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	VESSEL				PROJECT & LEG	Ö		STA	STATION DESIGNATION	NATION		
	NOAA R/V MILLER FREEMAN	R FREEMAN			MF03-13		1		3-~	494	5	
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	CAST #	SOUTIFAL	LONG	LONGITUDE	DATE JD= \OO	TIME (GMT) DRY BULB	WET BULB		CLOU TYPE WEA	BOTTOM DEPTH	STA NAME/ID	AME/II
	DEG	Miz	DEG	MIN	DAY MO YR	HR MIN (*C)	(°C) (mb)	(deg) (hv/s)	*	(II)	-	
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	PRESS SN	80020	DATA ON			Tape/Diskette ID	File Name/Header	e/Header				
	PRI COND	915	START DOWN				33	100				
	PRI TEMP	710	AT DEPTH	ļ								
	SEC COND	304	AT SURFACE						MAX. DEPTH =	H= /22	3	ļ.
	SEC TEMP	884	✓ WETSta	WETStar S/N 868P	XPAR S/N 4242			Cleaned air bleed valve	ed valve			
				CTD	CTD CONVERTED MONITOR VALUES	ALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	E NUMBEI	7
	POS. TRIP DEPTH	PTH PRESSURE		PRI. TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	NUTR.	웆	NUTR.
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0035 VESSEL SEC TEMP SEC COND PRI COND PRESS SN SBE 9Plus CONSEC CAST # POS. PRI TEMP NOAA R/V MILLER FREEMAN 8 თ N 2 5 m from bottom TRIP DEPTH 91220A 884 915 80020 304 730 LATITUDE <u>₹</u> 06 PRESSURE 058 / N DATA ON AT DEPTH START DOWN TIMES AT SURFACE WETStar S/N 1036P LONGITUDE PRI. TEMP. <u>K</u> w W ¥ JD/TIME CTD CONVERTED MONITOR VALUES PAR S/N 4242 DATE JD= \O DAY DAPRO41438 SEC. TEMP. PROJECT & LEG MF04-04 ΝÓ ⋨ Tape/Diskette ID TIME (GMT) DRY BULB 돐 PRI. SALINITY <u>₹</u> Ŋ (င) 0 DATA LOCATION WET BULB SEC. SALINITY 9.029 (ီ) File Name/Header CTD GO3 PRESSURE SEA STATE SAMPLE BOTTLE DATA **∞**0 VISIBILITY Cleaned air bleed valve SALINITY WIND DIRN. 9 S (deg) S NO CLOUD (amt) STATION DESIGNATION (m/s) CB-1 9 MAX. DEPTH = REMARKS SAL TYPE WEATHER SAMPLE BOTTLE NUMBER NUTR. BOTTOM DEPTH 70 70 욷 STA. NAME/ID 3 WHIT'S

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700 PRI COND VESSEL SBE 9Plus SEC TEMP SEC COND PRI TEMP POS PRESS SN CONSEC CAST # NOAA R/V MILLER FREEMAN 11 6 w o (J) N 5 m from botton TRIP DEPTH 5840.421,14850.5 91220A 915 80020 884 8 710 LATITUDE M PRESSURE AT DEPTH START DOWN DATA ON TIMES AT SURFACE WETStar S/N 1036P LONGITUDE PRI. TEMP <u>₹</u> N O **JD/TIME** CTD CONVERTED MONITOR VALUES PAR S/N 4242 DATE JD= \O\ DAY SEC. TEMP. PROJECT & LEG A P R 0 4 MF04-04 <u>₹</u> ⋨ 1)36/ Tape/Diskette ID TIME (GMT) 돐 PRI. SALINITY <u>×</u> DRY BULB O c 0 DATA LOCATION WET BULB SEC. SALINITY 8.625371 (ီ) CTDOOY File Name/Header PRESSURE SEA STATE SAMPLE BOTTLE DATA none VISIBILITY Cleaned air bleed valve SALINITY WIND DIRN. 70076 STATION DESIGNATION Despury (m/s) WIND SPD. CLOUD (amt) MAX. DEPTH = 183 REMARKS SAL TYPE WEATHER SAMPLE BOTTLE NUMBER NUTR. BOTTOM DEPTH 4 욷 STA, NAME/ID WHIT'S

