NOTE: FOR THIS CAST ONLY: PAR = VO

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VESSEL NOAA Ship MILI	VESSEL NOAA Ship MILLER FREEMAN			PROJECT &	MF98-05	8				<u>., </u>	STATION DESIGNATION	DESIGNA	ATION		
	12					TIME	DRY	ESSURE	TATS A	MIN	N N OUD (amt) W	A3HTA:	BOTTOM	STA	4
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COND SN 1:	1: 480, 2: 303 AT SURFACE	T SURFACE	::	ļ					al	a	X A M	MAX. DEPTH	- - - 王	0	E
		PAR	V PLUOR()	<u> </u>	CHIAM		TRANSMISSOMETER	SOMETER	7	Cleaned air bleed valve	air bleed	valve			
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FLUOR VO NOTE: FOR ALL SUBSEGUENT CASTS (INCL. CAST CTUCOS)

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VESSEL NOAA Ship MILLER FREEMAN	9	0035630.03N16059.88W15A7R	СТБ		NS				TRIP DEPTH												,	
VESSEL NOAA S	CONSC CAST #	0.0	<u> </u>	TYPE & SN	PRESS SN	TEMP SN	COND SN		S.		-	2	3	4	22	9	7	80	თ	10	<u></u>	12

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VESSEL NOAA Ship MILLER FREEMAN	 ER FREEMAN		,		PROJECT & LEG	, EG				STATIC	ON DESIG	STATION DESIGNATION	·	
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COND SN 1:	1: 480, 2: 303 AT SURFACE	TSURFACE								1	MAX. DE	MAX. DEPTH = ()		E
		PAR	<u>\</u>	V FLUOR (	6	ChiAM	TRANSMISSOMETER	OMETER	Clear	Cleaned air bleed valve	ed valve	1	6	
POS. TRIP DEPTH		]	CTDCC	NVERTE	ED MONITC	CTD CONVERTED MONITOR VALUES	!		SAMPLE BOTTLE	BOTTLE -A	SAME	SAMPLE BOTTLE NUMBER	LE NUMI	ER.
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STATION DESIGNATION	COUD (amt)  PPE ~ 34Y  PENTABR	Λ . L .	1 1	REMARKS				MAX. DEPTH =	Cleaned air bleed valve	SAMP	SAL.	33											
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ip MILLE	VESSEL NOAA Ship MILLER FREEMAN			PROJEC	ROJECT & LEG						STATION	STATION DESIGNATION	NATION		
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CONSC CAST #		LATITUDE	CONO	LONGITUDE	DATE	9	90,	TIME	DRY	WET	3HUSS3Ho	SEA STATE  YTIJIBISIN	ON!W ON!W	MIN CAN	(amt) COUD (amt) PPE RETHER	BOTTOM		STA.
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TEMP SN		1: 889, 2: 701 AT DEPTH	<b>JEPTH</b>					¥.	20 20			)/E	18	=	6	SEC AC AC	1	
COND SN		1: 480, 2: 303 AT SURFACE	SURFA(	ا بر									ST USTIN	<u>≥</u> {	AX. D	MAX. DEPTH =		E 29
_			VFAR	35.	J ÉUOR (10)		Chlam	exe tre	TRANSMISSOMETER	SOMETER	~	72	Cleaned air bleed valve	air blee	d valv	a)		
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		34NSS344	=	PRI	PRI. TEMP.		SEC. TEMP	<u>C</u>	SA	SALINITY		S	SALINITY		SAL.	NCT.	됨	WHIT'S NUTR.
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VESSEL NOAA SI	EL Ship MILLE	VESSEL NOAA Ship MILLER FREEMAN			4	PROJECT & LEG	EG	12				STATIO	STATION DESIGNATION	NATION		
CONSC CAST #	% <b>-</b>	LATITUDE	LONGITUDE	7.0e	DATE	901 =ar	TIME (GMT)	DR√ BUB	M W W	SEA STATE YTIJGISIV	Wind	dNiw day	(amt) (amt) 39Y7 ABHTABM	BOTTOM		STA. NAME/ID
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			PAR	7	FLUOR (10)	O) Chiam		TRANSMISSOMETER	SOMETER	8)	Cleaned air bleed valve	1 air ble	ed valve	•		
S.	TRIP DEPTH	8	# # E	СТБС	ONVERTE	CTD CONVERTED MONITOR VALUES	r VALUES			Š	SAMPLE BOTTLE DATA	TTLE	SAME	SAMPLE BOTTLE NUMBER	LE NUM	BER
	-	PRESSURE	<u>a</u>	PRI. TEMP	EMP	SEC	SEC. TEMP	Ϋ́	SALINITY		SALINITY	>	SAL.	NCTR.	CHL.	WHIT'S NUTR.
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VESSEL NOAA Ship MILLER FREEMAN	ER FREEMAN		=	PROJECT & LEG	LEG			:0	STATIO	STATION DESIGNATION	NOIL	
CONSC CAST #	ATITUDE	LONGITUDE	DATE	9 Q= Q	TIME	DRY BULB	381088389 Fi 9	SEA STATE  VISIBILITY  S S S	QNIM COM	COUD (amt)  YPE  WEATHER  S 2	ВОТТОМ	STA.
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СТО	TIMES	ES	JD/TIME		B(0)	<b>1</b> 0	DATA LOCATION	NO		REMARKS		_
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TEMP SN 1:	1: 889, 2: 701 AT DEPTH	ЭЕРТН	08 H			25		N XBIII	<u> </u>			
COND SN 1:	1: 480, 2: 303 AT SURFACE	SURFACE	NAMES OF		4)				1 =	МАХ. DЕРТН	H=	30 E
	7	PAR	V FLUOR (16)	(10) CHIAM	MA	TRANSMISSOMETER	SOMETER	Cleane	Cleaned air bleed valve	ed valve		
POS. TRIP DEPTH			CTD CONVER	CTD CONVERTED MONITOR VALUES	R VALUES	1.		SAMPLE BOTTLE DATA	тте	SAMPLE	SAMPLE BOTTLE NUMBER	UMBER
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VESSEL NOAA S	Ship MILLE	VESSEL NOAA Ship MILLER FREEMAN	HG	PROJECT & LEG	1 5 E	STAT	STATION DESIGNATION	7	
CONSC CAST #		LATITUDE	LONGITUDE DATE J	TIME	DRY WET SSUE	VISIBILITY   CLOUD (amt) WEATHER  B  COUD (amt)	MO STA.	9	
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<u> </u>	СТБ	TIMES	JD/TIME		DATA LOCATION	N	REMARKS		
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		PAR	V FLUOR (16)	(c)	TRANSMISSOMETER	Cleaned air bleed valve	leed valve		
POS.	TRIP DEPTH		CTD CONVERTE	CTD CONVERTED MONITOR VALUES		SAMPLE BOTTLE DATA	SAMPLEBOT	SAMPLE BOTTLE NUMBER	CC .
		PRESSURE	PRI. TEMP.	SEC. TEMP	SALINITY	SALINITY	SAL. NUTR.	CHL. NU	WHIT'S NUTR
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STATION DESIGNATION	CLOUD (amt) TYPE WEATHER	1 1	87.2	REMARKS				MAX. DEPTH	Cleaned air bleed valve	SAMF	SAL.	29										<b>5</b>	
STATIC	WIND SPD.	(m/s)	20				=	1	d air ble	тте	>												
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g g	TIME (GMT)	NIM AIR	0 50		Tape/Diskette ID		d.	Ţ,		VALUES	TEMP												
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	ë r	DAY	21.44W16A	JD/TIME	e¥ ID	13	200		V FLUOR (10)	CONVE	PRI. TEMP.							92	= ==				
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EMAN	= 5 (S)		2	F	9Plus 91660 DATA ON	29972 ST	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE			PRESSURE												
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VESSEL. NOAA Ship MILLER FREEMAN		<u> </u>	2570	CTO		NS S				TRIP DEPTH		30	6)	J.	8	>	0						
VESSEL NOAA S	CONSC CAST #		0		TYPE & SN	PRESS SN	TEMP SN	COND SN		POS.		-	2	က	4	2	9	7	ω	6	10	1-	12

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COND SN		1: 480, 2: 303 AT SURFACE	AT SURFACI								6		MAX. DEPTH	PTH =	IJ	Ε
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а.	DATE	65 W 17 A	JD/TIME		1			FLUOR (16)	ONVERT	:MP∵												
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VESSEL NOAA Ship MILLER FREEMAN	<b>∑</b> L	5652.62N				1: 886	1: 480		일 돈			-J-	·	- T-	-3-		3	3	3.	6)		
VESSEL NOAA Ship I	CONSC CAST #	01456	CTD	TYPE & SN	PRESS SN	TEMP SN	COND SN		S. TRIP DEPTH		44	h ti	44	24	74	24	9737	15			-	_
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VESSEL NOAA Ship M	VESSEL NOAA Ship MILLER FREEMAN			PROJECT & LEG	& LEG				STATIO	N DESIG	STATION DESIGNATION		
CONSC CAST #	LATITUDE	LONGITUDE	= 1V 8	DATE JD=10	TIME	DRY WET	3UNSS3Ud	YTUBIEIUTY  SEA STATE  VISIBILITY  SEA  SEA  SEA  SEA  SEA  SEA  SEA  SE	QNIW GW	(sms) QUOJO PPPE RETHER	BOTTOM		STA.
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СТО		TIMES	JD/TIME		8 8	DATA	DATA LOCATION	7		REMARKS	S		
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CONSC CAST #	ISC ST LAT		LONGITUDE	DATE JD= Io7	TIME (GMT)	DRY	WET WET BULB	SEA STATE  YTIJIBICIV  SEA STATE  TO SEA STA	WIND SPD.	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH		STA. NAME/ID
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VESSEL			PROJECT & LEG	<u> </u>				NOITATS	STATION DESIGNATION	MOITA		
NOAA Ship MILLER FREEMAN	ER FREEMAN	162										-
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DEG	DEG		DAY MO YR		-	(dm)	(deg)		۸ .	E (E	2	NAME/ID
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NOAA Ship A	NOAA Ship MILLER FREEMAN				3	:					<u> </u>		STATION DESIGNATION		
CONSC CAST	LATITUDE	LONGITUDE	0 21	DATE JD= 107	1320	TIME (GMT)	DRY	WET BULB	PRESSURE SEA STATE YTIJIBICIY	WIND DIRN.	WIND SPD.	CLOUD (amt) WEATHER	BOTTOM DEPTH		STA. NAME/ID
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TEMP SN	1: 889, 2: 701 AT DEPTH	ГОЕРТН	0	3 1					0 =	=		WAR TS	+	Ç	
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NOAA Ship	NOAA Ship MILLER FREEMAN			3	<u> </u>	3					N A I	STATION DESIGNATION	A ION		
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	PRESSURE	<u> </u>	PRI. TEMP.	MP.	SEC. TEMP	JWP JWE	SA	SALINITY	1.5	SALINITY		SAL.	N STP.	용	WHIT'S NUTR.
<u>و</u> -	ماما											77.			N. 2
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STATION DESIGNATION	CLOUD (amt) YPE WEATHER		872	REMARKS	8	F		MAX. DEPTH	Cleaned air bleed valve	SAN		SAL.	3		_									
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PROJECT & LEG	& O	Œ	8					3.	ChIAM	CTD CONVERTED MONITOR VALUES		SEC. TEMP												
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VESSEL NOAA Ship MILLER FREEMAN	LATITUDE	Z	05746.35N168		9Plus 91660 DATA ON	29972	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE				8												
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VESSEL				PROJECT & LEG	E.B.				CTATIC	MOITANOISSI MOITATS	INCITAIN		
NOAA Ship MILLER FREEMAN	ER FREEMAN								<u>.</u>				-
CONSC CAST #	LATITUDE	LONGITUDE	DATE	E JD= \0.8	TIME (GMT)	DRY	W FT BULB BULB BULB	SEA STATE VISIBILITY  S S S S S S S S S S S S S S S S S S S	WIND	(3ms) QUOJO BAYTAER ABHTAER	BOTTOM	STA.	A. 7.
<u>SH</u>	MIN	NIM	H	₽		(0,0)			(m/s)	L ,	(E)		<u>]</u>
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СТО	TIMES	· .	JD/TIME			70	DATA LOCATION	NO		REMARKS	· "	,	
TYPE & SN	9Plus 91660 DATA ON	NO A			Tape/Diskette ID	cette ID	File N	File Name/Header		JOS JANA ALACIA	JTA-C	2	330
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TEMP SN 1:	1: 889, 2: 701 AT DEPTH	ЕРТН					-			J.			)
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	<u>\</u>	PAR	FLUOR	(\o) Chiam	M/	TRANSMISSOMETER	SOMETER	Clean	Cleaned air bleed valve	ed valve			
POS. TRIP			D CONVER	CTD CONVERTED MONITOR VALUES	R VALUES			SAMPLE BOTTLE	OTTLE	SAMPI	SAMPLE BOTTLE NUMBER	E NUMB	ÆR
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	STA. NAME/ID		-	per :	74.		E 02		UMBER	WHIT'S NUTR.	<del>                                     </del>	125101	20/W	m 183	halm	201 M	101.04	7.1			38.	
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9	TIME (GMT)	Y J		Tape/Diskette ID		¥ ×	H DOWN		VALUES	EMP								5		18	0.	
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VESSEL NOAA Ship MILLER FREEMAN		2	10	9Plus 91660 DATA ON	29972 S	1: 889, 2: 701 AT DEPTH	2: 303 A			PRESSURE		,							5			
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VESSEL NOAA S	CONSC CAST #	Ç	>	TYP	PAĞ	TEM	CON		POS.		-	N	ო	4	2	ဖ	7	8	6	10	-	

