

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA Ship MILLER FREEMAN		MF97-09B		1-1											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=262	TIME (GMT)	WIND DIRN.	WIND SPD.	SEA STATE	WET BULB	DRY BULB	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
0015752.22N	17017.69W	19 SEP 97	063209.706.9	063209.706.9	260	15	561	76	001						
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS							
TYPE & SN 9PLUS 91660		DATA ON		Tape/Diskette ID		File Name/Header		Tape/Diskette ID		File Name/Header		Tape/Diskette ID		File Name/Header	
PRESS SN 29772		START DOWN		0000-5808		CTD001		0000-5808		CTD001		0000-5808		CTD001	
TEMP SN 889		AT DEPTH													
COND SN 480		AT SURFACE													
TEMP SN 201/303															
POS	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		CLEANED AIR BLEED VALVE		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
1	63	DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SAL.		NUTRIENT		OTHER	
2		60.188	1.6833	1.6838	31.1283	31.1538		20							
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

VESSEL		PROJECT & LEG		STATION DESIGNATION						
NOAA Ship MILLER FREEMAN		MF97-09B		2-1						
CONSC. CAST #	LATITUDE	LONGITUDE	DATE	TIME	WIND DIRN.	WIND SPD.	WIND TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(deg)	(m/s)	(m/s)	(m)		
0025828.43 N	16832.54 W	19 SEP 97	110507.4	05.69547	236	15	681	62	002	
CTD		TIMES		DATA LOCATION		REMARKS				
TYPE & SN 9PLUS 91660		DATA ON		Tape/Diskette ID		File Name/Header				
PRESS SN 29772		START DOWN		Tape 1		CTD002				
TEMP SN 889		AT DEPTH		0808-						
COND SN 480		AT SURFACE		(-24023)						
TEMP/SN 701/303								MAX. DEPTH = 55 m		
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
		PAR	FLUOR	CHLOR						
		PRESSURE		PRI. TEMP.	SEC. TEMP.	SALINITY		SAL.	NUTRIENT	OTHER
1	52.682	2.4018		2.4017	31.1943	31.2209		21		
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL NOAA Ship MILLER FREEMAN		PROJECT & LEG MF97-09B		STATION DESIGNATION 3-1															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=262	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															
003	58	32.99	N	168	15.7	W	12	25	7.5	6.2	954	72	20	13	48	1	56	003	
CTD		TIMES		JD/TIME		DATA LOCATION												REMARKS	
TYPE & SN 9PWS 91660		DATA ON				Tape/Diskette ID File Name/Header												F-97IF-6	
PRESS SN 29772		START DOWN				0000-0730 CTD-003													
TEMP SN 889		AT DEPTH				* NUMBERS ACCIDENTALLY													
COND SN 480		AT SURFACE				RESET (STILL THIRD CAST ON 1st TAPE)													
TEMP/SN COND 701/303						TRANSMISSOMETER												MAX. DEPTH = 52 m	
POS. TRIP DEPTH						CTD CONVERTED MONITOR VALUES		FLUOR		CHLOR		CLEANED AIR BLEED VALVE		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
								PAR		CHLOR		CLEANED AIR BLEED VALVE		SALINITY		SAL. NUTRIENT OTHER			
1 51		49.823		45030		45034		31.1455		31.1305		22							
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

VESSEL NOAA Ship MILLER FREEMAN		PROJECT & LEG MF97-09B		STATION DESIGNATION 4-1																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=262	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
0045842.24	N	16805.55	W	19	SEP	97	13	49	07.8	06.4	95	57	21	41	3	181	0048	004			
CTD		TIMES		JD/TIME		DATA LOCATION												REMARKS 971F-5			
TYPE & SN 9PWS 91660		DATA ON				Tape/Diskette ID						File Name/Header									
PRESS SN 29772		START DOWN				TAPE 1						CTD 004									
TEMP SN 889		AT DEPTH																			
COND SN 480		AT SURFACE																MAX. DEPTH = 42 m			
TEMP/SN 701/303																					
POS	TRIP DEPTH	DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA									SAMPLE BOTTLE NUMBER		
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY									SAL.	NUTRIENT	OTHER
1	40	40.616		3.6193		3.6103		31.0871		31.1106									14		
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