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PRI TEMP VESSEL PRI COND SBE 9Plus NOAA R/V MILLER FREEMAN POS. SEC TEMP SEC COND PRESS SN 01759 CONSEC CAST # ⇉ ಕ g σ Ċ ω 5 m from botton TRIP DEPTH 80020 91220A 884 304 710 915 LATITUDE <u>.</u> PRESSURE 42 8 8 7 · TIMES AT SURFACE AT DEPTH START DOWN DATA ON WETStar S/N 1036P LONGITUDE PRI. TEMP. 0 JD/TIME CTD CONVERTED MONITOR VALUES W 2 / A PAR S/N 4242 DATE JD= \OC DAY SEC. TEMP. MF04-04 PROJECT & LEG M O P R 0 4 0 6 3 7 ⋨ Tape/Diskette ID TIME (GMT) DRY BULB HR PRI. SALINITY S N DATA LOCATION WET BULB SEC. SALINITY ್ತೆ File Name/Header PRESSURE SEA STATE 38330095 SAMPLE BOTTLE DATA Cleaned air bleed valve SALINITY DIRN. (m/s) SPD. 04-68P-3A STATION DESIGNATION CLOUD (amt) REMARKS MAX. DEPTH = SAL TYPE WEATHER SAMPLE BOTTLE NUMBER NOTR. BOTTOM DEPTH 0 욷 STA. NAME/ID WHIT'S

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PRI TEMP PRI COND VESSEL SEC COND SBE 9Plus POS. SEC TEMP PRESS SN NOAA R/V MILLER FREEMAN CONSEC CAST# ⇉ 2 10 9 5 m from botton TRIP DEPTH 4 ~ ~ 4 80020 91220A 884 304 710 LATITUDE 22 PRESSURE AT DEPTH START DOWN DATA ON TIMES AT SURFACE マタン WETStar S/N 1036P LONGITUDE PRI. TEMP. **JD/TIME** CTD CONVERTED MONITOR VALUES X PAR S/N 4242 DATE JD= \O DAY SEC. TEMP. PROJECT & LEG MF04-04 Š 0 4 ž 2200 Tape/Diskette ID TIME (GMT) DRY BULB 퓼 PRI. SALINITY ŽΪΝ ී DATA LOCATION WET BULB SEC. SALINITY ೆ File Name/Header C-1014 153807009 PRESSURE SEA STATE SAMPLE BOTTLE DATA VISIBILITY Cleaned air bleed valve SALINITY DIRN. (m/s) WIND SPD. STATION DESIGNATION 04-68-2A M CLOUD (amt) MAX. DEPTH = ZOJ REMARKS TYPE WEATHER SAMPLE BOTTLE NUMBER NUTR. BOTTOM DEPTH <u>4</u> 욷 STA. NAME/ID 3 WHIT'S

