C)
					% Hum (°C)
					PRESSURE (mb)
					SEA STATE VISIBILITY
					WIND DIRN. (deg)
					WIND SPD. (Kts)
					CLOUD (amt)
					WEATHER
					BOTTOM DEPTH (m)
					STA NAME/ID
CTD		TIMES		DATA LOCATION	
TYPE & SN		DATA ON		Tape/Diskette ID	
PRESS SN		START DOWN		MF-06-10 Leg II	
PRI COND SN		AT DEPTH		CTD 065	
PRI TEMP SN		AT SURFACE		MAX. DEPTH = 61 m	
SEC COND SN					
SEC TEMP SN					
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
		<input checked="" type="checkbox"/> PAR-4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve			
1	111	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY
2	111			63/80	
3	111				
4	111				
5	111				
6	111				
7	111				
8	111				
9	111				
10	111				
11	111				
12	111				

097-607
6.7

037 = 1.0
034 = 1.1

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAA R/V MILLER FREEMAN		MF 06-10 Leg II		81-2	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)
067575	1.75 N	16852.01 W	020106	2314	6.6
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)
CTD	TAPES & SN	DATA ON	JD/TIME	DATA LOCATION	
	9+ S/N 91220A			Tape/Diskette ID	
PRESS SN	80020	START DOWN		File Name/Header	
PRI COND SN	915	AT DEPTH		CTD 067	
PRI TEMP SN	710	AT SURFACE		MAX. DEPTH = 67 m	
SEC COND SN	884				
SEC TEMP SN	304				
		<input checked="" type="checkbox"/> Trawl <input checked="" type="checkbox"/> DART 4292 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve			
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
1	Bot	66.5			67/68
2	50	51.6			
3	40	39.7			
4	30	30.5			
5	20	19.3			
6	10	10.6			003/219
7	0	0.6			
8					
9					
10					
11					
12					
		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		SAL.	MORDY's NUTR.	CHL.	WHIT's NUTR.
		204	49		W48
		50	✓		W49
		51	✓		W50
		52	✓		W51
		53	✓		W52
		54	✓		W53
		55	✓		W54
		REMARKS			
		85-4			
		center station			

02 - 003 = 7.0°C
Temp 219 = 7.0°C

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA RV MILLER FREEMAN		MF 06-10 Leg II		63-2												
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (Kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA NAME/ID
06957745.92N	116911.80W	6306106	0244	6.9	92.3	8145	4	8	62							8540
CTD	TYPE & SN	9+ S/N 91220A	DATA ON	START DOWN	AT DEPTH	AT SURFACE	CTD	069	135-4	West corner	MAX. DEPTH = 57 m					
PRESS SN	80020															
PRI COND SN	915															
PRI TEMP SN	710															
SEC COND SN	884															
SEC TEMP SN	304															
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY's NUTR.	CHL.	WHIT's NUTR.					
1	Bot	57.4						206	64	1	W55					
2	50	50.9									W56					
3	40	39.4									W57					
4	30	30.5									W58					
5	20	20.2									W59					
6	10	10.3									W60					
7	0	1.9									W61					
8																
9																
10																
11																
12																

☒ Trawls
☒ RAR-422
☒ WETSTAR 678
☒ Dissolved Oxygen 430904
☒ Dissolved Oxygen 430910
☐ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES
 DATA
 SAMPLE BOTTLE
 SAMPLE BOTTLE NUMBER

63-2
 135-4
 West corner
 MAX. DEPTH = 57 m

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA RV MILLER FREEMAN		MF 06-10 Leg II		64-2											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN (deg)	WIND SPD (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0705735.77N	18843.04W	0306106	0451	6.9	92.2	8338	38							70	BS4S
CTD	TIMES		JD/TIME		DATA LOCATION										
TYPE & SN	9+ S/N 91220A		DATA ON		Tape/Diskette ID										
PRESS SN	80020		START DOWN		MF-06-10 Leg II										
PRI COND SN	915		AT DEPTH		CTD 070										
PRI TEMP SN	710		AT SURFACE		MAX. DEPTH = 65 m										
SEC COND SN	884														
SEC TEMP SN	304														
<input checked="" type="checkbox"/> RABBIT <input checked="" type="checkbox"/> WET STAR 878 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve			CTD CONVERTED MONITOR VALUES												
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY's NUTR.	CHL.	WHIT'S NUTR.				
1	Bot	64.6			69/76	02			70			W62			
2	50	50.4						207	71			W63			
3	40	40.5							72			W64			
4	30	30.0							73			W65			
5	20	20.0							74			W66			
6	10	10.6							75			W67			
7	0	2.5							76			W68			
8															
9															
10															
11															
12															

