

[illegible]

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-08-03		STATION DESIGNATION	
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=030 DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)
0026216.81N	16934.95W	01 FEB 08	1335	3.1	WET BULB (°C)
					PRESSURE (mb)
					SEA STATE *
					WIND DIRN. (deg)
					WIND SPD. (knts)
					CLOUD (amt) *
					WEATHER *
					BOTTOM DEPTH (m)
					STA. NAME/ID
CTD		TIMES DATA ON		DATA LOCATION File Name/Header	
TYPE & SN 9+ S/N 91220A				Tape/Diskette ID MF-08-03	
PRESS SN 80020		START DOWN		CTD 002	
PRI COND SN 915		AT DEPTH		CTD 002B (to 100m only)	
PRI TEMP SN 710		AT SURFACE		No wetstar	
SEC COND SN 304				Hubing added to pump	
SEC TEMP SN 884				MAX DEPTH = 1502 m (too short)	
		<input checked="" type="checkbox"/> PAR-4609 <input checked="" type="checkbox"/> WETSTAR-10306 <input checked="" type="checkbox"/> 1° Dissolved Oxygen 430910 <input type="checkbox"/> 2° Dissolved Oxygen		<input type="checkbox"/> Cleaned air bleed valve w/o 1410	
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
1	bottom				SEC. SALINITY
2					SALINITY
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
		SAL.	MORDY's NUTR.	CHL.	WHIT'S NUTR.
		40m			

*Sampling may have been done

Lost hydrostat @ ~800 m or upcast
[It turned out that the buoy had turned off contact]

Just checking salinity

1010 1510

extruded

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-08-08		STATION DESIGNATION AMH	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=066)	TIME (GMT)	DRY BULB (°C)
DEG MIN	DEG MIN	DAY MO YR	HR MIN	WET BULB (°C)	PRESSURE (mb)
06355	10.722N	16931.19W	01 FEB 08	1537	11.59
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	9+ S/N 91220A	DATA ON	Tape/Diskette ID	File Name/Header	REMARKS
PRESS SN	80020	START DOWN	MF-08-08	CTD 003	25° wire angle AMH
PRI COND SN	915	AT DEPTH			
PRI TEMP SN	710	AT SURFACE			MAX DEPTH = m
SEC COND SN	304				
SEC TEMP SN	884				
<input checked="" type="checkbox"/> PAR 4608 <input checked="" type="checkbox"/> WET START 4036P <input checked="" type="checkbox"/> 1° Dissolved Oxygen 430910 <input type="checkbox"/> 2° Dissolved Oxygen		CTD CONVERTED MONITOR VALUES <input type="checkbox"/> Cleaned air bleed valve			
POS. TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY
1 bottom					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

computer stopped at 306m -
 termination of data - back into data
 of line

VESSEL			PROJECT & LEG			STATION DESIGNATION		
NOAA RV MILLER FREEMAN			MF-08-02			AMH		
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=061	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE
0045210.23N	16931.12W	01 FEB 08	1613	11.39	2.48	0.13	0.13	0.13
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	(deg)	(knts)
CTD			TIMES			JD/TIME		
TYPE & SN			DATA ON			DATA LOCATION		
PRESS SN			START DOWN			Tape/Diskette ID		
PRI COND SN			AT DEPTH			File Name/Header		
PRI TEMP SN			AT SURFACE			CTD DATA		
SEC COND SN						MAX DEPTH =		
SEC TEMP SN						m		
<input checked="" type="checkbox"/> PAR-4603 <input checked="" type="checkbox"/> WEISSTAR-10362 <input checked="" type="checkbox"/> 1° Dissolved Oxygen 430910 <input type="checkbox"/> 2° Dissolved Oxygen			CTD CONVERTED MONITOR VALUES			<input type="checkbox"/> Cleaned air bleed valve		
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAMPLE BOTTLE DATA
1								SAL.
2								MORDY's NUTR.
3								CHL.
4								WHIT'S NUTR.
5								
6								
7								
8								
9								
10								
11								
12								