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	СТР		TIMES	/Qr	JD/TIME		Z S	Q	DATA LOCATION	NOI		REMARKS	KS		
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<u>გ</u>	HE PE		]	CIO	ONVERTI	CTD CONVERTED MONITOR VALUES	3 VALUES			SAMP	SAMPLE BOTTLE		SAMPLE BOTTLE NUMBER	LE NUM	BER
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PG 25 OF

PROJECT & LEG   PROJECT & LE	STATION DESIGNATION	WET STATE BULB PE SEND WIND OF SPD. CLYPER BULB PE SEND OF SPD. CLYPER (°C) (mb)** (deg) (m/s)** (m)	20872	DATA LOCATION REMARKS	File Name/Header	CTD 02.5		SOMETER Cleaned air bleed valve	SAMPLE BOTTLE SAMPLE BOTTLE NUMBER DATA	SALINITY SAL. NUTR. CHL.					₩		
LONGITU LONGITU DEG MI START DOWN AT DEPTH AT SURFACE OPE OPE OPE	PROJECT & LEG	TIME  TOS (GMT)  MO YR HR MIN	18 APR 9 8 19 4 4-3.5		Tape/Diskette ID			FLUOR (10) CHIAM TRANSMISSOMETER	CONVERTED MONITOR VALUES	SEC. TEMP			9.		12		
	LLER FREEMAN	LATITUDE	.56 N 1 6 8 5 1		9Plus 91660 DATA ON	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE	×	**								

ONSECTIONS  CAST  ATTURE	VESSEL NOAA Ship MILLE	VESSEL NOAA Ship MILLER FREEMAN			-	ROJECT & LEG	LEG			35.	S	TATION	STATION DESIGNATION	MOITA		
NONITOR VALUES   SEC. TEMP								DRY		ETATS A		S (tms) QUO	A∃HTA:	MOTTC	ST	×.
Tape/Diskette ID File Name/Header REARS NOTE SEC. TEMP SALINITY SAL. NUTR.	<u>`</u> ≦ _	TITUDE	LONGI			-	<u>ق</u> ز	_		∃Sl	_	Cr Cr	ME	ЕРТН	NAM	E/10
DATA LOCATION  FEWARKS  Tape/Diskette ID  File Name/Header  Tape/Diskette ID  File Name/Header  C.T.DO.S.C.  WAX. DEPTH =  MAX. DEPTH =  SALINITY  SEC. TEMP  SEC. TEMP  SALINITY  SALINIT	2 %	TI C	20	NIIIA	A O	≥ p	£ U	(Ç)	(C) (C)	* 0	(deg) (r	1/s) L		(E) [	3	
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1: 480, 2: 303 AT SURFACE    MAX. DEPTH =   MAX. DE		889, 2: 701 A	\Т ОЕРТН			11						Ü	200 F.		75. Cas	D M S D L
PRESSURE PRI, TEMP. SEC, TEMP TRANSMISSOMETER   Valcaned air bleed valve & 5 w/s  CTD CONVERTED MONITOR VALUES  PRESSURE PRI, TEMP. SEC, TEMP SALINITY SAL, NUTR. CH.,  3.0  3.0		480, 2: 303 A	T SURFAC	<u>س</u>	y-				)   			Σ	X. DEP	11		E
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		PRESSU	膃	PRI. TE	≣MP.	SEC	TEMP	<i>7</i> S	YLINITY		SALINITY	<u> </u>		<u> </u>		WHIT'S VUTR.
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A	Ś		1: 480, 2: 303	AT SURFACE						 			Σ	X. DEP	TH=4	6	Ε
TRIP         CTD CONVERTED MONTOR VALUES         SAMPLE BOTTLE         SAMPLE BOTTLE NUM           DEPTH         PRESSURE         PRI. TEMP.         SEC. TEMP         SALINITY         SAL.         NUTR.         CHL.           1/2         /2         CHL.         CHL. <td></td> <td></td> <td>V</td> <td>/ PAR</td> <td><u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u></td> <td>UOR (IO)</td> <td>ChiAM</td> <td></td> <td>TRANSMIS</td> <td>SOMETER</td> <td>Š</td> <td>Seaned a</td> <td>ir bleed</td> <td>valve</td> <td></td> <td></td> <td></td>			V	/ PAR	<u>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </u>	UOR (IO)	ChiAM		TRANSMIS	SOMETER	Š	Seaned a	ir bleed	valve			
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3 of 6 Rules Bonds were to call to Inch.

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NOAA Ship MILLER FREEMAN	ER FREEMAN				I I I COLCO I WILL O	5			38		<u>a</u>	SIATION DESIGNATION	<u> </u>		
CONSC CAST #	LATITUDE	LONGITUDE		DATE JD=	0	TIME (GMT)	DRY	38USS386	SEA STATE		NIW CON	YPE  VEATHER  WEATHER  B C	ВОТТОМ	STA.	¥.0
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g CHO	Ē.	TIMES	JD/TIME	ME			ď	DATA LOCATION	VTION		<u>u.                                    </u>	REMARKS			
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TEMP SN 1:	1: 889, 2: 701 AT DEPTH	<sup>т</sup> D <b>ЕР</b> ТН									<u> </u>	00			
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VESSEL NOAA Ship MILLER FREEMAN	ER FREEMAN		α.	PROJECT & LEG	g.		23		STATIC	STATION DESIGNATION	NATION		
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	STATION DE	S WINCLOUD (amt)	* (s/m)	<b>Ω</b> γ	REW	वि	LA .		MAX	Cleaned air bleed valve		. SAL	5)										
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	PROJECT & LEG	DATE JD=\\C	Q	20112	ш				TO INC.	FLUOR(3)	CTD CONVERTED MONITOR VALUES										ı		
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	VESSEL NOAA Ship MILLER FREEMAN	LATITUDE	MIN	50111105		9Plus 91660 DATA ON	29972	1: 889, 2: 701 AT DEPTH	: 480, 2: 30	1		BRE .			_								
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δυ	CONSC CAST	LATITUDE	LONGITUDE	7. 17. 10. 10.	DATE JI	C/	TIME	DRY BILIB	38/085386 E E S &	SEA STATE  ∀TIJIBIZI	ONIW ONIW	COUD (amt) YPE REHTARY	BOTTOM		STA.
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	<u>2</u>	NiiN	DEG	MIN	DAY MO		H MIN	(၁၀)		<u>*</u>	(deb)			(E)		
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	DATE	W 2 & A	JD/TIME				\	FLUOR (3)	ONVER	PRI. TEMP.					:							
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VESSEL NOAA Ship MILLER FREEMAN	LATITUDE	1. POOFINIS EOFF13		9Plus 91660 DATA ON	29972	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE			<u>E</u>												
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VESSEL NOAA Shi	CONSC CAST # D	515	CTD	TYPE & SN	PRESS SN	TEMP SN	COND SN	,	POS.		1	2	3	4	2	9	7	- ω	თ	10	=	12
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CTD		D <del>H</del> G	NIIV	93	MIN		-	H Mil	(o <sub>c</sub> )	П	$\overline{}$		m/s) * *	-	<b> </b>	
Tape/Diskette ID   File Name/Header   Tape/Diskette ID   File Name/H	نڌ	253	22.19N	68 4	2.03	W 213 A	6	-0	7	3.60			000	April Milate II	7 3	
SS N   29972   START DOWN   Tape/Diskette   D   File Name/Header		СТБ		TIMES	9	TIME			0	ATA LOCA	TION		REM/	RKS		
SS SN 29972 START DOWN  SN 1: 889, 2: 701 AT DEPTH  DSN 1: 480, 2: 303 AT SURFACE  TRIP  TRIP  PRESSURE  P	TYPE		9Plus 91660	DATA ON				Tape/Disk	kette ID	File	Name/H	eader				
SN 1: 889, 2: 701 AT DEPTH   MAX. DEPTH   SL 170 AT DEPTH   SL 170 AT SUPFACE   MAX. DEPTH   SL 170 AT SUPFACE   MAX. DEPTH   SL 170 AT SUPFACE   MAX. DEPTH   SL 170 AT A	PRES	SS SN	29972	START DOV	     					5	2500				a m a man de qu'el c qu'el c que manuel man	
MAX. DEPTH = 3/10   MAX.	TEM		889, 2: 701	АТ ОЕРТН						   						1
TRIP TRIP TRIP TRIP TRIP TRANSMISSOMETER TRIP TRIP TRIP TRIP TO CONVERTED MONTOR VALUES  SAMPLE BOTTLE SAMPLE BOTTLE NUMR  DATA  SEC. TEMP SALINITY SALINITY OF TRIP TRIP TRIP TRIP TRIP TRIP TRIP TRIP	NO O O		480, 2: 303	AT SURFAC	Щ.	/	[						MAX	DEPTH =	310	٤
TRIP         CTD CONVERTED MONTOR VALUES         SAMPLE BOTTLE         SAMPLE BOTTLE NUM           21 C         PRI. TEMP.         SEC. TEMP         SALINITY         SAL.         NUTR.         CHL.           21 C         PRI. TEMP.         SEC. TEMP         SALINITY         SALINITY         SALINITY         CHL.           1 C         PRI. TEMP.         SEC. TEMP         SALINITY         SALINITY         CHL.         CHL.           2 I C         PRI. TEMP.         SEC. TEMP         SALINITY         SALINITY         CHL.         CHL.           1 C         PRI. TEMP.         SEC. TEMP         SALINITY         SALINITY         SALINITY         CHL.           1 C         PRI. TEMP.         SEC. TEMP         SALINITY         SALINITY         CHL.         CHL.				× PAR		FLUOR (3)	ChiA	Σ	TRANSMIS	SOMETER	<u>&gt;</u>	Cleaned	ir bleed v	lve		
PRESSURE PRI, TEMP. SEC, TEMP SALINITY SALINITY CHI.	POS.				СТВО	ONVERTE	O MONITOR	\ VALUES		,	SAN	APLE BOT DATA	<del></del>	MPLEBOT	TLE NUM	BER
310			PRESS	SURE	PRI.	TEMP.	SEC.	TEMP	SA	YTINIT		SALINITY	SAL		유	WHIT'S NUTR.
	-	310											(G			
	2														·	
	က							,								
	4									^	1					
8 9 10 11 12	5				•											
7         8         9         10         11         12	9				James L											
110	7		,													
11 12 12 13 14 15 15 15 15 15 15 15 15 15 15 15 15 15	8				•											
11 12	თ															
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15	-		-						,							
	12										<u></u>					

