Pg. _/_ of ____ Sta. Designation Event# Vessel Sta. I.D. Consec.Cast # Vessel Proj. & Leg Instructions 001 MILLER FREEMAN MF-92-05 FOCI 34 Latitude N Longitude E Date JD = Mind Wind Dir. Sp. Cloud Time Bottom | Sta. Name Dry Consec. Wet Bar. or or . Min. S Deg. GMT S. S. Depth, m or I.D Cast # Deg. mb '003,9 Bulb Bulb W Day Mo. Yr. Hr. Min. 0 1 M A Y 9 2 1 5 2 4 28 0 38 CTD **Data Location Monitor Checks** Times ID/Time Type & SN 91220-A SEABIRD Tape/Diskette I.D. File Name/Header on Deck at Surface Data on____ Press. SN 25084 castool-ol may 1512 at Surface_____ Start Down_____ at Bottom 1524 Cond. SN ____303 Temp. ______ Start Up_____ Remarks FOX 56. Held for 5 min at 10m (at beginning of cast) to warm up fluorometer. W/o -203 Cond._____ at Surface.____ Other _____ Sal. Other vi Data off_____ Sample Bot.Data Conv. Mon. Values-CTD Monitor Values Trip Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Therm-P Avg Tw Sal. Sal. Press. Temp. Cond. Other Press. Temp. Cond. 9.922 5.228 30.909 31,839 2 20,891 4,749 30,511 31.839 3 30, 823 4.379 30,259 31,895 50.922 4.562 30.509 31.997 50 5 5 75,589 4.751 30.745 32.076 6 00 1100,796 4.874 30,916 32,147 6 150-693 4.376 30.615 32.252 8 8 Batom 9 9 203,744 4,482 30.856 32.403 32 3987 27 10 10 П 11 12 12

Initials LL/BI

Pg. 2___ of ____

Con	sec.	Cast	# 02	Vesse		Pro	oj. & Leg F-92-∩5	FOCI	Event:	# Ve	sel Sta. I.D.	Instru	uctions				Sta.	Designatio	on .	
Cons Cast		Deg	Latit		N or S De	EMAN ME Longitud	or	Date Day	122	3	Fime GMT . Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Si Dir.	Wind pnol Cloud	Weath.	pth, m	Sta. Nam or I.D	
0 0	2	5	730	9 9		54470	7	0 1 M	A Y 9	2	612	54	3 9	042		0838	Till	7089	000	28
Vpe	CT	DZ	91220-	A SEA	BIRD			nitor (Checks				JD/Time			Data Loca				
Pres	ss. S	N	25084				n Deck		at Surf	face	Data at Sur	on face		Тар 	e/Diskette	l.D.		ame/Head 2		
Tem	р. S	N	701			ress emp						own								
JOI1	iu. S					ond					Start	Up		Rema	rks Fox	56 - Mic	10200	+ chlor		
						ther						face a off				1			65 W/	
SOB	or	T Rack	Trip	Tim Depth	e @	Press.	Moni Temp.	tor Va		Other	Press.	nv. Mon. Temp.	Values-CT Cond.	D Sal.		nple Bot.Da Avg Tw	ta Sal.	Sal.	Other Samp.	0
			/ D	Берип	Imp	riess.	remp.		Jona, C	Juliei	9.754	5,259			1116/111-1	7.16	Jai,		MZ/CH	
2			100	2						1.	7. 7.			51.00 /					i i i	+
3			20								19.997	F 101	30.817	2/24/		-			MZYCH	<u> </u>
4			20			N.	1 1				//.//	5.106	301817	21.016					ICHC	1
5											29.954	4.415	2- 12-	21 00.					MZ/CH	7
6			30								. 1. 13 1	7.173	30.210	31.895					1041	1
7			30	~		 		-			20:0-1	11 11 12	20 2 / -	210-					MZYCH	
+			40					-		Н	39.926	4.467	30. 369	31.932					<u>jun</u>	1/4
8	!		40											, 01					M7-1,	+
9			5D								49.824	4.537	30,462	31. 167					MZ/CH	
10			50						<u> </u>										A 4	1
11			60	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \							60.884	4.538	30.483	31.985					MZ	_
12															<u> </u>			Initials		<u> </u>

Pg. <u>03</u> of ___ Sta. Designation Bar. Wind Wind Pno Sp. OIL Sta. Name Bottom or I.D Depth, m

Consec. Cast #	Lat Deg.	itude Min.	N or S De		le E Da		Т	ime GMT Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind ভূ Dir.	Wind Boo	Botto		ta. Nam or I.D	ie
003	573	1	1	4523		/ M A Y		700	75	50	0 5 2		082		269	0 0 3	A
CT Type & S Press. S Temp. S		0-A SE <i>l</i>	ABIRD - Pr		Monit n Deck		Surface	at Surf Start Do at Bott	on face own		Tap	e/Diskette l					
			_ c	ond				at Sur					e for ch	Q		w/o 2,	16
SO Dat	T Trip Rack Dept	Tin	ne @		Monitor					Values-CT	D		nple Bot.D		Sal.	Other Samp.	Pos.
I BOL.		n Depth			Temp.	Cond.	Other	Press. 200, 5/3	Temp.	Cond. 3 /. 263		Therm-P	AVg IW	Sal. 32.5644			ī
2	60		11.					60.382								MZ	2
3	50							50.062	4.87	30.737	31.986					CHUKI	3
4	40							40.250	4.851	36.715	31.962					CHEINE	Ļ-
5	30							30.328	 /	30.616						CHELLIS	+-
6	20				100			20.356	5.201	30.900	31.849					CHILAS	
7	10	gra 🗀 😑				2		9.908	5.233	30.925	31.852					MZ/CH	14-7
8					1										_		8
9										-,-						3	9
10									14								10
П									= 1								11
12				П													12

Event#

Vessel Sta. I.D.

Instructions

Proj. & Leg MF-92-05 FOCI

Consec.Cast #

Vessel

MILLER FREEMAN

Sta. Designation Proj. & Leg Event# Vessel Sta. I.D. Consec.Cast # Vessel Instructions 004 MILLER FREEMAN MF-92-05 FOCI Latitude N Longitude E Date JD = 122 Time Wind Wind Dir. Sp. Old Weath. Bottom Sta. Name Dry Wet Consec. Bar. or g. Min. S Deg. GMT mb S S Dir. or I.D Depth, m Bulb Cast # Bulb W Day Mo. Yr. Hr. Min. **Data Location Monitor Checks** ID/Time Times Type & SN 91220-A SEABIRD Tape/Diskette I.D. File Name/Header on Deck Data on____ at Surface Press. SN 25084 Cast 004at Surface_____ Start Down Cond. SN ____303 at Bottom_____ Temp. _____ Start Up_____ Remarks Fux 58 Cond.______ at Surface_____ NUTS Other_______ Conv. Mon. Values-CTD Sample Bot.Data Sal. Other Trip Monitor Values Time @ Bot. # Samp. Bot. Rack Depth Depth Trip Therm-P Avg Tw Press. Temp. Cond. Sal. Other Press. Temp. Cond. Bot 229.198 4.889 31.379 32.596 2 200 200.790 4.769 31.146 32.458 176 3 150,200 4.478 30,725 32.280 175 100,499 4.922 30,993 32.183 100 75.318 4.716 30.691 32.048 50.525 4.671 30.580 31.975 6 50 35 30.285 4.570 30.387 31.859 20.548 4.994 30.729 31.851 8 20 9 9 10 9.511 5.323 30.976 31.825 10 10 11 12

Samples mixed up during Anti Sel run; Initials LL/WF no more good Auto Sil veadings until

Pg. 5 of ____ Consec.Cast # Vessel Proj. & Leg Event# MILLER FREEMAN MF-92-05 FOCI 39 Sta. Designation Event# Vessel Sta. I.D. Instructions Latitude N Longitude E Date JD = 122 Wind Wind Dir. Sp. Cloud Sp. Sp. Cloud Time Bottom Sta. Name Consec. Dry Wet Bar. . Min. GMT Depth, m or I.D mb Cast # Bulb Bulb S Deg. W Day Mo. Yr. Hr. Min. **Data Location** CTD **Monitor Checks** Times ID/Time Moi on Deck Type & SN 91220-A SEABIRD Tape/Diskette I.D. File Name/Header at Surface Data on____ Press. SN 25084 at Surface____ <u>Cast 005</u> Press. ______ Start Down____ Cond. SN 303 at Bottom_____ Temp. _____ Start Up_____ Remarks FOX 58 - Micro 200 + chlor Cond._____ at Surface_____ ->139 ml for CHL Other_____ Data off Sal. Other Sample Bot. Data Sal. Other vi Bot. # Samp. Conv. Mon. Values-CTD Monitor Values T Trip Time @ Bot. Rack Depth Depth Trip Therm-P Avg Tw Sal. Press. Temp. Cond. Press. Temp. Cond. Other Man 1 9,517 5,350 31,00 31.827 MZ/ch 2 2 31.023 31.839 5,359 20 ME/CHL 3 4.849 30.655 31.900 30 MZ/ 4 4.707 30.579 31.944 40 ME/CH 5 5 4.646 30.559 31.975 50 MZ 6 6 10 59,769 4,697 30.629 32.001 8 8 9 10 10 H 11 12

Initials _____/wf

Pg. _6 of ___ Sta. Designation Consec.Cast # Event# Vessel Sta. I.D. Proj. & Leg Vessel Instructions ODG MILLER FREEMAN MF-92-05 FOCI Latitude Longitude E Date ID = Cloud Duix Weath. Time Bottom I Sta. Name Wind Consec. Dry Wet Bar. or GMT Depth, m or I.D Dir. Bulb Bulb mb Cast # Deg. Min. S Deg. W Day Mo. Yr. Hr. Min. CTD **Data Location Monitor Checks** ID/Time Times Type & SN 91220-A SEABIRD Tape/Diskette I.D. on Deck File Name/Header at Surface Data on____ Press. SN 25084 at Surface_____ Cal 006 -Press. ______ Start Down Cond. SN 303 at Bottom____ Temp. _____ Remarks FOX 59 NO NUTS Start Up_____ Cond. at Surface_____ Sample Bot. Data | Sal. Other | w Data off_____ Other______ Sal. Other Sol Conv. Mon. Values-CTD **Monitor Values** T Trip Time @ Therm-P Avg Tw Bot. Rack Depth Depth Trip Press. Temp. Cond. Sal. Press. Cond. Other Temp. 11:30:90 227.284 4.677 31.091 32.471 2 60.744 4.792 30.685 31.974 3 49.811 4.804 30.668 31,949 39,925 4920 30,349 31,935 29.659 4.768 30.556 31.865 5 19,450 5.231 30,924 31.848 7 10, 308 5,405 31,032 31.810 8 9 9 10 10 11 11 12