VESSEL		PROJECT & LEG		STATION DESIGNATION						
NOAA Ship MILLER FREEMAN		MF97-09B		6-1						
CONSC CAST #	LATITUDE	LONGITUDE	DATE	TIME	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG MIN	DEG MIN	JD=	HR MIN	(deg)	(m/s)	• • •	• • •	(m)	
006	58 47.96 N	168 22.94 W	19 SEP 97	160307.0	57210	11	681	0049	006	
CTD		TIMES		DATA LOCATION		REMARKS				
TYPE & SN 91660		DATA ON		Tape/Diskette ID		File Name/Header				
PRESS SN 29772		START DOWN		Tape		19:54-27:00				
TEMP SN 889		AT DEPTH								
COND SN 480		AT SURFACE								
TEMP/SN 701/303										
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		
		PAR	FLUOR	CHLAM				SALINITY	SAL.	NUTRIENT
1	43	43.264	7.3319	7.3320	31.0173	31.0412	16			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

MAX. DEPTH = 45 m

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA Ship MILLER FREEMAN		MF97-09B		DEEP-16-1												
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD= 263		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0095652.82N	164011.66W	205811.00	SEP 97	205811.00	08.60	53.82	15.01	48.1	73	009						
CTD		TIMES		JD/TIME		DATA LOCATION										
TYPE & SN 9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header										
PRESS SN 29772		START DOWN		TAPED		F-97BSM-2										
TEMP SN 889		AT DEPTH		0000-1743		CIP0009										
COND SN 480		AT SURFACE				MAX. DEPTH = 71 m										
TEMP SN 701																
COND SN 303																
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
1	70	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY						SALINITY	SAL.	NUTR.	CHL.	OTHER	
2	50				31.8681						31.8952	29	2049			
3	44*												2050			
4	44															
5	44															
6	40												2051			
7	30															
8	24															
9	24															
10	24															
11	20															
12	10															

☒ PAR

☒ FLUOR

☒ CHIAM

☐ TRANSMISSOMETER

☒ Cleaned air bleed valve

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA Ship MILLER FREEMAN		MF97-09B		16-3											
CONSCAST #	LATITUDE	LONGITUDE	DATE JD= 263	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	STA. NAME/ID
0115652.63N	16401.82W	20 SEP 97	220610.108.00538	220610.108.00538	10.108.00538	10.108.00538	10.108.00538	10.108.00538	10.108.00538	10.108.00538	10.108.00538	10.108.00538	10.108.00538	10.108.00538	10.108.00538
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS							
TYPE & SN 9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header									
PRESS SN 29772		START DOWN		2629-2629*		CTD011									
TEMP SN 889		AT DEPTH		*NOT EN											
COND SN 480		AT SURFACE													
TEMP SN 701															
COND SN 303															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		FLUOR <input checked="" type="checkbox"/>		CHIAM <input checked="" type="checkbox"/>		TRANSMISSOMETER <input type="checkbox"/>		Cleaned air bleed valve <input checked="" type="checkbox"/>		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	
1	12	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY		SALINITY		SAL.		NUTR.		CHL.		OTHER
2	8														
3	6														
4	3														
5	2														
6	0														
7															
8															
9															
10															
11															
12															

VESSEL		PROJECT & LEG		STATION DESIGNATION							
NOAA Ship MILLER FREEMAN		MF97-09B		DSDP 16-18							
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD= 264	TIME (GMT)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
0125652.77N	16403.92W	16403.92W	21 SEP 97	033110.1	08.0	0538	VAR	LT 481	71	012	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS			
TYPE & SN 9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header		F-99BBSM-2			
PRESS SN 29772		START DOWN		2629-4140		CTD012					
TEMP SN 889		AT DEPTH									
COND SN 480		AT SURFACE									
TEMP SN 701											
COND SN 303											
MAX. DEPTH = 70 m											
<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" 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			
1	70	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY		SAL.	NUTR.	CHL.	OTHER
2	50				31.8646	31.8910		18	2058		
3	40								2057		
4	30								2056		
5	20								/		
6	10								/		
7	0								2055		
8									2054		
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION							
NOAA Ship MILLER FREEMAN		MF97-09B		DSDB 17-1							
CONSCAST #	LATITUDE	LONGITUDE	DATE JD= 264	TIME (GMT)	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
0135643.90N	16353.03W	21 SEP 97	061110.1	8.00538	VAR	LT	481	75	013		
CTD		TIMES		DATA LOCATION		REMARKS					
TYPE & SN 9Plus 91660		DATA ON		Tape/Diskette ID		F-97DSM-2					
PRESS SN 29772		START DOWN		4140-		(SEE OF MRG)					
TEMP SN 889		AT DEPTH		DATA OUT of							
COND SN 480		AT SURFACE		Tape		MAX. DEPTH = 71 m					
TEMP SN 701											
COND SN 303											
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		SAMPLE BOTTLE DATA					
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE NUMBER	
1 70								31.9661		27 2063	
2 50										2062 ✓	
3 40										2061 ✓	
4 30										✓	
5 20										✓	
6 10										2060 ✓	
7 0										2059 ✓	
8											
9											
10											
11											
12											

