

[illegible]

VESSEL		NOAA Ship MILLER FREEMAN				PROJECT & LEG		MF-0507		COD I.D.		STATION DESIGNATION				UNIMAK E																					
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		GMT		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND		DIRECTION		WIND SPEED		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STATION NAME / ID	
00354124		91220a		16509.29510		MAY 05 085806.3		51022		mb		deg		kn'ts		158		ct		003																	
SBE 9+		91220a		TIMES		DATA LOCATION		REMARKS																													
PRESS SN		91220A		DATA ON		Tape/Diskette ID		File Name/Header																													
PRI TEMP SN		710		START DOWN																																	
SEC TEMP SN		884		AT DEPTH																																	
PRI COND SN		915		AT SURFACE																																	
SEC COND SN		304		PAR SN= 4242		FLUOR SN= 679																															

[illegible]

NOAA Ship MILLER FREEMAN

MF-0507

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CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY		WET		PRESSURE		SEA STATE		VISIBILITY		WIND		DIRECTION		WIND SPEED		CLOUD (amt)		TYPE		WEATHER		BOTTOM		STATION	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	BULB	°C	BULB	°C	mb				deg	knts									DEPTH	NAME / ID					
SBE 9+		91220a																																	
PRESS SN		91220A																																	
PRI TEMP SN		710																																	
SEC TEMP SN		884																																	
PRI COND SN		915																																	
SEC COND SN		530																																	

NOAA Ship MILLER FREEMAN

MF-0507

A7[illegible]

	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb	deg	knts								
006	55	10.	16	11	16	4	32.	16	3	10	MAY	05	16	54	6.4	55	03	064	21	102	C + D	06

	TIMES	DATA LOCATION		REMARKS
SBE 9+	91220a			
PRESS SN	91220A	Tape/Diskette ID	File Name/Header	
PRI TEMP SN	710		<u>CTD C06</u>	
SEC TEMP SN	884			
PRI COND SN	915			
SEC COND SN	530			
		AT SURFACE		
		FLUOR S/N=	678	
		PAR S/N=	4242	
				<input checked="" type="checkbox"/> Cleaned air bleed valve
		MAX. DEPTH (m)	95.3	
		CHLAM S/N=		

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER
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[illegible]

CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY		WET		PRESSURE		SEA STATE		VISIBILITY		WIND		DIRECTION		WIND SPEED		CLOUD (amt)		TYPE		WEATHER		BOTTOM		STATION	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	BULB	°C	BULB	°C	mb					deg	knts									DEPTH	NAME / ID				
00755		17	078	164	19	10	MAY	05	12	34	6.5		5.0	05						033	7.8										96	CTD 07			
SBE 9+		91220a		TIMES		DATA LOCATION																													
PRESS SN		91220A		DATA ON		Tape/Diskette ID		File Name/Header																											
PRI TEMP SN		710		START DOWN																															
SEC TEMP SN		884		AT DEPTH																															
PRI COND SN		915		AT SURFACE																															
SEC COND SN		530		PAR SN= 4242		FLUOR SN= 678																													

[illegible]

VESSEL						PROJECT & LEG						COD I.D.						STATION DESIGNATION																			
NOAA Ship MILLER FREEMAN																		MF-0507						ALH													
CONSECUTIVE CAST #		LATITUDE				LONGITUDE				DATE				TIME		DRY BULB °C		WET BULB °C		PRESSURE mb		SEA STATE		VISIBILITY		WIND deg		DIRECTION knts		CLOUD (amt)		TYPE WEATHER		BOTTOM DEPTH		STATION NAME / ID	
095518.301	16320.260111	MAY	05	04	54	07.5	06.2	49	094	20	5	0048	C	T	D	0	0	1																			
SBE 9+ 91220a DATA ON TIMES DATA LOCATION																		REMARKS																			
PRESS SN 91220A Tape/Diskette ID File Name/Header CTD009																																					
PRI TEMP SN 710 START DOWN																																					
SEC TEMP SN 884 AT DEPTH																																					
PRI COND SN 915 AT SURFACE																																					
SEC COND SN 530 PAR SN= 4742 FLUOR SN= 672																																					
CTD CONVERTED MONITOR VALUES																																					
POSITION																		SAMPLE BOTTLE NUMBER																			
TRIP DEPTH PRESSURE PRIMARY TEMP SECONDARY TEMP SALINITY																		DATA																			
1																																					
2																																					
3																																					
4																																					
5																																					
6																																					
7																																					
8																																					
9																																					
10																																					
11																																					
12																																					

VESSEL		NOAA Ship MILLER FREEMAN										PROJECT & LEG		MF-0507		COD I.D.		STATION DESIGNATION																	
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY		WET		PRESSURE		SEA STATE		VISIBILITY		WIND		DIRECTION		WIND SPEED		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STATION NAME / ID	
0105545.8562		16246.75311		MAY 05 12 19		06.5 06.2 60		021 3		0059		CTD 10																							
SBE 9+		91220a		TIMES		DATA LOCATION																													
PRESS SN		91220A		DATA ON		Tape/Diskette ID		File Name/Header																											
PRI TEMP SN		710		START DOWN				CTD 010																											
SEC TEMP SN		884		AT DEPTH																															
PRI COND SN		915		AT SURFACE																															
SEC COND SN		530		PAR/S/N=		4242		FLUOR S/N=		678																									
POSITION		TRIP DEPTH		PRESSURE		PRIMARY TEMP		SECONDARY TEMP		SALINITY		SALINITY		SAL		NUTR		CHL		WHITS															
1																																			
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