STARTED SINKING @ ~1140m
 STORED CDS @ ~118m to RE-TERMINATE CTD

SQUARED WIRES ON

CTD - RE-DO OF CTD003

@ AMH

17c6
193
1248
3100
21100

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA RV MILLER FREEMAN		MF-08-02													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=061	TIME (GMT)	DRY BULB (°C)	REL WET-BULB- (°C)	PRESSURE (mb)	SEA STATE	VISIBILITY	WIND DIRN. (deg)	WIND SPD. (knts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
0055209.100N	16933.20W	01 FEB 08	1958	01.892.578	02439										
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS							
TYPE & SN 9+ S/N 91220A		DATA ON				Tape/Diskette ID MF-08-01		File Name/Header CTD 005							
PRESS SN 80020		START DOWN													
PRI COND SN 915		AT DEPTH													
PRI TEMP SN 710		AT SURFACE													
SEC COND SN 304															
SEC TEMP SN 884															
		<input checked="" type="checkbox"/> PAR 4603		<input checked="" type="checkbox"/> SEASTAR 4036R		<input checked="" type="checkbox"/> Dissolved Oxygen 430910		<input type="checkbox"/> Dissolved Oxygen							
POS. TRIP DEPTH		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		SAMPLE BOTTLE NUMBER							
1	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY'S	CHL.	WHIT'S					
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															

ERROR LIGHTS NEAR BOTTOM OF CTD-
MAX DEPTH 1482m THE N
DE AT 1482m PROBE (BIOLOGIC) 1528m wlo

~40' wire cable for
rest of cast 4500m

☐ Cleaned air bleed valve

First cast after CTD
wire reterminated

MAX. DEPTH = 1482 m

AMH

VESSEL NOAA R/V MILLER FREEMAN		PROJECT & LEG 2 MF-08-02		STATION DESIGNATION												
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD= DAY MO YR	TIME (GMT) HR MIN	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (knts)	CLOUD (amt) *	WEATHER TYPE	BOTTOM DEPTH (m)	STA. NAME/ID	
0016	52 02.67 N	169 25.30 W	02 FEB 08	031	0.5	.	776	8	0	103	8	8	330	13		
CTD	TIMES		JD/TIME	DATA LOCATION												
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID												
PRESS SN	80020		START DOWN	MF-08-02												
PRI COND SN	915		AT DEPTH	CTD 0006												
PRI TEMP SN	710		AT SURFACE	MAX DEPTH = 1504 m												
SEC COND SN	304															
SEC TEMP SN	884															
<input checked="" type="checkbox"/> PAR 4603 <input checked="" type="checkbox"/> WET STAR 4036 <input checked="" type="checkbox"/> 1° Dissolved Oxygen 430910 <input type="checkbox"/> 2° Dissolved Oxygen				<input type="checkbox"/> Cleaned air bleed valve												
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER			
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY'S NUTR.	CHL.	WHIT'S NUTR.					
1								68								
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

AM3 re-formatted
S.D. 08-02-08 CTD 101010

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

[illegible]

VESSEL NOAA RV MILLER FREEMAN				PROJECT & LEG MF-08-03				STATION DESIGNATION STA 1 SURVEY OF ACQUITY PASS																																							
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																	
0155245.78 N		17059.11 W		04		FEB 01 8		2058		2.2		.		2148		15		8		18		7		2		7		3		2																	
CTD				TIMES				JD/TIME				DATA LOCATION				REMARKS																															
TYPE & SN				9+ S/N 91220A				DATA ON				Tape/Diskette ID				File Name/Header																															
PRESS SN				80020				START DOWN				MF-08-03				CTD 015																															
PRI COND SN				915				AT DEPTH																																							
PRI TEMP SN				710				AT SURFACE																																							
SEC COND SN				304																																											
SEC TEMP SN				884																																											
<input checked="" type="checkbox"/> PAR-4669- <input checked="" type="checkbox"/> WESTAR-1036P <input checked="" type="checkbox"/> 1° Dissolved Oxygen 430910 <input type="checkbox"/> 2° Dissolved Oxygen				<input type="checkbox"/> Cleaned air bleed valve																																											
POS.				TRIP				CTD CONVERTED MONITOR VALUES				SAMPLE BOTTLE				SAMPLE BOTTLE NUMBER																															
				DEPTH				PRESSURE				PRI. TEMP.				SEC. TEMP.				PRI. SALINITY				SEC. SALINITY				SALINITY				SAL.				MORDY's NUTR.				CHL.				WHIT's NUTR.			
1				Bottom																																											
2																																															
3																																															
4																																															
5																																															
6																																															
7																																															
8																																															
9																																															
10																																															
11																																															
12																																															