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

[illegible]

VESSEL						PROJECT & LEG							STATION DESIGNATION									
NOAA Ship MILLER FREEMAN						MF97-09B							20-1									
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD=264			TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE * *	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN											
15	57	00.8	7 N	16	41	13.20 W	21	S	E	P	9	7	08	406.8	9738	097	7	75	81		69	015
REMARKS																						
F-97BSM-2																						
NW of MRL																						
MAX. DEPTH = 64 m																						
DATA LOCATION																						
Tape/Diskette ID												File Name/Header										
3711-5056												CTD 015										
START DOWN																						
AT DEPTH																						
AT SURFACE																						
TIMES												JD/TIME										
CDT																						
TYPE & SN 9Plus 91660																						
PRESS SN 29772																						
TEMP SN 889																						
COND SN 480																						
TEMP SN 701																						
COND SN 303																						
TRIP DEPTH																						
POS.												CTD CONVERTED MONITOR VALUES										
<input checked="" type="checkbox"/> PAR												<input checked="" type="checkbox"/> FLUOR										
<input checked="" type="checkbox"/> CHAM												<input checked="" type="checkbox"/> TRANSMISSOMETER										
<input checked="" type="checkbox"/> Cleaned air bleed valve																						
SAMPLE BOTTLE DATA												SAMPLE BOTTLE NUMBER										
PRESSURE												SALINITY										
PRI. TEMP.												SEC. TEMP.										
1 63												31.7358										
2 50												31.7618										
3 40																						
4 30																						
5 20																						
6 10																						
7 0																						
8																						
9																						
10																						
11																						
12																						

VESSEL				PROJECT & LEG				STATION DESIGNATION											
NOAA Ship MILLER FREEMAN				MF97-09B				21-1											
CONC CAST #	LATITUDE		LONGITUDE		DATE JD=2004		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO													
16	56	45.75 N	164	20.02 W	21	SEP	97	13	53	08.1	06.9	944	8	07	0	14	48	10072	016
CTD		TIMES		JD/TIME		DATA LOCATION													
TYPE & SN		9Plus 91660		DATA ON		Tape/Diskette ID File Name/Header													
PRESS SN		29772		START DOWN		SOS7-1-03.32 CTDO16													
TEMP SN		889		AT DEPTH															
COND SN		480		AT SURFACE															
TEMP SN		701																	
COND SN		303																	
MAX. DEPTH =		6.7				m													
REMARKS																			
F-97BSM-2																			
SW of MEG																			
MAX. DEPTH = 6.7 m																			
CTD CONVERTED MONITOR VALUES				TRANSMISSOMETER				Cleaned air bleed valve											
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER												
1	66				31.8213	31.8497	09												
2	50						2077												
3	40						2076												
4	30						✓												
5	20						✓												
6	10						✓												
7	0						2075												
8							2074												
9																			
10																			
11																			
12																			

[illegible]

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION																			
NOAA Ship MILLER FREEMAN		MF97-09B		24-1																			
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	MIN	BULB
19	56	23	40	N	16	52	30	6	W	21	S	E	P	97	19	05	10	00	87	119			
CTD		TIMES		JD/TIME		DATA LOCATION												REMARKS					
TYPE & SN 9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header																	
PRESS SN 29772		START DOWN		12914-14011		CTD019																	
TEMP SN 889		AT DEPTH																					
COND SN 480		AT SURFACE																					
TEMP SN 701																							
COND SN 303																		MAX. DEPTH = 82 m					
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		SAMPLE BOTTLE DATA												SAMPLE BOTTLE NUMBER					
		PAR		FLUOR		CHLAM		CLEANED AIR BLEED VALVE															
		DEPTH PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY															
1 80		80.450		2.5550		2.5551		32.0456		32.0331												35	
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