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PG 53 OF

WHIT's Ε NUTR. STA. NAME/ID ŧ 775 SAMPLE BOTTLE NUMBER ~ 0 00/ Rhos. BTil ful H 1 8 3 BOTTOM DEPTH MAX. DEPTH = STATION DESIGNATION Ξ SEPS. REMARKS W WEATHER

WEATHER Cleaned air bleed valve 47 SAL. \* (s/m) SAMPLE BOTTLE DATA WIND DIRN. SALINITY 230 (deg) File Name/Header SEA STATE
VISIBILITY CTD053 DATA LOCATION (mb) 3.995 TRANSMISSOMETER WET BULB ပ္ပ SALINITY <u>ت</u> 0-Tape/Diskette ID PR√ BUB ပ္ပ ¥ WE 981739 TIME (GMT) CTD CONVERTED MONITOR VALUES SEC. TEMP PROJECT & LEG CHIAM DATE JD= 113 § 3 N 1 68 46.45 W 23 APR DAY FLUOR JD/TIME PRI. TEMP. LONGITUDE Z 29972 START DOWN COND SN 1: 480, 2: 303 AT SUBFACE MPAR 1: 889, 2: 701 AT DEPTH 9Plus 91660 DATA ON 9 TIMES PRESSURE NOAA Ship MILLER FREEMAN LATITUDE 05353263 Z Z TRIP DEPTH 1003 500 9 250 001 <u>Q</u> 150 20 0 و S TYPE & SN 0 **TEMP SN** CTO PRESS SN CONSC VESSEL POS 7 10 က Ŋ 9 ω O 7

VESSEL			H.	PROJECT & LEG	5				STA	TION DES	STATION DESIGNATION		2
NOAA Ship MILLER FREEMAN	ER FREEMAN		<u> </u>	į				ļ			7		
CONSC CAST	LATITUDE	LONGITUDE	DATE JE	JD=114	TIME (GMT)	DRY	WET WET	SEA STATE VISIBILITY	WIND WIND	CLOUD (amt)	WEATHER ВОТТОМ DEPTH		STA. NAME/ID
DEG	MIN DEG	NIIV	DAY N	W AN	NIM H	(၁့)	(°C)	-		*	1 1	$\square$	
5553	55330.80 N 16855-1	W + 1 - 50	A HEM +	PR 98	9440	9	4.59538		205	7561	18281	I	10
СТО	TIMES	JD/TIME	IME			Δ	DATA LOCATION	NOI		REMARKS	SX.		
TYPE & SN	9Plus 91660 DATA ON	7			Tape/Diskette ID	ette ID	File	File Name/Header	der		;		
PRESS SN	29972 START DOWN	OWN		7.	**		1	C-13055					
TEMP SN 1:	1: 889, 2: 701 AT DEPTH	_		8.03	, =		8 9						
COND SN 1:	1: 480, 2: 303 AT SURFACE	ACE		= [	08 1		2			MAX.	MAX. DEPTH =	1503	٤
	PAR	00000	FLUOR	ChIAM		TRANSMISSOMETER	SOMETER	<u>5</u>	Cleaned air bleed valve	leed val	e A		
POS. TRIP DEPTH		OTD CO	NVERTED	CTD CONVERTED MONITOR VALUES	VALUES			SAMP	SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	TLE NUM	BER
(A)	PRESSURE	PRI. TEMP	MP.	SEC. TEMP	EMP	SAI	SALINITY	88	SALINITY	SAL.	NGTR.	a A	WHIT'S
1 1502						48				55		T	N/331
2 500									:				M232
3 300												X	M233
4 200													M234
5 100													M235
6	43												M236
7 20									36				M237
8													M238
6													
10													
11													
12		53				ļ							

	STA. NAME/ID	1-1				:	E		BER	WHIT'S NUTR.	N 239	M 240	1/22 W	A4 242	1 2 %3	44 24W	N 245	N 246	-			
		<b>1</b>					(F)		TLE NUN	분											:	-
SNATION	BOTTOM DEPTH (m)	1828	တ္သ				EPTH =		SAMPLE BOTTLE NUMBER	N T.D.												
STATION DESIGNATION	* CLOUD (amt)  * TYPE  * WEATHER	661	REMARKS			,	MAX. DEPTH	Cleaned air bleed valve	SAM	SAL.	N	10.00										
STATIC	WiND SPD. (m/s)	0				1	1	d air ble	отте.	>												
	WIND DIRN (deg)	1		leader	5	-		Ćleane	SAMPLE BOTTLE DATA	SALINITY												
	PPESSURE  SEA STATE  VISIBILITY  VISIBILITY	51	NOL	File Name/Header	CABORA				SS		,											
	WET (C)	4.595	DATA LOCATION	File	5			AETER		, <u>\</u>		20*										
	· · · · · · · · · · · · · · · · · · ·	0	DATA	_				TRANSMISSOMETER		SALINITY							i					
	DRY BULB			skette	a	. =		TRAN		<u> </u>									-			
ဖွ	TIME (GMT)	1010		Tape/Diskette ID			111		VALUES	EMP												
PROJECT & LEG	M NR NR	8		•			. [	ChIAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP												
PROJE		APA		,					TED MC						+							
]	DATE	× ×	JD/TIME					FLUOR	CONVE	PRI. TEMP.												
:	LONGITUDE	3.6	<u> </u>		Į ¥		ا ا ا بب	-	CTO	PRI								า	13.Z			
	LONG	060	TIMES	TAON	ART DOV	DEPTH	SURFAC	PAR		101												
- WAN		Z (	Ē	660 DA	29972 START DOWN	701 AT	303 AT			PRESSURE												
ER FREE	LATITUDE	λυ ∞		9Plus 91660 DATA ON	299	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE			Δ.												
VESSEL NOAA Ship MILLER FREEMAN	<u> </u>	565335683N16903.61Way	CTD		NS NS			-	TRIP		1500:	500	300	ಂದ	00	S.	20	0				
VESSEL NOAA S	CONSC CAST #	N 3	ပ်	TYPE & SN	PRESS SN	TEMP SN	COND SN		S)		-	2	6	4	2	9	7	ω	6	10	-	12

7	M STA.	3 42-	0.0				1500 m		SAMPLE BOTTLE NUMBER	WHIT'S		842 W	642 W	MESO	152 ×		M 253	W 254		_	
STATION DESIGNATION	медтней Воттом Вертн	(m)	RKS				MAX. DEPTH =		MPLE BOT	NGTB.											
JON DE	CLOUD (amt)	36	REMARKS				MAX	leed va	<i>t</i> s	SAL	0						 				
STAT		(m/s)				l	I	ed air b	OTTLE	<u></u>						<u>.</u>	15				
	10 00	(deg)		leader			A	Cleaned air bleed valve	SAMPLE BOTTLE DATA	SALINITY											
!	SEA STATE VISIBILITY	(mb) 9 4 2 7	NOI	File Name/Header	CTDOS7				SS							<u> </u>			1 4	l	
£	W	(°C) (m	DATA LOCATION	File I	1 L			ETER .		≽		e e						W			
		M	DATA	۵			ô	TRANSMISSOMETER	=	SALINITY											
	-	(c) \( \frac{1}{2} \)		kette I			. 0	TRANS													
	TIME (GMT)	A MIN		Tape/Diskette ID			į		ALUES	MP									۸		
ROJECT & LEG		¥ 6 6		<u>F</u>			W.	CHIAM	ITOR V	SEC. TEMP		i				¥1					
PROJEC				=					ED MON	Þ			III							-	
	DATE	WayARR	JD/TIME					FLUOR	CTD CONVERTED MONITOR VALUES	EMP.											
		100000	Jac			1 5			CTDC	PRI. TEMP											
	LONGITUDE	DEG MIN		NO	START DOWN	РТН	RFACE	PAR									.4				
<u>z</u>			TIMES	DATA		ATDE	AT SU			PRESSURE					31						
		75346.72N		9Plus 91660 DATA ON	29972	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE			PAES					=						
2 2 1	LATITUDE	4 O		9Plu		1: 889	1: 480		. H				C	0	d	Ö		_			_
VESSEL NILLER ERFEMAN	ST ST		СТБ	TYPE & SN	PRESS SN	TEMP SN	COND SN		TAIP DEPTH		1500	500	300	300	100	20	707	0			
VESSEL	CONSC CAST #	- 1		ΤΥΡ	PRE	TEM	00		POS.		-	7	က	4	ĸ	9	7	ω	6		10

