

VESSEL		PROJECT & LEG		STATION DESIGNATION																	
NOAA Ship MILLER FREEMAN		MF98-01		FOX61																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=50	TIME (GMT)	WET BULB	DRY BULB	PRESSURE (mb)	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID					
	DEG	MIN	DEG	MIN													DAY	MO	YR	HR	MIN
0025742.69N	15514.90W	15514.90	90	W	19	F	09	8	01	13	6.8	5.5	82	47	060	26	872	297	4.2		
CTD		TIMES		JD/TIME		DATA LOCATION												REMARKS			
TYPE & SN		9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header										CAST 2 OF 20			
PRESS SN		29772		START DOWN		CTD002												STA ON LINE, 8 CLOSEST			
TEMP SN		889		AT DEPTH														TO F-98-1			
COND SN		480		AT SURFACE														MAX. DEPTH = 51 m			
TEMP SN		701																w/o 55			
COND SN		303																			
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES														Cleaned air bleed valve		SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
		PAR	FLUOR	CHLOR	TRANSMISSOMETER											CHECK					
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY											SALINITY		SAL.	NUTR.	CHL.	OTHER
1	50																		.652		
2	40																		.651		
3	30																		.650		
4	20																		.649		
5	15																				
6	15																				
7	15																				
8	10																		.648		
9	0																		.647		
10																					
11																					
12																					

VESSEL			PROJECT & LEG			STATION DESIGNATION													
NOAA Ship MILLER FREEMAN			MF98-01			FOX 60													
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=50		TIME (GMT)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO											YR	HR	MIN
003	57	41.32	N	155	10.28	W	19	FEB	98	03	10	6.0	5.2	8.14	7065	28	771	291	5
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS											
TYPE & SN		9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header											
PRESS SN		29772		START DOWN				CTD003											
TEMP SN		889		AT DEPTH															
COND SN		480		AT SURFACE															
TEMP SN		701																	
COND SN		303																	
MAX. DEPTH =		288		m															
NOT READING		FLUOR		PAR		TRANSMISSOMETER		Cleaned air bleed valve		dgk									
CTD CONVERTED MONITOR VALUES		SALINITY		SEC. TEMP		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER									
PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY		SALINITY		SAL. NUTR. CHL. OTHER									
1						32.393		32.390		16									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

VESSEL		PROJECT & LEG		STATION DESIGNATION							
NOAA Ship MILLER FREEMAN		MF98-01		FOX59							
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD= 50	TIME (GMT)	WET BULB	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(deg)	(m/s)	*	*	(m)	
0045738.76N	15503.78W	19 FEB 98	0408	5.9	5.18	14705532	771	254	6,1		
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS			
TYPE & SN	9Plus 91660	DATA ON		Tape/Diskette ID		File Name/Header		CAST 1 OF 2 @ STA			
PRESS SN	29772	START DOWN				CTDOOH		ON LINE 8 CLOSEST			
TEMP SN	889	AT DEPTH						TO F-98-2			
COND SN	480	AT SURFACE						MAX. DEPTH = 247 m			
TEMP SN	701										
COND SN	303										
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SAL.	NUTR.	CHL	OTHER
1	250				32.058				.657		
2	200								.656		
3	150								.655		
4	100				32.128	32.058		6	.654		
5	75				32.065				.653		
6											
7											
8											
9											
10											
11											
12											

NOT HANDLING

☒ PAR☒ FLUOR☒ CHIAM☐ TRANSMISSOMETER☐ Cleaned air bleed valve

275

- 4pk

VESSEL		PROJECT & LEG		STATION DESIGNATION								
NOAA Ship MILLER FREEMAN		MF98-01		FOX59								
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD= 50	TIME (GMT)	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(mb)	(deg)	(m/s)	* * *		(m)	
005	57 38.70 N	155 04.15 W	19 FEB 98	04 47	6.0	5.28247	060	30	771	255	6.2	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS				
TYPE & SN 9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header		CAST 2 OF 2 @ 518				
PRESS SN 29772		START DOWN				CTD005		ON LINE 8 CLOSEST				
TEMP SN 889		AT DEPTH						TO F98-2				
COND SN 480		AT SURFACE						MAX. DEPTH = 52 m				
TEMP SN 701												
COND SN 303												
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE NUMBER		
1	50	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SALINITY		SAL.	NUTR.	CHL.
2	40									.663		OTHER
3	30									.662		
4	20									.661		
5	15									.660		
6	15											
7	15											
8	10									.659		
9	0									.658		
10												
11												
12												