190 = 7.0°C
 Temp 197 = 6.9°C

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION 65-1	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=	TIME (GMT)	DRY BULB (°C)
0711	5731.3	16833.0	W0306106	0512	6.6
					% Hum (°C)
					94.6
					PRESSURE (mb)
					922.8
					SEA STATE (deg)
					354
					WIND DIRN.
					4
					WIND SPD. (kts)
					8
					CLOUD (amt)
					TYPE
					WEATHER
					BOTTOM DEPTH (m)
					70
					STA. NAME/ID
					70m 35

CTD	TYPE & SN	9+ S/N 91220A	DATA ON	JD/TIME	DATA LOCATION
	PRESS SN	80020	START DOWN		Tape/Diskette ID
	PRI COND SN	915	AT DEPTH		MF-06-10 Leg II
	PRI TEMP SN	710	AT SURFACE		CTD 071
	SEC COND SN	884			
	SEC TEMP SN	304			

POS.	TRIP	DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. OXYGEN	SEC. OXYGEN	SALINITY	SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.
1	801	65.3				71/72	202/207		208	77		
2	50	49.0							208	78		
3	40	40.6								79		
4	30	30.0								20		
5	20	19.8								21		
6	10	10.5								22		
7	0	2.5								23		
8												
9												
10												
11												
12												

Trawl

CTD CONVERTED MONITOR VALUES

Disolved Oxygen. 430904

Disolved Oxygen. 430910

Cleaned air bleed valve

W/O = 63

MAX. DEPTH = 65 m

70m I. Prob. H

Cast Time 202 0710
207 0.8 L

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF-06-10 Leg II		STATION DESIGNATION 66-2	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)
07253729.50 N	16820.00 W	0300106	0720	6.4	95.4
DEG	MIN	DEG	MIN	HR	MIN
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN 9+ S/N 91220A	DATA ON		Tape/Diskette ID MF-06-10 Leg II		
PRESS SN 80020	START DOWN		File Name/Header CTD 072		
PRI COND SN 915	AT DEPTH				
PRI TEMP SN 710	AT SURFACE				
SEC COND SN 884					
SEC TEMP SN 304					
<input checked="" type="checkbox"/> PARASITIC <input checked="" type="checkbox"/> WET STAR 878 <input checked="" type="checkbox"/> Dissolved Oxygen. 430904 <input checked="" type="checkbox"/> Dissolved Oxygen. 430910 <input type="checkbox"/> Cleaned air bleed valve		CTD CONVERTED MONITOR VALUES			
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
1	Bot	66.0			73.74
2	50	50.9			209
3	40	40.4			84
4	30	30.0			84
5	20	20.3			84
6	10	10.3			84
7	0	2.6			90
8					
9					
10					
11					
12					
		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		SAL	MORDY's NUTR.	CHL.	WHIT's NUTR.

W/O = 65

U₂ Temp 6.4°C = 069
6.4°C = 178

70m depth

70m 36

70

84

209

73.74

95.4

6.4

0720

0300106

16820.00 W

07253729.50 N

CTD 072

MF-06-10 Leg II

NOAA R/V MILLER FREEMAN

STATION DESIGNATION

PROJECT & LEG

VESSEL

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF-06-10 Leg II		STATION DESIGNATION 67-1	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB (°C)
07364	29.99 N	162.1.26 W	030106	0841	6.8
CTD	TIMES DATA ON		JD/TIME 8:37	DATA LOCATION Tape/Diskette ID MF-06-10 Leg II	
TYPE & SN 9+ S/N 91220A	START DOWN 8:37		File Name/Header CTD073		
PRESS SN 80020	AT DEPTH 8:42		CTD073		
PRI COND SN 915	AT SURFACE 8:42		MAX DEPTH = m		
PRI TEMP SN 710					
SEC COND SN 884					
SEC TEMP SN 304					
<input checked="" type="checkbox"/> PARANET2 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
1	64	64.2			25.36
2	50	50.0			25.36
3	40	39.6			25.36
4	30	30.0			25.36
5	20	20.3			25.36
6	10	10.1			25.36
7	0	2.0			25.36
8					25.36
9					25.36
10					25.36
11					25.36
12					25.36
		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		SAL.	MORDY's NUTR.	CHL.	WHITT's NUTR.
		210	91		102
			92		103
			93		104
			94		105
			95		106
			96		107
			97		108

O₂ Bath Temp
25.36 | 1.7
239 | 1.6

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION														
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE VISIBILITY	WIND DIRN, (deg)	WIND SPD, (kts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	75m ISO #38 STA NAME/ID		
4245730	30.06N	16740.04W	43000106	0953	6.792.688	30715									72			
CTD	TIMES		JD/TIME		DATA LOCATION										REMARKS			
TYPE & SN	9+ S/N 91220A		DATA ON		Tape/Diskette ID		File Name/Header		75m ISO									
PRESS SN	80020		START DOWN		MF-06-10 Leg II		CTD		674									
PRI COND SN	915		AT DEPTH															
PRI TEMP SN	710		AT SURFACE															
SEC COND SN	884																	
SEC TEMP SN	304																	
<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve			CTD CONVERTED MONITOR VALUES															
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SAL.	MODY's NUTR.	CHL.	WHIT's NUTR.	SAMPLE BOTTLE DATA						SAMPLE BOTTLE NUMBER	
1	651	65.4				77.78		211	98	108								
2	55	49.8								109								
3	40	39.3								110								
4	30	30.4								111								
5	20	20.2								112								
6	10	16.1								113								
7	0	1.3								114								
8																		
9																		
10																		
11																		
12																		