									*						
VESSEL NOAA SI	JID MILLE	VESSEL NOAA Ship MILLER FREEMAN			<u>a</u> :-	PROJECT & LEG	<u>ත</u>				STATI	STATION DESIGNATION	NATION		
CONSC	-	ATITLIDE	E	<u>и</u> <u>С</u>	Н С		TIME	ORY	ESSONEE E C E C E C	EA STATE ISIBILITY S & S	<del>                                     </del>	LOUD (amt) 397Y FATHER	BOTTOM		STA.
	920		DEG	MIN	DAY		H WIN	(C)	1	s .	(m/s)	) ·	(m)	NAN	NAME/ID
7	540	N C8. 10 75	169 34	34.20W24	V24A	APROB	1324	0.7	2.993	2		36	D 2 2 P	43	-
СТБ	٥		TIMES	JD/	JD/TIME			ď	DATA LOCATION	NOI		REMARKS	s		
TYPE & SN		9Plus 91660 DATA ON	ATA ON				Tape/Diskette ID	ette ID	File	File Name/Header					
PRESS SN	Z.	29972 S	29972 START DOWN	₹		A II II	36	=	CTDO	Der 2					
TEMP SI	3:1: 2	TEMP SN 1: 889, 2: 701 AT DEPTH	T DEPTH	y IN	38		=	s sn iii			1 =				
COND SN		1: 480, 2: 303 AT SURFACE	T SURFACE	118	- 1	A	=		=	S		MAX. DEPTH =	PTH =	1500	E
		ШО	PAR		FLUOR	ChIAM		TRANSMISSOMETER	SOMETER	Clean	Cleaned air bleed valve	ed valve			
POS	TRIP DEPTH		]	CTD	ONVERTE	CTD CONVERTED MONITOR VALUES	VALUES			SAMPLE BOTTLE DATA	BOTTLE 'A	SAMP	SAMPLE BOTTLE NUMBER	E NUMB	E
	•	PRESSURE	 	PRI. TEMP	EMP.	SEC.	SEC. TEMP	l se	SALINITY	SALINITY	È	NAS.		> =	WHIT'S
1	200						8					59	-		M255
2	500														757W
က	300														MIST
4	200												:		M758
'n	600														M759
9	20													~	MUBO
7	20		Œ												9211
8	0						î								M262
6										-					
10															
<del>-</del>	1					1,									
12	7													ă:	
		/													

VESSEL				ă.	<u>-</u>	ROJECT & LEG	LEG	19			STATI	ON DESK	STATION DESIGNATION		
NOAA Shi	P MILLER	NOAA Ship MILLER FREEMAN						_		:E.					
CONSC CAST	LATITUDE	ш ОО	HONGITUDE	= EQ.2	DATE	# # # # # # # # # # # # # # # # # # #	TIME	DRY.	E SSURE	SEA STATE	QNIM QI	YPE YPE VEATHER	BOTTOM		STA.
	DEG MIN	z	) DEG	NM			1	(°C)		۸ .		I .		+	
59	07 45	20.09 N	16948.36W24	.3 6 N	44.00	AP 29.8	1620	3.0	2.792			298	191	4 9	1-16
СТБ	-	4 -	TIMES	JD/	JD/TIME			à	DATA LOCATION	NOI		REMARKS	S		
TYPE & SN		9Plus 91660 DATA ON	DATA ON			-	Tape/Diskette ID	cette ID	File N	File Name/Header	<u>_</u>			_,	
PRESS SN	フ	29972	START DOWN	·					2	CT 505 9					
TEMP SN		1: 889, 2: 701 AT DEPTH	АТ ОЕРТН	Ш	5				52		05 				
COND SN		), 2: 303	1: 480, 2: 303 AT SURFACE				W (%)				1	MAX. DEPTH	EPTH =	15	mc05
			PAR		RUOR	ChiAM	M	TRANSMISSOMETER	SOMETER	Clea	Cleaned air bleed valve	eed valv	0		
POS. T	TRIP DEPTH			CTDCC	NVERTE	CTD CONVERTED MONITOR VALUES	R VALUES			SAMPLE BO DATA	SAMPLE BOTTLE DATA	SAM	SAMPLE BOTTLE NUMBER	LE NUMI	BER
									5						
		PRESSURE	2	PRI. TEMP	:MP.	SEC	SEC, TEMP	SA	SALINITY	SALINITY	, ∑Ti	SAL.	NCTR.	CH.	WHIT'S NUTR.
-	1500											74			M263
2 5	S00													,	ANZ GL
8	300									>					₹    }
4	200		į.			800									M Clar
5	00														Mile
9	50											Ú.			MUS
7	20				20										MW9
80	٥								Ø,						MZJO
6															
10															
-	$\frac{1}{1}$													87	
12		T 1									: 			1	
														l	

	STA. NAME/ID		2 - 1				i   	E		BER	WHIT'S NUTR.												
		$\vdash \vdash$	5 H S		REA			84		SAMPLE BOTTLE NUMBER	꿈	<del> </del>						<del></del>					়
NATION	BOTTOM DEPTH	(E)	1735	Ø		Q		PTH =		LEBOTT	NCTR.											-	
STATION DESIGNATION	CLOUD (amt) TYPE WEATHER	1.1	<b>ે</b> જ	REMARKS	Maken Jan RI	,		MAX. DEPTH	Cleaned air bleed valve	SAMP	SAL.												
SТАТІО	WIND SPD.	1 -	ار ا	,	-1		1		air ble	TTLE	<u> </u>												
	WIND DIRN.	(deg)	010		ader	0			Cleaned	SAMPLE BOTTLE DATA	SALINITY												
	SEA STATE VISIBILITY	*	5	NO	File Name/Header	CTOOLO				SAN													
	BBESSABE End	,	3.693	DATA LOCATION	File N	5			ETER		≽							-			,		
	WET	-		DATA	۵				TRANSMISSOMETER		SALINITY											4	
	DRY BULB		9		skette T				TRANS										,	,			
(5	TIME (GMT)	NIW E	2029	4	Tape/Diskette ID	,			,	ALUES	EMP.												
ROJECT & LEG	1	Œ	9 8		<u> </u>			L	ChIAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP												
PROJE	JD=	QV	APR							TED MC													
	DATE	DAY	2.32W24A	JD/TIME					FLUOR	CONVER	PRI. TEMP.								:				
	LONGITUDE		33	<u>ਜ</u>		  }		ا ا		CTD	<u>P</u>												
	LONG	55		ES	TA ON	START DOWN	DEPTH	SURFAC	V PAR	33													
MAN —			Z	TIMES	660 DA	29972 ST/	701 AT	303 AT			PRESSURE										<i>*</i>		
ER FREE	LATITUDE		0.0		9Plus 91660 DATA ON	299	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE			۵											; .	
VESSEL NOAA Ship MILLER FREEMAN		55	0605440.09 N 169	CTD		SN				TRIP		0	r	13	(d	31	48			-			
VESSEL NOAA S	CONSC CAST #		000	ပ်	TYPE & SN	PRESS SN	TEMP SN	COND SN		POS.		-	2	დ	4	S	9	7	8	6	10	-	12

VESSEL					٩	PROJECT & LEG	9				STATIC	ON DESIG	STATION DESIGNATION		E 33
NOAA	Ship MILLI	NOAA Ship MILLER FREEMAN			1		i			W.	141				
CONSC CAST #	že.	LATITUDE	LONGITUDE	TUDE	DATE	H/1=0r	TIME (GMT)	DRY BULB	WET WET BUSSIE	SEA STATE  VISIBILITY  SEA	WIND SPD.	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH		STA. NAME/ID
	<u> </u>	MIN	DEG	MIN	DAY	MO AY	NEW EFF	(a,C)	()°C)	.*	(m/s)	*	1 1		
9	544	15440.28N1691	11691	1.39 W24 A	A 16	PR 98	KEIE	0	3.7933	104	517	698	1704	h	5-2
	СТБ		TIMES	JD/TIME	IME			7 <b>0</b>	DATA LOCATION	NOI		REMARKS	S)		
TYPE & SN		9Plus 91660 DATA ON	DATA ON	7		9	Tape/Diskette ID	ette ID	File I	File Name/Header				9	
PRESS SN	NS	29972	START DOWN	2				12	5	900 CT					
TEMP SN		1: 889, 2: 701 AT DEPTH	AT DEPTH	#							1				
COND SN		1: 480, 2: 303 AT SURFACE	AT SURFACI	Ш						\	I	MAX. DEPTH	EPTH =	1500	E 00
			PAR	<u></u>	FLUOR	CHIAM	<u> </u>	TRANSMISSOMETER	SOMETER	Clean	Cleaned air bleed valve	ed valv	   		
POS.	TRIP DEPTH	7		CTD	NVERTE	CTD CONVERTED MONITOR VALUES	VALUES			SAMPLE BOTTLE DATA	SOTTLE A	SAM	SAMPLE BOTTLE NUMBER	LE NUM	BER
		PRESSURE	URE	PRI. TEMP.	MP.	SEC. TEMP	EMP	SAI	SALINITY	SALINITY		SAL.	NCTR.	SH.	WHIT'S
-	1500														M271
7	500											W.			M272
က	300											H/		,	M273
4	200														MZZW
2	100													Z	275
9	50														MUSIC
7	20														MICI
8	0					12.			3						MILLIA
6															
10		USE.													
=						rš									
12			Ш												

VESSEL NOAA Ship MILLER FREEMAN	ER FREEMAN			PROJECT & LEG	<u></u>			\$9	STA	STATION DESIGNATION	IGNATION	_	
CONSC CAST #	ATITUDE	LONGITUDE	DATE	JD= 115	TIME (GMT)	DRY	B WET BUILDE	SEA STATE VISIBILITY	WIND WIND DIRN. SPD.	CLOUD (amt)	BOTTOM		STA. NAME/ID
DEG 9 0	DEG MIN DEG MIN DAY MO	MM I	N DAY	- I	H O	-	/-	, rl	Jeg) (r		(E) (C)		
СТО	TIMES	S	JD/TIME			Ad	DATA LOCATION	=	)		ď.		9
TYPE & SN 9	9Plus 91660 DATA ON	NO			Tape/Diskette ID	atte ID	File N	File Name/Header	ıder				
PRESS SN	29972 STAF	START DOWN	· 1				5	CTDOLES	أس				F - 10 MIN + 10 Laborator > 10 Labor
TEMP SN 1:	1: 889, 2: 701 AT DEPTH	ЕРТН										Principality of the state of th	
COND SN 1:	1: 480, 2: 303 AT SURFACE	JRFACE	[							MAX. DEPTH	EPTH =	75	m 00%
		PAR ,	PLUOR	Chiam		TRANSMISSOMETER	OMETER	\ <u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>	Cleaned air bleed valve	bleed valv	9		
POS. TRIP DEPTH		СП	D CONVERT	CTD CONVERTED MONITOR VALUES	VALUES			SAMP	SAMPLE BOTTLE DATA	<del></del>	SAMPLE BOTTLE NUMBER	TLE NUN	BER
	PRESSURE	ă.	PRI. TEMP.	SEC.	SEC. TEMP	SAL	SALINITY	Š	SALINITY	SAL.	NGTR.	CHL.	WHIT'S NUTR
1 500										35			MIZIA
2 500													082W
3 300				-									18CH
4 000						i							A1287
5 100				3¥									M283
6 50					9								M28L
7													M286
О «													W 280
ō													
10					-								
12				-						100 miles		-	

