VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		AK1

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
001	54	03.77	166	17.07	16	05	01	00	43	7.5	5.7	00	3	7		14	3	8	1	-82	AK1

SBE 9+	91660
PRESS SN	29772
PRI TEMP SN	710
SEC TEMP SN	884
PRI COND SN	304
SEC COND SN	530

TIMES

DATA ON _____
START DOWN _____
AT DEPTH _____
AT SURFACE _____

☐ PAR S/N= ☐

DATA LOCATION

Tape/Diskette ID _____ File Name/Header _____

FLUOR S/N= ☐

REMARKS

131

☐ Cleaned air bleed valve

MAX. DEPTH (m)

ChLAM S/N= ☐

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1	72					32				
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

SAMPLE BOTTLE NUMBER: 32

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		KC1

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
002	56	25.09	160	12.76	15	05	01	22	22	5.3	4.3	961	1	8		05	4	9	1	23	KC-1

		TIMES	DATA LOCATION		REMARKS
SBE 9+	91660	DATA ON	Tape/Diskette ID	File Name/Header	319 @KC_Mooring pre-recovery .ctl - configuration file 001.cnv
PRESS SN	29772	START DOWN			
PRI TEMP SN	710	AT DEPTH			☐ Cleaned air bleed valve
SEC TEMP SN	884	AT SURFACE			MAX. DEPTH (m)
PRI COND SN	304	☐ PAR S/N=	☐ FLUOR S/N=		☐ ChLAM S/N=
SEC COND SN	530				

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1						33				
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

SAMPLE BOTTLE NUMBER: 33

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		1CC1

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
00	56	25.283	160	13.310	15	05	01	01	43	9.8	8.5	996	2	8		07	4	7	1	24	KC-1

SBE 9+	91660	**TIMES**	**DATA LOCATION**	**REMARKS**
PRESS SN	29772	DATA ON	Tape/Diskette ID / File Name/Header	996.2 300 @ CRAB MOORING - DEPLOYMENT
PRI TEMP SN	710	START DOWN		
SEC TEMP SN	884	AT DEPTH		☐ Cleaned air bleed valve
PRI COND SN	304	AT SURFACE		MAX. DEPTH (m)
SEC COND SN	530	☐ PAR S/N=	☐ FLUOR S/N=	ChLAM S/N= ☐

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							35			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		KC-1-02

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
004	56	30.03	161	0.185	16	05	01	04	21	6.5	5.0	973	3	8	11	11	6	6	2	67	KC102

SBE 9+	91660	TIMES	DATA LOCATION		REMARKS
PRESS SN	29772	DATA ON	Tape/Diskette ID	File Name/Header	
PRI TEMP SN	710	START DOWN			☐ Cleaned air bleed valve
SEC TEMP SN	884	AT DEPTH			MAX. DEPTH (m)
PRI COND SN	304	AT SURFACE			
SEC COND SN	530	☐ PAR S/N=	☐ FLUOR S/N=		ChLAM S/N= ☐

311

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							15.			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		KC-1-02

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
005	56	30.065	161	00.147	16	05	01	05	11	6.3	5.0	9738				08	86	2		67	KC102

SBE 9+	91660	TIMES	DATA LOCATION		355 REMARKS
PRESS SN	29772	DATA ON	Tape/Diskette ID	File Name/Header	
PRI TEMP SN	710	START DOWN			
SEC TEMP SN	884	AT DEPTH			☐ Cleaned air bleed valve
PRI COND SN	304	AT SURFACE			MAX. DEPTH (m)
SEC COND SN	530	☐ PAR S/N=	☐ FLUOR S/N=		ChLAM S/N= ☐

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							23			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		Mooring 2 - Recovery

CONSECUTIVE CAST #	LATITUDE (N) DEG	LATITUDE (N) MIN	LONGITUDE (W) DEG	LONGITUDE (W) MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
006	56	52.94	164	02.834	06	05	01	15	30	5.7	4.8	01	2	8		08	76	1		173	BSM2