02 10:16 AM 75m
6.8
6.8

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION																	
CONSC CAST #	30.01 LATITUDE	20.97 LONGITUDE	DATE JD=			TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE (deg)	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	70m 150m 20m 30m STA. NAME/ID					
075	5734.41 N	16720.97 W	03	06	10	11	22	6.9	87	297	20				7476m39						
CTD		TIMES		JD/TIME		DATA LOCATION															
TYPE & SN		9+ S/N 91220A		DATA ON		118		Tape/Diskette ID									File Name/Header				
PRESS SN		80020		START DOWN		118		MF-06-10 Leg II									CTD 075				
PRI COND SN		915		AT DEPTH		1122															
PRI TEMP SN		710		AT SURFACE		1128											MAX. DEPTH = m				
SEC COND SN		884																			
SEC TEMP SN		304																			
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES												Cleaned air bleed valve					
		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		WIND		SAL.		MORDY's		CHL.		WHIT's	
1		64.8						79.80		64.199				105		106					
2		50.0												105		106					
3		46.2												105		106					
4		30.1												105		106					
5		26.2												105		106					
6		16.6												105		106					
7		0												105		106					
8														105		106					
9														105		106					
10														105		106					
11														105		106					
12														105		106					

On Bottle #

Temp

861
1990

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAA R/V MILLER FREEMAN		MF-06-10 Leg II			
CONSC CAST #	31.36	LATITUDE	42.24	DATE JD=	1235
DEG	MIN	DEG	MIN	DAY	MO
47	53	16	42	24	03
0	36	N	W	03	01
CTD		TIMES	JD/TIME	TIME (GMT)	DRY BULB (°C)
TYPE & SN	9+ S/N 91220A	DATA ON	1231	7.4	95.3
PRESS SN	80020	START DOWN	1231		
PRI COND SN	915	AT DEPTH	1235		
PRI TEMP SN	710	AT SURFACE			
SEC COND SN	884				
SEC TEMP SN	304				
		<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910		<input type="checkbox"/> Cleaned air bleed valve	
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
1	1	44.8			34.8
2	2	48.8			34.8
3	3	40.1			34.8
4	4	30.3			34.8
5	5	24.0			34.8
6	6	10.1			34.8
7	7	1.6			34.8
8	8				34.8
9	9				34.8
10	10				34.8
11	11				34.8
12	12				34.8
		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		SAL.	MORDY'S NUTR.	CHL.	WHITT'S NUTR.
		213	113	114	115
			114	115	116
			115	116	117
			116	117	118
			117	118	119
			118	119	120
			119	120	121
		REMARKS			
		Tape/Diskette ID File Name/Header			
		MF-06-10 Leg II CTD 70-11-1			
		MAX. DEPTH = m			

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION																						
CONSC CAST #	25.44	LATITUDE	48.41	LONGITUDE	DATE	JD=	1342	TIME (GMT)	7.3	DRY BULB	95.4	% Hum	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	290	WIND SPD.	25	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	69	STA. NAME/ID	7Cm 41
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)	(deg)
07	57																									
CTD	TYPE & SN		9+ S/N 91220A		DATA ON		1338		JD/TIME		1338		DATA LOCATION		Tape/Diskette ID		File Name/Header		CTD		REMARKS		7Cm Iso 41		7Cm 41	
PRESS SN	80020		START DOWN		1338		1338		1338		1338		1338		1338		1338		1338		1338		1338		1338	
PRI COND SN	915		AT DEPTH		1342		1342		1342		1342		1342		1342		1342		1342		1342		1342		1342	
PRI TEMP SN	710		AT SURFACE		134		134		134		134		134		134		134		134		134		134		134	
SEC COND SN	884																									
SEC TEMP SN	304																									
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		O ₂ SATINITY		SAL.		MORDY's NUTR.		CHL.		WHIT's NUTR.						
1	65	65								83.84		83.84		214		120		121		122						
2	50	50																								
3	40	40																								
4	30	30																								
5	20	20																								
6	10	10																								
7	0	0																								
8																										
9																										
10																										
11																										
12																										

☒ PAR 4242
 ☒ WETSTAR 678
 ☒ Dissolved Oxygen
 430904
 ☒ Dissolved Oxygen
 430910
 ☐ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