CTD CONVERTED MONITOR VALUES

☒ Cleaned air bleed valve

MAX. DEPTH (m) 55

CHLAM S/N=

SAMPLE BOTTLE NUMBER

SAMPLE BOTTLE DATA

AE7

REMARKS

VESSEL	PROJECT & LEG	COD I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-0507		A67
CONSECUTIVE CAST #	LATITUDE	LONGITUDE	DATE
DEG MIN	DEG MIN	DAY MO YR	TIME GMT
DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE VISIBILITY WIND deg
DIRECTION	WIND SPEED knts	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH STATION NAME / ID
SBE 9+ PRESS SN 91220A	PRI TEMP SN 710	SEC TEMP SN 884	PRI COND SN 915
SEC COND SN 530	DATA ON START DOWN AT SURFACE	PAR SN= 4242	FLUOR SN= 678
CTD CONVERTED MONITOR VALUES	MAX. DEPTH (m)	CHLAM S/N=	
POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP SECONDARY TEMP SALINITY
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

[illegible]

[illegible]

ON DESIGN

	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb	deg	knts	
015	56	36.17	41	59	59	12 MAY	05	07	11	08.6	6.9	13	057	11	004 OCT 015

CTD CONVERTED MONITOR VALUES[illegible]

NOAA Ship MILLER FREEMAN

PROJECT & LEG
MF-0507COD I.D.

STATION DESIGNATION	B13
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CONSECUTIVE CAST #	LATITUDE	LONGITUDE	DATE	TIME GMT	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND	DIRECTION	WIND SPEED	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
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	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb	deg	knts				
01	85	72	4	09	61	3	MAY	05	10	18	05	60	4	27	9	116	ZD	0050 (+018

	TIMES	DATA LOCATION		REMARKS
SBE 9+	91220a			
PRESS SN	91220A	Data ON _____	Tape/Diskette ID _____ File Name/Header _____	
PRI TEMP SN	710	START DOWN _____		
SEC TEMP SN	884	AT DEPTH _____	E2D018	
PRI COND SN	915	AT SURFACE _____		
SEC COND SN	530	PAR S/N= 4242	FLUOR S/N= 678	<input checked="" type="checkbox"/> Cleaned air bleed valve MAX. DEPTH (m) 44.5
			CHLAM S/N=	

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE	DATA

[illegible]

[illegible]

$$\frac{A}{w}$$

NOAA Ship MILLER FREEMAN

MF-0507

VID

[illegible]

VESSEL		PROJECT & LEG		COD I.D.		STATION DESIGNATION	
NOAA Ship MILLER FREEMAN		MF-0507				Q13 X40	
CONSECUTIVE CAST #	LATITUDE	LONGITUDE	DATE	TIME	DRY BULB	WET BULB	PRESSURE
2257	01.067	161.26.771	14 MAY 05	1159	06.0	07.0	16
SBE 9+	91220a	TIMES	DATA LOCATION				
PRESS SN	91220A	DATA ON	Tape/Diskette ID File Name/Header				
PRI TEMP SN	710	START DOWN	CTD022				
SEC TEMP SN	884	AT DEPTH					
PRI COND SN	915	AT SURFACE					
SEC COND SN	530	PAR SN= 4242	FLUOR SN= 678	<input checked="" type="checkbox"/> Cleaned air bleed valve			
CTD CONVERTED MONITOR VALUES			CHLAM SN=	MAX DEPTH (m)	65		
POSITION			SAMPLE BOTTLE		SAMPLE BOTTLE NUMBER		
TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
			DATA		REMARKS		
					007ZC1122		

Q
O

	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb	deg	knts						
0235635.56716100.18519					MAY	05	17	10		4.6	6.0	93	042	7				70	C	P23

CTD CONVERTED MONITOR VALUES[illegible][illegible]

[illegible]

W13

	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	°C	°C	mb		deg	knts																															
0	2	5	5	6	4	7	1	6	2	1	4	3	4	9	1	5	M	A	Y	0	5	0	2	3	3	2	0	7	1	5	7	1	8	5	5	3	3	4	9	6	0	7	0	C	T	D	Z	5

CTD CONVERTED MONITOR VALUES[illegible]

[illegible]

STATION DESIGNATION	W7
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	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb	deg	knts									
027	56	37	35	01	61	45	39	11	15	MAY	05	09	11	06	8	08	079	277	6		0652	45	227

CTD CONVERTED MONITOR VALUES

POSITION										
	TRIP									
DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY		SAMPLE BOTTLE				
						DATA				
							SAL	NUTR	CHL	WHIT'S NUTR

[illegible]

CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME GMT	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND deg	DIRECTION kn'ts	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH	STATION NAME / ID
02485600		44.8161		58.2341		15 MAY 05		1126	06.4	07.0	86			268	7			0056	CT928
REMARKS																			
SBE 9+ 91220a DATA LOCATION																			
PRESS SN 91220A		DATA ON		Tape/Diskette ID		File Name/Header													
PRI TEMP SN 710		START DOWN																	
SEC TEMP SN 884		AT DEPTH																	
PRI COND SN 915		AT SURFACE																	
SEC COND SN 530		PAR SN= 4742		FLUOR SN= 678															
CTD CONVERTED MONITOR VALUES																			
POSITION										SAMPLE BOTTLE NUMBER									
TRIP DEPTH PRESSURE PRIMARY TEMP SECONDARY TEMP SALINITY										DATA									
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

VESSEL			PROJECT & LEG			COD I.D.			STATION DESIGNATION																										
NOAA Ship MILLER FREEMAN			MF-0507						AC7																										
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY		WET		PRESSURE		SEA STATE		VISIBILITY		WIND		DIRECTION		WIND SPEED		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STATION NAME / ID	
024		55 52.728		162 23.333		15 MAY 05		21 50		75		78		59		9		030		2.6												62 CTD 24			
SBE 9+		91220a		TIMES		DATA LOCATION																													
PRESS SN		91220A		DATA ON		Tape/Diskette ID		File Name/Header																											
PRI TEMP SN		710		START DOWN				CTD 029																											
SEC TEMP SN		884		AT DEPTH																															
PRI COND SN		915		AT SURFACE																															
SEC COND SN		530		PAR SN= 4242		FLUOR SN=																													
POSITION		TRIP		DEPTH		PRESSURE		PRIMARY TEMP		SECONDARY TEMP		SALINITY		SALINITY		SALINITY		SAL		NUTR		CHL		WHIT'S											
1																																			
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

CTD CONVERTED MONITOR VALUES

x Cleaned air bleed valve

MAX. DEPTH (m) 56.7

CHLAM SN=

REMARKS

[illegible]

[illegible]

VESSEL		PROJECT & LEG		COD I.D.		STATION DESIGNATION	
NOAA Ship MILLER FREEMAN		MF-0507				A08 #73	
CONSECUTIVE CAST #	LATITUDE		LONGITUDE		DATE	TIME	DRY BULB
0325535.2411	91220a		16406.844117		MAY 05 11 09	05.19	05.15
DEG MIN	DEG MIN	DAY	MO	YR	HR	MIN	°C
91220a	91220a	17	MAY	05	11	09	05.15
PRESS SN	DATA ON		Tape/Diskette ID		File Name/Header		
PRI TEMP SN	START DOWN				CTD052		
SEC TEMP SN	AT DEPTH						
PRI COND SN	AT SURFACE						
SEC COND SN	PAR S/N= 4242		X FLUOR S/N= 678		X Cleaned air bleed valve		
CTD CONVERTED MONITOR VALUES		MAX DEPTH (m)		CHLAM S/N=		92m	
POSITION		TRIP		SAMPLE BOTTLE		SAMPLE BOTTLE NUMBER	
DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

[illegible]

VESSEL		PROJECT & LEG		COD I.D.		STATION DESIGNATION	
NOAA Ship MILLER FREEMAN		MF-0507				AOP # 75	
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		TIME	
DEG MIN		DEG MIN		DAY MO YR		GMT	
SBE 9+ 91220a		91220a		MAY 05		120505.9	
PRESS SN 91220A		710		DATA ON		Tape/Diskette ID	
PRI TEMP SN 884		884		START DOWN		File Name/Header	
SEC TEMP SN 915		915		AT DEPTH		CTD 034	
SEC COND SN 530		530		AT SURFACE			
PAR SN= 4242		FLUOR SN= 678		MAX DEPTH (m)		92	
CTD CONVERTED MONITOR VALUES		CHLAM SN=		CLEANED air bleed valve			
POSITION		TRIP DEPTH		PRESSURE		PRIMARY TEMP	
		SECONDARY TEMP		SALINITY		SALINITY	
		SAL		NUTR		CHL	
		WHIT'S		NUTR			
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

VESSEL

NOAA Ship MILLER FREEMAN

PROJECT & LEG

MF-0507

COD I.D.

STATION DESIGNATION

76

CONSECUTIVE
CAST #

LATITUDE

LONGITUDE

DATE

TIME

DRY

WET

PRESSURE

SEA STATE

VISIBILITY

WIND

DIRECTION

WIND SPEED

CLOUD (amt)