WESTAR 3 PAR
 corrected prior to cast

[illegible]

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-08-03		STATION DESIGNATION																													
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 (m)		STA. NAME/ID	
01753		09.611		N 171.09.76		W 05		FEB 01 8		01 15		21.7		. (°C)		94		98		130		18		6		16		43					
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																									
TYPE & SN		9+ S/N 91220A		DATA ON		Tape/Diskette ID		File Name/Header																									
PRESS SN		80020		START DOWN		MF-08-03		CTD 017																									
PRI COND SN		915		AT DEPTH																													
PRI TEMP SN		710		AT SURFACE																													
SEC COND SN		304																															
SEC TEMP SN		884																															
		<input checked="" type="checkbox"/> PAR-4668		<input checked="" type="checkbox"/> TWT-STAR 1036P		<input checked="" type="checkbox"/> 1° Dissolved Oxygen		430910		<input type="checkbox"/> 2° Dissolved Oxygen																							
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES														SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER													
		PRESSURE		PRI TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAL.		MORDY'S NUTR.		CHL.		WHIT'S NUTR.													
1		871m												77																			
2																																	
3																																	
4																																	
5																																	
6																																	
7																																	
8																																	
9																																	
10																																	
11																																	
12																																	

12041

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-08-03		STATION DESIGNATION	
CONSC. CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB
DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	WET BULB
0185322.44N	177112.95W	05 FEB 08	0341	2.6	9438118163
CTD	TIMES	JD/TIME	DATA LOCATION	REMARKS	
TYPE & SN	9+ S/N 91220A	DATA ON	Tape/Diskette ID	File Name/Header	
PRESS SN	80020	START DOWN	MF-08-03	CTD 018	
PRI COND SN	915	AT DEPTH			
PRI TEMP SN	710	AT SURFACE			
SEC COND SN	304				
SEC TEMP SN	884				
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
1	6.77m	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

18 41

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-08-03		STATION DESIGNATION	
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DRY BULB
DEG MIN	DEG MIN	DAY	MO	YR	HR MIN
019 53 32.77 N	171 19.16 W	05	FEB	08	06 00
					3.4
					9438
					105186
					3100
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	DATA ON		Tape/Diskette ID		
PRESS SN	START DOWN		File Name/Header		
PRI COND SN	AT DEPTH		CTD 019		
PRI TEMP SN	AT SURFACE		MAX. DEPTH = 1503 m		
SEC COND SN					
SEC TEMP SN					
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
1	8-17m				
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

REMARKS
North of Aniak
5th coast

Cleaned air bleed valve

SAL. 71

MORDY'S NUTR. CHL. WHIT'S NUTR.

20041

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAA RV MILLER FREEMAN		MF-08-03			
CONSC	LATITUDE	LONGITUDE		DATE JD=	TIME (GMT)
CAST #	DEG MIN	DEG MIN	DAY MO YR	HR MIN	DRY BULB (°C)
02053418	80N	7125	55W	05	0833
					11.9
					66.1
					93
					08614
					3239
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	9+ S/N 91220A	DATA ON	Tape/Diskette ID	File Name/Header	REMARKS
PRESS SN	80020	START DOWN	MF-08-03	CTD 020	North of Annette
PRI COND SN	915	AT DEPTH			CTD 6
PRI TEMP SN	710	AT SURFACE			
SEC COND SN	304				MAX DEPTH = 1501 m
SEC TEMP SN	884				310 1511
		<input checked="" type="checkbox"/> PAR 4603		<input checked="" type="checkbox"/> METSTAR 10362	
		<input checked="" type="checkbox"/> Dissolved Oxygen		430910	
		<input checked="" type="checkbox"/> Dissolved Oxygen			
		<input type="checkbox"/> Cleaned air bleed valve			
POS.	TRIP	CTD CONVERTED MONITOR VALUES			SAMPLE BOTTLE DATA
DEPTH		PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY
					SEC. SALINITY
					SALINITY
1	800m				37
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					