NOT USING

☒ PAR☒ FLUOR☒ CHAM☐ TRANSMISSOMETER☐ Cleaned air bleed valve

dgk

VESSEL		PROJECT & LEG		STATION DESIGNATION								
NOAA Ship MILLER FREEMAN		MF98-01		FOX58								
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=50	TIME (GMT)	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(mb)	(deg)	(m/s)	*	*	(m)	
0106	5735.98 N	15500.41 W	19 FEB 98	0625	6.1	5.38	147	0553	26	75	236	7, 1
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS				
TYPE & SN 9Plus 91660		DATA ON				Tape/Diskette ID		File Name/Header				
PRESS SN 29772		START DOWN						C1D006				
TEMP SN 889		AT DEPTH										
COND SN 480		AT SURFACE										
TEMP SN 701												
COND SN 303										MAX. DEPTH = 231 m		
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE NUMBER		
						<input type="checkbox"/>		<input type="checkbox"/>		SAMPLE BOTTLE DATA		
										SALINITY		
1								32.449		32.428		
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

VESSEL		PROJECT & LEG		STATION DESIGNATION								
NOAA Ship MILLER FREEMAN		MF98-01		FOX 56								
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD= 50	TIME (GMT)	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(mb)	(deg)	(m/s)	* * *		(m)	
008	57 30.82 N	154 47.72 W	19 FEB 98	0814	5.9	5.08	47.06	0.24	221		207	9, 1
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS				
TYPE & SN 9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header		CAST 1 OF 20 STA				
PRESS SN 29772		START DOWN				CTD008		ON LINE 8 CLOSEST				
TEMP SN 889		AT DEPTH						TO F-98-3				
COND SN 480		AT SURFACE						MAX. DEPTH = 205 m				
TEMP SN 701								w/o = 227				
COND SN 303												
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL.		OTHER
1 200								32.414		.35		
2 150										.666		
3 100										.665		
4 75										.664		
5												
6												
7												
8												
9												
10												
11												
12												

NOT WORKING

VESSEL				PROJECT & LEG				STATION DESIGNATION						
NOAA Ship MILLER FREEMAN				MF98-01				FOX 56						
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 50		TIME (GMT)		WET BULB (°C)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR						
5730	76	N	154	46	19	FEB	98	08	51	060	20	8	42	210
<div>CTD</div> <div> <div>TYPE & SN 91660</div> <div>DATA ON</div> <div>START DOWN</div> <div>AT DEPTH</div> <div>AT SURFACE</div> </div> <div> <div>DATE ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 480</div> <div>TEMP SN 701</div> <div>COND SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 303</div> <div>TEMP SN 701</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND SN 701</div> <div>TEMP SN 303</div> </div> <div> <div>DATA ON</div> <div>File Name/Header</div> <div>Tape/Diskette ID</div> <div>CTD009</div> </div>														
<div> <div>COND</div></div>														

VESSEL			PROJECT & LEG			STATION DESIGNATION																									
NOAA Ship MILLER FREEMAN			MF98-01																												
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 50		TIME (GMT)		WET BULB		PRESSURE		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID						
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	.	.	(deg)	(m/s)	(m)								
01	55	56.66	N	156	08.57	W	19	F	EB	9	8	2	1	5	6	5.1	4.7	7	4	4	7	0	7	0	7	2					
CTD			TIMES			JD/TIME			DATA LOCATION			REMARKS																			
TYPE & SN			DATA ON			Tape/Diskette ID			File Name/Header																						
PRESS SN			START DOWN						CTD011																						
TEMP SN			AT DEPTH																												
COND SN			AT SURFACE																												
TEMP SN			<input checked="" type="checkbox"/> PAR <input type="checkbox"/> FLUOR* <input type="checkbox"/> CHAM <input checked="" type="checkbox"/> TRANSMISSOMETER <input checked="" type="checkbox"/> Cleaned air bleed valve																												
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																													
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAMPLE BOTTLE DATA																	SAMPLE BOTTLE NUMBER							
1						32.390	32.378																		SAL. NUTR. CHL. WHIT'S NUTR.						
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