TYPE

WEATHER

BOTTOM

DEPTH

STATION

NAME / ID

DEG

MIN

DEG

MIN

DAY

MO

YR

HR

MIN

°C

°C

mb

deg

knts

deg

knts

deg

knts

SBE 9+

91220a

DATA ON

TIMES

Tape/Diskette ID

File Name/Header

DATA LOCATION

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

PRESS SN

91220A

DATA ON

TIMES

Tape/Diskette ID

File Name/Header

DATA LOCATION

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

PRI TEMP SN

710

DATA ON

TIMES

Tape/Diskette ID

File Name/Header

DATA LOCATION

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

SEC TEMP SN

884

DATA ON

TIMES

Tape/Diskette ID

File Name/Header

DATA LOCATION

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

PRI COND SN

915

DATA ON

TIMES

Tape/Diskette ID

File Name/Header

DATA LOCATION

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

SEC COND SN

530

DATA ON

TIMES

Tape/Diskette ID

File Name/Header

DATA LOCATION

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

110035

CTD CONVERTED MONITOR VALUES

SAMPLE
BOTTLE

SAMPLE BOTTLE NUMBER

DATA

POSITION

TRIP
DEPTH

PRESSURE

PRIMARY TEMP

SECONDARY TEMP

SALINITY

SALINITY

SAL

NUTR

CHL

WHITS
NUTR

1

2

3

4

5

6

7

8

9

10

11

12

VESSEL

NOAA Ship MILLER FREEMAN

PROJECT & LEG

MF-0507

COD I.D.

STATION DESIGNATION

A0F #77

PG 1 OF 1

CONSECUTIVE
CAST #

LATITUDE

LONGITUDE

DATE

TIME

DRY

WET

PRESSURE

SEA STATE

VISIBILITY

WIND

DIRECTION

WIND SPEED

CLOUD (amt)

TYPE

WEATHER

BOTTOM

DEPTH

STATION

NAME / ID

DEG

MIN

DEG

MIN

DAY

MO

YR

HR

MIN

°C

°C

mb

deg

kn'ts

002

15

6092

CTD36

REMARKS

SBE 9+

PRESS SN

PRI TEMP SN

SEC TEMP SN

PRI COND SN

SEC COND SN

91220a

91220A

710

884

915

530

DATA ON

START DOWN

AT DEPTH

AT SURFACE

Tape/Diskette ID

File Name/Header

CTD036

X Cleaned air bleed valve

MAX DEPTH (m)

CHLAM S/N=

89

CTD CONVERTED MONITOR VALUES

SAMPLER BOTTLE

SAMPLER BOTTLE NUMBER

DATA

SALINITY

SAL

NUTR

CHL

WHITS

NUTR

POSITION

TRIP

DEPTH

PRESSURE

PRIMARY TEMP

SECONDARY TEMP

SALINITY

SALINITY

SAL

NUTR

CHL

WHITS

NUTR

1

2

3

4

5

6

7

8

9

10

11

12

#78

	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb	deg	knts	
O 379524.25416326.57117 MAY 05								1328	5.8	50.96			35015		0088 T D 37

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE NUMBER

[illegible]

NOAA Ship MILLER FREEMAN

MF-0507

COD I.D.

STATION DESIGNATION

Att # 20

[illegible]

VESSEL

NOAA Ship MILLER FREEMAN

PROJECT & LEG

MF-0507

COD I.D.

STATION DESIGNATION

#80

PG OF

CONSECUTIVE CAST #	LATITUDE		LONGITUDE		DATE		TIME		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND	DIRECTION	WIND SPEED	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
0395519.869	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb		deg	knts					67	CTD039
REMARKS																					
SBE 9+ 91220a DATA ON TIMES DATA LOCATION																					
PRESS SN 91220A START DOWN AT DEPTH CTD039																					
PRI TEMP SN 710																					
SEC TEMP SN 884																					
PRI COND SN 915																					
SEC COND SN 530																					
PAR S/N= 4242 FLUOR S/N= 678																					
CTD CONVERTED MONITOR VALUES																					
X Cleaned air bleed valve																					
MAX. DEPTH (m) 62.5																					
CHLAM S/N=																					
SAMPLE BOTTLE DATA																					
SAMPLE BOTTLE NUMBER																					
POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY		SALINITY		SAL	NUTR	CHL	WHIT'S									
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY		WET		PRESSURE		SEA STATE		VISIBILITY		WIND		DIRECTION		WIND SPEED		CLOUD (amt)		TYPE		WEATHER		BOTTOM		STATION	
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	BULB	°C	BULB	°C	mb				deg	knts								DEPTH	NAME / ID						
040		55	17	74	16	34	18	66	17	MAY	05	14	56	5.5	4.8	05			34	7	17														
SBE 9+		91220a		TIMES		DATA LOCATION		Tape/Diskette ID		File Name/Header																									
PRESS SN		91220A																																	
PRI TEMP SN		710																																	
SEC TEMP SN		884																																	
PRI COND SN		915																																	
SEC COND SN		530																																	

VESSEL						PROJECT & LEG				COD I.D.		STATION DESIGNATION																	
NOAA Ship MILLER FREEMAN						MF-0507						#82 70K																	
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY BULB °C		WET BULB °C		PRESSURE mb		SEA STATE		VISIBILITY deg		DIRECTION knts		WIND SPEED knts		CLOUD (amt) TYPE WEATHER		BOTTOM DEPTH		STATION NAME / ID	
041		55 15.591		163 47.731		MAY 05 1522		6.1		4.8		05		347		16										59		CTD 041	
SBE 9+		91220a		TIMES		DATA LOCATION																							
PRESS SN		91220A		DATA ON		Tape/Diskette ID		File Name/Header																					
PRI TEMP SN		710		START DOWN																									
SEC TEMP SN		884		AT DEPTH																									
PRI COND SN		915		AT SURFACE																									
SEC COND SN		530		PAR SN= 4742		X FLUOR SN= 678																							