* see note cast 4

Initials W/WF

Pg. _____ of ____ Sta. Designation Consec.Cast # Event# Vessel Sta. I.D. Vessel Proj. & Leg Instructions 007 MILLER FREEMAN MF-92-05 FOCI Longitude E Date JD = or Wind Wind Dir. Sp. Cloud Sp. Cloud Latitude N Time Sta. Name Bottom Dry Wet Bar. Consec. GMT or I.D Depth, m Bulb Bulb Cast # Min. Deg. S Deg. W Day Mo. Yr. Hr. Min. 01 M A Y 9 2 20 3 2 **Data Location** CTD **Monitor Checks** Times JD/Time Type & SN 91220-A SEABIRD Data on 202219 Tape/Diskette I.D. File Name/Header on Deck at Surface Press. SN 25084 COSTOOT_SIMMEDD2 at Bottom 203200 Cond. SN 303 Temp._____ Start Up_____ Cond.______ Remarks Fox 60 at Surface W8 284 Other_____ Data off____ Sal. Other Sample Bot.Data Conv. Mon. Values-CTD **Monitor Values** T Trip Time @ Bot. # Samp. Therm-P Avg Tw Bot. Rack Depth | Depth | Trip Temp. Cond. Sal. Temp. Cond. Other Press. Press. NUTS Box 107 2 250.439 4.767 31.207 32.506 250 186 3 200,600 4.732 36.952 32,270 200 185 150.178 4.769 30.842 32.133 4 150 184 5 105,130 4.719 30,706 32,049 150 183 6 75.304 4.516 30.437 31.947 162 7 50.404 4.804 30,599 31.868 181 30.207 5,173 30 884 8 31852 100 9 9 20.504 5.376 31.029 31.829 20 170 10 10.287 5.632 31.198 31.782 10 H 11 12

see note

Initials SAM

																	Pg.	8	of	
Cc	nsec.	Cast	<i>_</i> _	Vessel		EMAN P	roj. & Leg		1	Vessel :	Sta. I.D.	Instr	ıctions				Sta. D	esignatio	n	
	nsec. st #	Deg	Latit	ude	N or		ıde E or	Date	JD =	Tim GM ⁻ Hr.	г	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind PioOO	Meath Dept		ta. Name or I.D	
0	08	54	741	00	N 1	5510	33 W	01	1 A Y 9 2	21	130	4 5	020	04:	28283			90G	006	3
Typ Pr Te	CT	DZ 7 7 7	25084 701	12	P T	Press emp Cond Other	on Deck			ce	Data at Sur Start Do at Boto Start at Sur	nes a on 210 face 2 tom 21 Up face 2 a off	1800 1800	Rem	oe/Diskette		File Nan	- 800 - W	016 HAN 010	
os.	Bot.	T Rack	Trip	Time Depth	e @	Press.	Mon	itor Va		ther			Values-CT	D Sal.	Sar Therm-P	nple Bot.D	ata Sal.	Sal.	Other Samp.	Pos.
ı			305		Trip	11633,	Temp		Joria. O	Liter	17033.		Cond.	Jul.			- WA			1
2			60								0.104	4.819	30.701	31.967				- W	MZ	
3			40	3 72						1117			30.643	1					CHMZ	3
4			40										30.658						CHYMZ	4
5			30			= # #¥													CHYM	
6			20							ć	00146	5.172	30.877	31.851		1003m			CHL/MZ	
7			10								0.167	5.374	31.022	31.828					CHYMZ	
8												- T								8
9				E																9
10								= =			W	H	E94							l
11						e e				80				7.5		1 = 1				l
12	121												12							ľ

Initials _____

															Pg.	9	of	_
Conse	c.Cast	# 1	Vesse	er Fre		j. & Leg F-92-0 5	FOCI	vent# Vess	el Sta. I.D.	Instru	ictions	· · · · · · · · · · · · · · · · · · ·			Sta. De	esignatio	n	
Consec Cast #	:	Latit	ude	N or S De	Longitud	le E [Date JD =	= T	ime MT Min.	Dry Bulb	Wet Bulb	Bar. mb ഗ	Wind	Wind pnolO Sp. Q	Bott Dept		ta. Namo	2
00	15	747	60	N	5 15 4	OWC	MAY	9223	2020	72	042	052	8000	0018		696	007	A
Type &	CTD SN	91220-	-A SEA	BIRD	•		itor Chec		Tin		D/Time		-/D:-l	Data Loca		/114		
Press.		25084				n Deck		nt Surface		on face		1 '	e/Diskette		File Nan	ne/ Head	er !MAH 21	51
Temp.	SN	701		_ Pi	ress		2114	9110/21:54	Start Do	wn		ربي	569		· (_Vot	<u>J = + </u>		
Cond.	SN_	303		_ Te	emp				at Bott	ه (C_ mo: <u>۱۲۵ - J</u>	255							
				_	ond ther				at Surf	face		Rema	rks Fox	61		(L)	10 26	L
S.	T	Trip	Tim	ne @			or Values		Co	onv. Mon.	Values-CT			nple Bot.Da	ita	Sal. Bot. #	Other	os.
& Bot	Rack	Depth 250	Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw		Bot. #	Samp.	
1 3	BB	BUT	226330	220830					249.690	4.952	31.244	32.369			*	26	196	-
2	9 1	200	88						199.790	4.842	30.957	32.170					195	2
3		150						20	150.584	4759	30.714	31,994					194	3
4		130							101.063		30.656						193	4
5		75							74.728	4.974	30.768	31888					192	5
6		50							50.144	5.065	30,791	31.840	1				191	6
7		30	<u> </u>							5,322	30.973	31,812			10		190	7
8		20							19.846	5,532	31,135	31.801			 	1	189	1
9		10	i					10	9.932	5.446	36.895	31,616					188	ī
10										R			<u> </u>		-		<u> </u>	11
11			<u> </u>									*	ļ					
12													1		<u> </u>		25,64	I.
<u></u>							I				2%	V.	· wate	davt 4		Initials	WF	

to see water const

Pg. 10 of ____ Sta. Designation Consec.Cast # Vessel Proj. & Leg Event# Vessel Sta. I.D. Instructions 610 MILLER FREEMAN MF-92-05 FOCI Longitude E Date JD = Latitude Mind Cloud Veath. Time Sta. Name Bottom Wind Consec. Dry Bar. Wet or S Deg. Min. GMT or I.D Depth, m mb Dir. Bulb Cast # Bulb Deg. W Day Mo. Yr. Hr. Min. **Data Location** CTD JD/Time **Monitor Checks** Times Type & SN 91220-A SEABIRD Tape/Diskette I.D. Data on 2239 18 File Name/Header on Deck at Surface Cost 010-01MM/2235 Press. SN ____25084 Temp. SN 701 Cond. SN___303 at Bottom____ Remarks FOX(6) Cond._____ -139 me for CHL Other_____ WO 100 Conv. Mon. Values-CTD Sample Bot.Data Sal. Other So Bot. # Samp. Monitor Values Trip Time @ Bot. Rack Depth Depth Trip Press. Temp. Cond. Therm-P Avg Tw Temp. Other Press. Cond. MZ 100.19< 4892 30,643 31.830 60 M2/GHZ 2 50,029 5,088 30.807 31.835 M2/CH 3 40.106 5.045 30.738 31.803 3 UD MZ/Un 4 30.254 5.447 31.078 31.812 ME/CHI 5 19.971 5.527 31.099 31.765 5 10 6 9.834 5.546 30.949 31.583 10 per log File WO 8 ho 9 10 10 11 12

Initials SKM

Sta. Designation vessel Proj. & Leg Event#

MILLER FREEMAN MF-92-05 FOCI Consec.Cast # Vessel Sta. I.D. Instructions 01 Latitude N Longitude E Date JD = 126 Wind Wind Dir. Sp. Cloud Ayeath. Time Bottom Sta. Name Dry Bar. Wet Consec. or S Deg. GMT mb Si Si Dir. Depth, m or I.D Bulb Cast # Bulb Deg. Min. W Day Mo. Yr. Hr. Min. **Data Location** CTD JD/Time **Monitor Checks** Times Type & SN 91220-A SEABIRD Data on () 105 Tape/Diskette I.D. File Name/Header on Deck at Surface Press. SN 25084 Cart 011 - 05 May 0100 Press. _________ Cond. SN___303 at Bottom____ Temp. _____ Start Up____ Remarks FOX:152 Cond._____ at Surface Other_____ Data off _____ Sal. Other Sample Bot.Data Conv. Mon. Values-CTD **Monitor Values** T Trip Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Therm-P Avg Tw Temp. Cond. Temp. Other Press. Press. Cond. Pol 2 1. B 5 43 color changed on monitor 6 7 coneolin tropal Deven 20 8 8 10 10 20 H ping 12 /4000

Initials ________

Pg. 12 of _____ Sta. Designation

Co	onsec	.Cast	# 12/	Vesse		Pro	j. & Leg		ent# Vesso	el Sta. I.D.	Instru	ctions				Sta. De	signatio	n	
i	nsec. ist #		Latit		N or S De	Longitud	le E D a	ate JD =	26 Ti	me MT Min.	Dry Bulb	Wet Bulb	Bar. mb si	Wind ighthat Dir.	Wind Pnol	Meath Depth	- 1	ta. Nam or I.D	е
J	12	5	5 5 4	21	N 1 5	5 59 0	3 w 0	5 M A Y	9201	220	22	- 0 Z	094	8280	1838		80 G	045	B
Ту	De & S	TD SN	91220-	-A SEA	<u>NB</u> IRD			tor Checks				D/Time		e/Diskette I	Data Loc		-/Llaad		
Pr	ess. S	N	25084				n Deck		Surface	at Sur	on <u>011</u> face			012		File Nam			18
		,	701 303		-	ess mp				Start Do	tom_017	7 2						0	
-	JIIG. 3				_ c	ond ther				Start at Sur	Up face		Rema	rks Fox	152	new Co	netur	78	
os.	Bot	Pack	Trip	Tim Depth	ne @	D		r Values	0.1	C	onv. Mon.	Values-CT		San Therm-P	nple Bot.D Avg Tw			Other	Pos.
<u>-</u>	7		27		6127	Press.	Temp.	Cond.	Other	Press.	Temp.	31.060	Sal.	Inerm-r	Avg Iw	32, 2445		Jan.p.	1
2					017											78.10 10		NZ	2
3	30		60									31.069						CNI	
	1		50									31043						CKR/	
4	2		40	-						41053	4,768	31.058						CHI	1
5	28		30							36,329	5.001	31.084	32.246					Ma	13
6	4		20				<u> </u>			20.329	5.040	31.113	32,247			_		/MZ	
7	ro		150							15.493	5.036	31.107	32247					only	
8	27		15,							15.500	5.043	31.113	32,247					only	
9	22		10									31.098						chil	2 9
	20		15																10
	pin					72.0							:5						11
	Star																		12
_	1		4	1	J	· · · · · · · · · · · · · · · · · · ·	1		·			F			.1		Initials	OX W	