VESSEL			PROJECT & LEG			STATION DESIGNATION																
NOAA Ship MILLER FREEMAN			MF98-01																			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 51		TIME (GMT)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID						
	DEG	MIN	DEG	MIN	DAY	MO											YR	HR	MIN	°C	(mb)	(deg)
012	55	17.20	N	161	41.35	W	20	FEB	98	16	17	2.0	1.3	761	762	108	12, 1					
CTD		TIMES		JD/TIME		DATA LOCATION											REMARKS					
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header																
PRESS SN		START DOWN				CTD012											(PRIOR TO RECON)					
TEMP SN		AT DEPTH															ATTEMPT OF '97 PAPER					
COND SN		AT SURFACE															MAX. DEPTH = 63 m					
TEMP SN		<input checked="" type="checkbox"/> PAR		<input type="checkbox"/> FLUOR		<input type="checkbox"/> CHIAM		<input type="checkbox"/> TRANSMISSOMETER		<input type="checkbox"/> Cleaned air bleed valve												
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES															SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY											SALINITY			SAL.	NUTR.	CHL.	WHIT'S NUTR.
1					31.403											31.396			32			
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

VESSEL				PROJECT & LEG				STATION DESIGNATION										
NOAA Ship MILLER FREEMAN				MF98-01														
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 52		TIME (GMT)	DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	VISIBILITY	(deg)	(m/s)	(m)		
15	54	22.60	N	165	16.39	W	21	F	9	8	21	00	1.3	1.1	85.4	6340	1677	15.1
CTD				TIMES				DATA LOCATION				REMARKS						
TYPE & SN 9Plus 91660				DATA ON				Tape/Diskette ID				File Name/Header						
PRESS SN 29772				START DOWN								CTD015						
PRI TEMP SN 889				AT DEPTH														
PRI COND SN 480				AT SURFACE								MAX. DEPTH = m						
SEC TEMP SN 701																		
SEC COND SN 303																		
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
1	150							32.267		32.260		21		694				
2	100													693				
3	75													692				
4	50													691				
5	40													690				
6	30													X				
7	20													689				
8	10													688				
9	0													687				
10																		
11																		
12																		

☐ PAR

☐ FLUOR

☒ CHIAM

☐ TRANSMISSOMETER

☐ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

VESSEL		PROJECT & LEG		STATION DESIGNATION																		
NOAA Ship MILLER FREEMAN		MF98-01																				
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 52		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIN D SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	(m)				
016	54	20	16	52	21	F	EB	98	22	36	0.5	0.28	6	4	7	34	5	20	87	8	148	16-1
CTD		TIMES		JD/TIME		DATA LOCATION														REMARKS		
TYPE & SN 9Plus 91660		DATA ON				Tape/Diskette ID		File Name/Header												UNIMAX PASS		
PRESS SN 29772		START DOWN						CIDD016												E → W		
PRI TEMP SN 889		AT DEPTH																				
PRI COND SN 480		AT SURFACE																				
SEC TEMP SN 701																				MAX. DEPTH = 143 m		
SEC COND SN 303																						
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE DATA		SAL.		NUTR.		CHL.		OTHER				
1	143							32.368		32.361				702								
2	100													701								
3	75													700								
4	50													699								
5	40													698								
6	30													X								
7	20													697								
8	10													696								
9	0													695								
10																						
11																						
12																						