VESSEL				PROJECT & LEG				STATION DESIGNATION											
NOAA Ship MILLER FREEMAN				MF97-09B				26-28 2											
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
0121	56	02.99	N	166	19.69	W	21	02	10	8.0	7.6	845	602	33	852	120	21		
CTD				TIMES				DATA LOCATION				REMARKS							
TYPE & SN 9Plus 91660				DATA ON				Tape/Diskette ID File Name/Header				@ F-97B5M-3							
PRESS SN 29772				START DOWN				14730- CTD001											
TEMP SN 889				AT DEPTH				TO END OF TIRE											
COND SN 480				AT SURFACE															
TEMP SN 701																			
COND SN 303												MAX. DEPTH = 117 m							
CTD CONVERTED MONITOR VALUES				TRANSMISSOMETER				Cleaned air bleed valve				SAMPLE BOTTLE NUMBER							
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAL.		NUTR.		CHL.		OTHER	
1	100							32.6536		32.6383		32		2085					
2	75													2084					
3	50													2083		/			
4	40													2082		/			
5	30													2081		/			
6	20													/		/			
7	10													2080		/			
8	0													2079		/			
9																			
10																			
11																			
12																			

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION								
NOAA Ship MILLER FREEMAN		MF97-09B		22-1								
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=265	TIME (GMT)	WET BULB	DRY BULB	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
0235554.13N	16653.56W	22 SEP 97	0601	8.9	8.18	4670	1636	875	134	23		
CTD		JD/TIME		DATA LOCATION		REMARKS						
TYPE & SN 9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header						
PRESS SN 29772		START DOWN		TAPE 3		CTD023						
TEMP SN 889		AT DEPTH		2232-2914								
COND SN 480		AT SURFACE										
TEMP SN 701												
COND SN 303								MAX. DEPTH = 132 m				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		CLEANED air bleed valve		SAMPLE BOTTLE DATA				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SAL. NUTR. CHL. OTHER				
1								11				
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												

VESSEL			PROJECT & LEG			STATION DESIGNATION								
NOAA Ship MILLER FREEMAN			MF97-09B			29-1								
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
02458	46.19 N	167.09.32 W	DAY	MO	YR	HR	MIN	(°C)	(°C)	(deg)	(m/s)	* * *	(m)	24
			22	SEP	97	07	39	09.0	08.5	008	37	875	135	
CTD			TIMES			DATA LOCATION			REMARKS					
TYPE & SN 9Plus 91660			DATA ON			Tape/Diskette ID			File Name/Header					
PRESS SN 29772			START DOWN			3914-5724			CTD024					
TEMP SN 889			AT DEPTH											
COND SN 480			AT SURFACE											
TEMP SN 701														
COND SN 303									MAX. DEPTH = 132 m					
POS.			TRIP DEPTH			CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER		
									SALINITY			SAL. NUTR. CHL. OTHER		
1												23		
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

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

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA Ship MILLER FREEMAN		MF97-09B		30-1											
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
025539.15 N	16729.27 W	22 SEP 97	0931	08.8	07.8	85	66	00	4	31	875		135	25	
CTD	TIMES	JD/TIME	DATA LOCATION												
TYPE & SN 91660	DATA ON		Tape/Diskette ID File Name/Header												
PRESS SN 29772	START DOWN		57 24: 1:17:04 CTD 025												
TEMP SN 889	AT DEPTH														
COND SN 480	AT SURFACE														
TEMP SN 701			MAX. DEPTH = 129 m												
COND SN 303															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES													
1	126	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	SAL.	NUTR.	CHL.	OTHER				
2								13							
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

☒ PAR

☒ FLUOR

☒ CHIAM

☒ TRANSMISSOMETER

☒ Cleaned air bleed valve

VESSEL				PROJECT & LEG				STATION DESIGNATION														
NOAA Ship MILLER FREEMAN				MF97-09B				31-1														
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	MIN	
26	55	32.75	N	167	45.54	W	22	S	E	P	9	7	11	10	08.8	07.5	87.5	135	206			
CTD		TIMES		JD/TIME		DATA LOCATION																
TYPE & SN		9Plus 91660		DATA ON		Tape/Diskette ID File Name/Header																
PRESS SN		29772		START DOWN		1705-114612 CTD026																
TEMP SN		889		AT DEPTH																		
COND SN		480		AT SURFACE																		
TEMP SN		701																				
COND SN		303				MAX. DEPTH = 128 m																
<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHIAM <input type="checkbox"/> TRANSMISSOMETER <input checked="" type="checkbox"/> Cleaned air bleed valve				CTD CONVERTED MONITOR VALUES																		
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY DATA		SAMPLE BOTTLE NUMBER			SAL.		NUTR.		CHL.		OTHER	
1	126														17							
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						
11																						
12																						