SBE 9+	91660	TIMES	DATA LOCATION
PRESS SN	29772	DATA ON	Tape/Diskette ID / File Name/Header
PRI TEMP SN	710	START DOWN	
SEC TEMP SN	884	AT DEPTH	
PRI COND SN	304	AT SURFACE	
SEC COND SN	530	☐ PAR S/N=	☐ FLUOR S/N=

005 REMARKS
nutrients for Thornton et al.

☐ Cleaned air bleed valve
MAX. DEPTH (m)
ChLAM S/N= ☐

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1	66						08			
2	60									
3	50									
4	40									
5	30									
6	20									
7	10									
8	0									
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01-06		BSM2 Mooring - Deployment

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
007	56	53.20	164	03.00	16	05	01	23	48	6.1	5.0	053	3	9	055	08	3	3	1	73	BSM2

SBE 9+	91660	TIMES	
PRESS SN	29772	DATA ON	
PRI TEMP SN	710	START DOWN	
SEC TEMP SN	884	AT DEPTH	
PRI COND SN	304	AT SURFACE	
SEC COND SN	530	☐ PAR S/N=	

DATA LOCATION: Tape/Diskette ID ____ File Name/Header ____

☐ FLUOR S/N= ☐

REMARKS: 055 Bottles for VAF

☐ Cleaned air bleed valve

MAX. DEPTH (m)

ChLAM S/N= ☐

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER: 18

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT's NUTR
1	66									
2	60									
3	50									
4	40									
5	30									
6	20									
7	10									
8	0									
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01-06		

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSUR... mb	SEA STA...	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
008	57	06.934	164	59.99	17	05	01	04	44	6.1	5.2	0838			40	17	10			70	AA?

SBE 9+	91660	165 — TIMES .00	DATA LOCATION	REMARKS
PRESS SN	29772	DATA ON	Tape/Diskette ID / File Name/Header	on the way to station/mooring 4
PRI TEMP SN	710	START DOWN		Nut. bottles for UAF
SEC TEMP SN	884	AT DEPTH		☐ Cleaned air bleed valve
PRI COND SN	304	AT SURFACE		MAX. DEPTH (m)
SEC COND SN	530	☐ PAR S/N=	☐ FLUOR S/N=	ChLAM S/N= ☐

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1	66						7			
2	60									
3	50									
4	40									
5	30									
6	20									
7	10									
8	0									
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		AB

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
009	57	24.892	165	51.975	17	05	01	17	56	5.3	3.5	1018				06	20	1		68	AB

SBE 9+	91660
PRESS SN	29772
PRI TEMP SN	710
SEC TEMP SN	884
PRI COND SN	304
SEC COND SN	530

TIMES

DATA ON _____
START DOWN _____
AT DEPTH _____
AT SURFACE _____

☐ PAR S/N= ☐

DATA LOCATION

Tape/Diskette ID _____ File Name/Header _____

☐ FLUOR S/N= ☐

035 **REMARKS**

on the way to [illegible] M 4

nuts for VAF

☐ Cleaned air bleed valve

MAX. DEPTH (m)

☐ ChLAM S/N= ☐

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1	62						24			
2	60									
3	50									
4	40									
5	30									
6	20									
7	10									
8	ϕ									
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01-06		AC

CONSECUTIVE CAST #	LATITUDE (N) DEG	LATITUDE (N) MIN	LONGITUDE (W) DEG	LONGITUDE (W) MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSUR... mb	SEA STAT...	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
010	57	37.148	166	43.855	17	05	01	10	56	3.5	3.2	1133				04	10			70	AC

SBE 9+	91660
PRESS SN	29772
PRI TEMP SN	710
SEC TEMP SN	884
PRI COND SN	304
SEC COND SN	530

TIMES

DATA ON _____
START DOWN _____
AT DEPTH _____
AT SURFACE _____

☐ PAR S/N= ☐

DATA LOCATION

Tape/Diskette ID _____ File Name/Header _____

☐ FLUOR S/N= ☐

335

REMARKS

AC CTD to BSM-4
nutrients to UAF

☐ Cleaned air bleed valve

MAX. DEPTH (m)