0.1042 10.42
 0.003 3.03
 0.006 3.06

VESSEL		PROJECT & LEG		STATION DESIGNATION													
NOAA R/V MILLER FREEMAN		MF 06-10 Leg II															
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
078	26.48 N	166.31 W	030615	0302	7.34	71	28.1	2	1	21	6	4	7	09	42		
CTD	TIMES		JD/TIME	DATA LOCATION													
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID													
PRESS SN	80020		START DOWN	MF-06-10 Leg II													
PRI COND SN	915		AT DEPTH	CTD 078													
PRI TEMP SN	710		AT SURFACE	15:05													
SEC COND SN	884																
SEC TEMP SN	304																
<input checked="" type="checkbox"/> PAR-4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve			CTD CONVERTED MONITOR VALUES														
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SAL.	MORDY's NUTR.	CHL.	WHIT's NUTR.	SAMPLE BOTTLE DATA						
1	Bot	21.8				85.86											
2	50	50.0															
3	40	39.9															
4	30	29.9															
5	20	20.1															
6	10	10.2															
7	0	1.9															
8																	
9																	
10																	
11																	
12																	

0 Bot # 109
600 7.2

REMARKS
70m Iso 42
Sta 72H1

MAX. DEPTH = m

VESSEL			PROJECT & LEG			STATION DESIGNATION																									
NOAA R/V MILLER FREEMAN			MF 06 10 Leg II																												
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		% Hum		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE WEATHER		BOTTOM DEPTH		STA. NAME/ID		
479	57	19.3	1	66	20.2	4	W	03	00	10	6	16	20	7.7	75.4				2	20	23										
CTD	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		% Hum		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE WEATHER		BOTTOM DEPTH		STA. NAME/ID		
TYPE & SN	9+ S/N 91220A		DATA ON		16:16		Tape/Diskette ID		File Name/Header		CTD		479		REMARKS		70m ISO 43		57m 7341		MAX. DEPTH =		m								
PRESS SN	80020		START DOWN		16:16		MF-06-10 Leg II		CTD		479																				
PRI COND SN	915		AT DEPTH		16:20																										
PRI TEMP SN	710		AT SURFACE		16:26																										
SEC COND SN	884																														
SEC TEMP SN	304																														
POS.	TRIP	DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAL.		MORDY's NUTR.		CHL.		WHIT's NUTR.										
1	bot	65.1							87.88		100.00				134		135		130		131										
2	50	49.9													216		138		134		135										
3	40	38.6															137		132		133										
4	30	31.0															139		134		135										
5	20	19.7															140		135		136										
6	10	16.5																													
7	0	1.4																													
8																															
9																															
10																															
11																															
12																															

TRANS

PAR 4242

WETSTAR 678

Dissolved Oxygen. 430904

Dissolved Oxygen. 430910

Cleared air bleed valve

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER

0.16-0.70m
3.2

VESSEL		PROJECT & LEG		STATION DESIGNATION													
NOAA RV MILLER FREEMAN		MF 06-10 Leg II															
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
0805719.23N	16601.32W	0306106			7.5	73.1				272	27				6870m	44	
CTD	TIMES		JD/TIME	DATA LOCATION													
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID													
PRESS SN	80020		START DOWN	MF-06-10 Leg II													
PRI COND SN	915		AT DEPTH	CTD 080													
PRI TEMP SN	710		AT SURFACE	MAX. DEPTH = m													
SEC COND SN	884																
SEC TEMP SN	304																
<input checked="" type="checkbox"/> PAR-4242 <input checked="" type="checkbox"/> TRANS <input checked="" type="checkbox"/> METSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve				CTD CONVERTED MONITOR VALUES													
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SAL.	MORDY's NUTR.	CHL.	WHIT's NUTR.	SAMPLE BOTTLE DATA						
1	804	61.2	0.0			80.90	27.4	14.1		136.1							
2	50	50.2	0.0					14.1		137.7							
3	40	39.2	0.0					14.3		138.8							
4	30	31.3	0.0					14.4		139.4							
5	20	21.4	0.0					14.5		140.0							
6	10	10.4	0.0					14.6		141.1							
7	0	2.3	0.0					14.7		142.2							
8																	
9																	
10																	
11																	
12																	

0.2
2.29
195

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA RV MILLER FREEMAN		MF-06-10 Leg II														
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
081	54 19.23 N	166 01.32 W	0306106	1752	7.4	95.0				276	27				6870m	44
CTD	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
TYPE & SN	9+ S/N 91220A		DATA ON		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS			
PRESS SN	80020		START DOWN		17:51				MF-06-10 Leg II		CTD 081		5 bottles on cast			
PRI COND SN	915		AT DEPTH		17:52								80 did not pop,			
PRI TEMP SN	710		AT SURFACE		17:56								this cast was to get			
SEC COND SN	884												MAX. DEPTH = water m			
SEC TEMP SN	304															
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY's NUTR.	CHL.	WHIT's NUTR.				
1	801	60.1					89.90	02	27	141		13.6				
2	50	51.4							27	142		13.7				
3	40	46.2							27	143		13.8				
4	30	31.1							27	144		13.8				
5	20	19.8							27	145		14.0				
6	10	10.9							27	146		14.1				
7	0	3.2							27	147		14.2				
8									27							
9									27							
10									27							
11									27							
12									27							