VESSEL				PROJECT & LEG				STATION DESIGNATION															
NOAA Ship MILLER FREEMAN				MF97-09B				32-1															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(m/s)	*	*	(m)				
27	55	26.23	N	168	02.91	W	22	S	E	P	9	7	13	02	09.0	07.9	86.66	3	55	30	872	189	27
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS															
TYPE & SN		9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header															
PRESS SN		29772		START DOWN		1'46'14 - end of tape 3,		CTD 027															
TEMP SN		889		AT DEPTH		start tape 4 - 15'25																	
COND SN		480		AT SURFACE																			
TEMP SN		701																					
COND SN		303																					
MAX. DEPTH =		185		m																			
POS.		TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE DATA		SAL.		NUTR.		CHL.		OTHER			
1	500													7									
2	300																						
3	180													7		2098							
4	150															2097							
5	100															2096							
6	50															/							
7	40															2095							
8	30															/							
9	20															/							
10	10															2094							
11	0															2093							
12																							

☒ Cleaned air bleed valve

☐ TRANSMISSOMETER

☐ CHIAM

☒ FLUOR

☐ PAR

CTD CONVERTED MONITOR VALUES

VESSEL		PROJECT & LEG		STATION DESIGNATION									
NOAA Ship MILLER FREEMAN		MF97-09B		33-1									
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)			
2855	22.64 N	168.10 W	22 SEP 97	1514	09.00	341	36	872		475	33		
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS					
TYPE & SN 9Plus 91660		DATA ON				Tape/Diskette ID		File Name/Header					
PRESS SN 29772		START DOWN				1525		CTD028		ABORTED AT 91M DUE TO WEATHER.			
TEMP SN 889		AT DEPTH											
COND SN 480		AT SURFACE											
TEMP SN 701										MAX. DEPTH = 95 m			
COND SN 303													
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
1	91	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SALINITY		SAL.	NUTR.	CHL.	OTHER
2	309									15	2106		
3	200										2105		
4	140										2104		
5	100										2103		
6	50										2102		
7	40										—	✓	
8	30										2101	✓	
9	20										—	✓	
10	10										2100	✓	
11	5										2099	✓	
12													

VESSEL				PROJECT & LEG				STATION DESIGNATION											
NOAA Ship MILLER FREEMAN				MF97-09B				34-1											
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	
029	54	00.28 N	168	01.73 W	25	SEP	0139	8.8	6.1	975	5	7	280	18	48	1	1700	29	
CTD				TIMES				JD/TIME				DATA LOCATION				REMARKS			
TYPE & SN 9Plus 91660				DATA ON				Tape/Diskette ID				File Name/Header				10 m/min			
PRESS SN 29772				START DOWN				Tape 4				0000-2619				NO CTD observation			
TEMP SN 889				AT DEPTH												See Bessel's log			
COND SN 480				AT SURFACE												MAX. DEPTH = 123 m			
TEMP SN 701																			
COND SN 303																			
POS.	TRIP DEPTH	DEPTH PRESSURE		PRI. TEMP.	SEC. TEMP.	SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.	CHL.	OTHER			
1	200	200.629	4.8455	4.8444	33.2750							10							
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

[illegible]

VESSEL				PROJECT & LEG				STATION DESIGNATION																		
NOAA Ship MILLER FREEMAN				MF97-09B				38-1																		
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	MIN					
32	54	19.09	N	164	45.84	W	25	SEP	97	23	06	8.0	6.09	8.48	270	22	68	1	72	32						
CTD				TIMES				JD/TIME				DATA LOCATION				REMARKS										
TYPE & SN 9Plus 91660				DATA ON				Tape/Diskette ID				File Name/Header														
PRESS SN 29772				START DOWN				4305-5228				CTD032														
TEMP SN 889				AT DEPTH																						
COND SN 480				AT SURFACE												UNIMAX PASS										
TEMP SN 701																F-96UR-3										
COND SN 303																MAX. DEPTH = 603 m										
CTD CONVERTED MONITOR VALUES				FLUOR				CHIAM				TRANSMISSOMETER				Cleaned air bleed valve										
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER				SAL.				NUTR.				CHL.				OTHER			
1															26											
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