[illegible]

VESSEL NOAA RV MILLER FREEMAN				PROJECT & LEG MF-08-03				STATION DESIGNATION 022											
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD=065		TIME (GMT)	DRY BULB (°C)	REL HUM WET BULB (°C)	PRESSURE (mb)	SEA STATE * * *	VISIBILITY (deg)	WIND DIRN. (knts)	WIND SPD (knts)	CLOUD (amt) * * *	WEATHER * * *	BOTTOM DEPTH (m)	STA. NAME/ID	
022	53	24	03	N	16	50	06	13	11	56	9	58	7	03	13			985	
CTD				TIMES		JD/TIME		DATA LOCATION				REMARKS							
TYPE & SN				9+ S/N 91220A		DATA ON		Tape/Diskette ID				File Name/Header							
PRESS SN				80020		START DOWN		MF-08-03				CTD							
PRI COND SN				915		AT DEPTH													
PRI TEMP SN				710		AT SURFACE													
SEC COND SN				304															
SEC TEMP SN				884															
				<input checked="" type="checkbox"/> PAR-4663		<input checked="" type="checkbox"/> WET-1000		<input checked="" type="checkbox"/> 1° Dissolved Oxygen		<input type="checkbox"/> 2° Dissolved Oxygen		<input type="checkbox"/> Cleaned air bleed valve							
POS. TRIP DEPTH				CTD CONVERTED MONITOR VALUES															
				PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER					
1 975										SAL.	MORDY's	CHL.	WHIT's						
2										29									
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

W10 1045

CTD "V" LINE, STA 022

VESSEL		PROJECT & LEG		STATION DESIGNATION											
NOAA RV MILLER FREEMAN		MF-08-03													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=	TIME (GMT)	DY BULB (°C)	WET BULB (°C)	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/D
	DEG MIN	DEG MIN	DAY MO YR	HR MIN	(°C)	(°C)	(mb)	*	(deg)	(knts)	*	*		(m)	
023	53 31.22 N	168 54.64 W	05	21	57	2.3	863	8	18	14	2			1791	
CTD	TIMES	JD/TIME	DATA LOCATION												
TYPE & SN	9+ S/N 91220A	DATA ON	Tape/Diskette ID File Name/Header												
PRESS SN	80020	START DOWN	MF-08-03 CTD 023												
PRI COND SN	915	AT DEPTH													
PRI TEMP SN	710	AT SURFACE													
SEC COND SN	304														
SEC TEMP SN	884														
POS.	TRIP DEPTH	PAR-4606 X MISS STAR-488P X 1° Dissolved Oxygen 430910 2° Dissolved Oxygen													
		CTD CONVERTED MONITOR VALUES													
	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAMPLE BOTTLE DATA								
1	Bottom						SAL. 52								
2															
3															
4															
5															
6															
7															
8															
9															
10															
11															
12															
		MAX. DEPTH = 1503 m													
		Cleaned air bleed valve													
		REMARKS CTD "V", STA 3													

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-08-03		STATION DESIGNATION																											
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	
0245336		25 N		16903.66 W		05 FEB		08		23 ST		2.2		2.2		863		8014		019		2		1803							
CTD		TIMES		JD/TIME		m/s		DATA LOCATION										REMARKS													
TYPE & SN		9+ S/N 91220A		DATA ON				Tape/Diskette ID		File Name/Header		2" on buoy 4th cast																			
PRESS SN		80020		START DOWN				MF-08-03		CTD 024																					
PRI COND SN		915		AT DEPTH																											
PRI TEMP SN		710		AT SURFACE																											
SEC COND SN		304																													
SEC TEMP SN		884																													
MAX. DEPTH = 1502 m																															
POS.		TRIP DEPTH		PAR-4669		METSTAR 1036P		1° Dissolved Oxygen		430910		2° Dissolved Oxygen		Cleared air bleed valve																	
		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAL.		MORDY's NUTR.		CHL.		WHIT's NUTR.											
1		8010m												112																	
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