40L #83

VESSEL						PROJECT & LEG							DSD8 I.D.		STATION DESIGNATION																
NOAA Ship MILLER FREEMAN						MF-05-06									A04 #284																
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRECTION		WIND SPEED		CLOUD (amt)		TYPE		WEATHER		BOTTOM STATION	
04355		11.311		16343.696		17 05 05		16 20		5.4		4.2		26		35		16												45CTD43	
SBE 9+		91220A		TIMES		DATA LOCATION																									
PRESS SN		1220A		DATA ON		Tape/Diskette ID		File Name/Header																							
PRI TEMP SN		710		START DOWN																											
SEC TEMP SN		884		AT DEPTH																											
PRI COND SN		915		AT SURFACE																											
SEC COND SN		530		PAR SN=		4 2 4 2		FLUOR SN=		6 7 8																					

STATION DESIGNATION
AX4 #85

[illegible]

[illegible]

VESSEL						PROJECT & LEG							COD I.D.		STATION DESIGNATION																		
NOAA Ship MILLER FREEMAN						MF-0507									AXD #88																		
CONSECUTIVE CAST #		LATITUDE			LONGITUDE			DATE		TIME GMT		DRY BULB °C		WET BULB °C		PRESSURE mb		SEA STATE		VISIBILITY deg		DIRECTION knts		WIND SPEED knts		CLOUD (amt) TYPE		WEATHER		BOTTOM DEPTH		STATION NAME / ID	
0475456		32916459			45717			MAY 05 2327		25		21.009		336		14														92CTD47			
SBE 9+		91220a			TIMES			DATA LOCATION		File Name/Header																							
PRESS SN		91220A						Tape/Diskette ID																									
PRI TEMP SN		710																															
SEC TEMP SN		884																															
PRI COND SN		915																															
SEC COND SN		530																															
		PAR S/N= 4242						FLUOR S/N= 678																									

VESSEL				PROJECT & LEG				COD I.D.				STATION DESIGNATION																							
NOAA Ship MILLER FREEMAN				MF-0507								AX-3 #89																							
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND		DIRECTION		WIND SPEED		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STATION NAME / ID	
0485458		48.486		16501.40817		MAY 05 2359		20		1.209		34.0		17																		102CTDY8			
SBE 9+		91220a		TIMES		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS																							
PRESS SN		91220A		DATA ON																															
PRI TEMP SN		710		START DOWN																															
SEC TEMP SN		884		AT DEPTH																															
PRI COND SN		915		AT SURFACE																															
SEC COND SN		530		PAR SN= 4242		FLUOR SN= 678																													

受 刑 中

交 7 月 10 日

VESSEL						PROJECT & LEG						COD I.D.						STATION DESIGNATION													
NOAA Ship MILLER FREEMAN						MF-0507												AXH #92													
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRECTION		WIND SPEED		CLOUD (amt) TYPE		WEATHER		BOTTOM DEPTH		STATION NAME / ID	
0515505001		30.01		16507.455		18 MAY 05		0203		21.8		11.2		10 mb		332		18 deg		kt's								113cTDB1			
REMARKS																															
SBE 9+ 91220a DATA ON TIMES DATA LOCATION PRESS SN 91220A START DOWN Tape/Diskette ID File Name/Header PRI TEMP SN 710 AT DEPTH CTD051 SEC TEMP SN 884 AT SURFACE PRI COND SN 915 PAR S/N= 4242 FLUOR S/N= 678 SEC COND SN 530 CHLAM S/N= MAX DEPTH (m) 106 <input checked="" type="checkbox"/> Cleaned air bleed valve																															
CTD CONVERTED MONITOR VALUES																															
SAMPLE BOTTLE NUMBER																															
DATA																															
SAMPLE BOTTLE																															
SALINITY																															
SAL																															
NUTR																															
CHL																															
WHIT'S NUTR																															
POSITION																															
TRIP																															
DEPTH																															
PRESSURE																															
PRIMARY TEMP																															
SECONDARY TEMP																															
SALINITY																															
SAL																															
NUTR																															
CHL																															
WHIT'S																															
1																															
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

VESSEL

NOAA Ship MILLER FREEMAN

PROJECT & LEG

MF-0507

COD I.D.

