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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	LATITUDE	LONGITUDE	UDE	DATE	JD= 105	(GMT)	DRY BULB	WET BULB	SEA VISIE	WIND SPD.	CLO	BOTTOM		STA. NAME/ID
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СТО	<u> </u>	TIMES	JDV	JD/TIME			DA	DATA LOCATION	NO		REMARKS	S)		
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PRESS SN	29972 S	START DOWN	· _					677	TOOG LO		JU C	C-8007 WC)
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COND SN 1:	1: 480, 2: 303 AT SURFACE	TSURFACE								1	MAX. DE	MAX. DEPTH = ()		E
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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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PROJECT & LEG		╌	Q 8 6		<u> </u>				ChlAM	VITORV	SEC. TEMP												
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VESSEL NOAA Ship MILLER FREEMAN	ATITUDE	3. 9 4 N J	F	9Plus 91660 DATA ON	29972 ST	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE	× /-		PRESSURE		88				<i>(1)</i>						
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ip MILLE	VESSEL NOAA Ship MILLER FREEMAN			PROJEC	ROJECT & LEG						STATION	STATION DESIGNATION	NATION		
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		PAR	PEUOR (7 (01) AC	ChlAM		SANSMISS	TRANSMISSOMETER		Cleaned air bleed valve	air blee	d valve			
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CONSC CAST #		LATITUDE	CONO	LONGITUDE	DATE	9	90,	TIME	DRY	WET	3HUSS3Ho	SEA STATE YTIJIBISIN	ON!W DNIND	MIN CAN	(ams) OUOJC	BOTTOM		STA.
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TEMP SN		1: 889, 2: 701 AT DEPTH	JEPTH					¥.	20 20)/E	18	=	6	SEC AC AC	1	
COND SN		1: 480, 2: 303 AT SURFACE	SURFA(ا بر									# USTR	<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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VESSEL NOAA SI	EL Ship MILLE	VESSEL NOAA Ship MILLER FREEMAN			1	PROJECT & LEG	EG	12				STATIO	STATION DESIGNATION	NATION		
CONSC CAST #	% -	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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COND SN		1: 480, 2: 303 AT SURFACE	AT SURFAC	ا س						3	1		MAX. DEPTH	EPTH ≈	e	, E
			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)	1 0	DATA LOCATION	NO		REMARKS		_
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	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
	PRESSURE		PRI. TEMP.	SEC	SEC. TEMP	- S	SALINITY	SAUNITY	>	SAL. NUTR.		WHIT'S
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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		
TYPE & SN		9Plus 91660 DATA ON	8	Tape/Diskette ID		File Name/Header			
PRESS SN	SS	29972 START DOWN	WN		CTDO	110			1
TEMP SN		1: 889, 2: 701 AT DEPTH			6				
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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										5	
STATIC	WIND SPD.	(m/s)	20				=	1	d air ble	тте	>												
!	WIND DIRN.	(Gep)	050		leader			_ \	Cleane	SAMPLE BOTTLE DATA	SALINITY												
ļ	SEA STATE VISIBILITY	, (q	647	NOI	File Name/Header	CIDOLI	ľ		^	SA												30	