[illegible]

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-08-03		STATION DESIGNATION																									
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		SEA STATE (deg)		WIND DIRN. (knts)		WIND SPD. (knts)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
026		54 01.61		N 169 33.54		W 06		FEB 08		05 14		11.0		844		325		325		166		1		7		97			
CTD		TIMES		JD/TIME		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS																	
TYPE & SN		9+ S/N 91220A		DATA ON																									
PRESS SN		80020		START DOWN																									
PRI COND SN		915		AT DEPTH																									
PRI TEMP SN		710		AT SURFACE																									
SEC COND SN		304																											
SEC TEMP SN		884																											
POS.		TRIP DEPTH		CTD CONVERTED MONITOR VALUES		1° Dissolved Oxygen		430910		2° Dissolved Oxygen		Cleared air bleed valve																	
1		Bot		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAL.		MORDY's		CHL.		WHIT's							
2																													
3																													
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

27 41

VESSEL NOAA RV MILLER FREEMAN				PROJECT & LEG MF-08-03				STATION DESIGNATION																	
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB		PRESSURE SEA STATE VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
027		54 19.72 N		169 49.06 W		06 FEB 08		0826-10.1		844		633025		8		31857									
CTD		TIMES		JD/TIME		MAR		DATA LOCATION		Tape/Diskette ID		File Name/Header		REMARKS											
TYPE & SN		9+ S/N 91220A		DATA ON										Bump Sea 6											
PRESS SN		80020		START DOWN										CTD 027											
PRI COND SN		915		AT DEPTH																					
PRI TEMP SN		710		AT SURFACE																					
SEC COND SN		304																							
SEC TEMP SN		884																							
POS.		TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAL.		MORDY's NUTR.		CHL.		WHIT's NUTR.			
1		Bottom												64											
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

☒ PAR-4603

☒ ~~WET-SALT-1000P~~

☒ 1° Dissolved Oxygen

☐ 2° Dissolved Oxygen

☐ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE
DATA

SAMPLE BOTTLE NUMBER

MAX. DEPTH = 1501 m

VESSEL	PROJECT & LEG	STATION DESIGNATION
NOAA RV MILLER FREEMAN	MF-08-03	

[illegible]

CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS
TYPE & SN	9+ S/N 91220A	DATA ON		Tape/Diskette ID	File Name/Header			
PRESS SN	80020	START DOWN		MF-08-03	CTD 028		CTD "1" STA 8	
PRI COND SN	915	AT DEPTH						
PRI TEMP SN	710	AT SURFACE					MAX. DEPTH = m	

SEC COND SN	304
SEC TEMP SN	884
<input checked="" type="checkbox"/> PAR-4603	
<input checked="" type="checkbox"/> WEISTAR-1036P	
<input checked="" type="checkbox"/> 1° Dissolved Oxygen	430910
<input type="checkbox"/> 2° Dissolved Oxygen	
<input type="checkbox"/> Cleaned air bleed valve	

info 1518

[illegible]

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-08-03		STATION DESIGNATION																															
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=066		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		SEA STATE		VISIBILITY		WIND DIRN. (deg)		WIND SPD (knts)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID					
029		5458.37 N		16844.64 W		16 FEB 08		1620-11.5		82		82		320		15		2000																	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																											
TYPE & SN		9+ S/N 91220A		DATA ON		Tape/Diskette ID		File Name/Header																											
PRESS SN		80020		START DOWN		MF-08-03		CTD																											
PRI COND SN		915		AT DEPTH																															
PRI TEMP SN		710		AT SURFACE																															
SEC COND SN		304																																	
SEC TEMP SN		884																																	
PAR-4606		WET-STAR-4606P		1° Dissolved Oxygen		430910		2° Dissolved Oxygen																											
CCTD CONVERTED MONITOR VALUES		CCTD CONVERTED MONITOR VALUES		CCTD CONVERTED MONITOR VALUES		CCTD CONVERTED MONITOR VALUES		CCTD CONVERTED MONITOR VALUES																											
POS. TRIP DEPTH		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAL.		MORDY's		CHL.		WHIT's															
1 1501														62																					
2																																			
3																																			
4																																			
5																																			
6																																			
7																																			
8																																			
9																																			
10																																			
11																																			
12																																			