VESSEL						PROJECT & LEG				STATION DESIGNATION																	
NOAA Ship MILLER FREEMAN						MF97-09B				40-1																	
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	N	DEG	MIN	E	DAY	MO	YR	HR	MIN																
0335420.38	16	52	5.26	16	52	5.26	SEP	97	06	53	07	05	59	84	72	55	14	48			148	33					
CTD		TIMES			JD/TIME			DATA LOCATION															REMARKS				
TYPE & SN		9Plus 91660						Tape/Diskette ID			File Name/Header																
PRESS SN		29772						5228-11028			CTD033																
TEMP SN		889																									
COND SN		480																									
TEMP SN		701																								MAX. DEPTH = 146 m	
COND SN		303																									
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES																							
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA														SAMPLE BOTTLE NUMBER							
1																											
2																											
3																											
4																											
5																											
6																											
7																											
8																											
9																											
10																											
11																											
12																											

VESSEL		PROJECT & LEG				STATION DESIGNATION															
NOAA Ship MILLER FREEMAN		MF97-09B				41-1															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(m/s)	*	*	(m)			
034	54	22.52	N	165	16.88	W	26	S	E	P	97	07	55	07	00	51	59	94	168	34	
CTD		TIMES		JD/TIME		DATA LOCATION															
TYPE & SN		9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header													
PRESS SN		29772		START DOWN		11028-13144		CTD024													
TEMP SN		889		AT DEPTH																	
COND SN		480		AT SURFACE																	
TEMP SN		701																			
COND SN		303																			
MAX. DEPTH =		162				m															
REMARKS																					
Cleaned air bleed valve																					
SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER																			
SALINITY		SAL. NUTR. CHL. OTHER																			
1		4																			
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

VESSEL		PROJECT & LEG				STATION DESIGNATION																		
NOAA Ship MILLER FREEMAN		MF97-09B				42-1																		
CONSCAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID				
35	54	25.4	6	N	165	08.8	1	W	26	S	E	P	9	7	08	54	07.3	06.0	974	7245	16	581	135	35
CTD		TIMES		JD/TIME		DATA LOCATION																		
TYPE & SN		9Plus 91660		DATA ON		Tape/Diskette ID File Name/Header																		
PRESS SN		29772		START DOWN		13144-14842 CTD035																		
TEMP SN		889		AT DEPTH																				
COND SN		480		AT SURFACE																				
TEMP SN		701																						
COND SN		303				MAX. DEPTH = 123 m																		
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTR.		CHL.		OTHER		
1	125															22								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

Cleaned air bleed valve



TRANSMISSOMETER



CHIAM



FLUOR



PAR



CTD CONVERTED MONITOR VALUES

VESSEL		PROJECT & LEG		STATION DESIGNATION																
NOAA Ship MILLER FREEMAN		MF97-09B		43-1																
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG MIN	DEG MIN	DEG MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	*	*	(m)		
36	54 26.98 N	165 59.62 W	246	S	E	P	09	55	07.3	05.2	99.4	4	2	6	2	1	3	58	10050	36
CTD		TIMES		JD/TIME		DATA LOCATION														
TYPE & SN 9Plus 91660		DATA ON				Tape/Diskette ID		File Name/Header								REMARKS				
PRESS SN 29772		START DOWN				14842-end of		CTD036												
TEMP SN 889		AT DEPTH				tape														
COND SN 480		AT SURFACE														MAX. DEPTH = 46 m				
TEMP SN 701																				
COND SN 303																				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		PAR		FLUOR		CHIAM		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY									SALINITY		SAL.	NUTR.	CHL.	OTHER	
1	44															71				
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				

[illegible]