☒ PAR

☐ FLUOR

☒ CHAM

☐ TRANSMISSOMETER

☒ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

VESSEL		PROJECT & LEG		STATION DESIGNATION																	
NOAA Ship MILLER FREEMAN		MF98-01																			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 53		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIN D SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	(m)			
0175422	23	N	16555	29	W	22	F	9	8	0137	0.8	1.4	89	47	340	159	3	476	17, 1		
CTD																					
TYPE & SN		9Plus 91660		DATA ON				Tape/Diskette ID		File Name/Header		REMARKS									
PRESS SN		29772		START DOWN						C1D017		0 m bucket sample									
PRI TEMP SN		889		AT DEPTH								5-N									
PRI COND SN		480		AT SURFACE								Boring Canyon									
SEC TEMP SN		701										MAX. DEPTH = 465 m									
SEC COND SN		303																			
POS.		TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE DATA		SAL.		NUTR.		CHL.		OTHER	
1	300									33.313		33.302		13		X					
2	250															.136					
3	200															.135					
4	150															.134					
5	100															.133					
6	75															.132					
7	50															.131					
8	40															.130					
9	30															X					
10	20															.129					
11	10															.704					
12	0*															.703					

☒ PAR

☐ FLUOR

☐ CHIAM

☐ TRANSMISSOMETER

☒ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

VESSEL		PROJECT & LEG		STATION DESIGNATION						
NOAA Ship MILLER FREEMAN		MF98-01		033835						
CONSC CAST #	LATITUDE	LONGITUDE	DATE	TIME (GMT)	WET BULB	WIND DIRN.	WIND SPD.	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(deg)	(m/s)	CLOUD (amt)	(m)	
0185428.36N	16601.66W	22	22 FEB 98	0359	-0.3	113	93	47	330	18, 1
CTD		TIMES		DATA LOCATION		REMARKS				
TYPE & SN 9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header				
PRESS SN 29772		START DOWN				CTD018				
PRI TEMP SN 889		AT DEPTH								
PRI COND SN 480		AT SURFACE								
SEC TEMP SN 701										
SEC COND SN 303										
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve				
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE DATA
1 300								33.403		SAL. NUTR. CHL. OTHER
2 250								33.393		33.147
3 200										.146
4 150										.145
5 100										.144
6 75										.143
7 50										.142
8 40										.141
9 30										.140
10 20										X
11 10										.139
12 0										.138
										.137

PAR
*these changed PAR
to Niskin bottles
max room for more
bottles
MAX. DEPTH =

VESSEL			PROJECT & LEG			STATION DESIGNATION								
NOAA Ship MILLER FREEMAN			MF98-01											
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=53		TIME (GMT)	WET BULB	WIND DIRN.	WIND SPD.	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(m/s)	(m)		
0195434	58	N	16607	94	W	22	F	07	49	-1.3	95	421	19,1	
CTD			TIMES			JD/TIME			DATA LOCATION					
TYPE & SN 9Plus 91660			DATA ON						Tape/Diskette ID File Name/Header					
PRESS SN 29772			START DOWN						CTD019					
PRI TEMP SN 889			AT DEPTH											
PRI COND SN 480			AT SURFACE											
SEC TEMP SN 701														
SEC COND SN 303														
POS. TRIP DEPTH			CTD CONVERTED MONITOR VALUES			TRANSMISSOMETER			Cleaned air bleed valve					
			PRESSURE			PRI. TEMP.			SEC. TEMP.			SAMPLE BOTTLE DATA		
			SALINITY			SALINITY			SAL.			NUTR. CHL. OTHER		
1	300											9 158		
2	250											157		
3	200											156		
4	150											155		
5	100											154		
6	75											153		
7	50											152		
8	40											151		
9	30											X		
10	20											150		
11	10											149		
12	0											148		