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												NUTR.	IPLE BOT		12					23	(m)	воттом	(X	NATION
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												SAL.		valve	MAX. DEPTH =				REMARKS	8	•	CLOUD (amt) TYPE WEATHER	97 6	STATION DESIGNATION
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									11	11	5 m from bottom	TRIP DEPTH		MP 884	ND 304	∯P 710	VD 915	SN 80020	91220A	S DEC	# ic	VESSEL NOAA R/V MILLER FREEMAN
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	-										95	PRI. SALINITY	/ALUES			7.4		Tape/Diskette ID		HR MIN (°C)	TIME (GMT) DRY BULB	i G
												SEC. SALINITY					CT)	File Nam	DATA LOCATION	(°C) (mb)	WET BULB	
											45	SALINITY	SAMPLE BOTTLE DATA	Cleaned air bleed valve			270020	File Name/Header		(deg) (m/s)	SEA STATE VISIBILITY DIRN. WIND SPD. WIND	STA
- · <u>.</u> . · <u>- ·</u>	<u> </u>	1			1	\Box						SAL.	<u>></u>	ed valve	MAX	T			REMARKS	<u> </u>	CLOUD (amt)	- GP-
						-					-	Ļ	SAMPLI		MAX. DEPTH = 135				RKS	CV .	WEATHER	STATION DESIGNAT
					e i			9		*		NUTR. CI	SAMPLE BOTTLE NUMBER		35					(m)	воттом рертн	ON C
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SEC COND PRI TEMP PRI COND PRESS SN SBE 9Plus POS. SEC TEMP CAST # NOAA R/V MILLER FREEMAN VESSEL 12 ⇉ 8 5 5 m from bottom TRIP DEPTH 80020 91220A ∞ √ 884 8 915 긓 LATITUDE PRESSURE TIMES 15057 AT SURFACE AT DEPTH START DOWN DATA ON WETStar S/N 1036P ONGITUDE PRI. TEMP. 0 JD/TIME CTD CONVERTED MONITOR VALUES w | 3 PAR S/N 4242 DATE JD= 104 DAY SEC. TEMP. MF04-04 PROJECT & LEG Š P R 0 4 쏬 2323 Tape/Diskette ID 五 TIME (GMT) DRY BULB PRI. SALINITY DATA LOCATION WET BULB SEC. SALINITY 278 CTO 021 File Name/Header PRESSURE SEA STATE VISIBILITY SAMPLE BOTTLE DATA Cleaned air bleed valve 7/09/5 SALINITY DIRN. CLOUD (amt)
TYPE
WEATHER STATION DESIGNATION PARTS MAX. DEPTH = 140 REMARKS SAL SAMPLE BOTTLE NUMBER NUTR. BOTTOM DEPTH ナケー 유 STA. NAME/ID 3 WHIT'S NUTR.

VESSEL SEC COND PRI TEMP PRI COND SBE 9Plus NOAA R/V MILLER FREEMAN Pos. SEC TEMP PRESS SN CONSEC CAST # 02358 ⇉ 5 40 თ N œ w 5 m from bottom TRIP DEPTH - V S . 91220A 915 80020 884 윷 710 LATITUDE PRESSURE DATA ON TIMES START DOWN AT SURFACE AT DEPTH 5053. WETStar S/N 1036P LONGITUDE PRI. TEMP. JD/TIME CTD CONVERTED MONITOR VALUES **X** PAR S/N 4242 INVAPROL DATE JD= 105 DAY SEC. TEMP. PROJECT & LEG MF04-04 S O 쏬 0333 Tape/Diskette ID TIME (GMT) DRY BULB 풄 PRI. SALINITY Z Z S ੌ \mathcal{D} DATA LOCATION WET BULB SEC. SALINITY (၀) 8/8/8 30020 CT0023 File Name/Header PRESSURE SEA STATE SAMPLE BOTTLE DATA VISIBILITY Cleaned air bleed valve SALINITY DRN. STATION DESIGNATION SPD. (m/s) CLOUD (amt) 4 MAX. DEPTH = 170 REMARKS 58 SA. TYPE WEATHER SAMPLE BOTTLE NUMBER NUTR. BOTTOM DEPTH 7 7 9 3 dep 足 STA. NAME/ID 3 WHIT'S