			<u> </u>		EG.				STATIO	CICION	STATION DESIGNATION		
hip MILLE	NOAA Ship MILLER FREEMAN												
CONSC CAST # LATI	LATITUDE	LONGITUDE	DATE	Z//=0f	TIME (GMT)	DRY BULB	WET BURSER	SEA STATE VISIBILITY O W	WIND SPD.	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH		STA. NAME/ID
DEG	MIN DEG	NIIN	DAY	M A	H WIN	(၁့)	1	*	(m/s)		(m)	-	
0635506.75N	C891N3F.	29.06 W25APR	10	P. R. 9 8	0348	2	9 4	37040	9	863	2339	H H	1 - 1
СТБ	TIMES	Nac	JD/TIME			۵	DATA LOCATION	NO	-	REMARKS	တ္သ		
TYPE & SN 9P	9Plus 91660 DATA ON	Z			Tape/Diskette ID	kette ID	File	File Name/Header	,				<u></u>
PRESS SN	29972 START DOWN	NWOC											
TEMP SN 1: 86	1: 889, 2: 701 AT DEPTH	H									603		
COND SN 1: 48	1: 480, 2: 303 AT SURFACE	-ACE							!	MAX. DEPTH =	EPTH =	18 C	Ε
	PAR		FLUOP	Ch!AM	Σ	TRANSMISSOMETER	SOMETER	Cleaned air bleed valve	d air ble	ed valve			
TAIP DEPTH		СТВСС	NVERTE	CTD CONVERTED MONITOR VALUES	3 VALUES			SAMPLE BOTTLE DATA	OTTLE	SAME	SAMPLE BOTTLE NUMBER	LE NUME	3ER
	PRESSURE	PRI. TEMP.	MP.	SEC.	SEC. TEMP	SA	SALINITY	SALINITY	≥	SAL.	NCTR.	SH.	WHIT'S NUTR.
1500	-												M 287
500										22			M288
300													M 289
000			. `										MZGC
00													MIR
N O													MIGH
C													M7.91
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VESSEL			PROJECT & LEG	EG	_			STATION	STATION DESIGNATION	NOITAN		
NOAA Ship MI	NOAA Ship MILLER FREEMAN		380			İ	81					
CONSC CAST #	LATITUDE	LONGITUDE	DATE JD=\\S	TIME (GMT)	DRY BULB	¥ W ET ∃#USS∃#4	SEA STATE  YTIJIBILITY  S S S S S S S S S S S S S S S S S S S	MIND CAS	CLOUD (amt) YPPE WEATHER	BOTTOM		STA.
DEG	MIN DEG	= 1	DAY MO YR	NIM H			(deg)		-	(m)		j
55490	21.92N168	3 13.3 2 Wash	SEATR 98	1124	7 5	3.305	₩ ₩	173	16	962	8 5	3-1
СТД	TIMES	JD/TIME	ΛΕ		DA	DATA LOCATION	NC	<u>æ</u>	REMARKS			ų.
TYPE & SN	9Plus 91660 DATA ON	NC		Tape/Diskette ID	itte ID	File K	File Name/Header					
PRESS SN	29972 START DOWN	DOWN			8	CIBOLI	190	<u> </u>				
TEMP SN	1: 889, 2: 701 AT DEPTH	TH										
COND SN	1: 480, 2: 303 AT SURFACE	RACE		1 3				≥	MAX. DEPTH	PTH =	20	E
	YAAR	AR RUOR	OR	85	TRANSMISSOMETER	OMETER	Cleaned air bleed valve	air blee	d valve		)	
POS. TRIP DEPTH	<del>-</del>	CTD CON	CTD CONVERTED MONITOR VALUES	3 VALUES	-		SAMPLE BOTTLE DATA	HE HE	SAMPL	SAMPLE BOTTLE NUMBER	E NUME	EB.
	PRESSURE	PRI. TEMP.		SEC. TEMP	SAL	SALINITY	SALINITY	<u> </u>	SAL.	Z Z Z	3	WHIT'S
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3 300									,	549		662 W
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9 30				× 1		3			)	600	7	M 303
10 20									250	600	7	M 304
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12 0	bucket		33					<del></del>	<del>-</del>	1057	7	305 m
	40											

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	STA. NAME/ID	-	53				E		EH.	WHIT'S	M307	308	30%	210	311	312	313	319	35	316	317	
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NATION	ВОТТОМ DEPTH	(m)					PTH =		SAMPLE BOTTLE NUMBER	<u> </u>	635	(27	623	22 9	621	079	ي وي		317	617	607	
STATION DESIGNATION	CLOUD (amt) TYPE WEATHER		REMARKS				MAX. DEPTH	Cleaned air bleed valve	SAMP	SAL.	Η.									)	3	
STATION	WIND ON SPD. CI	* (s/m)	+-	<del></del>	253	<u> </u>	2	air blee	퀴	18												
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	DRY BULB	ပ္စ္ပ	×	ette ID				TRANSIV														
	TIME (GMT)	H C		Tape/Diskette ID				#	LUES	<u>_</u>												
r & LEG	ญ	¥ 6 8 8	,	Ta	C At	<u> </u>		ChIAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP			Ř									
PROJECT & LEG	/\=dr	O O							NOW CI	- 0)							24					
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	LONGITUDE	MIN -		NO	NMOQ.	HT	FACE	AR.				VA.								_		-
— z		9 <u> </u>	TIMES	DATA	29972 START DOWN	AT DE	ATSUE	YPAR	<i>W</i> -	PRESSURE			8			!						
REEMA	JOE	1 C I		9Plus 91660 DATA ON	29972	, 2: 701	1: 480, 2: 303 AT SURFACE			PRES												
AILLER F	`≦_	MIN MIN		9Plu:		1: 889, 2: 701 AT DEPTH	1: 480,		<u> </u>		0	0	0	0	<u> </u>		0	0				
VESSEL NOAA Ship MILLER FREEMAN	ST	6 < 5 ≤ 2 2 . 1 3 N 1 6 8 1 0 . 7 3 W 2 5	СТБ	TYPE & SN	PRESS SN	TEMP SN	COND SN		DEPTH	=	500	300	200	100	75	95	04	30	20	0	0	
VESSEL NOAA S	CONSC CAST #	9		T≺P	PRE	TEM	Ś		S.		-	7	က	4	3	ဖ	^	ω	െ	위	=	12

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VESSEL	žĒL ŠĒL			•	PR	ROJECT & LEG	<u> </u>				ST	ATION DE	STATION DESIGNATION	_	
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CONSC CAST #		ATITUDE	EONGITION	35	DATE	<b>X</b>	TIME	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	E SENDE	SEA STATE YTUBISI	WIND WIND	WIND (amt)	уеатнея Воттом		STA.
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TEMP SN		1: 889, 2: 701 AT DEPTH	ТОЕРТН			3, 111						Ta			
NO CO	COND SN 1:	1: 480, 2: 303 AT SURFACE	TSURFACE				ı					MAX.	MAX. DEPTH =	21	E
			PAR		VALUOR (3)	ChlAM	₩ 1 - -	TRANSMISSOMETER	SOMETER		Cleaned air bleed valve	bleed va	lve		
POS.	TRIP			CTD CO	VERTED	CTD CONVERTED MONITOR VALUES	VALUES			SAM	SAMPLE BOTTLE DATA	ļ	SAMPLE BOTTLE NUMBER	TLE NUN	BER
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VESSEL NOAA Ship MILLER FREEMAN	ER FREEMAN			PR	PROJECT & LEG	EG			to:	0)	STATION	STATION DESIGNATION	ATION		
CONSC CAST #	100	ONG	UDE	= 50	2/1=dr	TIME (GMT)	DRY	W W FI GI 3RUSS3R9	SEA STATE VISIBILITY	WIND V	SPD. CLOUD (amt)	CLOUD (amt) WEATHER	ВОТТОМ DEPTH	STA. NAME/ID	A. E/ID
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o 115.5	015533.04N	116171415117191W12151A	W 2		0 0 8	Q h S:1	2	13.12	0747	0			W 20	3	
		IMES	JU/IIME	TI L	11	7894		DATA LOCATION	TON TON		<u>æ</u>	REMARKS			
_		NO A I				Tape/Diskette ID	cette ID	E E	File Name/Header	ader					j
PRESS SN	29972 ST	START DOWN	z			62			<7000T>						
TEMP SN 1:	1: 889, 2: 701 AT DEPTH	. ОЕРТН		1	8	52		,				22			
COND SN 1:	1: 480, 2: 303 AT SURFACE	SURFACE									È	MAX. DEPTH =	H= H	120	٤
		W PAR	2	FLUOR (3)	ChIAM	5	TRANSMIS	TRANSMISSOMETER	2	Cleaned air bleed valve	air bleed	valve			
POS. TRIP DEPTH	TI .	W	СТВ СО	NVERTED	CTD CONVERTED MONITOR VALUES	VALUES			SAN	SAMPLE BOTTLE DATA	<u> </u>	SAMPLE	ВОТТ	SAMPLE BOTTLE NUMBER	e:
	PRESSURE	ш	PRI. TEMP	MP.	SEC.	SEC. TEMP	, A⊗	SALINITY	65	SALINITY		IN IN	all in	≥ Z	WHIT'S
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2 75									! !					E	M 330
3 50		2			5				22					K	M 331
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5			e.				M.							*	333
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LONGITUDE   DATE JD=1/15   CMT)   DAY   WET   CMT
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iskette ID File Name/Header  CTD 069  MAX. DEPTH = 13  TRANSMISSOMETER  SAMPLE BOTTLE  SALINITY
iskette ID File Name/Header  CTD 069  MAX. DEPTH = 13  MAX. DEPTH = 13  SAMPLE BOTTLE SAMPLE BOTTLE NUM DATA  SALINITY SALINITY SAL. NUTR. CHL.
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		5		BIL		7		T E NUN	불	7											,
NATION	ВОТТОМ DEPTH	(m)	ι Ω	Eho-		PTH =		SAMPLE BOTTLE NUMBER	S. E. E.												
STATION DESIGNATION	CLOUD (amt) TYPE WEATHER	· 0	REMARKS	ton R		MAX. DEPTH	Cleaned air bleed valve	SAMP	SAL.												
STATIO	WIND SPD.	(s/m)		17	<u> </u>	~	air ble	<b>3</b> E								<u> </u>					
100	WIND DIRN.	(deg)		ader			Sleaned	SAMPLE BOTTLE DATA	SALINITY		=:		-				10	(4)			
9	SEA STATE VISIBILITY	. 4	NC	File Name/Header	CT D010			SAM													
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a.	DRY BULB	(0) (0) (0)		ette ID			TRANSMISSOMETER														
	TIME (GMT)	W W		Tape/Diskette ID				LUES	<u>П</u>												
r & LEG	Ŋ	£ 5 8 6		⊢ a			ChIAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP				***								
ROJECT & LEG	- >	A P A		À				ED MON	G)										:		
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VESSEL NOAA Ship MILLER FREEMAN	ž_	705546.1		9Plus	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE		, I			10									<u> </u> 	=
SEL A Ship M	37 E	0 5 S	CTD	TYPE & SN		COND SN		TRIP		54	35	25,	ブー	<b>∞</b>	0						
VESSEL NOAA S	CONSC CAST #	7		TYP!	TEM	00		POS			Ŋ	က	4	2	မ	7	80	თ	0	-	12