MAX. DEPTH = 412 m

REMARKS

* base changed PAR to 10000 bottles

VESSEL				PROJECT & LEG				STATION DESIGNATION											
NOAA Ship MILLER FREEMAN				MF98-01															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 53		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIN D SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	298 BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO													
424	54	41.58 N	166	14.52 W	22	FEB	98	09	14	05.2	1.0	9647	330	188	72			298	20, 1
CTD		JD/TIME		TIMES		DATA LOCATION		REMARKS											
TYPE & SN 9Plus 91660				DATA ON		Tape/Diskette ID		File Name/Header											
PRESS SN 29772				START DOWN				CTD020											
PRI TEMP SN 889				AT DEPTH															
PRI COND SN 480				AT SURFACE															
SEC TEMP SN 701								MAX. DEPTH = m											
SEC COND SN 303																			
POS. TRIP DEPTH		PAR		FLUOR		CHIAM		TRANSMISSOMETER		Cleansed air bleed valve									
				CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER											
				PRESSURE		PRI. TEMP.		SEC. TEMP		SALINITY									
1	280									SAL. NUTR. CHL. OTHER									
2	250									22 169									
3	200									168									
4	150									167									
5	100									166									
6	75									165									
7	50									164									
8	40									163									
9	30									162									
10	20									X									
11	10									161									
12	0									160									
										159									

VESSEL			PROJECT & LEG			STATION DESIGNATION								
NOAA Ship MILLER FREEMAN			MF98-01											
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 54		TIME (GMT)	WET BULB	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)	(m)
0215623.39 N	16	52	3.95	23.95	W	23	F	06	28	0.7	18.0	23	877	21-1
CTD			TIMES			JD/TIME			DATA LOCATION			REMARKS		
TYPE & SN 9Plus 91660			DATA ON			Tape/Diskette ID			File Name/Header			PAR IS BACK IN ITS		
PRESS SN 29772			START DOWN						C1D021			MOUNTING BRACKET		
PRI TEMP SN 889			AT DEPTH									CROSS SHORE		
PRI COND SN 480			AT SURFACE									MAX. DEPTH = 84 m		
SEC TEMP SN 701														
SEC COND SN 303														
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
1														
2	70													
3	60													
4	50													
5	40													
6	30													
7	20													
8	10													
9	0													
10														
11														
12														

☒ PAR*

☐ FLUOR

☒ CHIAM

☐ TRANSMISSOMETER

☐ CTD CONVERTED MONITOR VALUES

☐ CLEANED AIR BLEED VALVE

VESSEL						PROJECT & LEG							STATION DESIGNATION																			
NOAA Ship MILLER FREEMAN						MF98-01																										
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD= 54			TIME (GMT)		DRY BULB		WET BULB		SEA STATE		VISIBILITY		WIND DIRN.		WIN D SPD.		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
		DEG MIN		DEG MIN		DAY MO YR		HR MIN		(°C)		(°C)		(mb)						(deg)		(m/s)		*		*		(m)				
0235610.05N		16606.41W		23 FEB 98		1047		1.7		4.7		6.7		58		21		0		18		27		1		107		23-1				
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																								
TYPE & SN 9Plus 91660		DATA ON _____		Tape/Diskette ID File Name/Header																												
PRESS SN 29772		START DOWN _____		CTDOOZ3																												
PRI TEMP SN 889		AT DEPTH _____																														
PRI COND SN 480		AT SURFACE _____																														
SEC TEMP SN 701																																
MAX. DEPTH = m																																
SEC COND SN 303																																
POS. TRIP DEPTH																																
1 100																																
2 75																																
3 50																																
4 40																																
5 30																																
6 20																																
7 10																																
8 0																																
9																																
10																																
11																																
12																																

VESSEL				PROJECT & LEG				STATION DESIGNATION													
NOAA Ship MILLER FREEMAN				MF98-01																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 54		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	(m)				
0125	56	02.9	16	20.1	23	FEB	98	16	13	2.2	1.1	64.5	7	15	24	8	67	123	25-1		
CTD				TIMES				JD/TIME				DATA LOCATION				REMARKS					
TYPE & SN				DATA ON				Tape/Diskette ID				File Name/Header									
PRESS SN				START DOWN								CTD025									
TEMP SN				AT DEPTH																	
COND SN				AT SURFACE												MAX. DEPTH = m					
TEMP SN																					
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.	CHL.	WATERLOG	
1	115																	191		32	Waterlog
2	100																	190		31	
3	75																	189		30	
4	50	pycnocline ~ 55m																188		29	
5	40																	187		28	
6	30																	186		27	
7	20																	185		26	
8	10																	184		15	
9	5																	184		24	
10																					
11																					
12																					