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER

T100's

X BAR-42

X WETSTAR 678

X Dissolved Oxygen

430904

X Dissolved Oxygen

430910

X Cleaned air bleed valve

0.2
220 / 3.5
195 / 3.5

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION																											
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		% Hum		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)		(kts)		"		"		"		(m)					
5 11 5.114 N		165 46.5 2 W		06 10 06		19 37		7.8		88.7				26.5		30		8								67 76 M45					
CTD		TIMES		JD/TIME		DATA LOCATION										REMARKS															
TYPE & SN		DATA ON		19:34		Tape/Diskette ID										File Name/Header															
PRESS SN		START DOWN		19:34		MF-06-10 Leg II										CTD 082															
PRI COND SN		AT DEPTH		19:37																											
PRI TEMP SN		AT SURFACE		19:41																											
SEC COND SN		884																													
SEC TEMP SN		304																													
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA						SAMPLE BOTTLE NUMBER											
		PRESSURE		PRI. TEMP.		SEC. TEMP.		BBL. SALINITY		SEC. SALINITY		SALINITY		SAL.		MORDY'S NUTR.		CHL.		WHIT'S NUTR.											
1		61.4						1		61.4		02		218		148															
2		51.2						2						218		148															
3		41.5						3						218		148															
4		30.1						4						218		148															
5		21.2												218		148															
6		10.7												218		148															
7		1.6												218		148															
8														218		148															
9														218		148															
10														218		148															
11														218		148															
12														218		148															

O₂ / Temp
68.9 / 7.3°C
7.7°C

40 meter Bottle D.O.
not full!

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAA R/V MILLER FREEMAN		MF 06-10 Leg II		76-1	
CONSC	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB
CAST #	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)
08357	46.4	16538.6	30	21	7.8
	N	W	03	06	
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	9+ S/N 91220A	DATA ON	Tape/Diskette ID		
PRESS SN	80020	START DOWN	MF-06-10 Leg II		
PRI COND SN	915	AT DEPTH	CTD 083		
PRI TEMP SN	710	AT SURFACE	MAX. DEPTH = 65 m		
SEC COND SN	884				
SEC TEMP SN	304				
POS.	TRIP	CTD CONVERTED MONITOR VALUES			
DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY
1	8.5	65.4		93/94	088/212
2	50	51.4			
3	40	41.9			
4	30	29.6			
5	20	20.5			
6	10	10.5			
7	0	2.5			
8					
9					
10					
11					
12					

☒ PAR 4242

☒ WETSTAR 678

☒ Dissolved Oxygen

430904

☒ Dissolved Oxygen

430910

☐ Cleaned air bleed valve

W/O = 62

088-320
212-320

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF 06-10 Leg II		STATION DESIGNATION 77-1	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB (°C)
087	31.1 N	122.5 W	03 Oct 06	18.0	89.6
CTD	TIMES DATA ON		DATA LOCATION		
TYPE & SN 9+ S/N 91220A	START DOWN		Tape/Diskette ID MF-06-10 Leg II		
PRESS SN 80020	AT DEPTH		File Name/Header CTD 087		
PRI COND SN 915	AT SURFACE		MAX. DEPTH = 61 m		
PRI TEMP SN 710					
SEC COND SN 884					
SEC TEMP SN 304					
<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve		CTD CONVERTED MONITOR VALUES			
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	REL. SALINITY
1	0.5	0.5			9
2	0.7	0.7			10
3	0.9	0.9			11
4	1.0	1.0			12
5	1.2	1.2			
6	1.4	1.4			
7	1.6	1.6			
8	1.8	1.8			
9	2.0	2.0			
10	2.2	2.2			
11	2.4	2.4			
12	2.6	2.6			