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			4 5	Ç.				75		TLENUN		吊												
NATION		DEPTH (m)		Si		i.	!	= HTH=		SAMPLE BOTTLE NUMBER		5					50							
STATION DESIGNATION	(tms) QU	* CLC	4	REMARKS		[		MAX. DEPTH	Cleaned air bleed valve	SAMF		SAL.												
STATIC	9	SPD. (m/s)				<del>'</del>			d air ble	TTLE		<u></u>												•
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	ē <u>s</u> =	DATE	16654.05WaSAP	JD/TIME		=		01	FLUOR(3)	CONVER		PRI. TEMP.					24						į	
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_ N				TIMES	SEO DAT	72 STA	701 ATE	303 AT S		J		PRESSURE											1	
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VESSEL NOAA Shib MIII ED EDEEMAN		DEG	555	<u>م</u>		Z				TRIP DEPTH	<u>-</u> -		130	00	75	50	0	20	0 1	0				-
VESSEL NOAA SP	CONSC	<del> </del>	11	СТБ	TYPE & SN	PRESS SN	TEMP SN	COND SN		Pos.	l 		-	2	က	4	2	9	7	∞	თ	10		

	STA. NAME/ID	2	FOT RHO		,	٤		BER	WHIT'S NUTR.											
			107			51	ļ	SAMPLE BOTTLE NUMBER	꿈											
NATION	BOTTOM DEPTH (m)		23			:PTH =		LE BOT	NCTR.	-			·							
STATION DESIGNATION	* CLOUD (amt)	] ਨੂੰ	Progr			MAX. DEPTH =	Cleaned air bleed valve	SAME	SAL.											
STATIC	WIND SPD.	2					d air ble	TTLE	<b>&gt;</b>				<u> </u>					Ì		
	WIND DIRN. (deg)	5	eader	7			Cleaned	SAMPLE BOTTLE DATA	SALINITY											
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	DAY DAY	JD/TIME				}	FLUOR (3)	CONVER	PRI. TEMP.									į		
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VESSEL NOAA Ship MILLER FREEMAN	DEG S	CFD		NS				TRIP		3.0	20	4	do	5	0					
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VESSEL NOAA Ship MILLER FREEMAN	MAN	;	OR .	ROJECT & LEG	U			*	ST	ATION DE	STATION DESIGNATION	Z	
LATITUDE	LONG	LONGITUDE	DATE JD:	م) ( =Qf	TIME (GMT)	DRY	WET SOUR	SEA STATE YTUIBIEIV	WIND WI	S WIND (amt)	WEATHER BOTTOM DEPTH		STA.
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TEMP SN 1: 889, 2:	1: 889, 2: 701 AT DEPTH				and indus	N as							
COND SN 1: 480, 2:	1: 480, 2: 303 AT SURFACE	Ж [	25-41111		3 = 3					MAX.	MAX. DEPTH =		E
	V PAR	<u>了</u>	îUOR (3)	ChIAM		TRANSMISSOMETER	SOMETER		Cleaned air bleed valve	bleed va	v		
TRIP DEPTH	=	CTD CON	CTD CONVERTED MONITOR VALUES	AONITOR	/ALUES			SAM	SAMPLE BOTTLE DATA	<u> </u>	SAMPLE BOTTLE NUMBER	TENUN	BER
<u>~</u>	PRESSURE	PRI. TEMP	⊩	SEC. TEMP	EMP	SAI	SALINITY	0)	SALINITY	SAL	NGT.	몽	WHIT'S NCTR.
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	STA. NAME/ID					٤		/BER	WHIT'S NUTR.	438g	M 370	MSM	M 372	M373	M374	Masss	M376	M377			
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NATION	BOTTOM DEPTH (m)	တ္သ				EPTH ≂	•	SAMPLE BOTTLE NUMBER	NUTR		776	344	北上	713		246	145	770			
STATION DESIGNATION	CLOUD (amt)	REMARKS		,		MAX. DEPTH =	Cleaned air bleed valve	SAME		90											
STATIC	WIND SPD. (m/s)		,				d air ble	TTLE	<b>&gt;</b>												
	WIND DIRN. (deg)		eader				Cleaned	SAMPLE BOTTLE DATA	SALINITY								4				
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PROJECT & LEG	9 ₹ 8		<b>-</b>	<u>-</u>	•	$\dashv$	ChlAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP												
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	SITUDE MIN C.T.	9	ı	 z	ļ			о <u>п</u> о	<u>.</u>												
	LONGITUDE G MIN	S	NO A	AT DOW	EPTH	URFACE	PAR	}	<u> </u>				-	_						1	
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VESSEL NOAA Ship MILLER FREEMAN	MIN S		9Plus 91660 DATA ON	2997	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE			Œ												
MILLER	LATI N N							TRIP DEPTH		it	00	77	50	0	C C	00	9	C		1	
VESSEL NOAA Ship	SNSC AST #	СТБ	TYPE & SN	PRESS SN	TEMP SN	COND SN				F11 -	4	3		-	9		8	6	10	=	12
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	DOWER BOTTOM STA.	(a) (b) (c) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d				1111		MAX. DEPTH = 125 m	PTH = 125	MAX. DEPTH = 125	MAX. DEPTH = 125  leed valve  SAMPLE BOTTLE NUMBER  SAL. NUTR. CHL. NUT	MAX. DEPTH = 18  leed valve  SAMPLE BOTTLE NUM  SAL. NUTR. CHL.	MAX. DEPTH = 13  leed valve  SAMPLE BOTTLE NUM  SAL. NUTR. CHL.  1.9 784	MAX. DEPTH = 13  leed valve  SAMPLE BOTTLE NUM  SAL. NUTR. CHL.  19 784   19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MAX. DEPTH = 18  leed valve  SAMPLE BOTTLE NUM  SAL. NUTR. CHL.  10. 784  1282	MAX. DEPTH = 13  Ideed valve  SAL. NUTR. CHL.  19. 784  19. 787  780  780  780	MAX. DEPTH = 18  leed valve  SAMPLE BOTTLE NUM  SAMPLE BOTTLE NUM  SAMPLE BOTTLE NUM  TRU  TRU  TRU  TRU  TRU  TRU  TRU  T	SAL. NUTR. CHL.  SAL. NUTR. CHL.  SAL. NUTR. CHL.  ART  ART  ART  ART  ART  ART  ART  AR	MAX. DEPTH = 13  Ideed valve  SAL. NUTR. CHL.  19. 787  780  780  780  780  780  780  780	MAX. DEPTH = 18    SAL. NUTR. CHL.     SAL. NUTR. CHL.     782     782     784     784     785     787     779     779     779     779     779     779     779     779     779     779     777	SAL. NUTR. CHL.  SAL. NUTR. CHL.  SAL. NUTR. CHL.  782  782  782  782  783  784  787  787  778	MAX. DEPTH = 13    SAL. NUTR. CHL.   19   786   19   19   19   19   19   19   19   1
	VISIBILITY VISIBILITY OIRN. SPO.	(s/m) (deg)		File Name/Header	SEC			2	MAX. DE	Cleaned air blee												
	WET BULB PRESSUR	(°C) (°C) (mb).	DATA LOCATION		CTDOAS				TRANSMISSOMETER	RANSMISSOMETER	RANSMISSOMETER	RANSMISSOMETER	RANSMISSOMETER	RANSMISSOMETER	RANSMISSOMETER	RANSMISSOMETER	RANSMISSOMETER	RANSMISSOMETER	RANSMISSOMETER	SALINITY	RANSMISSOMETER	RANSMISSOMETER
	9   G	R 9 8 0 6 0 9		Tape/Diskette ID																		
i i	DATE	MIN DAY MO	JD/TIME		2																	
	TONG	N OEG	TIMES	9Plus 91660 DATA ON	29972 START DOWN		1: 889, 2: 701 AT DEPTH	1: 889, 2: 701 AT DEPTH 1: 480, 2: 303 AT SURFACE	, 2: 303 AT SURFACE	, 2: 303 AT SURFACE	2: 303 AT SURFACE	2: 303 AT SURFACE A FAR	2: 701 AT DEPTH 2: 303 AT SURFACE A PRESSURE	2: 303 AT SURFACE	2: 303 AT SURFACE PRESSURE	2: 303 AT SURFACE PRESSURE	2: 303 AT SURFACE PRESSURE	2: 303 AT SURFACE PRESSURE	2: 303 AT SURFACE PRESSURE	2: 303 AT SURFACE PRESSURE	2: 303 AT SURFACE PRESSURE	2: 303 AT SURFACE PRESSURE
	_≥	0175151510	СТБ	TYPE & SN 9Plus		THESS SN			NS O	- 1 등 등	D SN TRIP	D SN DEPTH D	D SN DEPT	NS O SN O SN O SN O SN O SN O SN O SN O	D SN DEPTH D	NS ON ON ON ON ON ON ON ON ON ON ON ON ON	NS OS NS OS	SS SS SS SS SS SS SS SS SS SS SS SS SS	NS ON ON ON ON ON ON ON ON ON ON ON ON ON	NS NS OF THE STATE	NS NS OF THE STATE	NS NS O SE O SE O SE O SE O SE O SE O SE

VESSEL	Ĕ				PROJECT & LEG	LEG	_	275		STATIOI	STATION DESIGNATION	VOITA	8	
NON AON	A Ship MILL	NOAA Ship MILLER FREEMAN			E)		_		34					
CONSC CAST #	3.5	LATITUDE	LONGITUDE	DATE	TE JD= / / (2	TIME (GMT)	DRY 1	WET SERVER	SEA STATE VISIBILITY S S S S S S S S S S S S S S S S S S S	MIN CON	COUD (amt)  YPE  WEATHER  R C	BOTTOM	STA.	A II
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O	76561	2.56N 166	6630.	12W26A	PR 9	8 08 1 2	3.2	3/1/5	38300	%	321	113	73	1-
	СТО		TIMES	JD/TIME		18	DAT	DATA LOCATION	N.		REMARKS			
TYPE	TYPE & SN 9	9Plus 91660 DATA ON	TA ON			Tape/Diskette ID	ette ID	File Na	File Name/Header					<del></del>
PRE	PRESS SN	29972 ST	START DOWN					CT 5076	070	<u> </u>				
TEM	TEMP SN 1: 8	1: 889, 2: 701 AT DEPTH	ОЕРТН	W I						1				
OS NO	COND SN 1: 4	1: 480, 2: 303 AT SURFACE	SURFACE			(d)		V		<u> </u>	MAX. DEPTH	_ 二 王	60)	٤
			PAR	JRUOR(3)	1(3) Chiam		TRANSMISSOMETER	METER	Cleaned air bleed valve	air blee	ed valve			
POS.	TRIP DEPTH	5	12	CTD CONVE	CTD CONVERTED MONITOR VALUES	R VALUES			SAMPLE BOTTLE DATA	HE HE	SAMPLE BOTTLE NUMBER	ВОП	NOMBI	E
		PRESSURE	111	PRI. TEMP.	SEC	SEC. TEMP	SALINITY	} } }	SALINITY	2	SAL	NGTB.	HO HO	WHIT'S
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STATION DESIGNATION	WET STATE VIEW WIND WIND OUR STA.  * WEATHER  SULB FEE  OIR SPD. C.C.PER  * WEATHER  * WE WE WE WE WE WE WE WE WE WE WE WE WE	3 1438280 7321	REMARKS	File Name/Header	CTDOJJ		MAX. DEPTH = 100 m	Cleaned air bleed valve	SAMPLE BOTTLE SAMPLE BOTTLE NUMBER DATA	WHIT'S SAL NUTB. CHI NUTB	961 C1		85E JV / 197	79 6 V X399	som /	795 V MY01	205 W - 160	793 / ANYOR				
PROJECT & LEG	DATE JD= 11/6 (GMT) BULB E	5W26 AP12981008 3.6	JD/TIME DATA	Tape/Diskette ID			77	FLUOR(3) ChIAM TRANSMISSOMETER	CTD CONVERTED MONITOR VALUES	PRI. TEMP. SEC. TEMP SALINITY			31	20				8			35 N	
VESSEL NOAA Ship MILLER FREEMAN	CONSC CAST # LATITUDE LONGITUDE DEG MIN DEG MIN	10.04 N 16606	CTD TIMES	TYPE & SN 9Plus 91660 DATA ON	PRESS SN 29972 START DOWN	TEMP SN 1: 889, 2: 701 AT DEPTH	COND SN 1: 480, 2: 303 AT SURFACE	PAR	POS. TRIP CT	PRESSURE	1 100	2 75	3 80	4 40	5 30	6 20	01 2	8 0	ं 6	10	11	