VESSEL				PROJECT & LEG				STATION DESIGNATION												
NOAA Ship MILLER FREEMAN				MF98-01																
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 55		TIME (GMT)	DRY BULB	WET BULB	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	WIN D	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)			(deg)	(m/s)	*	(m)		
0275659	9	7	164	11	24	F	B	9	8	0.5	0.5	67.5	56	19	5	10	87	7	71	277
CTD				JD/TIME				DATA LOCATION				REMARKS								
TYPE & SN 9Plus 91660				DATA ON				Tape/Diskette ID				File Name/Header								
PRESS SN 29772				START DOWN								CTD023								
TEMP SN 889				AT DEPTH																
COND SN 480				AT SURFACE																
TEMP SN 701																MAX. DEPTH = m				
COND SN 303																40 - 72m				
POS.	TRIP DEPTH	PAR		FLUOR		CHIAM		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
1	bottom											SALINITY		SAL.		NUTR.		CHL. OTHER		
2	60													16		2310				
3	50															2309		38		
4	40															2308		37		
5	34															2307		36		
6	20															2306		35		
7	10															2305		34		
8	0															192		33		
9																				
10																				
11																				
12																				

Nuts

pycnocline

leaking

leaking - no samples

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAA Ship MILLER FREEMAN		MF98-01			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 56
DEG	MIN	DEG	MIN	DAY	MO YR
429	5652.66N	16464.07W	25	FEB	98
CTD	TIMES		JD/TIME		
TYPE & SN	9Plus 91660		DATA ON		
PRESS SN	29772		START DOWN		
TEMP SN	889		AT DEPTH		
COND SN	480		AT SURFACE		
TEMP SN	701				
COND SN	303				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
1	70	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY
2	50				
3	43				
4	43				
5	43				
6	30				
7	25				
8	25				
9	25				
10	20				
11					
12					
		CLEANED AIR BLEED VALVE		SAMPLE BOTTLE DATA	
		TRANSMISSOMETER		SAMPLE BOTTLE NUMBER	
		FLUOR		SAL.	
		CHIAM		NUTR.	
		PAR		CHL.	
				OTHER	
				NOTS	
				49	
				48	
				47	
				46	
				45	
				44	
				43	
				42	
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VESSEL		PROJECT & LEG		STATION DESIGNATION															
NOAA Ship MILLER FREEMAN		MF98-01																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=56		TIME (GMT)		DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIN D SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)				
0305	65	2.7	65	N	16	4	04	20	W	25	F	E	B	9	8	09	41		
CTD				TIMES				JD/TIME				DATA LOCATION				REMARKS			
TYPE & SN 9Plus 91660				DATA ON				Tape/Diskette ID				File Name/Header							
PRESS SN 29772				START DOWN								CTD030							
TEMP SN 889				AT DEPTH															
COND SN 480				AT SURFACE												MAX. DEPTH = 69 m			
TEMP SN 701																			
COND SN 303																			
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL. NUTR. CHL. OTHER		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
1	63											24							
2	11																		
3	11																		
4	11															.2322, 51			
5	7																		
6	7																		
7	7																		
8	0															.2321, 50			
9																			
10																			
11																			
12																			

lots of ship roll made
near surface sampling
cleaned air bleed valve difficult

☒ PAR ☐ FLUOR ☒ CHAM ☐ TRANSMISSOMETER

CTD CONVERTED MONITOR VALUES

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA Ship MILLER FREEMAN		MF98-01														
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB	WET BULB	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	(deg)	(m/s)	(m)		
03	1	56	44	1	2	N	16	35	3	36	W	2	5	3	30	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS								
TYPE & SN		9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header								
PRESS SN		29772		START DOWN				CTD031								
TEMP SN		889		AT DEPTH												
COND SN		480		AT SURFACE												
TEMP SN		701														
COND SN		303														
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.	CHL.	OTHER
1	70											21		2328		58
2	50													2327		57
3	40													2326		56
4	30															55
5	20													2325		54
6	10													2324		53
7	0													2323		52
8																
9																
10																
11																
12																