016 1519

MAX. DEPTH = m

CCTD CONVERTED MONITOR VALUES

CCTD CONVERTED MONITOR VALUES

CCTD CONVERTED MONITOR VALUES

CCTD CONVERTED MONITOR VALUES

CCTD CONVERTED MONITOR VALUES

CCTD CONVERTED MONITOR VALUES

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CCTD CONVERTED MONITOR VALUES

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-08-03		STATION DESIGNATION 020												
CONSC CAST #	LATITUDE DEG MIN	LONGITUDE DEG MIN	DATE JD=0666 DAY MO YR	TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	PRESSURE (mb)	SEA STATE *	VISIBILITY *	WIND DIRN. (deg)	WIND SPD. (knts)	CLOUD (amt) TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
0305507.48 N	16829.56 W	06 FEB 08	1838-2.2	83	32.0	10	1728									
CTD	TIMES		JD/TIME	DATA LOCATION												
TYPE & SN	9+ S/N 91220A		DATA ON	Tape/Diskette ID File Name/Header												
PRESS SN	80020		START DOWN	MF-08-03 CTD 020												
PRI COND SN	915		AT DEPTH													
PRI TEMP SN	710		AT SURFACE													
SEC COND SN	304															
SEC TEMP SN	884															
<input checked="" type="checkbox"/> PAR-1608 <input checked="" type="checkbox"/> WET STAR-1039P <input checked="" type="checkbox"/> 1° Dissolved Oxygen 430910 <input type="checkbox"/> 2° Dissolved Oxygen <input type="checkbox"/> Cleaned air bleed valve																
POS.	TRIP DEPTH	CTD CONVERTED MONITOR VALUES										SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER		
	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	MORDY's NUTR.	CHL.	WHITT's NUTR.						
1	57.7						39									
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

4/0 1509

MAX. DEPTH = 1504 m

CTD "1" - STR 10

VESSEL	PROJECT & LEG	STATION DESIGNATION
NOAA RV MILLER FREEMAN	MF-08-03	

031	55	21	.70	N	16	8	13	.42	W	06	MAY	08	21	05	-2.7	1	83	46	3	42	13	8	3	100	8							
CONSC CAST #	LATITUDE				LONGITUDE				DATE JD=		TIME (GMT)		DRY BULB (°C)		WET BULB (°C)		PRESSURE (mb)		SEA STATE VISIBILITY		WIND DIRN. (deg)		WIND SPD (knts)		CLOUD (amt) TYPE		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
	DEG	MIN			DEG	MIN				DAY	MO	YR	HR	MIN				*	*				*	*								

CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS
TYPE & SN	9+ S/N 91220A	DATA ON		Tape/Diskette ID		File Name/Header		CTD #1 - S/N 11
PRESS SN	80020	START DOWN		MF-08-03		CTD 031		1000 g
PRI COND SN	915	AT DEPTH						
PRI TEMP SN	710	AT SURFACE						
MAX. DEPTH = 997 m								

SEC COND SN	304
SEC TEMP SN	884
<input checked="" type="checkbox"/> PAR 4603	
<input checked="" type="checkbox"/> METSTAR 1036P	
<input checked="" type="checkbox"/> 1" Dissolved Oxygen	430910
<input type="checkbox"/> 2" Dissolved Oxygen	
<input type="checkbox"/> Cleaned air bleed valve	

[illegible]

[illegible]

[illegible]