☐ ChLAM S/N= ☐

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1	65									
2	60									
3	50									
4	40									
5	30									
6	20									
7	10									
8	0									
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		AD

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
011	57	37.97	167	36.14	07	05	01	14	03	3.8	3.0	11	1	7	310	06	2	01		71	AD

		TIMES	DATA LOCATION		REMARKS
SBE 9+	91660	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	29772	START DOWN			
PRI TEMP SN	710	AT DEPTH			✓ Cleaned air bleed valve
SEC TEMP SN	884	AT SURFACE			MAX. DEPTH (m)
PRI COND SN	304	✓ PAR S/N=	✓ FLUOR S/N=		ChLAM S/N=
SEC COND SN	530				

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1	65									
2	60									
3	50									
4	40									
5	30									
6	20									
7	10									
8	0									
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		AE

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSUR mb	SEA STAT	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
01	57	45.98	168	28.12	17	05	01	17	03	3.2	2.2	12	2	8	355	14	4	H	1	72	AE

		TIMES	DATA LOCATION		REMARKS
SBE 9+	91660				
PRESS SN	29772	DATA ON	Tape/Diskette ID	File Name/Header	
PRI TEMP SN	710	START DOWN			
SEC TEMP SN	884	AT DEPTH			✓ Cleaned air bleed valve
PRI COND SN	304	AT SURFACE			MAX. DEPTH (m)
SEC COND SN	530	✓ PAR S/N=	✓ FLUOR S/N=		ChLAM S/N=

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1	65									
2	60									
3	50									
4	40									
5	30									
6	20									
7	10									
8	0									
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01-		BS4

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSUR mb	SEA STA	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
013	57	51.33	168	52.16	17	05	01	18	37	3.1	2.1	12	2	8	350	15	4	4	1	73	BS4

SBE 9+	91660	TIMES	DATA LOCATION
PRESS SN	29772	DATA ON	Tape/Diskette ID / File Name/Header
PRI TEMP SN	710	START DOWN	
SEC TEMP SN	884	AT DEPTH	
PRI COND SN	304	AT SURFACE	
SEC COND SN	530	☐ PAR S/N=	☐ FLUOR S/N=

REMARKS

☐ Cleaned air bleed valve

MAX. DEPTH (m)

☐ ChLAM S/N=

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		BS4

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
014	58	75.134	168	52.004	17	05	01	23	03	0.5	-0.2	1498				14	8	7	2	72	BS4

SBE 9+	91660	TIMES	
PRESS SN	29772	DATA ON	
PRI TEMP SN	710	START DOWN	
SEC TEMP SN	884	AT DEPTH	
PRI COND SN	304	AT SURFACE	
SEC COND SN	530	☑ PAR S/N=	☑ FLUOR S/N=

DATA LOCATION: Tape/Diskette ID ____ File Name/Header ____

345

REMARKS: Deployment

☑ Cleaned air bleed valve

MAX. DEPTH (m)

ChLAM S/N= ☐

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1	66									
2	60									
3	50									
4	39									
5	29									
6	20									
7	10									
8	0									
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		SM-2

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
015	52	08.285	172	24.877	19	05	01	09	05	4.5	2.5	2238				11	8	6	2	159	SM-2

SBE 9+	91660	TIMES	DATA LOCATION
PRESS SN	29772	DATA ON	Tape/Diskette ID / File Name/Header
PRI TEMP SN	710	START DOWN	
SEC TEMP SN	884	AT DEPTH	
PRI COND SN	304	AT SURFACE	
SEC COND SN	530	✓ PAR S/N=	✓ FLUOR S/N=

012 REMARKS
nutrient sample for Dave Wisegarver

✓ Cleaned air bleed valve

MAX. DEPTH (m)

ChLAM S/N=

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1	156									
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		AMP-4

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
01	65	23.159	172	6.848	19	05	01	11	40	4.0	2.5	223	7	0	108	62			361	AMP4

SBE 9+	91660	TIMES	
PRESS SN	29772	DATA ON	
PRI TEMP SN	710	START DOWN	
SEC TEMP SN	884	AT DEPTH	
PRI COND SN	304	AT SURFACE	
SEC COND SN	530	☑ PAR S/N=	☑ FLUOR S/N=

DATA LOCATION

Tape/Diskette ID: _____ File Name/Header: _____

REMARKS

347.