		STA. NAME/ID		000				Ε		EE BEE	WHIT'S	NY YOU	14 405	115 406	toh IV	14. 408	POP M	014 X					
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	NATION NATION	BOTTOM	E	7	, Q			PTH =		SAMPLE BOTTLE NUMBER	N 20											76 60	
	STATION DESIGNATION	CLOUD (amt) PPE ABHTAEN	*	0 2			1	MAX. DEPTH	Cleaned air bleed valve	SAME	SAL												
	STATIC	WIND OPD.	(m/s)	S	<del>-</del>				d air ble	TILE	<u> </u>								•				
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		SEA STATE YIJIBISIV	, ,	_	File Name/Header	CTD0 78				SA													
		BURESSAUME To th	E -	∃ <b>;</b>	File N	FJ			ETER		 						:						
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PRO IECT & LEG	8 .	9	Œ °	5	<u> </u>			-7.	ChIAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP	i									-		
	3	JD= V	OM O				W		(6)	red Mor	4			-									
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	- N		DEG MIN	TIMES	SO DATA	29972 START DOWN	11 AT DI	33 AT St		'S	PRESSURE							*	ľ				
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	NOAA Ship MILLER FREEMAN	Z E	DEG MIN	2			1: 88			TRIP DEPTH		89	15	50	40	20	1:0	0	**		_	$\frac{\perp}{\parallel}$	
VESSEL	AA Ship	CONSC CAST #	√ ⊗ √	) B	TYPE & SN	PRESS SN	TEMP SN	COND SN			27	80	-			-				-		_	
<u> </u>	일	89			<u></u>	<u>R</u>	里	8		<u>&amp;</u>			2	က	4	2	9	7	8	6	9	-	12

	STATION DESIGNATION	MEATHER BOTTOM STA.	(m)	-19 68					MAX. DEPTH = 83 m	Ve	SAMPLE BOTTLE NUMBER	WHIT'S					522	<b>≫</b>	774				
	ION DES	(tms) QUOJO	*	11/1	REMARKS				MAX	leed val	SA	SAL	٩		`								
	STAT	YTUIBISIN YTUIBISIN W S	(deg)	137277	NO	File Name/Header	CTD079			Cleaned air bleed valve	SAMPLE BOTTLE DATA	SALINITY											
â	İ	38USS3RG	(၁)	.5 2.4 12	DATA LOCATION	÷	CTD			TRANSMISSOMETER		SALINITY								22			
		DRY BUB		7		Tape/Diskette ID				TEANS								•					
	& LEG	TIME (GMT)		98134		Tape/Di			■.	ChIAM	TOR VALUES	SEC. TEMP											
	PROJECT & LEG	a) / / = Ot	Q	A P R						رد ارد	ED MON			-									
		UDE DATE	H	1 7 W 2 6	JD/TIME		7	_ '		Phus (	CTD CONVERTED MONITOR VALUES	PRI. TEMP.								6			
	- <sub>K</sub>	LONGITUDE	DEG	N   6 5 2 3	TIMES	9Plus 91660 DATA ON	START DOWN	1 AT DEPTH	1: 480, 2: 303 ATSURFACE	PAR		PRESSURE											
	VESSEL. NOAA Ship MILLER FREEMAN	LATITUDE	MIN	23.54		9Plus 9166	29972	1: 889, 2: 701 AT DEPTH	: 480, 2: 30			PRE						,				,	
9	SEL Ship MIL		<u>9</u>	7956	СТО	TYPE & SN	PRESS SN		COND SN 1		TRIP DEPTH		83	75	40	40	20	10	C				
	VESSEL NOAA S	CONSC CAST #	-	7		TYPE	PRES	TEMP SN	CON		S.	###	-	2	က	4	2	9	7	80	6	10	

	STA. NAME/ID	1 - 2					E		MBER	WHIT'S NUTR.	81/5W	MHIG	12/2 W	12hW	NY 422	14423						
-							1		TLENU	동												
SNATION	BOTTOM DEPTH	(E)	ပ္သ				EPTH =		SAMPLE BOTTLE NUMBER	N GTR		Sit.							67			
STATION DESIGNATION	CLOUD (amt) TYPE WEATHER	. 2	REMARKS			<u> </u>	MAX. DEPTH	Cleaned air bleed valve	SAMI	SAL.	62	14										
STATIC	WIND SPD.							d air ble	TTLE	>				25								
	WIND DIRN.	(Geb)		eader	0			Cleane	SAMPLE BOTTLE DATA	SALINITY			85									
13	SEA STATE YISIBILITY	b) 137	NOI	File Name/Header	CTD080				SS SS	\		·					20-					
ē	Beinssaue Tr 9	(mb)	DATA LOCATION	File	0			ETER	: 	:: <u>≻</u>								420			-	
	WET	(°C)	DATA	0				TRANSMISSOMETER		SALINITY												
	DRY BULB	(°C)		kette I			. 1	TRANS														
(5	TIME (GMT)	A WIN		Tape/Diskette ID					ALUES	EMP					,							
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	LONGITUDE	NIM C	5			ı	U Ш		CTD	PRI								C.				
	LONG	DEG 1 6 4 5	83	TA ON	START DOWN	DEPTH	SURFAC	\ V PAR		81												
MAN -		2 Z	TIMES	560 DA		701 AT [	303 AT			PPESSURE												
R FREE	LATITUDE			9Plus 91660 DATA ON	29972	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE			<b>X</b> .			į									
VESSEL NOAA Ship MILLER FREEMAN		805630.6	9		×				TRIP DEPTH	·	75	3	아	20	Ç,	0	0 <u></u>					
VESSEL NOAA SI	CAST #	0	СТО	TYPE & SN	PRESS SN	TEMP SN	COND SN		POS.	ŧ	-	2	ო	4	5	9	7	8	6	10	=	12

		STA. NAME/ID	~ ` ~	1				70 m		MBER	WHIT's	74 424	MYRS	727 W	tzhw	82 y M	boh W						
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	STATION DESIGNATION	BOTTOM DEPTH	(E)					EPTH =		SAMPLE BOTTLE NUMBER	<u>8</u>					180							ľ
	N DESIG	CLOUD (amt) TYPE WEATHER	. ~	REMARKS				MAX. DEPTH	Cleaned air bleed valve	SAME	SAL.	n	00										
	STATIC	WIND SPD.	(s/m)			,		<i></i>	d air ble	TTLE	<b>&gt;</b>										-		Ï
		WIND DIRN.	(deg)		eader				Cleaned	SAMPLE BOTTLE DATA	SALINITY												
	34	SEA STATE VISIBILITY	(d) (d) (d) (d) (d) (d) (d) (d) (d) (d)		File Name/Header	CTDOX			2	SA	, , , , , , , , , , , , , , , , , , ,	<u></u>						,	<u> </u>				I
		WET SSURE BULB PE	E -	DATA LOCATION	File	J		ļ	(ETER		 		·	89	-								
			7	DATA	۵			4	TRANSMISSOMETER		SALINITY	.15											
		DRY BULB	(°C)	-	Tape/Diskette ID				TRANK	1													
	5	TIME (GMT)	A C	,	ľape/Di					/ALUES	EMP												
			æ 6 8	_		; . I :	4		ChlAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP								,				
	3	<u>Б</u>	₹ 0			,			(3)	RTED MC													
		DATE	MIN DAY	JD/TIME	·			`	FLUOR	CONVE	PRI. TEMP.												
		LONGITUDE	MIN /S	٦		 		ا <sub>.</sub> ا پير	لبًا	E .	PR												
		FONG	DEG N 1 6 4 3 5	TIMES	TAON	START DOWN	DEPTH	1: 480, 2: 303 AT SURFACE	PAR		111												
	-MAN		Z 2	<u>F</u>	9Plus 91660 DATA ON	29972 ST	1: 889, 2: 701 AT DEPTH	303 AT			PPESSURE												
	ER FREE	LATITUDE	37.82		Plus 91	299	889, 2:	480, 2:		70	3:												
5	NOAA Ship MILLER FREEMAN	84	2	cTo		NS NS				TRIP DEPTH	-	70	50	40	10	Q	0	الميد ا					
1/50051	NOAA S	CONSC CAST #	8	Ċ	TYPE & SN	PRESS SN	TEMP SN	COND SN		POS.	\$	1	2	3	4	S.	9		8	6	10	11	-

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	SNATION	ВОТТОМ	1 1	<u>ال</u>	S	for Rho			ı		SAMPLE BOTTLE NUMBER	1 E	+		=									
	STATION DESIGNATION	CLOUD (amt) PPF PHITAEM		± 00	REMARKS	B	2		MAX. DEPTH	Cleaned air bleed valve	SAMI	SAL	1											
	STAT	ONIW C	-	013				X I	I	ed air bl	3OTTLE 'A	<u>}</u>												
	a	YTIJIBISIV ON SE ON SE ON SE	= *	523		File Name/Header	60			Clean	SAMPLE BOTTLE DATA	SALINITY												
	Ŋ.	PRESSURE SEA STATE	(mb)	083	DATA LOCATION	File Nam	CTDO 83			65	981									85				
		WET		0.6	DATA LC		_			TRANSMISSOMETER		SALINITY					X.							
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	PROJECT & LEG	9//=	۶	18 18 18 18 18 18 18 18 18 18 18 18 18 1	50				[	ChIAM	MONITOR	SEC.		(8)	88						88		13	
	Ĭ	DATE JD=1	OM YAG	96	ME	111		- M.E.		RUOR(3)	CTD CONVERTED MONITOR VALUES													
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-	EMAN		Ğ	3 N V	TIMES	9Plus 91660 DATA ON	29972 STA	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE			PRESSURE												
	LER FRE	ATITUDE	WIN	S 2.5		9Plus 9	29	: 889, 2:	: 480, 2:	2)							ħ							
Ď	VESSEL NOAA Ship MILLER FREEMAN		S 7	900	CTD	TYPE & SN	PRESS SN	TEMP SN 1	COND SN 1		TRIP DEPTH		32	ā	7	\$	2	· 🔿						
1/5005	N S	CONSC CAST #	C	KO	93	TYP	PRE	TEM	0 0 N		POS.	R	1	2	3	4	2	9	7	8	6	10	-	