Initials A

Pg. 15 of ______Sta. Designation

C	onse	Cası	#3	Vesse		Pro EEMAN M	oj. & Leg		nt# V	essel Sta. I.D.	Instri	uctions				Sta. De	signatio		
	onsec ast #	De	Latit	ude Min.	N or	Longitud	de E D	ate JD = 1	26	Time GMT Ir. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Si Dir.	Wind B	Meath Depth		or I.D	ie
٥	13	TD	5 5 4			56113	Moni	M A Y tor Checks	9 2	252C	Z I	- 0 JD/Time	094	8275		8102e	ZG	046	B
P	ress. S	N_		-A SEA	- F	oPress Temp Cond			urface	at Sur Start D	rfaceown			H _a		Con 013	-		<u></u>
os. 1	Bor	T	Trip	Tim Depth		Other		r Values	Other	Dat	a off	. Values-CT		San	nple Bot.[Data	Sal.	Other Samp.	
_			10.1		6257		тетр.	Cond.	Other			32,200		mem-r	AAR I.M.	Sal. 32.9302	ye office	Samp.	1
	26		lev						TIV.			30.185		6 W				NZ	2
	21		50									29.997						Ch/ME	3
4	2	3/1	40			V 35			ă .	40.609		,						che/mz	
5	28		30							30.708	4.242	30,016	31,743					Ch!	5
6	6		20	3 <u></u> L						20.660	4.320	36.074	31.741					chile with	2 6
	20		10						1	10.519		30.082						only	1
	27		10							10.562		30.089						vote	8
	22		10		2.					10.506	4.343	30.088	31.740					Chi	
	20					S TV													10
	wigh	,	III.				N				31								11
12	XX					<u> </u>									<u></u>		Initials	- 2x/1	12

Initials ______

Pg. 14 of ____ Event# Vessel Sta. I.D. Sta. Designation Proj. & Leg Instructions MILLER FREEMAN MF-92-05 FOCT Longitude E Date ID = Time Wind Wind Pad High Bottom Dir. Sp. OD High Depth, m Sta. Name Dry Wet 126 Si Si Dir. or 126 GMT W Day Mo. Yr. Hr. Min. or S Deg. Bulb Bulb or I.D 05 MAY 92034 **Data Location Monitor Checks** JD/Time **Times** on Deck Data on____ Tape/Diskette I.D. at Surface File Name/Header at Surface 0335 C== 1014-05May0334 Press. _____ Start Down____ at Bottom Temp. _____ Start Up_____ Remarks Fox 154 Cond._____ at Surface _____ Ws 227 Data off____ Sal. Other Samp. **Monitor Values** Conv. Mon. Values-CTD Sample Bot.Data Press. Temp. Cond. Other Sal. Therm-P Avg Tw Temp. Cond. 216.642 5.427 32,201 33.014 201,130 5.247 31.849 32,798 150.640 4.750 30.990 32,322 203 100.538 4.336 30.383 32.045 74.584 3.939 29.883 31.858 201 50.217 3.791 29.686 31782 200 6 29.906 4.060 29.863 31.7-11 198 8 9.733 4.364 30.110 31.741 10.004 4.428 30,156 31-737 31,7402

Consec.Cast #

CTD

Consec.

Cast #

26

3 2

18

20

22

20

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12

014

Type & SN 91220-A SEABIRD

Press. SN 25084 Temp. SN 701

Cond. SN 303

T Trip

Bot. Rack Depth Depth Trip

Latitude

Min.

Vessel

Time @

Box

200

156

100

25

50

30

20

10

Other____

Press.

Initials _ SAM

Pg. <u>15</u> of ____ Event# Vessel Sta. I.D. Sta. Designation Consec.Cast # Vessel Proj. & Leg Instructions MILLER FREEMAN MF-92-05 FOCI Longitude E Date JD = Time
or 126 GMT
W Day Mo. Yr. Hr. Min. Latitude Wind Wind Pack Bottom
Dir. Sp. OD The Bottom
Depth, m Sta. Name Dry Wet Consec. or S Deg. S. S. or I.D Bulb Bulb Cast # Min. CTD **Data Location Monitor Checks** ID/Time Times Type & SN 91220-A SEABIRD on Deck Tape/Diskette I.D. at Surface Data on.... File Name/Header Press. SN 25084 at Surface_____ (101015_05MA-0428 Start Down_____0435 Cond. SN _____303 Temp. _____ Start Up_____at Surface_____ Remarks Fox 154 Cond.______ Other____ Data off_____ **Monitor Values** Conv. Mon. Values-CTD Sample Bot.Data Sal. Other Son Bot. # Samp. Trip Time @ Bot. Rack Depth | Depth | Trip Temp. Cond. Therm-P Avg Tw Press. Press. Sal. Cond. Other Temp. MZ 59.540 4.103 30.007 31852 60 50,563 4.043 79.922 31.815 50 40.095 3.999 29.850 31.789 40 30.187 4.086 29.901 31759 30 20.012 4.239 30.008 31.742 5 20 9.704 4.407 30,137 31.736 20 31,7550 10 727 8 8 9 10 10 11 12 12

Initials SAM

Pg. 16 of _ Sta. Designation

C	onsec	.Cast	#	Vessel	R FRF	Pro	oj. & Leg		nt# \	essel Sta. I.D.	Instr	uctions					esignatio		
	nsec st #	De	Latite g.	ı əb u	N or S De	Longitud	le E D	ate $JD = \frac{1}{2}$	0 11	Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind is Dir.	Wind Paol	Meath Dept		ta. Nam or I.D	ie
0	16	5	550	054	N \	562110	5 W O	5 M A Y	9 2	5440	15	- 05	104	8297			28 G	-048	B
Tv	ce&	TD SN	91220-	A SEAB	IRD			tor Checks				JD/Time		(D: 1	Data Lo				
P	ess. S	N_	25084	0			n Deck		Surface		a on face		1 .	e/Diskette	•	File Nam			
Te	mp. S	N	701 303		1	ress emp				Start D	own	544		7, 4,7					
_	Jilu.				1	ond				Start	Up	546	Rema	rks 🕜					
_					0	ther				Dat	face a off			10	X155			223	_
Pos.	Bot.	T Rack	Trip Depth	Time Depth		Press.	Monito Temp.	r Values Cond.	Othe		onv. Mon Temp.	. Values-CT Cond.	D Sal.		nple Bot.[Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
1	26		301					Cong.				31.821		5		32.7485		ALITS	
2	21		200									31.197				70.110	10	213	
3	2		150		- 0.0	in the second				150.327	Γ',						Von	212	3
4	28		100	5		8		1 2 2				30.249						211	4
5	,		95			-						39.892				76		210	5
6	20		50									29.726						209	1
7	77		30					- 1 E				29.790						208	
8	22		20									29.943					- **	207	
_	20A		10			п			Ш.	- 1.50	4.284	1			4			206	1
10	a											3,0							10
11														8					11
12										11.23			5						12
						<u> </u>					- 1	- 10	I		1		Initials	SAI	1

Consec.C	ast # 7	Vess			oj. & Leg IF-92-05		Event#	Vessel Sta. I	.D.	Instru	ctions	-		10.00	Sta. D	esignatio	n	
Consec. Cast #	Lat Deg.	Min.	N or	Longitud	de E [Day Mo	. Yr.	Time GMT Hr. Min.	R	Dry ulb	Wet Bulb		Wind Dir.	Wind pno		h, m	Sta. Nam or I.D	
017	555	6 30	N 1	5620	810 W C	5 ^M A	Y 92	0632	0	15	-05	1113	8300			3 Z G	048	<u> </u> C
CTD Type & SN	9122	O-A SEA	AB I RD	0	Mon on Deck	itor Che	c ks at Surfac		Time Data o	-	D/Time	Tane	e/Diskette	Data Loc	ation File Nan	oo/Head	lor	
Press. SN	701	4	- .	Press	III Deck		at Julijat	at	Surfac	e 06	24		017		C02401			
Temp. SN Cond. SN			-	emp					rt Dow Bottoi	m 06	25 32							
				Cond						P		Remai	rks Fox	l comme			,	
				Other					Data c	off					-50 T	-	10 59	1
S Bot. Ra	T Trip	Tin Depth	ne @	Press.	Monitor	Cond		ner Pres		v. Mon. Temp.	Values-CT Cond.	D Sal.		nple Bot. [Avg Tw	Data Sal.	Sal. Bot. #	Other Samp.	Pos.
138 3		0627				Gont					29.758				31.7821	12	1:49-	ī
2 26	610										29.760				71, 180		MS	2
3 21	2011	9 9 10	1									THE RESERVE TO SHARE THE				- Ve	Ung.	_
	50		-		Fac SV						29.813	31,767					Child May	
-	40			8			33 34										100/	5
5 28	30									1,103	29.904						100	
6 6	05			b.				20,49		1277	30.035	31.736					Charles and the contract of th	6
7 20	10							10.00	7 4	.280	30.033	31.737					chi/m	-
8 27				i i														8
9 22.					T													9
10 NA																		10
11												840?						11
12								- 1 Et										12
			'				112			_					20	Initials	SAN	Ŋ