☑ Cleaned air bleed valve

MAX. DEPTH (m)

ChLAM S/N= ☐

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							22			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		AMP 3

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
017	52	24.229	171	54.977	19	05	01	13	09	3.2	2.5	2133		7		10	8	6	5	307	

SBE 9+	91660	TIMES	DATA LOCATION
PRESS SN	29772	DATA ON	Tape/Diskette ID / File Name/Header
PRI TEMP SN	710	START DOWN	
SEC TEMP SN	884	AT DEPTH	
PRI COND SN	304	AT SURFACE	
SEC COND SN	530	☑ PAR S/N=	☑ FLUOR S/N= ☐

340

REMARKS

☑ Cleaned air bleed valve

MAX. DEPTH (m)

ChLAM S/N= ☐

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							09			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		AMP-2

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
010	52	25.239	171	39.812	19	05	01	15	00	4.2	3.0	2094	7			16	8	6	8	478	AMP2

SBE 9+	91660	TIMES	DATA LOCATION
PRESS SN	29772	DATA ON	Tape/Diskette ID / File Name/Header
PRI TEMP SN	710	START DOWN	
SEC TEMP SN	884	AT DEPTH	
PRI COND SN	304	AT SURFACE	
SEC COND SN	530	☑ PAR S/N=	☑ FLUOR S/N=

REMARKS: 2 340 AMP-2

☐ Cleaned air bleed valve

MAX. DEPTH (m)

ChLAM S/N= ☐

CTD CONVERTED MONITOR VALUES / SAMPLE BOTTLE DATA / SAMPLE BOTTLE NUMBER

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHIT's NUTR
1						71				
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		AMP-1

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
019	52 26.113		171 26.490		19	05	01	16	28	3.6	2.8	2047	0	13	17	8	6	5		393	AMP1

		TIMES	DATA LOCATION		REMARKS
SBE 9+	91660	DATA ON	Tape/Diskette ID	File Name/Header	3.77 bt for carol AMP-1
PRESS SN	29772	START DOWN			
PRI TEMP SN	710	AT DEPTH			☑ Cleaned air bleed valve
SEC TEMP SN	884	AT SURFACE			MAX. DEPTH (m)
PRI COND SN	304	☑ PAR S/N=	☑ FLUOR S/N=		ChLAM S/N= ☐
SEC COND SN	530				

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

SAMPLE BOTTLE NUMBER: none

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		GS-1

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
020	52	23.69	169	44.797	20	05	01	01	44	3.7	1.8	1017	4	7	00	18	6	6	1	1055	651

		TIMES	DATA LOCATION		REMARKS
SBE 9+	91660	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	29772	START DOWN			
PRI TEMP SN	710	AT DEPTH			✓ Cleaned air bleed valve
SEC TEMP SN	884	AT SURFACE			MAX. DEPTH (m)
PRI COND SN	304	✓ PAR S/N=		FLUOR S/N=	ChLAM S/N=
SEC COND SN	530				

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							3,26 bt			
2							19			
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
021	51	44.123	169	22.809	20	05	01	13	48	3.2	1.3	1019	4	7	33	520	8	6	5	4670	955

		TIMES	DATA LOCATION		REMARKS
SBE 9+	91660	DATA ON	Tape/Diskette ID	File Name/Header	T= 2.11 4678
PRESS SN	29772	START DOWN			
PRI TEMP SN	710	AT DEPTH			☐ Cleaned air bleed valve
SEC TEMP SN	884	AT SURFACE			MAX. DEPTH (m)
PRI COND SN	304	☐ PAR S/N=	☐ FLUOR S/N=		ChLAM S/N= ☐
SEC COND SN	530				