VESSEL						PROJECT & LEG								STATION DESIGNATION																				
NOAA Ship MILLER FREEMAN						MF97-09B								45-1'																				
CONSC CAST #		LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID									
		DEG	MIN	N	DEG	MIN	E	DAY	MO	YR	HR	MIN																						
38	54	49	.75	N	16	45	33	W	26	S	E	P	9	7	05	05	9	04	8	99	4	7	2	8	5	14	4	8	1	0	0	7	5	38
CTD			TIMES			JD/TIME			DATA LOCATION																REMARKS									
			TYPE & SN			9Plus 91660			DATA ON _____			Tape/Diskette ID			File Name/Header																			
			PRESS SN			29772			START DOWN _____			0124 - 1106			CTD 038																			
			TEMP SN			889			AT DEPTH _____																									
			COND SN			480			AT SURFACE _____																									
			TEMP SN			701																												
			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											SALINITY			SAL.	NUTR.	CHL.	OTHER											
1	70																			35														
2																																		
3																																		
4																																		
5																																		
6																																		
7																																		
8																																		
9																																		
10																																		
11																																		
12																																		

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION							
NOAA Ship MILLER FREEMAN		MF97-09B		47-1							
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)	
405503.12N	16505.94W	26 SEP 97	1550	07.5	05.8	231	21	48	1011	40	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS			
TYPE & SN 9Plus 91660		DATA ON		Tape/Diskette ID		File Name/Header					
PRESS SN 29772		START DOWN		2134-3428		CTD 040					
TEMP SN 889		AT DEPTH									
COND SN 480		AT SURFACE									
TEMP SN 701								MAX. DEPTH = 102 m			
COND SN 303											
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE NUMBER			
		PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAL. NUTR. CHL. OTHER	
1 100								13			
2											
3											
4											
5											
6											
7											
8											
9											
10											
11											
12											

VESSEL		PROJECT & LEG		STATION DESIGNATION												
NOAA Ship MILLER FREEMAN		MF97-09B		48-1												
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
41	54 59.37 N	165 17.20 W	26 SEP 97	1653	07.8	06.0	098.4	7	200	19	4	8	7	115	41	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS								
TYPE & SN 9PWS 91660		DATA ON				Tape/Diskette ID		File Name/Header								
PRESS SN 29772		START DOWN				3428-4750		CTD041								
TEMP SN 889		AT DEPTH														
COND SN 480		AT SURFACE														
TEMP/SN 701/303																
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
1	105	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY	SALINITY
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA Ship MILLER FREEMAN		MF97-09B		49-1											
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
42	54 55.78 N	165 28.64 W	26 SEP 97	1759	06.9	05.5	994	7	23	8	12	68	1	124	42
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS							
TYPE & SN 9 PLUS 91660		DATA ON				Tape/Diskette ID		File Name/Header							
PRESS SN 29772		START DOWN				4750-10247		CTD042							
TEMP SN 889		AT DEPTH													
COND SN 480		AT SURFACE													
TEMP/SN 701/303															
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
1	115	PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY			SALINITY		SAL		NUTRIENT	OTHER		
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA Ship MILLER FREEMAN		MF97-09B		50-1											
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
43	5452.28N	16540.06W	26 SEP 97	1911	07.8	06.1	994	7	256	21	781			141	43
CTD		TIMES		JD/TIME		DATA LOCATION									
TYPE & SN 9 PLUS 91660		DATA ON		Tape/Diskette ID		File Name/Header									
PRESS SN 29772		START DOWN		10247-11950		CTD043									
TEMP SN 889		AT DEPTH													
COND SN 480		AT SURFACE													
TEMP/SN ^{COND} 701/303						MAX. DEPTH = 138 m									
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve									
		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SAMPLE BOTTLE DATA									
1	135					SALINITY									
2						SAL.									
3						NUTRIENT									
4						OTHER									
5															
6															
7															
8															
9															
10															
11															
12															

VESSEL NOAA Ship MILLER FREEMAN		PROJECT & LEG MF97-09B		STATION DESIGNATION																										
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		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)												
44	54	48.59	N	16	55	11	49	W	26	S	E	P	9	7	20	21	7.0	5.4	994	7	20	6	15	6	8	1	15	6	6	44
CTD		TIMES		JD/TIME		DATA LOCATION										REMARKS														
TYPE & SN 9915 91660		DATA ON				Tape/Diskette ID		File Name/Header																						
PRESS SN 29772		START DOWN				11950-		CTD044																						
TEMP SN 889		AT DEPTH																												
COND SN 480		AT SURFACE																MAX. DEPTH = 164 m												
TEMP/SN 701/303																														
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP.		SEC. TEMP.		SALINITY		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAL.		NUTRIENT		OTHER												
1														8																
2																														
3																														
4																														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