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Pg. 17 of __

Pg. <u>\&</u> of ____

Co	nsec.	Cast	; # 8	Vessel			oj. & Leg F-92-0 5	FOCT	Event#	Vessel Sta. I	I.D.	Instru	ctions	iii			Sta. D	esignatio	n	
	nsec. st #	De	Latit	ıde	N or	Longitue Deg.	de E D	ate JD:	126	Time GMT Hr. Min.		Dry Bulb	Wet Bulb	Bar. mb si	Wind ⊝ Dir.	Wind Pnol	Meath Dep		or I.D	e
2	18	3	550	86	NI	5626	37 W O	S M A	9 2	0718	30	11	-01	1113	8305	125	1 1 1	05G	049	4
	C & S	ΓD	91220-	A SEAI	RIDD		Mon	itor Chec	:ks		Tin		D/Time			Data Loc				
	ess. S		25084	A SERI		C	n Deck		at Surfac	ce	Data Surf	on <u>1970</u> ace 0710)		e/Diskette		File Nar			Ç.
	mp. S	_	701			Press				Sta	rt Do	own 6711	130		24 018		Confor	J-031	<u> </u>	3.
Co	nd. S	N_	303		-	Temp				at	t Bott	om01 Up	17							_
-			_			Cond.		.,	<u> </u>		t Sur	face		Rema	rks Fox	156		r.do	209	
. 1		1 -	Trip	Time	_	Other	Monito	or Values				off	Values-CT			nple Bot.	Data	Sal.	Other	ſ
S.	Bot.	Rack	Depth	Tim Depth	e @ Trip	Press.	Temp.	Cond		her Pres		Temp.	Cond.	Sal.		Avg Tw		Bot. #	Samp.	-
	26		196	ciesani	14					196.	161	5.065	31.466	32,540			32.5195	15	222	-
2	21	8	150	6									30.919						221	
3	2		150							00.6	180	4.094	30.092	31.939					220	+
1	28		75	展						750	OUC	3.952	29.902	31.868					219	ļ
5	6		50		8	2412			8				09.788						218	4
6	20		30					00					29961		7				217	4
7	27		20							20.3	386	4.209	29.964	31.719			E-		216	
8	22		10					39		9.6	79	4,196	29.946	31.717					215	
9	W		10											l s s						
10													0						1 =	
11								ř												
12										9									#	
				1 .	,		, '						N					Initials	841	<u>^</u>

Sta. Designation Consec.Cast # Proj. & Leg Event# Vessel Sta. I.D. Instructions Vessel 019 200 MILLER EREEMAN MF-92-05 FOCI Latitude N Longitude E Date ID = Wind Wind Dir. Sp. Jype Wind Weath Time Bottom | Sta. Name Dry Wet Bar. Consec. GMT or I.D Depth, m Bulb Bulb mb Cast # Deg. Min. S Deg. W Day Mo. Yr. Hr. Min. 019555656 N **Data Location** CTD **Monitor Checks** ID/Time Times Type & SN 91220-A SEABIRD Tape/Diskette I.D. File Name/Header on Deck at Surface Data on capt 019 Press. SN 25084 Cento19-054111 0754 at Surface_____ Press. Start Down____ Cond. SN 303 at Bottom____ Temp. _____ Start Up_____ Cond.______ Remarks FOX 156 at Surface w/0 60 Other_____ Data off_____ Sal. Other Bot. # Samp. Conv. Mon. Values-CTD Sample Bot.Data **Monitor Values** T Trip Time @ Bot. Rack Depth Depth Trip Therm-P Avg Tw Sal. Sal. Press. Temp. Cond. Temp. Cond. Other Press. M3 3.829 126 31.820 29.754 60.643 60 chem 2 3.846. 31.785 2 21 29.733 50.039 29.977 31.761 4.171 40 39.929 Curius 4 30.017 31.712 29.444 4,281 28 30 5 4.287 30.040 31.733 20 19.848 6 20 4,271 30.021 31.731 9.826 10 27 8 ez 9 ZUA 10 10 11 н 12 12

Initials 4

Conse	Cast	; #)	Vesse		Pro EMAN ME	j. & Leg	1	ent# Vessel	Sta. I.D.	Instru	ıctions				Sta. De	signation <u>Sいみ</u>	1 Fox 15	7
Consec Cast #		Latit	ude	N or S De	Longitud	le E Da	ite JD =	Yr. Hr.	IT	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind Pnol	Botto Depth		ta. Name or I.D	<u>.</u>
026	5	557	769	N /	5 630 8	OWO	5 M A Y	9 2 0 8	58	11	-/2	/ / 3	830	1058	/ == /	98G	050	4
Type & Press. Temp. Cond.	SN SN	25084 701	-A SEA	- P	oress emp Cond Other	n Deck		Surface	at Surfact Do at Bott Start Start at Surf	on ace wn om Up			oe/Diskette		File Nam			
	lτ	Trip	Tim				r Values	I			Values-CT		Sar	nple Bot.D		Sal.	Other Samp.	os.
8 Bot	. Rack	Depth	Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.	Bot. #	Samp.	_
T	B	Beller	6		191,828	5.299	31.893	32.801										1
2	#	60	- Printer C		54.593	3,952	29,814	31.772									MZ	2
3		50	6	٠.,	50.735		29.989	31.736	-		liis i		- 5				Cho _{M2}	3
4		40			40.460	4.272	30.016	31.710									MZ	4
5		30			30. 788	4.259	29.999	31.707									Chel	5
6		20						31.708					1			<u> </u>	Mi	6
7		10				4.253		31.708									China (7
8								-					2					8
9											=		ı ii					9
10	В	181	0859	Nand	181,206	5,289	31.864	32,783		1				W	32.7730	34	sal	10
ΙΪ	1			101	70							**						1
12		1	<u> </u>			N												12
		4	<u> </u>	<u>.</u>	196	1		<u> </u>		C	N/v		-			Initials	LL	

Initials _____

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Conse	c. Cast	#021	Vessel			Proj. & L MF-92-		_	/ent# २०3	Vesse	l Sta. I.D.	Instru	ıctions		•			27		Sta.	Desig	gnatio	n 	
Consec Cast #		Latitu g.	ıde	or S De	Longi	itude	E D:	ate JD =		Tir GN Hr.		Dry Bulb	Wet Bulb	Bar. mb	S. S.	ζis. Λ	Vind Dir.	Wind Sp.	Cloud	Weath.	otton pth, i	m	ta. Name or I.D	
02	5	557	98	N 15	637	754	M D	5 M A Y	9 2	177	09	1 1	-11	/ /	3	8 3	05	10	58	2 1	19	66	051	A
Type &	SN_ SN_ SN_	91220- 25084 701		Pr Te	ress mp ond	on Dec	ck		s : Surfac	ce	at Surf Start Do at Bott Start at Sur	on face own om Up face					ette I	Data .D		File N casto	ame/	05/4.	er \up 0 955	
	1 -	Trip	T:	 _	ther			r Values				off	. Values-CT	 D	1	-	San	ple B	ot.Da				Other Samp.	S.
S Bot	. Rack	Depth	Time Depth	e @ Trip	Pres		emp.	Cond.	Ot	her	Press.	Temp.	Cond.	Sal.		Ther		Avg		Sal.	E	Bot. #		
1		100	10						8		9.798	4.316	30.021	31.68	39								The	
2			20	2							19.763	4,320	30.028	31.68	38								M2/Chl	2
3			30								30,121	3,980	29.802	31.7	46								Malu	
4			40								39.886	3.992	29.840	311	173								Myken	
5			50								49,928	4.020	29.882	31.7	91								Mil	
6			60								60.733	4.067	29.950	31.8	319			4					MZ	_
7		-	1 5 X					20	=															7
8			183			2/					183.424	4.614	30.964	32.4	108					32,40	22	29	bal	
9																								9
10												Щ												10
11		~			-									7.5	1							10		11
12												=												12
<u> </u>	<u> </u>	٠	,		1	<u>, I</u>															Į.	nitials	U	-

1 9 10 10.474 4.066 29.774 31.640 7th 1 2 20 433 3.857 29.634 31.675																			Pg.		of		
Consect	Consec	.Cast	# 022	1	R FRF				Α.		Sta. I.D.	Instruc	tions						Sta. De	esignatio	on		2.5
Time		1		u de 1	N or	Longit	ude E or	Date	JD =	Tin GM	1T	,			ır. b S.S.	Wind ∑ Dir.	Wind Sp.	Cloud		h, m	or I.D		
Type & SN 91220-A SEABIRD On Deck at Surface Data on at Surface Start Up Start Up Start Up Start Up Depth Trip Press. Temp. Cond. Other Depth Trip Press. Temp. Cond. Sai. Therm-P Avg Tw Sai. Bot. # Sample Bot					NE L.	5647	76 W	0 5 M	1 A Y 9	2/2	43	6 0	- 1 0	1	2 3	8315				86	6 5 2	4	
A Superior Super	Press. S Temp. S	N	25084 701		Pr	ess	on Deck			face	Data at Surf	on ace wn	. 43		Таре	/Diskette I			File Nan		- (
1											at Surf	off				47 ch/0				4	<u> </u>		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	So Bot.	T Rack	Trip Depth	-Time	Trip	Press.				Other					Sal.		<u> </u>		Sal.	Sal. Bot. #	Other Samp.	Pos.	21
2	1		9								10.474	4.066	29.774	3.	40						un	1	
4 30 30.754 3.707 29.542 31.703 Million 4 5 40 40 40.566 3.599 29.470 31.718 Million 6 50 50.555 3.516 29.414 31.728 Million 6 60.475 3.364 29.304 31.740 Million 6 8 8	2		27	20							20.433										MZ CHIL	2	2.4
5 40 40.56 3.599 29.470 31.718	3		sal de	30			\$1 B				30,791	3.714	29.547	31	702			3	.7100	27			29 or 21
5 40 40 566 3.599 29.470 31.718 /mt/5 6 50.555 3.516 29.414 31.728 /mt/6 7 60.475 3.364 29.304 31.740 Mt/7 8 8	4	H ₂	i w	30																	CHL	4	
50.555 3516 29.414 31.728 7 Cm 6 7 60.475 3.364 29.364 31.740 8 8 8	5			40							40.566	3.599	29.470	31	.718					2		5	
8 8	6			50				- 3							728							1	
	7			60						1	60.475	3.364	29.304	31.	740				-		MZ		
9 9	8																					8	
	9																			_		9	
10	10											115										10	
	11			3		79				8				= 3								11	
Initials VV	12															8						12	

Initials LV

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Consec	.Cas	ι# ₀ 23	Vessel	EDEEMAN	Proj. & Leg		Event#	Vessel Sta	a. I.D.	Instru	ictions				Sta. De	signatio	n e	
Consec Cast #	1	Latitu		Lon	gitude E or W		126	Time GMT Hr. M		Dry Bulb	Wet Bulb	Bar. mb	Wind Si Dir.	Wind Page	Botto	, m	ta. Name or i.D	
023	5	621	5 Ø N	1565	196 W	0 5 M A	Y 9 2	1 3 3	3 -	07	- 22	123	8301	0123		56	053	1
Type & Press. Temp. Cond.	SN_ SN_	25084 701	A SEABI	Press Temp	on Deck		at Surfa		at Surfa Start Dov at Botto Start	es		Tape	e/Diskette		ation File Nam (a 4 0 2 3 _ 0	Shay	1324	
1				Other_					Data	off		FOXIL	18				0/0/29	-
So Bot	T	Trip	Time (itor Valu		ther P	Co ress.	nv. Mon. Temp.	Values-CTI Cond.	D Sal.		mple Bot.D Avg Tw		4	Other Samp.	Pos.
1	_	21120	33',50	TIP TIE	33. 1011	J. CO.	iu. O			3,040	29.075	31.748			31.7496	14		1
2		100							1.458	3.040	29.064	31.748					228	2
3		15						77	5.548	3.127	29,116	31.739					227	3
4		50	F					50	1,700	3.306	29,246	31,732					226	_
5		30					~1_=	30	, 869	3,992	29.762	31.686					225	5
6		20						2	0.929	4.008	29.769						224	_
7		10				Ž.		1	0.785	4,00	29,760	31.686					113	
8															<u> </u>	-		8
9																		9
10							2										-	10
11																		11
12					lo.						10					Initials	bb	12
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Initials _____