0.16 m/s

0.97 - 7.6

391 7.2

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA R/V MILLER FREEMAN		MF 06-10 Leg II		70-00-00												
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	PRESSURE	SEA STATE	VISIBILITY	WIND DIR/N	WIND SPD	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA NAME/ID
0855	30.1	108.1	061006	08:10	8.2	71	70	70	70	70	70	70	70	70	70	70
CTD	TIMES		JD/TIME	DATA LOCATION												
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID File Name/Header												
PRESS SN	80020		START DOWN	MF-06-10 Leg II CTD 0855												
PRI COND SN	915		AT DEPTH	MAX. DEPTH = 63 m												
PRI TEMP SN	710		AT SURFACE													
SEC COND SN	884															
SEC TEMP SN	304															
<input checked="" type="checkbox"/> PAR-4242 <input checked="" type="checkbox"/> METSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen. 430904 <input checked="" type="checkbox"/> Dissolved Oxygen. 430910 <input type="checkbox"/> Cleaned air bleed valve				CTD CONVERTED MONITOR VALUES												
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI-SALINITY	SEC-SALINITY	SALINITY	SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.					
1	1.0	61.1			97.198	092.200	1.3	12.1	1.69							
2	2.0	49.8					1.4	12.1	1.70							
3	3.0	40.3					1.5	12.1	1.71							
4	4.0	30.5					1.4	12.1	1.72							
5	5.0	20.0						12.1	1.73							
6	6.0	10.5						12.1	1.74							
7	7.0	2.1						12.1	1.75							
8																
9																
10																
11																
12																

$\sigma_t = 3.0$
 200 3.2

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAA RV MILLER FREEMAN		MF 06-10 Leg II		74.1	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)
286	56° 31' N	178° 42' W	061006	0724	7.2
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	DATA ON		Tape/Diskette ID		
PRESS SN	START DOWN		MF-06-10 Leg II		
PRI COND SN	AT DEPTH		CTD 086		
PRI TEMP SN	AT SURFACE		MAX. DEPTH = 65 m		
SEC COND SN					
SEC TEMP SN					
<input checked="" type="checkbox"/> PAB 4242 <input checked="" type="checkbox"/> WESTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910		<input type="checkbox"/> Cleaned air bleed valve			
POS.	TRIP	CTD CONVERTED MONITOR VALUES			
DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY
1	4.6			99.00	02
2	5.0				
3	7.0				
4	30				
5	20				
6	10				
7	6				
8					
9					
10					
11					
12					
		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		SAL.	MORBY'S NUTR.	CHL	WHIT'S NUTR.
		22.2	176	177	W83
			177	178	W84
			178	179	W85
			179	180	W86
			180	181	W87
			181	182	W88
			182	183	W89

093 = 7.6
 203 = 7.6

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAA RV MILLER FREEMAN		MF 06-10 Leg II		20-1	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)
05 25 51.11 N	16 33 1.22 W	04 01 06	02 15	18.3	9.2
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	DATA ON		Tape/Diskette ID		
PRESS SN	START DOWN		MF-06-10 Leg II		
PRI COND SN	AT DEPTH		CTD 087		
PRI TEMP SN	AT SURFACE		MAX. DEPTH = 66 m		
SEC COND SN					
SEC TEMP SN					
<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
1	6.5				
2	5.1				
3	4.5				
4	3.5				
5	2.5				
6	1.0				
7	0.0				
8					
9					
10					
11					
12					
		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		SAL.	MORBY's NUTR.	CHL.	WHIT's NUTR.
		223	184		

05 25 51.11 N
16 33 1.22 W
3.5 = 117

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA RV MILLER FREEMAN		MF-06-10 Leg II		81-2											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY (deg)	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
5649.52	N	16919.14	W 0400106	0426	8.0		93	2	40	305				72	
CTD	TIMES		JD/TIME	DATA LOCATION											
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID											
PRESS SN	80020		START DOWN	MF-06-10 Leg II											
PRI COND SN	915		AT DEPTH	CTD											
PRI TEMP SN	710		AT SURFACE	MAX. DEPTH = 65 m											
SEC COND SN	884														
SEC TEMP SN	304														
<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve				CTD CONVERTED MONITOR VALUES											
POS.	TRIP	CTD DATA													
DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY's NUTR.	CHL.	WHIT's NUTR.	SAMPLE BOTTLE NUMBER				
1	65.0			103	104		224	1							
2	51.2							2							
3	46.7							3							
4	31.1							4							
5	20.6							5							
6	11.2							6							
7	1.8														
8															
9															
10															
11															
12															

0.5 m
 118 = 7.7
 122 = 7.6

65

Boye-Saas 15-20-17

VESSEL		PROJECT & LEG		STATION DESIGNATION													
NOAA R/V MILLER FREEMAN		MF-06-10 Leg II		84-2													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
0915646.15	N	16425.05	W	0406106	2353	71.7	.04	827	231	8	71						
CTD	TIMES		JD/TIME	DATA LOCATION													
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID													
PRESS SN	80020		START DOWN	MF-06-10 Leg II													
PRI COND SN	915		AT DEPTH	CTD 691													
PRI TEMP SN	710		AT SURFACE	2358													
SEC COND SN	884																
SEC TEMP SN	304																
<input checked="" type="checkbox"/> PAR-4242 <input checked="" type="checkbox"/> METSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve				CTD CONVERTED MONITOR VALUES													
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY's NUTR.	CHL.	WHIT's NUTR.	SAMPLE BOTTLE DATA					
1	13.4	64.1							21								
2	50	50.4							22								
3	40	40.7							22								
4	30	30.1							24								
5	20	20.4							20								
6	10	10.2							21								
7	0	2.9							21								
8																	
9																	
10																	
11																	
12																	