VESSEL		PROJECT & LEG		STATION DESIGNATION										
NOAA Ship MILLER FREEMAN		MF97-09B												
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID
045	54 44.93 N	166 01.42 W	26 SEP 97	21 28	5.9	4.8	0047	2	18	19	68	1	225	45
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS						
TYPE & SN 91160		DATA ON				Tape/Diskette ID		File Name/Header						
PRESS SN 29772		START DOWN				-15618		CTD045						
TEMP SN 889		AT DEPTH												
COND SN 480		AT SURFACE												
TEMP/SN 701/303														
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY						SAL.	NUTRIENT	OTHER
2												14		
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														

VESSEL		PROJECT & LEG		STATION DESIGNATION													
NOAA Ship MILLER FREEMAN		MF97-09B															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=	TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	WIND DIRN.	WIND SPD.	CLOUD (amt)	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
04654	41.24	166.14	18W	26S	972252	7.1	5.9	004	7226	19	681	292	046				
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS									
TYPE & SN 911660		DATA ON		Tape/Diskette ID		File Name/Header											
PRESS SN 29772		START DOWN		15618-2060		CTD046											
TEMP SN 889		AT DEPTH		Tape													
COND SN 480		AT SURFACE															
TEMP/SN 701/303																	
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER							
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SALINITY	SAL.	NUTRIENT	OTHER							
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

VESSEL		PROJECT & LEG		STATION DESIGNATION													
NOAA Ship MILLER FREEMAN		MF97-09B															
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
0475434.41	16607.41	16607.41	W27SEP97	0010	7.6	5.5	0.04	4220	20	68	1	425	47				
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS									
TYPE & SN 9160		DATA ON		Tape/Diskette ID		File Name/Header											
PRESS SN 29772		START DOWN				C1D017											
TEMP SN 889		AT DEPTH															
COND SN 480		AT SURFACE															
TEMP/SN 301/303																	
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		TRANSMISSOMETER		Cleaned air bleed valve		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER							
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY	SALINITY	SAL.	NUTRIENT	OTHER								
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

VESSEL		PROJECT & LEG		STATION DESIGNATION																					
NOAA Ship MILLER FREEMAN		MF97-09B																							
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD. (m/s)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID							
	DEG	MIN	DEG	MIN	DAY	MO													YR	HR	MIN				
048	54	28.24	N	106	02.41	W	27	S	E	P	97	01	34	8.0	5.7	004	7	24	5	23	6	81	520	4	48
CTD		TIMES		JD/TIME		DATA LOCATION														REMARKS					
TYPE & SN 98WS 91660		DATA ON				Tape/Diskette ID		File Name/Header																	
PRESS SN 29772		START DOWN				no Tape																			
TEMP SN 889		AT DEPTH																							
COND SN 480		AT SURFACE																							
TEMP/SN 701/303																				MAX DEPTH = 540 m					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES																		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
1		PRESSURE	PRI. TEMP.	SEC. TEMP.	SALINITY														SALINITY		SAL.	NUTRIENT	OTHER		
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

VESSEL			PROJECT & LEG			STATION DESIGNATION														
NOAA Ship MILLER FREEMAN			MF97-09B																	
CONSCAST #	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (m/s)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	*	(m)		
049	16	55.6	55	11	16	55	11	03	02	8.0	5.7	014	7	24	0	6	8	1	462	049
<div>CTD</div> <div> <div>TYPE & SN 9Plus 91660</div> <div>PRESS SN 29772</div> <div>TEMP SN 889</div> <div>COND SN 480</div> <div>TEMP SN 701</div> <div>COND SN 303</div> </div> <div> <div>TIMES</div> <div>DATA ON</div> <div>START DOWN</div> <div>AT DEPTH</div> <div>AT SURFACE</div> </div> <div> <div>JD/TIME</div> <div>DATE</div> <div>TIME</div> <div>FILE NAME/HEADER</div> </div>																				
<div> <div>PAR</div> <div>FLUOR</div> <div>CHIAM</div> <div>TRANSMISSOMETER</div> <div>Cleaned air bleed valve</div> </div>																				
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												21								
2																				
3																				
4																				
5																				
6																				
7																				
8																				
9																				
10																				
11																				
12																				