STATION DESIGNATION

AXI #93

Pg 1 OF 1

CONSECUTIVE
CAST #

LATITUDE

LONGITUDE

DATE

TIME

DRY

WET

PRESSURE

SEA STATE

VISIBILITY

WIND

DIRECTION

WIND SPEED

CLOUD (amt)
TYPE

WEATHER

BOTTOM
DEPTHSTATION
NAME / ID

DEG

MIN

DEG

MIN

DAY

MO

YR

HR

MIN

°C

°C

mb

deg

knts

00

542

18

01111

CTD

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

052

SBE 9+ 91220a

TIMES

DATA ON

START DOWN

AT DEPTH

AT SURFACE

Tape/Diskette ID

File Name/Header

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

PRESS SN 91220A

DATA ON

START DOWN

AT DEPTH

AT SURFACE

Tape/Diskette ID

File Name/Header

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

PRI TEMP SN 710

DATA ON

START DOWN

AT DEPTH

AT SURFACE

Tape/Diskette ID

File Name/Header

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

SEC TEMP SN 884

DATA ON

START DOWN

AT DEPTH

AT SURFACE

Tape/Diskette ID

File Name/Header

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

PRI COND SN 915

DATA ON

START DOWN

AT DEPTH

AT SURFACE

Tape/Diskette ID

File Name/Header

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

SEC COND SN 530

DATA ON

START DOWN

AT DEPTH

AT SURFACE

Tape/Diskette ID

File Name/Header

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD 052

CTD CONVERTED MONITOR VALUES

MAX DEPTH (m)

106

SAMPLE BOTTLE NUMBER

SAMPLE
BOTTLE

DATA

POSITION

TRIP
DEPTH

PRESSURE

PRIMARY TEMP

SECONDARY TEMP

SALINITY

SALINITY

SAL

NUTR

CHL

WHIT'S
NUTR

1

2

3

4

5

6

7

8

9

10

11

12

[illegible]

CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME	DRY	WET	PRESSURE	SEA STATE	VISIBILITY	WIND	DIRECTION	WIND SPEED	CLOUD (amt)	TYPE	WEATHER	BOTTOM	STATION		
		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	BULB	°C	BULB	mb	deg	knts			DEPTH	NAME / ID		
05455111		64	61	65	13	9	8	7	18	MAY	05	03	34	02	40	11	00	03	32	41	8	0111	CTD054
SBE 9+		91220a		TIMES		DATA LOCATION		REMARKS															
PRESS SN		91220A		DATA ON		Tape/Diskette ID		File Name/Header															
PRI TEMP SN		710		START DOWN				CTD054															
SEC TEMP SN		884		AT DEPTH																			
PRI COND SN		915		AT SURFACE																			
SEC COND SN		530		PAR SN= 4242		FLUOR SN= 678																	

#96

	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	mb	deg	knts						
655	55	13.7	62	16	5	18	MAY	0	50	40	80	2.3	01.6	004	33	4	15	0111	CITD	55

CTD CONVERTED MONITOR VALUES

CTD CONVERTED MONITOR VALUES					SAMPLE BOTTLE NUMBER								
POSITION		TRIP	DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAL	NUTR	CHL	WHITS

[illegible]

TEST DESIGNATION

VESSEL		PROJECT & LEG		COD I.D.		STATION DESIGNATION	
NOAA Ship MILLER FREEMAN		MF-0507				BA13	
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE	
DEG MIN		DEG MIN		DAY MO YR		TIME	
052 55 22.227		11 65 53.518		18 MAY 05		09 45 02.302.1	
SBE 9+ 91220a		TIMES		DATA LOCATION		REMARKS	
PRESS SN 91220A		DATA ON		Tape/Diskette ID		File Name/Header	
PRI TEMP SN 710		START DOWN				CD057	
SEC TEMP SN 884		AT DEPTH					
PRI COND SN 915		AT SURFACE					
SEC COND SN 530		PAR S/N= 4242		FLUOR S/N= 678			
		CTD CONVERTED MONITOR VALUES					
POSITION		TRIP		DEPTH		PRESSURE	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
SAMPLE BOTTLE		SALINITY		SAL		NUTR	
DATA							
SAMPLE BOTTLE NUMBER							

CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY		WET		PRESSURE		SEA STATE		VISIBILITY		WIND		DIRECTION		WIND SPEED		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH		STATION NAME / ID	
0558	5520	19	42	165	57	03	71	8	MAY	05	10	23	02	26	20	08	35	0	17	deg	kn'ts	0	1	2	2	0	5	8	0	1	2	2	0	5	8

SBE 9+ 91220a
 PRESS SN 91220A
 PRI TEMP SN 710
 SEC TEMP SN 884
 PRI COND SN 915
 SEC COND SN 530

DATA ON _____
 START DOWN _____
 AT DEPTH _____
 AT SURFACE _____
 PAR SN= 4242 FLUOR SN= 678

DATA LOCATION: Tape/Diskette ID _____ File Name/Header _____
 REMARKS: **115**
☒ Cleaned air bleed valve
 MAX DEPTH (m) _____
 CHLAM SN= _____

CTD CONVERTED MONITOR VALUES

POSITION	TRIP		PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT'S
	DEPTH	PRESSURE								
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

[illegible]

VESSEL

PROJECT & LEG

COD I.D.