W/O = 63

135-2 W/O
Crown

see 15-20 ft

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION																	
NOAA RV MILLER FREEMAN		MF-06-10 Leg II		87-1																	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN	WIND SPD	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID						
074	56 54.49 N	164 49.14 W	0506106	0721	6.6	.10	8250235							71							
CTD	TIMES		JD/TIME	DATA LOCATION																	
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID File Name/Header																	
PRESS SN	80020		START DOWN	MF-06-10 Leg II CTD 094																	
PRI COND SN	915		AT DEPTH	MAX. DEPTH = 66 m																	
PRI TEMP SN	710		AT SURFACE	0726																	
SEC COND SN	884																				
SEC TEMP SN	304																				
POS. TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAL.		MORDY'S		CHL.		WHIT'S	
1		65.8						0.2		0.2		0.2		230		42					
2		45.4														43					
3		35.4														44					
4		33														45					
5		30														46					
6		20														47					
7																					
8																					
9																					
10																					
11																					
12																					

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER

X ☐ PAT 4242X ☐ WETSTAR 678X ☐ Dissolved Oxygen

430904

X ☐ Dissolved Oxygen

430910

X ☐ Cleaned air bleed valve

T18MND

w/d-63

29-36

024-2.9

050-30

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA RV MILLER FREEMAN		MF 06-10 Leg II													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
6955713.17N	16504.24W	061061713	6.5	11	249	77								69	88-1
CTD	TIMES	JD/TIME	DATA LOCATION												
TYPE & SN	9+ S/N 91220A	DATA ON	Tape/Diskette ID File Name/Header												
PRESS SN	80020	START DOWN	MF-06-10 Leg II CTD 015												
PRI COND SN	915	AT DEPTH	1721												
PRI TEMP SN	710	AT SURFACE	MAX. DEPTH = m												
SEC COND SN	884														
SEC TEMP SN	304														
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
1	bottom	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.	Cleansed air bleed valve			
2	lower	44.2						231	49			Cleansed air bleed valve			
3	wt	26.9						232	50			Cleansed air bleed valve			
4	wt	26.9						233	51			Cleansed air bleed valve			
5	wt	26.9						234	52			Cleansed air bleed valve			
6	upper	14.9							53			Cleansed air bleed valve			
7												Cleansed air bleed valve			
8												Cleansed air bleed valve			
9												Cleansed air bleed valve			
10												Cleansed air bleed valve			
11												Cleansed air bleed valve			
12												Cleansed air bleed valve			

[illegible]

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA R/V MILLER FREEMAN		MF-06-10 Leg II													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	% Hum	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
09	57.12.23 N	165.03.77 W	606106	1522	51.6		47			24	13			69	
CTD	TIMES		JD/TIME		DATA LOCATION										
TYPE & SN	9+ S/N 91220A		DATA ON		1519		Tape/Diskette ID		File Name/Header						
PRESS SN	80020		START DOWN		1519		MF-06-10 Leg II		CTD						
PRI COND SN	915		AT DEPTH		1523										
PRI TEMP SN	710		AT SURFACE		1523										
SEC COND SN	884														
SEC TEMP SN	304														
<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve			CTD CONVERTED MONITOR VALUES												
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.				
1	Bot	62.9							65						
2	lower	40/403						243	66						
3	int	27.3						244	67						
4	int	28.3						245	68						
5	int	26.4						246	69						
6	upper	15/12.9							74						
7															
8															
9															
10															
11															
12															

Post U-Tow 8/9

MAX. DEPTH = m

VESSEL	PROJECT & LEG	STATION DESIGNATION
NOAA R/V MILLER FREEMAN	MF 06-10 Leg II	

CONSC	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB		82.8 % Hum		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		TYPE		WEATHER		69 BOTTOM DEPTH		STA. NAME/ID		
CAST #	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	.	.	.	(deg)	(kts)	(m)					
099	5	7	4	6	5	6	N	1	6	5	3	5	E	5	W	0	6	1	7	1	9	6	.	0	7	3	3	1	9	6	9

CTD		TIMES		JJD/TIME		DATA LOCATION		REMARKS	
TYPE & SN	9+ S/N 91220A	DATA ON		1715		Tape/Diskette ID	File Name/Header	Pre U-Tow 10	
PRESS SN	80020	START DOWN				MF-06-10 Leg II	CTD	Station	
PRI COND SN	915	AT DEPTH		1719					
PRI TEMP SN	710	AT SURFACE		1723				MAX. DEPTH =	m