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Conse	c.Ca	ist #	Vessel		Pr EMAN N	oj. & Leg		Event	# Vess	el Sta. I.D.	Instr	uctions		N		4		Sta. De	signatio	າ	
Conse Cast 4	c. =	Lati Deg.	tude i	N or S De	Longitu		Date	JD =	G	me MT Min.	Dry Bulb	Wet Bulb	Bar. mb	S. S.	Wind Dir.	Wind Sp.	Type Weath.	Botto Depth	, m	a. Name or I.D	
02	7 5	562		N 1 3	5652	1 1 W	05	M A Y 9	2 1 4	12-	05	- 22	12	3 8	8300		36/	1 /	295	053	B
Type & Press Temp Cond	.SN_ .SN_	25084 701)-A SEAB	Pr Te Co	ess mp ond ther	on Deck			face	Date at Sur Start D at Bot Start at Sur	nes a on face tom/ Up face a off	412		ape/	Could	Data L I.D.	F	n File Nam <u>ut 024</u>			12
	Тт	Trip	Time				itor V	alues				. Values-CT			Sai	mple Bo			Sal.	Other Samp.	
S Bo	t. Rac	ck Depti	Depth	Trip	Press.	Temp			Other	Press.	Temp.	Cond.	Sal.		Therm-P	Avg T	w	Sal	Bot. #	Samp.	4
1		10	100						With Control	9.881	4.033	29.785	31.68	4						MZ/CHL	
2		20								19.682	4.026	29.783	31.68	5						MZ	2
3		30	#K-100							29,839	4.013	29.778	31.68	5						CHL	_3
4	115	40			74					40.047	3.985	29.759	31.6	86						11.H	4
5		50		1						50.165	3,635	29.504	31.7	19						MZ	5
6		60			===					60,780	3,408	29.332	31.73	30						MZ	6
7																				<u> </u>	7
8																					8
9	+										8				<u>l-</u> =	24					9
10																					10
11	+-		5 -															<u> </u>			11
12										1					-			12			12
	٠					1						*	-						Initials	11	

Initials V

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Conse	c.Cas	it #	Vessel	D EDEEMAN	Proj. & Le	g 5 FOCT	Event#	Vessel Sta. 1.	D.	Instru	ctions				Sta.	Designati	on 	
Consec		Latitu	ude No	ll Lo	ngitude E	Date JD		Time GMT Hr. Min.	Dry Bult		Wet Bulb	Bar. mb	Wind <u>ين</u> Dir.	Wind Pno Sp.	Meath.	pth, m	Sta. Namo	е
02	5 5	624	0 2	N 154	5512	5 M A	Y 92	1453	- 1	٥	- 2 5	1 2 3	830		e /	1230	9054	A
Type & Press. Temp.	SN_	25084 701	A SEAB	Press. Temp.	on Deck		at Surfa	at Star	Start Up.			Rema	ne/Diskette		File N Cast 02	ame/Hea		
, a	T Trip Time @ Monitor Values Temp.															40117		
os.	T	Trip	Time	@ 	ress. Ten			her Pres		Mon. emp.	Values-CT Cond.	Sal.		Avg Tw	Sal.	Bot.	# Samp.	Pos
1	c, raci	100	Depth	Пр	1633.	ip. Cond	<u>.</u>		91 3.0		29.067						234	I
2		15					*		23 3.		29.077	31.740					233	2
3		50						50.99	19 3.	533	29.427	31,726					232	3
4	Hi Si Si	30	3					36.0	55 4-	013	29.765	31.670					1231	_
5		20						19.9	04 4.	026						# #	1200	
6		10						10.0	159 4.	002	29.720	31.639					1229	7
7																		-
8	<u> </u>		1,7	20													3	9
9											::						-	10
10	-																	11
11					M I													12
12		<u></u>									že.				1	Initia	ls LL	

Initials _____

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Conse	c.Cas	t # 026	Vesse		EEMAN N	roj. & Leg	EOCI	Event#	Vessel St	a. I.D.	Instru	ctions				Sta. De	signation) 	
Consec Cast #		Latit	ude	N or	Longitu eg.		Date JD	= 26	Time GMT Hr. N		Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind Pno		n, m	a. Name or I.D	
02	65	624	04	N /	5655	30 W	0 5 M A	Y 9 2	151	7 -	1 0	- 2 5	123	8300			246	054	8
Type & Press. Temp.	SN_ SN_		-A SEA	F	Press emp	on Deck		at Surfa		Data at Surf Start Do at Bott Start	face face own tom			e/Diskette		File Nam	-05		2
	Temp.														- ·				
S Bot	T Rack	Trip Depth	Tim Depth	e @ Trip	Press.	Mon Temp			ther F	ress.	Temp.	Cond.	Sal.			Sal.	Bot. #	Samp.	8 S
1		10						1			100 min						4	and a	1
2		10							/	0.118	3.983	29.699	31.632					MZCHL	2
3		20							1	9.898	3.996	29.714	31.632					MECH	3
4	100	30	\$		Smill)				3	6.077	4.000	29.729	31.640					/ (/ML)	4
5		40						Te E	4	0,040	3.944	29.70	31.657		S 113	× ×		MZ/Ch	5
6		50							4	9,799	3,932	29.711	31.675					CHL	
7		(00)							6	0.490	3.624	29.499	31.716					MZ	7
8	1	60	17:18						6	0.419	3.630	29.052	31,716			31.7156	24		8
9																		-	9
10															-				10
11				55														ļ	11
12											00		Ŋ.					1.1.	12
				•								22	8)				Initials	LL	

																Pg		of
Consec.	.Cast #	027 V	essel	FREEMAN	Proj. 8	Leg	EUCI	Event#	Vessel	Sta. I.D.	Instru	ıctions				Sta. D	esignatio	n
Consec. Cast #		Latitude	N or	Lor Deg.	ngitude	E or	Date JD) = 26	Tim GM Hr.	Т	Dry Bulb	Wet Bulb	Bar. mb si	Wind اغز Dir.	Wind Pi Sp. O	Negath Depr		or I.D
027	56	266	0 N	1563	7 3 9	W	6 3 M A	Y 92	16	01	15	-10	132	832			976	0554
CT Type & S Press. S Temp. S	CTD 91220-A SEABIRD Monitor Checks on Deck at Surface Data on																	
	Cond. SN 303 Temp. Start Up Remarks 05 Seacat cal (Seacat on Vosette) at Surface Data off Conv. Mon. Values-CTD Sample Bot. Data Sal. Other															93		
	Cond																	
Other Data off Chl/mg Fox 150																		
1		10								9.644	3.867	29.636	31.669			31.6687	25	
2		0								9.626	3.868	29:636	31.668					M2/cH2
3		20								19.713	3,840	29.620	31.672					MZ/GH 3
4		30									3.844					40m MZ	Sample	MZ/CHL 4
5		40								39.763			31,672			165+ auc	10	all
6		50								49.674	3.846	29.642	31.677			faulty bother	VIDEIN	MECHZ
7		00								59.353	3.838	29.644	31.682					MZ ?
8								W. F										1
9						34	1 00								<u> </u>			1
10																×		-
11														7 2				
12			-93														Initials	64
																	milliais	

													_			Pg		of	<u>.</u> _
Conse	.Cast	t#	Vesse		Pro FMAN MF	j. & Leg	Eve	ent# Vesse	Sta. I.D.	Instru	ctions			-	S	ta. Desig	nation	1	-
Consec Cast #		Latiti	ıde	R FRE N or S De	Longitud	e ED: or	ate $JD = \frac{3}{3}$	/ Ti	me MT Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Si Dir.	Wind PholO	Type Weath.	Bottom Depth, n	St	a. Name or I.D	
		652	11	-	56245			9213	1	18	00		48330				56	1401	A
	TD	91220-	Δ SFAI	3 7 P D		Monit	or Checks				D/Time			Data Loc		100			
Pross	SNI	25084		- 60	on	Deck	at	Surface		a on face		1	pe/Diskette			Name/			
Temp.	SN_	701		P	ress				- Start D	own					[100]	20-10	1 44 1 -		
Cond.	SN	303		, To	emp									V-4					
-		Temp.																1/0 58	L
					ther							TD.	for Ca	nole Bot [Data 1	acgin we	Sal	Other	
S Bot	T Rack	Trip Depth	Time	e @ Trip	Press.	Monito Temp.	r Values Cond.	Other	Press.	onv. Mon. Temp.	Cond.	Sal.	Therm-P	Avg Tw	S	ai. B	ot. #	Other Samp.	Po
1																	11 11		١
2			Section 1		H								į.		200				2
3				N.											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				3
4	N.A.		1												= =				4
5										y = 1		log -							5
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7												f	1 7 7 7						7
8					W					- 1									8
9														12.	E				9
									- 1										10
10								<u> </u>	18.7%										₩
10				- "	241								1 72						11

Deg.

CTD

Press. SN ____ 25084

Consec.

Cast #

Vessel

Latitude

Type & SN 91220-A SEABIRD

Min.

MILLER FREEMAN

Deg.