STATION DESIGNATION

[illegible]

[illegible]

VESSEL		PROJECT & LEG		COD I.D.		STATION DESIGNATION	
NOAA Ship MILLER FREEMAN		MF-0507				BAD5 #104	
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		TIME	
DEG MIN		DEG MIN		DAY MO YR		GMT	
0625516.169		116612.65818		MAY 051241		021100.904	
SBE 9+		91220a		TIMES		DATA LOCATION	
PRESS SN		91220A		DATA ON		Tape/Diskette ID	
PRI TEMP SN		710		START DOWN		File Name/Header	
SEC TEMP SN		884		AT DEPTH		CTD062	
PRI COND SN		915		AT SURFACE			
SEC COND SN		530		PAR SN= 4242		FLUOR SN= 678	
CTD CONVERTED MONITOR VALUES				CHLAM SN=			
POSITION		TRIP		PRESSURE		PRIMARY TEMP	
DEPTH						SECONDARY TEMP	
1						SALINITY	
2						SALINITY	
3						SAL	
4						NUTR	
5						CHL	
6						WHIT'S	
7							
8							
9							
10							
11							
12							
SAMPLE BOTTLE		DATA		SAMPLE BOTTLE NUMBER			
SBE 9+		91220a		TIMES		DATA LOCATION	
PRESS SN		91220A		DATA ON		Tape/Diskette ID	
PRI TEMP SN		710		START DOWN		File Name/Header	
SEC TEMP SN		884		AT DEPTH		CTD062	
PRI COND SN		915		AT SURFACE			
SEC COND SN		530		PAR SN= 4242		FLUOR SN= 678	
CTD CONVERTED MONITOR VALUES				CHLAM SN=			
POSITION		TRIP		PRESSURE		PRIMARY TEMP	
DEPTH						SECONDARY TEMP	
1						SALINITY	
2						SALINITY	
3						SAL	
4						NUTR	
5						CHL	
6						WHIT'S	
7							
8							
9							
10							
11							
12							
SAMPLE BOTTLE		DATA		SAMPLE BOTTLE NUMBER			
SBE 9+		91220a		TIMES		DATA LOCATION	
PRESS SN		91220A		DATA ON		Tape/Diskette ID	
PRI TEMP SN		710		START DOWN		File Name/Header	
SEC TEMP SN		884		AT DEPTH		CTD062	
PRI COND SN		915		AT SURFACE			
SEC COND SN		530		PAR SN= 4242		FLUOR SN= 678	
CTD CONVERTED MONITOR VALUES				CHLAM SN=			
POSITION		TRIP		PRESSURE		PRIMARY TEMP	
DEPTH						SECONDARY TEMP	
1						SALINITY	
2						SALINITY	
3						SAL	
4						NUTR	
5						CHL	
6						WHIT'S	
7							
8							
9							
10							
11							
12							
SAMPLE BOTTLE		DATA		SAMPLE BOTTLE NUMBER			
SBE 9+		91220a		TIMES		DATA LOCATION	
PRESS SN		91220A		DATA ON		Tape/Diskette ID	
PRI TEMP SN		710		START DOWN		File Name/Header	
SEC TEMP SN		884		AT DEPTH		CTD062	
PRI COND SN		915		AT SURFACE			
SEC COND SN		530		PAR SN= 4242		FLUOR SN= 678	
CTD CONVERTED MONITOR VALUES				CHLAM SN=			
POSITION		TRIP		PRESSURE		PRIMARY TEMP	
DEPTH						SECONDARY TEMP	
1						SALINITY	
2						SALINITY	
3						SAL	
4						NUTR	
5						CHL	
6						WHIT'S	
7							
8							
9							
10							
11							
12							
SAMPLE BOTTLE		DATA		SAMPLE BOTTLE NUMBER			
SBE 9+		91220a		TIMES		DATA LOCATION	
PRESS SN		91220A		DATA ON		Tape/Diskette ID	
PRI TEMP SN		710		START DOWN		File Name/Header	
SEC TEMP SN		884					

STATION DESIGNATION	BD13	105
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VESSEL				PROJECT & LEG				COD I.D.				STATION DESIGNATION																																							
NOAA Ship MILLER FREEMAN				MF-0507								12ADH #106																																							
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY		WET		PRESSURE		SEA STATE		VISIBILITY		WIND		DIRECTION		WIND SPEED		CLOUD (amt)		TYPE		WEATHER		BOTTOM		STATION																	
0645513.77916629.40718		DEG MIN		DEG MIN		DAY MO YR		HR MIN		°C		°C		mb		deg		knts																																	
SBE 9+		91220a		TIMES		DATA LOCATION																																													
PRESS SN		91220A		DATA ON		Tape/Diskette ID		File Name/Header																																											
PRI TEMP SN		710		START DOWN																																															
SEC TEMP SN		884		AT DEPTH																																															
PRI COND SN		915		AT SURFACE																																															
SEC COND SN		530		PAR SN= 4242		FLUOR SN= 678																																													
CTD CONVERTED MONITOR VALUES																																																			
POSITION				TRIP				DEPTH				PRESSURE				PRIMARY TEMP				SECONDARY TEMP				SALINITY				SALINITY				SAL				NUTR				CHL				WHITS							
1																																																			
2																																																			
3																																																			
4																																																			
5																																																			
6																																																			
7																																																			
8																																																			
9																																																			
10																																																			
11																																																			
12																																																			

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER

X Cleaned air bleed valve

MAX DEPTH (m)