☐ PAR

☐ FLUOR

☒ CHAM

☐ TRANSMISSOMETER

☐ CTD CONVERTED MONITOR VALUES

☐ SAMPLE BOTTLE DATA

☐ SAMPLE BOTTLE NUMBER

☐ CLEANED AIR BLEED VALVE

☐ MAX. DEPTH = m

VESSEL				PROJECT & LEG				STATION DESIGNATION											
NOAA Ship MILLER FREEMAN				MF98-01															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 516		TIME (GMT)		WET BULB (°C)	DRY BULB (°C)	SEA STATE	WIND DIRN. (deg)	WIN D SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											MIN
6325645.96N	16419.62W	25	FEB	98	15	41	11	01	10	01	65	240	15	84	7	76	31-1		
CTD				TIMES				JD/TIME				DATA LOCATION				REMARKS			
TYPE & SN 9Plus 91660				DATA ON				Tape/Diskette ID				File Name/Header							
PRESS SN 29772				START DOWN								CTD032							
TEMP SN 889				AT DEPTH															
COND SN 480				AT SURFACE												MAX. DEPTH = m			
TEMP SN 701																			
COND SN 303																			
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY									SALINITY	SAL.	NUTR.	CHL.	OTHER	
1	270														10	2334		LS	
2	50															2333		LS	
3	40															2332		LS	
4	30																	LS	
5	20															2331		LS	
6	10															2330		LS	
7	0															2329		59	
8																			
9																			
10																			
11																			
12																			

VESSEL				PROJECT & LEG				STATION DESIGNATION																																			
NOAA Ship MILLER FREEMAN				MF98-01																																							
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD= 53		TIME (GMT)		WET BULB		DRY BULB		SEA STATE		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID																	
DEG MIN		DEG MIN		DEG MIN		DAY MO YR		HR MIN		°C		°C		P RESSURE		(deg)		(m/s)		* * *		* * *		(m)																			
034		5522.5		11.03		26 FEB 98		1413		0.5		0.5		51237		0		5		4		2		513		33-1																	
CTD				TIMES				JD/TIME				DATA LOCATION				REMARKS																											
TYPE & SN 9Plus 91660				DATA ON				Tape/Diskette ID				File Name/Header																															
PRESS SN 29772				START DOWN								CTD034																															
TEMP SN 889				AT DEPTH																																							
COND SN 480				AT SURFACE																																							
TEMP SN 701																																											
COND SN 303																																											
MAX. DEPTH =				m																																							
POS.				TRIP DEPTH				CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER																											
1				500				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY				SAL.				NUTR.				CHL.				OTHER							
2				300																								35				2356				89							
3				250																												2355				88							
4				200																												2354				87							
5				150																												2353				86							
6				100																												2352				85							
7				75																												2351				84							
8				50																												2350				83							
9				40																												2349				82							
10				30																												2348				81							
11				20																												2347				80							
12																																				2346				79			

VESSEL		PROJECT & LEG		STATION DESIGNATION															
NOAA Ship MILLER FREEMAN		MF98-01																	
CONSCAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	VAR WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN							(m)			
036	55	20.88	N	168	15.71	W	26	F	EB	98	16	41	3.0	-0.1	11247	0	5	21135	34-1
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS											
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header													
PRESS SN		START DOWN				CTD036													
TEMP SN		AT DEPTH																	
COND SN		AT SURFACE																	
TEMP SN								MAX. DEPTH = m											
TRIP DEPTH		POS.		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER							
				PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.	
1 4150														7		2368		NOTS TUS other	
2 1000																2367		103	
3 500																2364		102	
4 300																2365		101	
5 250																2364		100	
6 200																2363		99	
7 150																2362		98	
8 100																2361		97	
9 75																2360		96	
10 50																2358		95	
11 40																2359		94	
12 30																/		93	