	WET SSURE	(am) (c)	01.796	DATA LOCATION	File	5			(ETER	į	∠	ī				72			=				
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	DRY BULB		0		skette I	YE.	3		TRANS													_	
g g	TIME (GMT)	NIM TH	0 50		Tape/Diskette ID		d.	Ţ,		VALUES	TEMP												
ROJECT & LEG	90) =Or	Œ	ر 9 8		Y .			Jag	ChlAM	CTD CONVERTED MONITOR VALUES	SEC. TEMP												57
PRO	DATE JD=		OAO		377	THE			3(0)	ERTED M			200								•		
	ë r	DAY	21.44W16A	JD/TIME	e¥ ID	13	200		V FLUOR (10)	CONVE	PRI. TEMP.							92	= ==				
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	LONG	9	1 9	TIMES	ATA ON	START DOWN	г DEРТН	r SURFA	.≺ PAR	÷	끭												
EMAN	= 5 (S)		2	F	9Plus 91660 DATA ON	29972 ST	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE			PRESSURE												
ER FRE	LATITUDE	N N	Ξ		9Plus 9	29	889, 2	480, 2															
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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NOAA VESS	Ship MILLE	VESSEL NOAA Ship MILLER FREEMAN			ı 🤻	PROJECT & LEG	EG					STATIO	STATION DESIGNATION	NATION		
CONSC CAST #		LATITUDE	LONGITUDE	TUDE	DATE	10- 161	TIME (GMT)	DRY BULB	WET BULB	BRUSSBR9 BTATS ABS	VISIBILITY ON SERVICE STATES	WIND SPO.	CLOUD (amt) TYPE MEATHER	BOTTOM	Will	STA. NAME/ID
	9 2 0	MIN	DEG	NIM	DΑΥ					, (di	1			(m)		
101	3565	35652.64N	16402.57W(7	V 172.12	200	A P (2) 8	0739	0	30.1	.0964	7036	22	718		7	8-6
	СТО		TIMES	JQr	JD/TIME			۵	DATA LOCATION	ATION		188	REMARKS	S		
TYPE & SN		9Plus 91660 DATA ON	DATA ON	6			Tape/Diskette ID	kette ID	File	File Name/Header	Header	e e				
PRESS SN	S SN	29972	START DOWN	N		8			7	CIDO	510			,		
TEMP SN		1: 889, 2: 701 AT DEPTH	AT DEPTH	3	11 72 11 72	×	18	2 K			N					
COND SN		1: 480, 2: 303 AT SURFACE	AT SURFACI								6		MAX. DEPTH	PTH =	IJ	Ε
			PAR	7	AFLUOR ((o)	M	TRANSMIS	TRANSMISSOMETER		Cleaned air bleed valve	air ble	ed valve		93	
S.	TRIP DEPTH			CTDC	ONVERTE	CTD CONVERTED MONITOR VALUES	R VALUES	e dina		100 1100-00	SAMPLE BOTTLE DATA	TTLE	SAMP	SAMPLE BOTTLE NUMBER	LE NUM	BER
		PPESSUPE	E.	PRI. TEMP.	EMP.	SEC	SEC. TEMP	78	SALINITY		SALINITY	>	SAL.	NUTR.	CHL.	WHIT'S NUTR.
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	STA. NAME/ID	1 00					E 27	ļ	BER	WHIT'S NUTR.												
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STATION DESIGNATION	CLOUD (amt) TYPE WEATHER	. 7	REMARKS				MAX. DEPTH	Cleaned air bleed valve	SAMP	SAL.	_					-						
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		(°C)	DATA					TRANSMISSOMETER		SALINITY	i						40					
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ROJECT & LEG		H 0 8 6		<u> </u>		24	₽ <u>_</u>	ChIAM	ITOR VA	SEC. TEMP												
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а.	DATE	65W170	JD/TIME		1			FLUOR (16)	ONVERT	≘MP.												
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FREEM/	<u> </u>	2		9Plus 91660 DATA ON	29972	1: 889, 2: 701 AT DEPTH	1: 480, 2: 303 AT SURFACE	181		9 7			13									
VESSEL NOAA Ship MILLER FREEMAN	∑ 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.