SEC COND SN	884
SEC TEMP SN	304

POS.		<input checked="" type="checkbox"/> PAR 4242	<input checked="" type="checkbox"/> WEI STAR 678	<input checked="" type="checkbox"/> Dissolved Oxygen _	430904	<input checked="" type="checkbox"/> Dissolved Oxygen _	430910	<input type="checkbox"/>	Cleaned air bleed valve
TRIP DEPTH		CTD CONVERTED MONITOR VALUES							
		SAMPLE BOTTLE DATA							
		SAMPLE BOTTLE NUMBER							

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-06-10 Leg II		STATION DESIGNATION 109-1	
CONSC CAST #		LATITUDE DEG MIN		LONGITUDE DEG MIN	
DATE JD=		TIME (GMT)		DRY BULB (°C)	
PRESSURE		SEA STATE		VISIBILITY	
WIND DIRN.		WIND SPD.		CLOUD (amt)	
WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
CTD		TIMES		DATA LOCATION	
TYPE & SN		DATA ON		Tape/Diskette ID	
PRESS SN		START DOWN		File Name/Header	
PRI COND SN		AT DEPTH		CTD	
PRI TEMP SN		AT SURFACE		MAX. DEPTH =	
SEC COND SN					
SEC TEMP SN					
POS. TRIP DEPTH		PRESSURE		PRI. TEMP.	
		SEC. TEMP.		PRI. SALINITY	
				SALINITY	
				SAL.	
				MORBY'S NUTR.	
				CHL.	
				WHIT'S NUTR.	

CTD CONVERTED MONITOR VALUES

PAR 4242 ☒ WETSTAR 678 ☒ Dissolved Oxygen 430904 ☒ Dissolved Oxygen 430910 ☐ Cleaned air bleed valve

W/O = 68

02 Bottle # T°C

126 3.7

158 2.7

[illegible]

02 Bath #

4

[illegible]

[illegible]

11-2-53

0.2 T_{amp} 0.03 = 4.7 °C
219 4.7 °C

[illegible]

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG MF-06-10 Leg II		STATION DESIGNATION 115-1	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT)	DRY BULB (°C)
111	55.1.83 N	167.18.22 W	0800 10 6	2127	6.0
					% Hum
					72%
					PRESSURE
					SEA STATE
					VISIBILITY
					WIND DIRN.
					WIND SPD.
					CLOUD (amt)
					TYPE
					WEATHER
					BOTTOM DEPTH
					STA. NAME/ID
CTD	TIMES		JD/TIME	DATA LOCATION	
TYPE & SN	DATA ON		0122	Tape/Diskette ID	
PRESS SN	START DOWN			File Name/Header	
PRI COND SN	AT DEPTH		0127	CTD 111	
PRI TEMP SN	AT SURFACE		0134	MAX. DEPTH = 129 m	
SEC COND SN					
SEC TEMP SN					
<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve		CTD CONVERTED MONITOR VALUES			
POS.	TRIP	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
DEPTH					SEC. SALINITY
					SALINITY
1	8.8	129.6			262
2	100	101.3			157
3	75	76.4			158
4	50	50.8			159
5	40	40.2			160
6	30	29.7			161
7	20	20.5			162
8	10	10.4			163
9	0	2.4			164
10					165
11					
12					

θ_2 037 = 8.1°C
 Temp 059 = 8.1°C

W/O = 127

M2-M3 Line

[illegible]

VESSEL				PROJECT & LEG				STATION DESIGNATION						
NOAA RV MILLER FREEMAN				MF 06-10 Leg II				117-1						
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	% Hum (%)	PRESSURE (mb)	SEA STATE (deg)	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
113	55 25.93 N	168 03.68 W	080800	0456	5.7	03	7015	25	7				204	
CTD	TIMES		JD/TIME	DATA LOCATION										
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID										
PRESS SN	80020		START DOWN	File Name/Header										
PRI COND SN	915		AT DEPTH	CTD 113										
PRI TEMP SN	710		AT SURFACE	MAX. DEPTH = 197 m										
SEC COND SN	884													
SEC TEMP SN	304													
<input checked="" type="checkbox"/> PAR 4242 <input checked="" type="checkbox"/> WETSTAR 678 <input checked="" type="checkbox"/> Dissolved Oxygen 430904 <input checked="" type="checkbox"/> Dissolved Oxygen 430910 <input type="checkbox"/> Cleaned air bleed valve				CTD CONVERTED MONITOR VALUES										
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	APR. OXYGEN	SEC. SALINITY	SALINITY	SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.	SAMPLE BOTTLE NUMBER		
1	80 f	197.2			202/207		264		175					
2	150	150.1							176					
3	100	100.8							177					
4	75	75.0							178					
5	50	51.0							179					
6	40	40.2							180					
7	30	31.0							181					
8	20	20.2							182					
9	10	10.8							191					
10	0	3.0							192					
11														
12														

82 Temp 202 = 3.8
 207 = 3.8

W/O 194

Slope ~ 200m