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			Pg.		of	-	
			Sta. D	esignation	า		
S. S.	Wind	Wind Pnol Page	Meath Bott		ta. Name or I.D	e	
	8 3 3 0			544	140	B	
	<u> </u>	Data Loca				■ [⊗]	
Тар	e/Diskette I	.D.		ne/Head			
	<u> </u>		(Mt029.	-10 May	1575		
				1183			
lema	rks	Ohe bo	Hle leake	d,	Lo get	CheVMZ San	ple
	chi/mi	2 Due di	dul trip	to 60 m	146	Che/mz san	
	San	nple Bot.Da	ata	Sal.	Other	Pos	
l.	Therm-P	Avg Tw	Sal.	Bot. #	Samp.	<u>a</u>	
603							
002						2	
616	10 ¹ 17 00 =	3 F 30 1				3	
, 22					X.	4	
633						5	
632						6	
26				16	Sal	7	
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Ten Cor —	np. S nd. S	N	701 303		Ter Co	ess np ond her				at Bott Start at Surf Data	om om Up ace off		Rema	cul/mz	Ohe bo	the leaker duit trip	P, 60°	to get	Chl Wo
8		Т	Trip	Time	e @			r Values				Values-CTI	D Cal		ple Bot.Da Avg Tw	Sal.	Sal. Bot. #	Samp.	Pos
<u> </u>	Bot.	Rack		Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-r	AAR I W	Sai.			
1		- 101	10	COM		2-1-2-0-1	iling resi	2 4 5		10.181			31.603						-
2			20	No.						20.117	4.315	29.951	31.602		1				2
3			30	The state of the s						21.749	4.188	29.863	31.616	100 M	X = X=		He		3
4	30		40) _ v=	- 81 55					39,793	4,184	29.869	31.622						4
5			.50				- 8				4.197		31.633					<u> </u>	5
6			60			i e s	I pli			60.463		29.881	31.632						6
7		16		55.00								29.944	31.826				16	Sal	7
8			3																8
9							_ =				=						N	<u> </u>	9
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11						38							2						, l
12					-	37.77				L		I		3.5		9			12

Event#

Yr.

at Surface

Proj. & Leg

on Deck

Longitude

ME-92-05 FOCI

W

Date JD =

Day Mo.

Monitor Checks

Vessel Sta. I.D.

Time

GMT

Hr. Min.

Instructions

Dry

Bulb

Times

Data on_

at Surface_

Wet

Bulb

JD/Time

00

Bar.

mb

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Cons	ec.Ca	ist # 030	Vessel	R FRF	EMAN	Proj. & Leg MF-92-05 cude E	FOC	Event#	Vessel	Sta. I.D.	Instri	uctions						Sta. D	esignati	on 	
Cons Cast	ec.		c	r	Longit	or		JD = /3/ Mo. Yr.	Tin GM Hr.	IT	Dry Bulb	Wet Bulb	Bar. mb	S S.	Wind Dir.	Wind Sp.	Cloud	Bot Dep	th, m	Sta. Namo	
03	_	652	71	N /	5624	69 W	/ D	M A Y 9 2	14	34	20	0 2	28	48	330	18	581	/	516	1140	C
Type Press	CTD & SN. s. SN.	91220- 25084	A SEAB	Pi Te	ress emp	on Deck			ace	at Surf Start Do at Bott Start at Sur					iskette I	.D.		File Na		y 1424	
<u>-</u>		Trip	Time	@		Mor	itor V					. Values-CT					ot.Data		Sal.	Other # Samp.	os.
ĕ B∢	ot. Ra	ck Depth	Depth	Trip	Press.	Temp	0.	Cond. C	ther	Press.			Sal.		nerm-P	Avg I	w	Sal.	Bot.	# Samp.	ı
1		10			1-	_			- L			29.959		\top							2
2		20	35							19.308											3
3		30	3							29.223								-			-
4		40								39.62		29.957		_		w===					4
5		50						85		49.981	4.222	29.909	31.62	7							5
6		60								60.358	4.074	29.782	31.61	6		319			73		6
7			W																		7
8																			W.		8
9																					9
10																			_		10
11		82			1 - 1								Ŵ								11
12										7						•					12
					1	<u> </u>										•			Initia	s LAL	•

Initials <u>VAL</u>

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Cast # Deg	Cons	ec.C	ast #	and the		EDEEMA	•				- " 1	essel Sta. I.D.	Instr	uctions							3	Sta. Desi	gnatio	1	
State Stat		44		Latitude	N	L		e E or	Date	JD = 3 /		GMT			Bar. mb	S. S.		/ind Dir.	Wind Sp.	Cloud	Weath.	Botton Depth,	1		e
Type & STD	0 3	┯╉╸		1	1 6 N	7 E	216	3	10	M A Y 9	2 /	5 1 5	20	0 8	28	4	8 3	l L	1 1	1 1 1	1 1	1 1	69	141	A
Bot Trip Time @ Monitor Values Conv. Mon. Values-CTD Sample Bot. Data Sal. Other Sample Bot. Data Sal. Other Sal. O	Type Pres Tem	CTD & SN s. SN p. SN	9 2 7	1220-A 5084 01	SEABI	Press. Temp Cond	 I	n Deck		at Su	ırface	Dat at Sur Start D at Bot Start Start at Sur	a on face own tom t Up rface				ks		.D.	<i>y</i>	Fil	e Name	o Man	1504	_
1		Cond. at Surface Remarks Coll Cond. Cond.																							
1	Sos.	ot. Ra	T ick [Trip Depth De	Time (a rip	Press.				Other						Ther					Sal.	Bot. #	Samp.	8
3 20 20 26,099 \$1.209 \$2.885 \$21.626 \$3.626 \$4 30 30 20.207 \$1.189 \$29.876 \$21.631 \$4 4 55 \$40 55 \$5 \$40 50 \$50 \$50.199 \$4.550 \$30.245 \$21.735 \$5 \$7 \$8 \$8 \$9 \$9 \$10 \$10 \$11 \$11 \$11 \$11 \$11 \$11 \$11 \$11	1			-D 129 E								9.793	4.317	29.955	31.6	10							¥ ,		1
3	2			10								9.647	4.306	29.945	31.68	9		T _E							2
4 30 30.207 17.89 27.89 37.22 5 40 40.444 4.159 29.86 31.636 5 6 50 50.199 4.550 30.245 31.733 6 7 60 60.072 4.681 30.385 31.735 7 8 9 10 10 10 11 11 12 12	3		185	20				W	12			26.099	4.200	29.885	31.6	26									3
5	4	= 111		30								30.207	4.189	29.876	31.6	3			2						
6 56 56 50.1(4 4.550 30.815 31.735 7 60 60.072 4.681 30.365 31.735 60 60 60.072 4.681 30.365 31.735 60 60 60 60 60 60 60 6	5			40								40.444	4,150	29.861	31.6	36									+
7 60	6		130	50										30.245										10	
8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	7			60				_				60.072	4.681	30.385	31, 7	35	vi2		-					<u> </u>	
9 10 10 10 10 11 12	8		1										-						-	1				 	
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12 12	10		_					<u> </u>							-				-					-	-
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	12						<u> </u>							* =	1	il.	<u> </u>		<u> </u>				<u> </u> nitials	LAL	

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							KY:46		07	4.4			Pg	·	of	
Consec.	Cast #	Vessel MILLER	FRFFMAN	Proj. & Leg		ent# Ves	sel Sta. I.D.	Instru	ıctions				Sta. C	esignatio	n	
Consec. Cast #	Latitu		Long		Date JD =		Fime GMT . Min.	Dry Bulb	Wet Bulb	Bar. mb 's'		Wind B		tom S th, m	ta. Nam or I.D	
0 3 2	5 6 4 9	9 1 N	1562	157 W	/ O M A Y	92/	756	19	0 3	304	8290			904	142	A
Press. S Temp. S	N 91220- N 25084 N 701 N 303	A SEABII	Press Temp Cond	on Deck		Surface	Dat at Sur Start D at Bor Star Star at Sur	a on rface rown ttom t Up rface			e/Diskette			me/Head - 10 Nay		181
	T Trip	Time (Mon	itor Values			onv. Mon.	Values-CT			nple Bot.D	ata	Sal.		_
So Bot.	Rack Depth	Depth 1	rip Pre			Other	Press.	Temp.	Cond.	Sal.		Avg Tw	Sal.	Bot. #	Other Samp.	4
L	В						185 814	4.462	30.654	32.175					Sol	ı
2	60						60.318		30.358	31.821			## W			2
3	50						50.623	4.771	30,438	31715			15%			3
4	40						40.612	4.776		31.716			1 10	3		4
5	30						30.643	4.777	30.435	31.715						5
6	20						20,515	4. 759	30.413	31.712						(
7	10						10.720	4.752	30,403	31.712						17
8																8
9	F 7															9
10																1
11													ı			1
12					=1		8									ı
								!	25.					Initials	VAV	

												110									Pg.		of	
Con	sec.C	Cast	#033	Vessel	ER FREE		Proj. & Leg		Eveni I 46	, .	Vessel St	a. I.D.	Instri	uctions							Sta. De	signatio	n 	
Cons Cast	44	Deg	Latit g.	ude	N or S Deg	Longi		Date	JD = 3	Н	Time GMT Hr. N		Dry Bulb	Wet Bulb	Bar. mb	Vis.	Wind Dir.	Wind Sp.	Cloud	Type Weath.	Botto Depti		ta. Name or I.D	B .
0 2	3	5	649	87	N 15	625	89 W	10	M A Y 9	2	184	130	22	004	30	18	275		5		01	509	143	A
Type Pres Tem Con	CTE & SN s. SN p. SN	2 4 20	91220- 25084 701	A SEA	Pro Tel	ond	on Deck		Checks at Su	rfac		at Surf Start Do at Bott Start at Surf	face Up face		Ta		iskette l	Data .D.		Fi	ile Nam	e/Head _10 Ma	<u>4 (83</u> 4	,
ا ن	T	Ŧ	Trip	Time	@			nitor V				Co	onv. Mon	. Values-CT				npie B				Sal.	Other Samp.	S.
(C) = -7		777474		Depth	Trip	Press	. Tem	p.	Cond.	Oth		Press.	Temp.	Cond.	Sai.		nerm-P	Avg	IW		Sal.	23	Samp.	
1		B		44:25				-						29.894										2
2	_	- 8	60											30.172				100	-					3
3	_	_	50			N.								30.304										4
4			40					5 7 3				18	4.640	,			-							5
5			36								2	9.695	4.622	30.246	31.646	+				-				-
6			20					(F			19	9.645	4.620	30.241	31.647	7							-	6
7			10								9	1.797	4.583	30.202	31.642	+				-		-		7
8														M L		_				1				8
9																								9
10																								10
11																								11
12															W.									12
														5				76				Initials	AL	/