9	NIIV	DEG N	- 1	QV	YR HR MIN	43	(mb)		(m/s)	\	1	1	
0.1557	0 0 0	16459.89 W	∞ 2 ×	7 APR 9	8 11 4	0 1 0	0.0964	9	23	872			1 - 5
СТО		TIMES	JD/TIME		8 8	DATA	DATA LOCATION	7		REMARKS	S		
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TEMP SN	1: 889, 2: 701 AT DEPTH	VT DEPTH	201 00		7		=======================================						
COND SN	1: 480, 2: 303 AT SURFACE	NT SURFACE			Silve II				. 1	MAX. DEPTH	EPTH =	9	E 2
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POS. TRIP DEPTH	. =		CTD CONVI	CTD CONVERTED MONITOR VALUES	ror values	×		SAMPLE BOTTLE DATA	TTLE	SAME	SAMPLE BOTTLE NUMBER	LE NUM	BER
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OT 9	>				22							>	MS7
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VESSEL NOAA S	SEL A Ship MILLE	VESSEL NOAA Ship MILLER FREEMAN		PROJECT & LEG	EG				STATIO	STATION DESIGNATION	NATION		
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
	DEG	MIN DEG	MIN	DAY NO YR	H. MIN	(၁ _၀)	(°C) (mb)	(deg) * *((m/s)		(m)		
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7	TYPE & SN 9	9Plus 91660 DATA ON			Tape/Diskette ID	ette ID	File N	File Name/Header					
PRE	PRESS SN	29972 START DOWN	NMC				CTO 016	010	-				
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ő	COND SN 1: 4	1: 480, 2: 303 AT SURFACE	CE			1500 V	300	IAF.	y	MAX. DEPTH	n	63	Ε
		PAR		FLUOR (16) CHIAM		TRANSMISSOMETER	OMETER	Cleaned air bleed valve	d air ble	ed valve		S	
POS.	TRIP DEPTH		00	CTD CONVERTED MONITOR VALUES	3 VALUES		8	SAMPLE BOTTLE DATA	тте	SAMP	SAMPLE BOTTLE NUMBER	LE NUM	3ER
	100 400	PRESSURE	PRI. TEMP.		SEC. TEMP	SAL	SALINITY	SALINITY	>	SAL.	NUTR.	OHL.	WHIT'S NUTR.
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VESSEL			PROJECT & LEG	<u> </u>				NOITATS	STATION DESIGNATION	MOITA		
NOAA Ship MILLER FREEMAN	ER FREEMAN	162										-
CONSC CAST #	ATITUDE	HI LING	ΔΦ - O' = TPΔ	TIME	YBO 84	38/08/38 = 13 = 24 = 24 = 24 = 24 = 24 = 24 = 24 = 24	SE STRE	WIN UND (fms) QUOJ:	LOUD (amt) 39Y ABHTATHER MEATHER	BOTTOM	်	STA.
DEG	DEG		DAY NO YR		-	(dm)	(deg)		۸ .	E (E	2	NAME/ID
0175732.11	2-115N 1664	431.16W	7 APR 98	1853	0	2	57345	2.68	2	00	=	
СТО	TIMES	JD/TIME	ш		DAT/	DATA LOCATION	Z		REMARKS			
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TEMP SN 1: 8	1: 889, 2: 701 AT DEPTH	E	1000		State of the	Trave			woo Tat Ca	+	Ý	
COND SN 1:	1: 480, 2: 303 AT SURFACE	=ACE		H MAN H				Σ	MAX. DEPTH =	TH =	63	E 2
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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 YTSIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) WEATHER	BOTTOM DEPTH		STA. NAME/ID
DEC	NiiN	DEG N	MIN DA	DAY MO		N N	(0°)		٩	1	(s/w)		(m)	-	
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TEMP SN	1: 889, 2: 701 AT DEPTH	ГОЕРТН	0	3 1					0 =	=		WAR TS	+	Ç	
COND SN	1: 480, 2: 303 AT SURFACE	TSURFACE		See House	W.		8	¥			 .	MAX. DEPTH	픈	,	E
		PAR	PLIO	RUOR (10)	CHIAM	F	TRANSMISSOMETER	XOMETER	<u> </u>	Cleaned air bleed valve	air ble	ed valve	a		
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NOAA Ship	NOAA Ship MILLER FREEMAN			3	<u> </u>	3					N A I	STATION DESIGNATION	A ION		
CAST	HEA	E	u <u>G</u>	<u>4</u>		TIME	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ESSONEE	EA STATE YTILIBIS	WIND	WIND WIND	LOUD (amt) PE FATHER	BOTTOM	12	STA.