VESSEL NOAA RV MILLER FREEMAN				PROJECT & LEG MF-08-03				STATION DESIGNATION																							
CONSC CAST #		LATITUDE		LONGITUDE		DATE JD=067		TIME (GMT)		DRY BULB		WET BULB		PRESSURE		SEA STATE		VISIBILITY		WIND DIRN.		WIND SPD.		CLOUD (amt)		WEATHER		BOTTOM DEPTH		STA. NAME/ID	
03455		10.95N		16141.85W		07 FEB 018		2114		1.2		.86		22505		22505		22505		22505		22505		22505		22505		22505		22505	
CTD		TIMES		JD/TIME		DATA LOCATION		REMARKS																							
TYPE & SN		9+ S/N 91220A		DATA ON				Tape/Diskette ID		File Name/Header																					
PRESS SN		80020		START DOWN				MF-08-03		CTD034																					
PRI COND SN		915		AT DEPTH																											
PRI TEMP SN		710		AT SURFACE																											
SEC COND SN		304																													
SEC TEMP SN		884																													
POS.		TRIP		PRESSURE		PRI. TEMP.		SEC. TEMP.		PRI. SALINITY		SEC. SALINITY		SALINITY		SAL.		MORDY's		CHL.		WHIT's									
1		77														21															
2																															
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
12																															

☒ PAR 4603

☒ WETSTAR 1036P

☒ 1° Dissolved Oxygen

☐ 2° Dissolved Oxygen

☐ Cleaned air bleed valve

CTD CONVERTED MONITOR VALUES

SAMPLE BOTTLE DATA

SAMPLE BOTTLE NUMBER

RAINFOF 2803
PAIR TO RECON OF
0379-1A
MAX. DEPTH = m

310 74

[illegible]

[illegible]

VESSEL		PROJECT & LEG		STATION DESIGNATION	
NOAA RV MILLER FREEMAN		MF-08-03			
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=069	TIME (GMT)	DRY BULB (°C)
DEG MIN	DEG MIN	DEG MIN	DAY MO YR	HR MIN	WET BULB (°C)
037 57 40.87 N	155 10.45 W	09	08	00 53	13.18
CTD	TIMES	JD/TIME	DATA LOCATION		
TYPE & SN	9+ S/N 91220A	DATA ON	Tape/Diskette ID		
PRESS SN	80020	START DOWN	MF-08-03		
PRI COND SN	915	AT DEPTH	CTD 037		
PRI TEMP SN	710	AT SURFACE	MAX. DEPTH = 285 m		
SEC COND SN	304		293 w/o		
SEC TEMP SN	884				
POS.	TRIP DEPTH	<input checked="" type="checkbox"/> PAR 4603 <input checked="" type="checkbox"/> WETSTAR 1036P <input checked="" type="checkbox"/> 1° Dissolved Oxygen <input type="checkbox"/> 2° Dissolved Oxygen		<input type="checkbox"/> Cleaned air bleed valve	
		CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	
	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY
1	284				
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
				SAL.	MORDY's
				20	NUTR.
				CHL.	WHIT's
				NUTR.	
				SAMPLE BOTTLE NUMBER	
				REMARKS	
				LINE 8, STA 60	

[illegible]

[illegible]

VESSEL NOAA RV MILLER FREEMAN		PROJECT & LEG MF-08-03		STATION DESIGNATION 041													
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=069	TIME (GMT)	DRY BULB	REL H ₂ O WET BULB WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
041	57 30.95 N	154 46.95 W	09	03 51	3.38	9.48	3	0	0	030	35				210		
CTD	TIMES		JD/TIME	DATA LOCATION													
TYPE & SN	9+ S/N 91220A	DATA ON		Tape/Diskette ID													
PRESS SN	80020	START DOWN		File Name/Header													
PRI COND SN	915	AT DEPTH		CTD 041													
PRI TEMP SN	710	AT SURFACE		MAX. DEPTH = m													
SEC COND SN	304																
SEC TEMP SN	884																
		<input checked="" type="checkbox"/> PAR 4603		<input checked="" type="checkbox"/> WETSTAR 1036P		<input checked="" type="checkbox"/> 1" Dissolved Oxygen		430910		<input type="checkbox"/> 2" Dissolved Oxygen							
CTD CONVERTED MONITOR VALUES																	
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	Cleaned air bleed valve	SAL.	MORDY's NUTR.	CHL.	WHIT's NUTR.			
1	200										03						
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	
11																	
12																	

W/D 199

LINE 8, STA 56