Initials _____

																	Pg. <u>3</u>	<u>د ک</u>	of	
Consec.			Vessel	EDEEMAN	Proj. & L		Event#		Sta. I.D.	Instr	uctions rope	at me	Men	2 Stati	in for		Sta. Desig	gnation		
Consec. Cast #		Latitud	e N or		ngitude l	Date	JD = 3 Mo. Yr.	Time GMT	г 1	Dry Bulb	Wet Bulb	Bar.	Ş	Wind Dir.	Wind PROU	Weath.	Bottom Depth, r		a. Name or I.D	2
035	56	50	56 N	1562	475	w 10	M A Y 9 2	19	300	3 2	010	30	48	1 1 1	106	81	016	06	144	B
CT Type & S Press. S Temp. S Cond. S	D N 9 N 2 N 7	5084 01	SEABIF	Press	on Dec	k		ace	Times JD/Time Data on at Surface Start Down at Bottom Start Up				LÓ.	data		le Name/Header				
									at Surface				tripped by him					Sal. Bot. # Samp.		
Bot. Rack Depth Depth Trip			9		Monitor Values				Conv. Mon. Values-CTD Temp. Cond.		D Sal.			Avg Tw		Sal P	Sal.	Samp	Pos	
Bot. 1 21		T	epth T	rip Pr	ess. Te	mp.	Cond. C	ther	Press.	Temp.	Cong.	Sai.		I II CI III -I	746 14		541.		117	
2 6		50																	MZ/cm	2
3 26		10							- N - B										cm	3
42		30							<u></u>									<u>></u>	ME	
5 20		20											#						MZ	
6 27		10																	att	$\overline{}$
7													_						2 1/4	7 8
8													\dashv			-			1 1	9
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11				-						3			_		×					12
12							2 7/ 11=								1			nitials	SAM	

V ____

- 14																P{	36	of	_
Consec	.Cast	36	Vessel		Pr EMAN N		FOC		7	ssel Sta. I.D.	Instru	ıctions			1 1 -1	Sta. [Designation	n	
Consec. Cast # Deg. Min. S				N or	Longitu	Date	JD = 13		Time GMT r. Min.	Dry Bulb	Wet Bulb	Bar. mb vi	Wind <u>⊮</u> Dir.	Wind Page	Meath Deb	oth, m	ta. Name or I.D		
036	,5	62	85	N 15	655	67 W	11	M A Y 9	2 2	0170	68	049	343	8235			376	1621	9
CTD Type & SN 91220-A SEABIR Press. SN 25084 Temp. SN 701 Cond. SN 303					ess mp ond	on Deck		Checks at Su	rface	at Sur Start Do at Boto Start at Sur	face face face com2 Up face a off	013		Data Location Tape/Diskette I.D. File Name/Header Cost 036 Cost 036-11 may 2012 Remarks Sea Cat on Rosette Vol 13					
T Trip Time @				. @			itor Values			C	Conv. Mon. Values-CTD				nple Bot.D		Sal.	Other Samp.	os.
& Bot	. Rack	Depth	Depth	Trip	Press.	Tem	o.	Cond.	Other	TO THE PERSON OF	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.			1
1 38	B	121	2018:14	2023 150						120.517	3.189		31.744				30	OH -	
2 21		60								59.945	3486							MZ	_
3 (0	2 4 5	50	ě.							49.676	3.599	21.465	31.707					m2	
4 26		40			L <u>M</u>					39,449	3.671	29.515	31.702					m2	4
5 2		30				522			12	29.717	3.877	29.671	31.691					Mi	<u>,5</u>
6 20		20								19.605	3.923	29,702	31.488					Ma	, 6
7 27	T	0						8		9.317	3.949	29.718	31.687					MAZ	27
8																			8
9									53										9
10																			10
11					= ₁₂ 11	10													11
12							æ												12
	1	4	<u> </u>														Initials	83m	

V _____

Pg. <u>37</u> of ____ Sta. Designation Event# Vessel Sta. I.D. Consec.Cast # Vessel Instructions Proj. & Leg 520 MILLER FREEMAN MF-92-05 FOCI Longitude E Date JD = Latitude Wind Wind Bottom Depth, m Time Sta. Name Dry Wet Bar. Min. Consec. or S Deg. GMT or or I.D Bulb Bulb mb Cast # Deg. W Day Mo. Yr. Hr. Min. 037561888N **Data Location** CTD
Type & SN 91220-A SEABIRD JD/Time **Monitor Checks** Times Tape/Diskette I.D. Data on____at Surface__2/13:30_ File Name/Header on Deck at Surface Press. SN ___ 25084 (05/037_11MA121/0 Press. ______ Start Down____at Bottom_2117:42 Cond. SN____303 Start Up_____ Remarks Scalas on Rosette Cond._____ at Surface_____ WOUS Other______ Data off ______
Conv. Mon. Values-CTD Sample Bot.Data Sal. Other **Monitor Values** Trip Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Press. Temp. Cond. Sal. Therm-P Avg Tw Sal. Press. Temp. Other Cond. 60.546 3.431 29.340 31.717 3. 60.588 3.436 29.343 31.716 60 21 50.124 3.456 29.355 31.715 3 50 40.108 3.508 29.389 31.710 4 26 40 36 311 3.646 79.491 31.702 5 30 19.971 3.806 29.608 31.690 6 20 20 the 10.048 3.916 29.639 31.684 7 27 10 8 8 9 9 10 11 12 12 Initials 81M

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Pg. <u>38</u> of ____ Sta. Designation Event# Vessel Sta. I.D. Proj. & Leg Instructions Vessei Consec.Cast # 038 MILLER FREEMAN MF-92-05 FOCI 522 Wind Wind Dir. Sp. Old Cloud Sp. Old Cloud Longitude E Date JD = 132 Latitude Time Sta. Name Bottom Dry Wet Bar. Consec. or GMT W Day Mo. Yr. Hr. Min. GMT S S S or I.D Depth, m Bulb Bulb Cast # Min. Deg. Deg. **Data Location Times** ID/Time CTD **Monitor Checks** Type & SN 91220-A SEABIRD Tape/Diskette I.D. File Name/Header Data on____ on Deck at Surface 162-038 CO1038-11MAY 2158 Press. SN 25084 at Surface 120200 Temp. SN 701 Start Down_____at Bottom__220535 Cond. SN____303 Temp. _____ Start Up____ Cond._____ Remarks at Surface_____ W/0/00 Other_____ Data off _____ Conv. Mon. Values-CTD Sample Bot.Data Sal. Other signal Bot. # Samp. Other **Monitor Values** T Trip Time @ Bot. Rack Depth Depth Trip Therm-P Avg Tw Press. Temp. Cond. Sal. Press. Temp. Cond. Other 91,044 3.266 29.252 31.757 BB+ 2206:15 MY 40.290 3.500 29.396 31.716 60 49.861 3.532 29.416 31.714 3 50 eline 4 40.029 3.639 29.496 31,710 26 40 che 30.230 3.683 79.524 31.706 5 30 20.119 3.702 29.534 31.704 20 20 Char 10.110 3.815 29.620 31.702 27 10 8 9 10 10 12 Initials Soft

Pg. 39 of ___ Sta. Designation Event# Vessel Sta. I.D. Instructions Vessel Proj. & Leg Consec.Cast # 524 MILLER FREEMAN MF-92-05 FOCI Longitude E Date JD = 32 Latitude Time Sta. Name Bottom Wet Dry Bar. Consec. **GMT** Depth, m or I.D Bulb Bulb Cast # Min. Deg. Deg. W Day Mo. Yr. Hr. Min. **Data Location** ID/Time CTD **Monitor Checks** Times Type & SN 91220-A SEABIRD Tape/Diskette I.D. File Name/Header on Deck at Surface Data on__ 224600 Press. SN 25084 aust 039 (5)039_11May 2242 at Surface_ Temp. SN 701 Press. 224610 Start Down___ at Bottom 225117 Cond. SN 303 Temp. _____ Start Up __ 22 51 25 Remarks lost power at bottom Cond._____ at Surface 225740 Sample Bot. Data Data off Other____ Sal. Other Conv. Mon. Values-CTD **Monitor Values** Trip Time @ Bot. # Samp. Therm-P Avg Tw Temp. Cond. Press. Bot. Rack Depth Depth Trip Other Press. Temp. Cond. CTD power failure But 21 50 40 7 who oak 30 26 2 20 20 10 27 8 9 10 10 il 12 12 Initials NW

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Pg. <u>40</u> of ____ Sta. Designation Event# Vessel Sta. I.D. Proj. & Leg Instructions Consec.Cast # Vessel MILLER FREEMAN ME-92-05 FOCT 527 040 Latitude Longitude E Date JD = 133 Time Bottom Sta. Name Dry Wet Bar. Consec. GMT or I.D Depth, m Bulb Bulb Cast # W Day Mo. Yr. Hr. Min. Min. S Deg. **Data Location** CTD Type & SN 91220-A SEABIRD JD/Time **Monitor Checks** Times Tape/Diskette I.D. File Name/Header on Deck Data on_____ at Surface 1000 1000 1000 12MM40013 Press. SN ___25084 at Bottom____ Cond. SN 303 Start Up_____ Remarks Cathe reterminated before cost Cond._____ at Surface Other_____ Data off_____ Sample Bot.Data Other Conv. Mon. Values-CTD **Monitor Values** Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Therm-P Avg Tw Temp. Cond. Press. Temp. Cond. Other Press. 152.784 3.068 29.107 31.745 0500 1500 59,926 3.700 29.543 31.697 2 21 60 58.520 3.863 29.657 31.678 50 40.629 3.862 29.652 31.677 26 40 30.311 3.871 29.655 31.678 30 20.376 3.882 29.659 31.678 20 10 10.353 4,055 29.797 31.677 27 9 10 11 12 Initials SAW