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							24			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
022	51	59.08 N	169	30.91 W	20	05	01	20	02	4.0	2.2	2147			390	08	8	6	2	3497	654

		TIMES	DATA LOCATION		REMARKS
SBE 9+	91660	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	29772	START DOWN			☐ Cleaned air bleed valve
PRI TEMP SN	710	AT DEPTH			MAX. DEPTH (m)
SEC TEMP SN	884	AT SURFACE			
PRI COND SN	304	☐ PAR S/N=	☐ FLUOR S/N=		☐ ChLAM S/N=
SEC COND SN	530				

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							18			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 66		

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
023	52	11.37 N	169	37.99 W	21	05	01	03	51	4.0	2.3	20	4	7	310	11	8	6	2	2957	493

		TIMES	DATA LOCATION		REMARKS
SBE 9+	91660	DATA ON	Tape/Diskette ID	File Name/Header	bdtemp= 2.20 t= 2.220 2957
PRESS SN	29772	START DOWN			
PRI TEMP SN	710	AT DEPTH			☐ Cleaned air bleed valve
SEC TEMP SN	884	AT SURFACE			MAX. DEPTH (m)
PRI COND SN	304	☐ PAR S/N=	☐ FLUOR S/N=		ChLAM S/N= ☐
SEC COND SN	530				

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							14			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		45-2

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
004	52	15.98 N		169	39.97 W		21	05	01	06	50	4.0	3.0	1948			358	14	86	6	22	0400	45-2

SBE 9+	91660
PRESS SN	29772
PRI TEMP SN	710
SEC TEMP SN	884
PRI COND SN	304
SEC COND SN	530

TIMES

DATA ON _____
START DOWN _____
AT DEPTH _____
AT SURFACE _____

☐ PAR S/N= _____

DATA LOCATION

Tape/Diskette ID _____ File Name/Header _____

☐ FLUOR S/N= _____

REMARKS

☐ Cleaned air bleed valve

MAX. DEPTH (m)

☐ ChLAM S/N= _____

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							16			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
025	53	22.19	N	168	43.88	W	21	05	01	14	32	4.6	3.8	152	2	7	272	10	8	6	2	291	A

		TIMES	DATA LOCATION		REMARKS
SBE 9+	91660	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	29772	START DOWN			
PRI TEMP SN	710	AT DEPTH			☐ Cleaned air bleed valve
SEC TEMP SN	884	AT SURFACE			MAX. DEPTH (m)
PRI COND SN	304	☐ PAR S/N=		☐ FLUOR S/N=	ChLAM S/N= ☐
SEC COND SN	530				

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		B/BSM6

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
026	53	26.21 N	168	45.998	21	05	01	15	36	3.8	2.1	15	2	7	252	10	8	6	2	1085	B

		TIMES	DATA LOCATION		REMARKS
SBE 9+	91660	DATA ON	Tape/Diskette ID	File Name/Header	Bottom changed, lt bottom @ 1036 m 29
PRESS SN	29772	START DOWN			
PRI TEMP SN	710	AT DEPTH			☐ Cleaned air bleed valve
SEC TEMP SN	884	AT SURFACE			MAX. DEPTH (m)
PRI COND SN	304	☐ PAR S/N=	☐ FLUOR S/N=		ChLAM S/N= ☐
SEC COND SN	530				

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01- 06		C

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
027	53	31.19	168	53.76 W	29	05	01	17	28	3.8	3.2	1143	3	7	255	10	8	6	5	1758	C

SBE 9+	91660	TIMES	
PRESS SN	29772	DATA ON	
PRI TEMP SN	710	START DOWN	
SEC TEMP SN	884	AT DEPTH	
PRI COND SN	304	AT SURFACE	
SEC COND SN	530	☐ PAR S/N=	☐

DATA LOCATION: Tape/Diskette ID | File Name/Header

FLUOR S/N= ☐

REMARKS: pinger on

☐ Cleaned air bleed valve

MAX. DEPTH (m)