STATION DESIGNATION	(mb) * (ms) (ms) (ms) (ms) (ms) (ms) (ms) (ms)	REMARKS	CTDO83	16 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	MAX. DEPTH = (28 m	Cleaned air bleed valve	SAMPLE BOTTLE NUMBER DATA	SALINITY SAL. NUTR. CHL. NUTR.	- 4	IEHW!	CEHUI .	EEHW	MH3H	MH38	JEHW!					
T& EG	TIME DRY WET  (GMT) BULB BULB  YR HR MIN (°C) (°C)  9 8 1 9 5 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DATAL	rape/Diskette ID File r			ChIAM TRANSMISSOMETER	IITORVALUES	SEC. TEMP SALINITY		8										
PROJECT & LEG	LONGITUDE DATE JD= DEG MIN DAY NO 16402.86 W 2640	TIMES JD/TIME	START DOWN	АТ ОЕРТН	AT SURFACE	VPAR VRUOR(3)	CTD CONVERTED MONITOR VALUES	PRI. TEMP.								-60		6		
VESSEL NOAA Ship MILLER FREEMAN	CONSC CAST # LATITUDE LC # DEG MIN DEG	TYPE & SN OPING OTERO DATA ON	29972	TEMP SN 1: 889, 2: 701 AT DEPTH	COND SN 1: 480, 2: 303 AT SURFACE	L	POS. TRIP DEPTH	PRESSURE	1 (60)	2 30	07 8	30	200	0/ 9	7 0	8	6	10	11	

STATION DESIGNATION	* SEA STATE  * VISIBILITY  * V	e/Header	h80	MAX. DEPTH = 64 m	0	SAMPLE BOTTLE NUMBER DATA	SALINITY SAL. NUTR. CHL. NUTR		804 / MB8	802 / MY30	MAY / MAY	MM 1 208	Chin > 103	MHH3	2	7	Soo / Muly	
5	TIME DRY WET SOFT (GMT) BULB BULB (FMD)  R MIN (°C) (°C) (mb)	DATA L	İ		TRANSMISSOMETER	ALUES	SALINITY											
PROJECT & LEG	MO YR 9 8 9 7 9 8				PEUOR(3) CHIAM	CTD CONVERTED MONITOR VALUES	PRI. TEMP. SEC. TEMP											
VESSEL NOAA Ship MILLER FREEMAN	CAST # LATITUDE LONGITUDE DATE BEG MIN DEG MIN DAY 8 4 5 6 5 3 · 3 9 N / 6 4 0 2 · 9 < W 2 1)	CTD TIMES  TYPE & SN 9Plus 91660 DATA ON		COND SN 1: 480, 2: 701 AT DEPTH	PAR	TRIP DEPTH	PRESSURE	69	50	9	30	30	01	<b>5</b>	74	2	O buxex	

STATION DESIGNATION	WIND WIND ODE FEE BOTTOM STA. DIRN. SPD. C P W DEPTH NAME/ID (deg) (m/s) * (m)	020862 73 64-17	REMARKS				MAX. DEPTH = UH B	Cleaned air bleed valve	OTTLE SAMPLE BOTTLE NUMBER	WHIT'S CHL NUTB	3	>	>	>		>	2		>			
	* SEA STATE * VISIBILITY	1.99847300	ATION	File Name/Header	CT3085				SAMPLE BOTTLE DATA	SALINITY												
	DRY WET BULB BULB (°C) (°C)	3.0 1.8	DATA LOCATION	Tape/Diskette ID Fil			- W	TRANSMISSOMETER		SALINITY								88				
PROJECT & LEG	JD= TIME (GMT)	4PR98 83		Tape/Dis				ChlAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP	æ		ļ	4.0								:
<b>ā.</b> ;;;;;	411	-	JD/TIME		MN		XE .	FLUOR (3)	CTD CONVERTE	PRI. TEMP.					S.							
FREEMAN	LATITUDE LONG	52.46 N 164 03.15 W27	TIMES	9Plus 91660 DATA ON	29972 START DOWN	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE	PAR		PRESSURE							#					The state of the s
VESSEL NOAA Ship MILLER FREEMAN		9			PRESS SN	TEMP SN 1: 88	COND SN 1: 48		POS. TRIP		1 44	2 44	3 44	4 24	5 74	9 74	7 (3	8 (3	9	10 9000	-	12

STATION DESIGNATION	* WEATHER STA DEPTH NAME (m)		* PUT FLUOR IN VH SLO		MAX. DEPTH = m		SAMPLE BOTTLE NUMBER	SAL. NUTR. CHL. NUTR.				20			155					
STA	A VISIBILITY  SEA STATE  WIND  Geo  DIR.  Geo  M.  Geo  M.  Geo  M.  M.  M.  M.  M.  M.  M.  M.  M.  M	80000	e/Header	CTDOSE		Cleaned air bleed valve	SAMPLE BOTTLE DATA	SALINITY												
	DRY WET SSUR BULB BULB (°C) (°C)	DATA LOCAT		CTT		TRANSMISSOMETER		SALINITY								370				
PROJECT & LEG	TIME JD= (GMT) MO YR HR MIN	5	Tape/Diskette ID			(3) CHIAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP			24					1980				
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VESSEL NOAA Ship MILLER FREEMAN	CAST LA	СТБ	TYPE & SN		COND SN 1:		POS. TRIP		7-	2	3	4	2	9	7	8	6	10	11	12

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S S	TRIP		CTD CONVERTED		MONITOR VALUES	26	SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER	30TTLE N	IUMBER
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STATION DESIGNATION	WIND SPD.	000	_			55	; =	Cleaned air bleed valve	<u> </u>														
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STATION DESIGNATION	WIND OUD (amt) SPD. CLOD (amt)  * WEATHER  * WEATHER  * (m/s) * (m)	REMARKS	w/0= 590		MAX. DEPTH = 504 m	Cleaned air bleed valve	TLE SAMPLE BOTTLE NUMBER	SAL. NUTR. CHL. NUTR.	╁──	829	830	83.1 MH62	2	1091	7091	KOHW		1091	1600 MULDY	
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/AAN	LONGITUDE DEG MIN	TIMES	9Plus 91660 DATA ON 29972 START DOWN	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE	√ PAR	Ö	PRESSURE												
VESSEL NOAA Ship MILLER FREEMAN	AST # LATITUDE LONGITUDE DATE JD= N DEG MIN DEG MIN DAY MO	CTD	· 8			-	TRIP DEPTH	<b>E</b>	400	300	200	100	35	20	0H	30	30	0	o	
VESSEL NOAA S	CONSC CAST #		TYPE & SN PRESS SN	TEMP SN	COND SN		Q S		-	7	ო	4	ß	ဖ	7	80	6	0	-	12

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NATION	BOTTOM STA. DEPTH NAME/ID	1-95 091	1				m にと m	091	SAMPLE BOTTLE NUMBER	WHIT'S NUTR. CHL. NUTR.	1616 MUSA	419	0LhW 8191	619	(620 V	Thw >	1621	1 729	1623 V MITTZ			
STATION DESIGNATION	* MEATHER CLOUD (amt)	1890	REMARKS				MAX. DEPTH	bleed valve	<u> </u>	SAL.	ഗ			,								
STA	* SEA STATE  * VISIBILITY  VISIBILITY  (dea) (m/s)	7330	NC	File Name/Header		3		Cleaned air bleed valve	SAMPLE BOTTLE DATA	SALINITY			£3.									
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	LONGITUDE	0925420.18N16525.58W29A	TIMES	DATA ON	29972 START DOWN	AT DEPTH	AT SURFACE	PAR		- E												
VESSEL NOAA Ship MILLER FREEMAN	LATITUDE	A0.18 N		9Plus 91660 DATA ON	29972	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE	_		PRESSURE					33							
VESSEL NOAA Ship MII	CONSC CAST # DEG	43660	CTO	TYPE & SN	PRESS SN	TEMP SN 1	COND SN 1		POS. TRIP DEPTH		150	12	3 15		2 40	9	7 30	8	<b>O</b>	10	-	12

VESSEL NOAA Ship MIL	VESSEL NOAA Ship MILLER FREEMAN			PROJECT & LEG	LEG		a	STATION DESIGNATION	DESIGNA	NOI	
CONSC CAST # L	MIN	LONGITUDE	TUDE DATE	TE JD= \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	GMT)	DRY WET SULB BULB RESSURE	SEA STATE VISIBILITY  O W W	CLOUD (amt)	· WEATHER  □ WEATHER	ВОТТОМ	STA. NAME/ID
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СТД	<u> </u>	TIMES	JD/TIME		5	DATA LOCATION	H H		REMARKS		
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		MEAR	FLUOR	Chiam		TRANSMISSOMETER	Cleaned	Cleaned air bleed valve	valve	-	
POS. TRIP DEPTH	10.2		CTD CONVE	CTD CONVERTED MONITOR VALUES	3 VALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	SOTTLEN	UMBER
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	STA. NAME/ID	- 8					E		/BER	WHIT'S NUTR.	MY77			SLAW		M479			OShW	,		
		7					7		TE NUN	H				/	7	7	7	7	7			3
NATION	ВОТТОМ DEPTH	(E) Y	·l				PTH =		SAMPLE BOTTLE NUMBER	NUTR.	1635	1634		1633	le 32	1		1631	52,52			
STATION DESIGNATION	CLOUD (amt)  TYPE ~ WEATHER		REMARKS			8	MAX. DEPTH	Cleaned air bleed valve	SAMF	SAL.	24											
STATIO	WIND SPD.	(m/s)		ï		33		air ble	J.L.													
	WIND DIRN.	(deg)		ader	2		,	Cleaned	SAMPLE BOTTLE DATA	SALINITY												
ń.	SEA STATE VISIBILITY	. 20		File Name/Header	CT0094		·		SAN			-		-								
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	WET	(°)	DATA	=,	-		×	<b>IISSOME</b>		SALINITY												
	DRY BULB	(°)		ette ID	355			TRANSMISSOMETER		- 1			90			**						
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— z		4N16508.14W29A	TIMES	DATA	STARI	AT DE	AT SUF	X PAR		PRESSURE												
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AILLER F		DEG   MIN 54 25.1		9Plu		1: 889	1: 480		ᇫᆂ		0		45).				2	0			$\frac{\perp}{\parallel}$	
SEL VA Ship A	Ο.		СТБ	TYPE & SN	PRESS SN	TEMP SN	COND SN		TAIP DEPTH		20	100		20	9	30	7	40	0			
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