	DEG MIN	DEG N	WIN C	السااد	+ ⊈	NIN H	(°C)	(C) (S)	S .	(deg)	SPD. C	Ц .	DEPTH (m)	\perp	NAME/ID
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TEMP SN	1: 889, 2: 701 AT DEPTH	AT DEPTH						A P	Š.			~ K Bisi &	7)	
COND SN	1: 480, 2: 303 AT SURFACE	AT SURFACE		USAN 1.00	55	200 V 2005	19 55%	52°			<u> </u>	MAX. DEPTH	PTH=		E
		T PAR		(61) HOTH	ChlAM		TRANSMISSOMETER	SOMETER		Cleaned air bleed valve	air blee	d valve	T.		
POS.	тяр ОЕРТН		CTD 00 00 00 00 00 00 00 00 00 00 00 00 00	CTD CONVERTED MONITOR VALUES	ONITOR	ALUES			35	SAMPLE BOTTLE DATA	TLE	SAMPL	SAMPLE BOTTLE NUMBER	LE NUM	BER
	PRESSURE	<u> </u>	PRI. TEMP.	MP.	SEC. TEMP	JWP JWE	SA	SALINITY	1.5	SALINITY		SAL.	N STP.	용	WHIT'S NUTR.
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2 (00)	Q														1777
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STATION DESIGNATION	CLOUD (amt) YPE WEATHER		872	REMARKS	8	F		MAX. DEPTH	Cleaned air bleed valve	SAN		SAL.	3		_									
STATI	WIND SPD.		2 6				ij,		d air bl	OTTLE		≥					17.						***	
	WIND DIRN.	(deg)	348		leader	. C	Ø		Cleane	SAMPLE BOTTLE DATA		SALINITY		i				:						
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	BUNGSBUU C. T.	(oc) (mp)	-3.2046	DATA LOCATION	File	J			ETER			≽							38					
	WET	_		DATA	۵				TRANSMISSOMETER			SALINITY												
	DRY BULB		5 7 -8		kette	100			TIBANS			11 03						si)						
(5	TIME (GMT)	¥ WE	0338		Tape/Diskette ID			G 1		/ALUES		EMP						36		83				
PROJECT & LEG	& O	Œ	8					3.	ChIAM	CTD CONVERTED MONITOR VALUES		SEC. TEMP												
PROJE	= O	Ω	ATA					11.5	(0)	TED MO	-		_		ļ									b.
	DATE	DΑΥ	8.00W18APR	JD/TIME		17.			FLUOR (10)	CONVER		PRI. TEMP.												
0	9	MIN	000	닉	- I	Z				CTD		PRI	20											
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- VA		OHO	<u>N</u>	TIMES	60 DAT		O1 AT D	03 ATS	K			PRESSURE								===	34	*		:
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 NOAA Ship	CONSC CAST #		205	CTD	TYPE & SN	PRESS SN	TEMP SN	COND SN					ال ال			1 40		- 14				10:	-	0
뿔뀔	४०		0		<u></u>	4	<u>"</u>	8		S S S	¥			7	က	4	2	9	7	∞	6	-	-	12

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>
081 580	5804.29N168	8 43.0	7 w 8	APR19	8 8 3 9	- 4 2 -	9008-4	06734	5 30	218	7 4	5	
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
PRESS SN	29972 STAR	START DOWN					CTDO	1800		Newson as CTDOZE	00	272	3720
TEMP SN 1:	1: 889, 2: 701 AT DEPTH	ЕРТН					-			J.)
COND SN 1:	1: 480, 2: 303 AT SURFACE	JRFACE	\				•	-	l	MAX. DEPTH =	PTH =	00	٤
	<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
	1							¥ .					
	PRESSURE	Δ.	PRI. TEMP.	SEC	SEC. TEMP	SAI	SALINITY	YHINITA	≟	SAL.	NCTR.	CHL.	WHIT'S NUTR.
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3 50												7	M594
4 0				-								1	M 9.5
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9		<u> </u>										/	14.97
7 10												7	86.50
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