PRI TEMP PRI COND 024 VESSEL SEC COND SBE 9Plus NOAA R/V MILLER FREEMAN POS. SEC TEMP PRESS SN CONSEC CAST # <u>-1</u> ಕ 9 თ O ω 5 m from botton TRIP DEPTH 0448 91220A 915 884 304 710 80020 LATITUDE Z Ž 1 4 4 7 PRESSURE 152 TIMES AT SURFACE AT DEPTH START DOWN DATA ON DEG WETStar S/N 1036P LONGITUDE PRI TEMP. JD/TIME CTD CONVERTED MONITOR VALUES DATE JD= \OS DAY PAR S/N 4242 SEC. TEMP. PROJECT & LEG A P R MF04-04 MO 0 4 ¥ Tape/Diskette ID TIME (GMT) DRY BULB 18 43 퓼 PRI. SALINITY ₹ DATA LOCATION WET BULB SEC. SALINITY ੁੰ 020 File Name/Header CTD024 PRESSURE 10220 SEA STATE SAMPLE BOTTLE DATA VISIBILITY Cleaned air bleed valve SALINITY WIND DIRN. 3 STATION DESIGNATION (m/s) WIND SPD. CLOUD (amt) 2 MAX. DEPTH = 282 REMARKS SAL TYPE WEATHER SAMPLE BOTTLE NUMBER NUTR BOTTOM DEPTH 240 욷 STA. NAME/ID 3 WHIT'S

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												PRESSURE			Þ	>	S	<u></u>		E 8 z	
										<u> </u> 				WET	AT SURFACE	AT DEPTH	START DOWN	DATA ON	TIMES		
								;				PRI. TEMP.		WETStar S/N 1036P	m		Ň			MIN MIN	
-												.0	CTD CON						JD/TIME		
												SEC. TEMP.	CTD CONVERTED MONITOR VALUES	PAR S/N 4242						DATE JD= \Q	PROJE
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						,						NUTR. C	SAMPLE BOTTLE NUMBER		-					ВОПТОМ ВЕРТН	TION
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PRI COND PRI TEMP 0 9 VESSEL POS. SEC TEMP SEC COND PRESS SN SBE 9Plus NOAA R/V MILLER FREEMAN CONSEC CAST # = ö ಸ 9 Ch ω N 6 5 m from bottom TRIP DEPTH ال DEG 7 915 80020 91220A 884 9 710 LATITUDE ₹ PRESSURE ¥0215504 AT DEPTH START DOWN DATA ON TIMES AT SURFACE WETStar S/N 1036P LONGITUDE PRI. TEMP CR CN W A P R 0 4 JD/TIME CTD CONVERTED MONITOR VALUES **₩**PAR S/N 4242 DATE JO- 105 DAY SEC. TEMP. MF04-04 PROJECT & LEG ĕ ¥ ر د د د Tape/Diskette ID TIME (GMT) 픘 PRI. SALINITY <u>≤</u> DRY BULB N DATA LOCATION WET BULB SEC. SALINITY <u>u</u> ී File Name/Header PRESSURE SEA STATE 3720010 SAMPLE BOTTLE DATA VISIBILITY SALINITY Cleaned air bleed valve WIND DIRN. (m/s) SPD. STATION DESIGNATION CLOUD (amt) OO. REMARKS MAX. DEPTH = UT SAL TYPE 2 WEATHER SAMPLE BOTTLE NUMBER NUTR. - De John St. BOTTOM DEPTH 12 H C 단 STA. NAME/ID 3 WHIT'S NUTR.