CHLAM SN=

VESSEL				PROJECT & LEG				COD I.D.				STATION DESIGNATION																							
NOAA Ship MILLER FREEMAN				MF-0507								BAD1 #107																							
CONSECUTIVE CAST #		LATITUDE		LONGITUDE		DATE		TIME		DRY		WET		PRESSURE		SEA STATE		VISIBILITY		WIND		DIRECTION		WIND SPEED		CLOUD (amt)		TYPE		WEATHER		BOTTOM		STATION	
		DEG MIN		DEG MIN		DAY MO YR		HR MIN		°C		°C		mb						deg		knts													
0655512.527		16624.217		18 MAY 05		1505		2.1		1.9		1.9		31.6		19																			
SBE 9+		91220a		TIMES		DATA LOCATION																													
PRESS SN		91220A		DATA ON		Tape/Diskette ID		File Name/Header																											
PRI TEMP SN		710		START DOWN				CTD065																											
SEC TEMP SN		884		AT DEPTH																															
PRI COND SN		915		AT SURFACE																															
SEC COND SN		530		PAR SN= 4242		FLUOR SN= 678																													

STATION DESIGNATION	BADJ	#168
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[illegible]

[illegible]

STATION DESIGNATION
B613 #11

STATION DESIGNATION
BA 7 # 115

[illegible]

[illegible]

VESSEL

NOAA Ship MILLER FREEMAN

PROJECT & LEG

MF-0507

COD I.D.

STATION DESIGNATION

5477

178

CONSECUTIVE
CAST #

LATITUDE

LONGITUDE

DATE

TIME

DRY

WET

PRESSURE

SEA STATE

VISIBILITY

WIND

DIRECTION

WIND SPEED

CLOUD (amt)

TYPE

WEATHER

BOTTOM
DEPTHSTATION
NAME / ID

0735452.11716540.20319 MAY 05 033300 19011.086 330 21 0140CT073

REMARKS

SBE 9+ 91220a

PRESS SN 91220A

DATA ON

Tape/Diskette ID

File Name/Header

MAX. DEPTH (m)

CLEANED AIR BLEED VALVE

134

PRI TEMP SN 710

START DOWN

AT DEPTH

CTD073

FLUOR SN= 678

CHLAM SN=

1

SEC TEMP SN 884

AT SURFACE

PAR SN= 4242

CTD CONVERTED MONITOR VALUES

CTD073

CTD073

CTD073

PRI COND SN 915

AT SURFACE

PAR SN= 4242

CTD073

FLUOR SN= 678

CHLAM SN=

CTD073

SEC COND SN 530

AT SURFACE

PAR SN= 4242

CTD073

FLUOR SN= 678

CHLAM SN=

CTD073

CTD CONVERTED MONITOR VALUES

SAMPLE
BOTTLE

SAMPLE BOTTLE NUMBER

DATA

POSITION

TRIP
DEPTH

PRESSURE

PRIMARY TEMP

SECONDARY TEMP

SALINITY

SALINITY

SAL

NUTR

CHL

WHITS
NUTR

1

2

3

4

5

6

7

8

9

10

11

12

VESSEL

NOAA Ship MILLER FREEMAN

PROJECT & LEG

MF-0507

COD I.D.

STATION DESIGNATION

13ADE

#119

Pg. 1 OF 1

CONSECUTIVE
CAST #

LATITUDE

LONGITUDE

DATE

TIME

DRY

WET

PRESSURE

SEA STATE

VISIBILITY

WIND

DIRECTION

WIND SPEED

CLOUD (amt)

TYPE

WEATHER

BOTTOM
DEPTHSTATION
NAME / ID

DEG

MIN

DEG

MIN

DAY

MO

YR

HR

MIN

°C

°C

mb

deg

knts

deg

knts

deg

knts

deg

knts

deg

knts

deg

knts

SBE 9+ 91220a

PRESS SN 91220A

PRI TEMP SN 710

SEC TEMP SN 884

PRI COND SN 915

SEC COND SN 530

DATA ON

START DOWN

AT DEPTH

AT SURFACE

PAR SN= 47242

FLUOR SN= 678

CTD CONVERTED/MONITOR VALUES

DATA LOCATION

Tape/Diskette ID

File Name/Header

MAX DEPTH (m)

CHLAM S/N=

DATA

SAMPLE
BOTTLE

SAMPLE BOTTLE NUMBER

POSITION

TRIP
DEPTH

PRESSURE

PRIMARY TEMP

SECONDARY TEMP

SALINITY

SALINITY

SAL

NUTR

CHL

NUTR

WHIT'S

NUTR

1

2

3

4

5

6

7

8

9

10

11

12

REMARKS

137

VESSEL

NOAA Ship MILLER FREEMAN

PROJECT & LEG

MF-0507

COD I.D.

STATION DESIGNATION

5451 #120

CONSECUTIVE
CAST #

LATITUDE

LONGITUDE

DATE

TIME

DRY

WET

PRESSURE

SEA STATE

VISIBILITY

WIND

DIRECTION

WIND SPEED

CLOUD (amt)

TYPE

WEATHER

BOTTOM
DEPTHSTATION
NAME / ID

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