ChLAM S/N= ☐

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							13			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01-06		D

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
028	53	36.13	N	169	02.81	W	21	05	01	19	26	3.6	3.0	1437			280	10	86	5		1767	D

SBE 9+	91660
PRESS SN	29772
PRI TEMP SN	710
SEC TEMP SN	884
PRI COND SN	304
SEC COND SN	530

TIMES

DATA ON
START DOWN
AT DEPTH
AT SURFACE

☐ PAR S/N=

DATA LOCATION

Tape/Diskette ID | File Name/Header

☐ FLUOR S/N=

REMARKS

07

☐ Cleaned air bleed valve

MAX. DEPTH (m)

☐ ChLAM S/N=

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER

07

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

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01-06		E

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN		LONGITUDE DEG	LONGITUDE MIN		DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
029	53	46.93	N	169	16.19		21	05	01	22	02	3.7	3.0	1337	2	9	270	6	8	6	2	1542	E

SBE 9+	91660
PRESS SN	29772
PRI TEMP SN	710
SEC TEMP SN	884
PRI COND SN	304
SEC COND SN	530

TIMES

DATA ON
START DOWN
AT DEPTH 2202
AT SURFACE
☐ PAR S/N=

DATA LOCATION

Tape/Diskette ID
File Name/Header
☐ FLUOR S/N=

REMARKS

☑ Cleaned air bleed valve
MAX. DEPTH (m)
☐ ChLAM S/N=

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER 26

POSITION	TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SALINITY	SAL	NUTR	CHL	WHT's NUTR
1							26			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01-06		F

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	CLOUD TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
030	54	02.36 N	169	34.37 W	22	05	01	00	57	7.2	5.7	1022			360	00	8	4	2	1810	F

SBE 9+	91660	**TIMES**	**DATA LOCATION**	**REMARKS**
PRESS SN	29772	DATA ON	Tape/Diskette ID / File Name/Header	
PRI TEMP SN	**710**	START DOWN		☑ **Cleaned air bleed valve**
SEC TEMP SN	**884**	AT DEPTH		MAX. DEPTH (m)
PRI COND SN	**304**	AT SURFACE		
SEC COND SN	**530**	☐ PAR S/N=	☐ FLUOR S/N= ☐	ChLAM S/N=

POSITION	CTD CONVERTED MONITOR VALUES: TRIP DEPTH	PRESSURE	PRIMARY TEMP	SECONDARY TEMP	SALINITY	SAMPLE BOTTLE DATA: SALINITY	SAMPLE BOTTLE NUMBER: SAL	NUTR	CHL	WHIT's NUTR
1							28			
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

VESSEL	PROJECT & LEG	DSDB I.D.	STATION DESIGNATION
NOAA Ship MILLER FREEMAN	MF-01-06		AK12

CONSECUTIVE CAST #	LATITUDE DEG	LATITUDE MIN	LONGITUDE DEG	LONGITUDE MIN	DATE DAY	DATE MO	DATE YR	TIME GMT HR	TIME GMT MIN	DRY BULB °C	WET BULB °C	PRESSURE mb	SEA STATE	VISIBILITY	WIND DIRECTION deg	WIND SPEED m/s	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STATION NAME / ID
031	53	56.24 N	165	54.73 W	22	05	01	14	11	3.7	2.8	12	2	7	040	12	8	6	2	100	AK12

SBE 9+	91660
PRESS SN	29772
PRI TEMP SN	710
SEC TEMP SN	884
PRI COND SN	304
SEC COND SN	530

TIMES

DATA ON
START DOWN
AT DEPTH
AT SURFACE

☐ PAR S/N=

DATA LOCATION

Tape/Diskette ID | File Name/Header

☐ FLUOR S/N=

REMARKS

☐ Cleaned air bleed valve

MAX. DEPTH (m)
ChLAM S/N=

CTD CONVERTED MONITOR VALUES | SAMPLE BOTTLE DATA | SAMPLE BOTTLE NUMBER

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										