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i	:										7	SALINITY	SAMPLE BOTTLE DATA	Cleaned air bleed valve			`			(deg) (m/s)	WIND WIND DIRN, SPD.	٥	STA
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J 629 PRI TEMP PRI COND PRESS SN VESSEL POS. SEC TEMP SEC COND SBE 9Plus CONSEC CAST # NOAA R/V MILLER FREEMAN ⇉ 6 芯 9 O 5 m from botton TRIP DEPTH チラ ST O 9 44 80020 91220A 884 36 710 915 LATITUDE - 44 - 2 PRESSURE DATA ON TIMES AT DEPTH START DOWN AT SURFACE WETStar S/N 1036P 5492.40 LONGITUDE PRI. TEMP. **JD/TIME** CTD CONVERTED MONITOR VALUES <u>×</u> Y PAR S/N 4242 DAY 5 A P R 0 4 SEC. TEMP. MF04-04 PROJECT & LEG MO 뇄 01/9 Tape/Diskette ID TIME (GMT) 퓼 PRI. SALINITY <u>≅</u> DRY BULB O DATA LOCATION WET BULB SEC. SALINITY ੈ File Name/Header PRESSURE SEA STATE SAMPLE BOTTLE DATA 002 Cleaned air bleed valve SALINITY WIND DIRN STATION DESIGNATION WIND SPD. (m/s) ۲ MAX. DEPTH = 59 CLOUD (amt) REMARKS LING 8 26 SAL TYPE WEATHER SAMPLE BOTTLE NUMBER NUTR. BOTTOM DEPTH 9 S 1 3 STA 0 *S*≈ 120 욷 128 138 139 STA, NAME/ID 13 ∄ WHIT'S

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													SAMP	R]	:	0030	File Name/Header	2	7 2 4	PRESSURE SEA STATE VISIBILITY		
									i			SALINITY	SAMPLE BOTTLE DATA	Cleaned air bleed valve				er ·		(deg) (m/s)	WIND WIND WIND SE	ST	
											29	SAL.		eed valve	MAX. DEPTH =				REMARKS	3 6	© ₹	STATION DESIGNATION	
	18	13	16	2	/4	13	12	1	10	9	97	NUTR.	SAMPLE BOTTLE NUMBER		PTH = 2-00				ن ص ال	N (3)	BOTTOM DEPTH	SIGNATION	!
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VESSEL NOAA R/V MILLER FREEMAN	EMAN		PROJECT & LEG			TIPE .	STATE ILITY	STATE ILITY	STATE STATION O (amt)
CAST # LAT	LATITUDE	LONGITUDE	DATE JD= \O(b)	TIME (GMT) DRY BULB	WET BULB	* SEA STATE * VISIBILITY DIRN.	CLOUD (amt) TYPE WEATHER	ВОТТОМ	STA. NAME/ID
03 / Sh 3		DEG MIN	DAY MO YR	HR MIN (°C)	(°C) (mb)	3 8 1 1 0 1 3	7.	(E)	
SBE 9Plus 91220A	0A TIMES	IES JD/TIME	п :		DATA LOCATION		REMARKS	2000	
PRESS SN 80020		DATA ON		Tape/Diskette ID	File Nam	File Name/Header			
PRI COND 915	ST/	START DOWN	t		070	03/			
PRI TEMP 710	AT	AT DEPTH							
SEC COND 304	AT	AT SURFACE					MAX. DEPTH = 21	TH=215], \
SEC TEMP 884		WETStar S/N 1036P	PAR S/N 4242			Cleaned air bleed valve	ed valve		
		стос	CTD CONVERTED MONITOR VALUES	ALUES		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	MOM
POS. TRIP DEPTH	PRESSURE	PRI, TEMP.	SEC. TEMP.	PRI. SALINITY	SEC. SALINITY	SALINITY	SAL.	NUTR.	욷
1 5 m from bottom				te		28	(19	
2 115								20	
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<u>ه</u>								7	
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	0	5))	20	HO	50	녌	100	125	JA55	5 m from bottom	TRIP DEPTH		MP 884	ND 304	P 710	4D 915	SN 80020	us 91220A	DEG 7 3	* C	NOAA R/V MILLER FREEMAN	
												PRESSURE						20	20A	3 6 . 44 z	LATITUDE	EMAN	
				-	a.							E		Z	AT SURFACE	AT DEPTH	START DOWN	DATA ON	TIMES	15 S			
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												SEC. TEMP.	CTD CONVERTED MONITOR VALUES	PAR S/N 4242						P MO R	DATE JO 10 6	MF04-04	PROJECT & LEG
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İ												SEC. SALINITY		:	:	<u> </u> 		File N	DATA LOCATION	(°C)	WET BULB		
-	i		,	<u> </u>									SAW				270032	File Name/Header	Z	20 17	PRESSURE * SEA STATE		
					:							SALINITY	SAMPLE BOTTLE DATA	Cleaned air bleed valve			32	ader		7 7 S /	VISIBILITY DIRN.		S
										<u> </u> 	37	δ	ATA	bleed valv	MAX		<u> </u>		REM	(m/s) ·	SPD CLOUD (amt)	17/2	STATION DESIGNATION
_	qp	31	38	37	3%	**	~	33	~	w	<u> </u>	SAL. N		6	MAX. DEPTH =				REMARKS		TYPE WEATHER	y3	DESIGNA
		_	7	M		**	34	3	32	3/	30	NUTR.	SAMPLE BOTTLE NUMBER		223				9.00	2 2 3	ВОТТОМ	57	NOIT
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												NUTR.	Z)								STA. NAME/ID	50	

