

VESSEL		PROJECT & LEG		STATION DESIGNATION														
NOAA Ship MILLER FREEMAN		MR 98-03A 98-SA		CTD														
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN														DAY
001	57	30.92	N	154	47.39	W	07	08	00	00	00	00	00	00	00	00	00	00
CTD		TIMES		JD/TIME		DATA LOCATION												
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header												
PRESS SN		START DOWN																
TEMP SN		AT DEPTH																
COND SN		AT SURFACE																
TEMP SN						MAX. DEPTH = 203 m												
REMARKS		w/0-212																
CTD CONVERTED MONITOR VALUES		Cleansed air bleed valve																
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		WHIT'S NUTR.		
1	200 ✓													SAL. 35		NUTR. 522		
2	150 ✓													SAL. 521		NUTR. 520		
3	100 ✓													SAL. 519		NUTR. 518		
4	75 ✓													SAL. 517		NUTR. 516		
5	50 ✓													SAL. 515		NUTR. 514		
6	40 ✓													SAL. 513		NUTR. 512		
7	30 ✓													SAL. 511		NUTR. 510		
8	20 ✓													SAL. 509		NUTR. 508		
9	10 ✓													SAL. 507		NUTR. 506		
10	0 ✓													SAL. 505		NUTR. 504		
11														SAL. 503		NUTR. 502		
12														SAL. 501		NUTR. 500		

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VESSEL						PROJECT & LEG						STATION DESIGNATION								
NOAA Ship MILLER FREEMAN						MFR- 98-SA 98-SA														
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR											
0025735.98		N	15500.92	W	07	APR	1998	1536	1.5	0.5	0.3	28	VAR	04	461	*	*	236	002	
CTD		TIMES		JD/TIME		DATA LOCATION														
TYPE & SN		DATA ON		Tape/Diskette ID		File Name/Header														
PRESS SN		START DOWN																		
TEMP SN		AT DEPTH																		
COND SN		AT SURFACE																		
TEMP SN						MAX. DEPTH = 229 m														
TRIP DEPTH						<input type="checkbox"/> PAR		<input type="checkbox"/> FLUOR		<input checked="" type="checkbox"/> ChlAM		<input type="checkbox"/> TRANSMISSOMETER		<input type="checkbox"/> Cleaned air bleed valve						
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.	SEC. TEMP.	SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
1	225									SAL.	NUTR.	CHL.	NUTR.							
2	200									01	533									
3	150										532									
4	100										531									
5	75										530									
6	50										529									
7	40										528	Y	Y	Y						
8	30										527	Y	Y	Y						
9	20										526	Y	Y	Y						
10	10										525	Y	Y	Y						
11	0										524	Y	Y	Y						
12											523	Y	Y	Y						

VESSEL NOAA Ship MILLER FREEMAN				PROJECT & LEG MRE 98-SA				STATION DESIGNATION															
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		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)			
035740.70 N		15510.49 W		07 SEP 98		1830		4.5		1.5		VAR 0328		03361		289		03					
CTD				TIMES				JD/TIME				DATA LOCATION				REMARKS							
TYPE & SN				DATA ON				Tape/Diskette ID				File Name/Header											
PRESS SN				START DOWN																			
TEMP SN				AT DEPTH																			
COND SN				AT SURFACE																			
TEMP SN																MAX. DEPTH = 290 m							
POS. TRIP DEPTH				CTD CONVERTED MONITOR VALUES				TRANSMISSOMETER				Cleaned air bleed valve											
				PRESSURE				PRI. TEMP.				SEC. TEMP.				SALINITY							
1 2731																							
2 250 ✓																							
3 200 ✓																							
4 150 ✓																							
5 100 ✓																							
6 75 ✓																							
7 50 ✓																							
8 40 ✓																							
9 30 ✓																							
10 20 ✓																							
11 10 ✓																							
12 0 ✓																							

$$w/o = 115$$

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAA Ship MILLER FREEMAN		MR-22-2000 98-SA			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=
	DEG	MIN	DEG	MIN	DAY
0055715	9	02	N	154	25
	TIME		TIME		TIME
	HR	MIN	SEC	HR	MIN
	08	34	5	08	34
CTD 911 Plus	DATA ON		DATA LOCATION		REMARKS
TYPE & SN	START DOWN		File Name/Header		CTD at Spawna Fish
PRESS SN	AT DEPTH		CTD005		Trawl For Egg
TEMP SN 889	AT SURFACE				Water
COND SN 480					MAX. DEPTH = m
TEMP SN 701					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		Cleaned air bleed valve	
		PAR	FLUOR	CHIAM	TRANSMISSOMETER
		PRI. TEMP.	SEC. TEMP.	SAMPLE BOTTLE DATA	
				SAMPLE BOTTLE NUMBER	
1	307	PRESSURE		SALINITY	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

2nd cond
303

VESSEL		PROJECT & LEG		STATION DESIGNATION																	
NOAAS MILLER FREEMAN		MF-98-5A																			
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	DEG	MIN													DAY	MO	YR	HR	MIN
006	57	41.38	N	15	51	5.26	W	08	06	3.9	2.8	27	18	5	0	7	6	1	2	9	8
Port Side CTD		TIMES		JD / TIME		DATA LOCATION															
TYPE / SN SBE 9+ 91660		DATA ON				Tape/Diskette ID		File Name/Header													
PRESS SN 29772		START DOWN						CTD006													
TEMP SN 1:889 2:701		AT DEPTH																			
COND SN 1:480 2:303		AT SURFACE																			
								PAR		FLUOR		CHAM		TAPS6		TAPS4					
SEA-BIRD 9/11+ CTD DATA																					
TRIP	POS.	DEPTH	PRESSURE	PRL TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	CHAM	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER									
1	0	✓																			
2	10	✓																			
3	15	✓																			
4	15	✓																			
5	15	✓																			
6	20	✓																			
7	30	✓																			
8	40	✓																			
9	50	✓																			
10	Depth										03										
11																					
12																					

MAX. DEPTH = 288 m

REMARKS
W/O= 306
Air Valve cleaned

[illegible]

[illegible]

[illegible]

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAAS MILLER FREEMAN		MF-98-5A			
CONSC CAST #		LATITUDE		LONGITUDE	
		DEG	MIN	DEG	MIN
011	55 16.05 N	116	51 8.47 W	116	51 8.47 W
		DATE JD=		TIME (GMT)	
		DAY	MO	YR	HR MIN
		11	APR	98	16 32
		SEA STATE		WIND DIRN	
		7		270	
		PRESSURE		WIND SPD	
		1077		22	
		WET BULB		WEATHER	
		13.1		62	
		DRY BULB		CLOUD (amt)	
		20.4		7	
		TIME		WIND	
		16 32		22	
		DATE		WIND	
		11 APR 98		22	
		TIME		WIND	
		16 32		22	
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		TIME		WIND	
		16 32		22	
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