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	0	5	υ 0	S	より	J10	(00)	100	50	2) 2)	5 m from bottom	TRIP DEPTH		MP 884	ND 304	(P 710	VD 915	SN 80020	us 91220A	4 Sad	* 6	VESSEL NOAA R/V MILLER FREEMAN
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												SEC. TEMP.	CTD CONVERTED MONITOR VALUES	S/N 4242						P R	00\=dr	PROJECT & LEG
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									i	1		SALINITY					CH	File Nan	LOCATION	% (mb)	PRESSURE	
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											5	ALINITY	SAMPLE BOTTLE DATA	leaned air			S	,		(deg)	WIND DIRN.	
		<u> </u>											DATA	Cleaned air bleed valve	MAX		<u> </u>		REV	(m/s)	SP NO CLOUD (amt)	STATION
•	51	5	49	_	47	74	4	4	9		7	SAL. NO	SAMPL	ě	MAX. DEPTH =				REMARKS		TYPE WEATHER	STATION DESIGNATION
	<u> </u>	50 02	9 1363	46 /2	44.	-	\$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	44	47	42	41	NUTR. C	SAMPLE BOTTLE NUMBER		244				9	2 (3)	ВОТТОМ DEPTH	TION
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PRI COND 440 POS. SEC TEMP SEC COND PRI TEMP SBE 9Plus VESSEL PRESS SN NOAA R/V MILLER FREEMAN CONSEC CAST # 2 1 ð Ċħ φ 200 300 5 m from bottom 8 100 20 ω & 400 TRIP DEPTH 0 0 80020 91220A 884 304 710 915 LATITUDE U O PRESSURE AT DEPTH START DOWN DATA ON TIMES AT SURFACE 6837 WETStar S/N 1036P LONGITUDE PRI. TEMP. O **JD/TIME** CTD CONVERTED MONITOR VALUES WZ OAPRO40607 DATE JD= \\ DAY PAR S/N 4242 SEC. TEMP. MF04-04 PROJECT & LEG N O 놨 Tape/Diskette ID TIME (GMT) 픘 PRI. SALINITY S Z DRY BULB DATA LOCATION WET BULB SEC. SALINITY ೆ 10F File Name/Header PRESSURE SEA STATE SAMPLE BOTTLE DATA VISIBILITY Cleaned air bleed valve SALINITY DIRN. (m/s) WIND SPO. STATION DESIGNATION $\overline{\sim}$ 20 CLOUD (amt) MAX. DEPTH = 1 500 REMARKS NO WETStor or TRA 7 SAL TYPE WEATHER 22834 SAMPLE BOTTLE NUMBER 100 106 ID. 10/ 70 100 102 45 NUTR. 103 30 BOTTOM DEPTH 236 169 **%** 263 250 23 25 달. STA. NAME/ID WHIT'S

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