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Type & Press. Temp.	SN_ SN_	25084 701	A SEAB	IRD Pre	or ess	Mon Deck	itor Checks	Surface	at Sur Start Do	nes	D/Time (5) 1340	Tape	e/Diskette	Data Loca		me/Head - BMY		-37 ^{XX}
Cond.	21/	303		1	mp ond				Start	Up		Remai	rks			31	,	
	T -	Trip	Time		her		or Values		_ Data	off	Values-CT	D I	San	nple Bot.Da	ıta	ريا Sal.	Other	
S Bot	Rack	Depth	Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sai.	Therm-P		Sal.	Bot. #	Samp.	Pos.
15	Y.	Bot							151.604	3.123	29.154	31.750				7		1
2 21		50							49.728	3,880	29.672	31.479					che	2
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4 26		30							29.728	3.904	29.683	31.679	27				ON	4
5 2		20			8				19.578	4.0		31,677				1 1	che	5
6 20		10			2				9.627	4.121	29.851						al	6
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	onsec ast #	De	Latit g.		N	Longitud Deg.	de E [Date JD =		Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Si Dir.	Wind Sp.	Meath.	pth, m	ta. Nam or I.D	е
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	mp. S	N N	303		- J	**			15		Sottom	015650							
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	nsec st #	£.	Latit	ude	N or	Longitud	le E D	ate JD =	33 T	ime MT Min.	Dry Bulb	Wet Bulb	Bar. mb vi		Wind pino	25.00	(#22) (S	Sta. Nam or I.D	- 4
	43	5	623	18	N (57089	9 w 1		2 0	2530	45	031	324	8210	Data Loc		676	169	A
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						Cond Other		7		at Sur	face a off	<u> </u>	Rema	-			W	3 150	
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ı	onsec ast #		Latit	ude	N or S De	Longitud	e E D	ate ID =	33	Time GMT . Min.	Dry Bulb	Wet Bulb	Bar. mb	-	Wind Pack		Bottom Pepth, m	Sta. Nan or I.D	
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		SN_		_		on	Deck	at	Surface	Dat	a on	(m)		e/Diskette			Name/Hea		10
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-		ΙŦ	Trip	Time		ther		r Values				Values-CT	 D	Sar	nple Bot.D	ata		Other	1
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onsec. Cast #	De	Latiti g.	ude	N or S De	Longi	tude E or W	Date Day	JD=34	Tiı G1	ne 1T Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Si Dir.	Wind Page		Bottom Depth, m	Sta. Nan or I.D	
145	5	650	00	N	5625	85 W	13	M A Y 92	03	310	80	070	253	7235	156	21	150	17	716
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emp. SI	V	701		- 1	ress	8		-		Start D	1000	31940		74 042		Crist 1	147-131M	7038	
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ı.	18		123			28 (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987) (1987)				123.558	4.152	30.131	31,918				25		1
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Соп	sec.	Cast 647	#	Vessel MILLE	R_FREFMA	Pro	oj. & Leg F-92-05	FOC	Ever		Vessel	Sta. I.D.	Instr	uctions			an talentari	n.c	5575 GT		8
Cons	; # 	Deg	Latit	o. Min. S	ls E	ongitud	le E or W	Date Day	JD = 13 U	ł Yr.	Tim GM Hr.	т	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.		Type Weath.	Bottom Depth, m	Sta. Nar or I.D	
Pres Tem	& S ss. S p. S	D	25084 701 303		Press. Temp Cond	•	n Deck	onitor	Checks at Su		0 Y	Date at Sur Start De at Bot Start at Sur Date	face face form tom tup face a off		Tap	pe/Diskette	Data Lo I.D.	cation File	Name/Hesy7_BA	eader 070447 W/ 188	Sell-
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Cype &	TD	91220-A	SEABI	RD			tor C			Times	JD/Time			Data Lo					
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Cond.	SN	303								art Up Surface0	min 05525			101	101		. 1	//	
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3 6		50					-				30.536							MZ	3
26		40					3		39,80	3 4.840	30.528	31.758	-					NZ	4
5 2		30			=>				35013	4.847	30.521.	31.748						MZ	5
6 20		20		38				8	19.84	9 4.948	30.534	31.672						MZ	6
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onse	X4	<u> </u>		R_FREE		j. & Leg -92-0 5	FOCI	Event#	Vessel Sta. I.D	. instr	uctions				ota.	Designation	on	
onsec ast #	De	Latit	on Min. S		Longitude	e E I	Date J	D = 34 Mo. Yr.	Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Sir.	Wind Piol	Weath.	epth, m	Sta. Nan or I.D	
40	5	65	111	115	6254	OWI	3 M	A Y 9 2	0652	066	058	263	8245	106	21	536	17:	718
pe & 5	TD SN_	91220	-A SEABI	RD			itor Cl				JD/Time			Data Loc				
ress. S	N_	25084 701	-	D		Deck		at Surfac	at S	urface	4100		e/Diskette		1	ame/Head		_
emp. S	N	701 303		1	ss p		_	€	Start I	Down 6	4100		011		C 124 0	49_13 MM	10039	
Jild. 3					id				Sta	rt Up_06	<u> </u>		rks CTD W	1 CONST	\\\A.`\\	1 V NC C4	w f ×	5
				Oth						urface	10		sm of cost		C14428		1012	7 .
Bot	T Rack	Trip	Time (@	Press.		or Valu		al II	Conv. Mon	Values-CT			nple Bot.D		Sal.	Other	Т
18:	- CACK	рерип			rress.	Temp.	Co	nd. Ot		Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.	Bot. #	Samp.	+
20	10.4 =	5	125 00	653			-		152.81							01		4
21		60							60.138	3.820	29.636	31.737					MZ	
لو	_	50			71				50.37	\$ 4.030	29.853	31.748					MZ	1000
26		4.0				20	1	- "	40045	5 4.485	30.192	31.710					MZ	No.
2	_	30							30.091	0 4.817	30.473	31.720					MZ	02.120
20		20			0				20.149	5.029	30.653	31.731			0	u I	MZ	21
7		10							10.005	5 5.131	30.705	31698					NZ	S7537
							32	±15							- -			
								₩£ ⊕										
												-	24					
	\dashv								02			32						-
+	_			S.B									- E					
		@ 070		1 8		701			@ 60ml					÷.	i	,		

nel of @ 0700.

30 m/min 100 0651, vate=40 m/min; up@10m/min 64.6 Initials 58M

Consec.(650	Vessel MILLER		Proj. & Leg MF-92-05:	Enct (592	essel Sta. I.D.	Instru	ıctions		1		Sta. De	signatio	1	
onsec. Cast #	Latit		Longit Deg.	cude E C	Date JD =	34	Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind ≤i Dir.	Sb. Olympia Sp. Duging	Meath Depti	100	ta, Nam or I.D	
50	5651	5 1 N	15625	12 W 1	3 M A Y	9 2	740	66	5 8	262	8245	1062	-1 13	54G	177	ł
CTI ype & SN	91220-	A SEABIR	D		itor Check		1	_	D/Time			Data Loca				
ress. SN	25084		92	on Deck	at	:Surface	at Sur		3040	1 .	e/Diskette		File Nam			
emp. SN	701		Press.		-		- Start D	own_ 67	3140		0 30 .	 .	(m)40202	- 12"11"	0170	
iond. SN	303						at Bot	tom <u>0</u> つ	4120							_
· · · · · · · · · · · · · · · · · · ·			Cond Other			40	at Sur	face		Rema	rks CTD	W/ CalVE	Trentic	al ti	W	_
	T Trip	Time @			or Values			onv. Mon.	Values-CT	<u> </u>	Sar	nple Bot.Da	uta	Sal.	2 - Other	ŕ
	ack Depth				Cond.	Othe		Temp.	Cond.	Sai.	Therm-P		Sal.	Sal. Bot. #	Samp.	1
18-	~126				· ·		126,342	4.064	30.024	31.876	22			20		
21	(, 0						60,478	4.037	29,866	21.750					MZ	
	<0			17				4.312	36.074						MZ	t
26	40		- "		W.			4.521	30.264				24	1	MZ	t
2				2:											MZ	1
+	30						36.345		97							+
170	20					W.	20.380			31.734					NZ	+
27	10	7:					10.219	5,114	30.694	31.701		·			NZ	Т
	1											2	X			1
						136										
								0.1			85					T
										22						1
			= (2)			1					- 6					
				·674750	1	i	1			1					8Am	

075727 on dick 073915 br 60m

C	onse	Cas	t#	Vessel MILLER	FREFMAN		. & Leg -92-∩ 5			nt#	Vesse	Sta. I.D.	Instr	uctions		4,744		13	ta. Designatio	N (30 0)	
	nsec st #		Latit eg.			ngitud	e E or W	Date Day	JD =		Tir GN Hr.		Dry Bulb	Wet Bulb	Bar. mb vi	Wind Dir.	Wind P	Type Weath.	Bottom Depth, m	ta. Nam or I.D	ie
2	51	5	452	04 _N	156	263	8 4	14	1 A Y	9 2	05	430	78	0 6 0	290	8000	006	31	1436	209	Á
	pe&		91220- 25084	A SEABII	D	on	Mo Deck	nitor (Checks at S	Surfac	e		a on	JD/Time 0537 1538	1 '	e/Diskette		File	Name/Head		
Ге	mp.	SN_	701		Press			 -	7			Start D	own	0539	\ <u></u>	051		C0011	051-14MAYC	336	
_	ond.	SN	303		Temp Cond Other_					\$2		Start at Sur	tom : Up face a off		Rema	rks Sea Ca	on ios	ette	, carbon?	clore 6 139	r Ne
S	0	T	Trip	Time @		-85	_	tor Va			1817	С	onv. Mon	. Values-CT	D	Sai	nple Bot.[Other	
		Rack				ess.	Temp	. 0	Cond.	Otl	ner	Press.	Temp.	Cond.	Sal.	i nerm-P	Avg Tw	Sa		Samp.	-
	38		T# 1/1	OH4130 654	9:30							129.706		30.250					29	Cont	2
	20		(00)					+					4.080							1.2	<u> </u>
	21		50			_							4.3.15					-		Coo	
-	6		40				83	_		27			4.817		31.744					Cartel	
1	26		30								- 1	29,793	4.890	30.523	31.710					and	.1
	7	15	20											30.576	31.696				e i	ange	1
_	do		10									9.873	5.198	30.754	31.691					confide	
	27		590				Ž.					0.830	5.442	30.956	31.693		- 32			Tarriche	8
																					9
Ī																-8					1
								1					3		107	5					1
Ī						() +) () () ()						13		2			3				ı
	3			* Mu	red for	om (Cast (Loca	hon.	D-62M	euh	at to	pirris	surfa purface	ce ore	slick	in		Initials	SAM	

sound maren sample

A THE RESIDENCE OF A SAME AND A S

Co	onsec	.Cas	52	Vesse	ER FRE		oj. & Leg F-92-0 5		vent# Ve	ssel Sta. I.D.	instru	uctions	<u> </u>		To the second	13	ta. Designat	ion	100
	nsec. st #	à.	Latit	ude	N or S De	Longitue	de E [Date D =	35	Time GMT r. Min.	Dry Bulb	Wet Bulb	Bar.	Wind Si Dir.	Wind Page	Veath.	Bottom Depth, m	Sta. Nan or I.D	
٥	5/2	5	650	58	N 5	54263	-2 W	MAY	920	6430	78	056	290	8000	006	31	151	5210	A
Tyr	C & S	ID SN_	91220-	-A SEA	BIRD			itor Check				D/Time	-	/D:-1	Data Loc				
Pr	ess. S	N_	25084 701		.		n Deck	a	t Surface	at Su	rface 06	3815	0.1	e/Diskette		1	Name/He		F
Te	mp. S	N_	303		• }	ress emp				Start D	tom	3915	_						
					1	ond				Star	t Up rface		Remai	ks CTD	to bol	OW	with n	Michogari	2 Qan
_						ther			81	Dar	a off		40	hlorophy	doample.		. = 1	W/0 LYS	5
Pos.	Bot.	T Rack	Trip Depth	Time Depth		Press.	Monit	Cond.	Other		onv. Mon. Temp.	Values-CT Cond.	D Sai.	Therm-P	nple Bot.D Avg Tw	ata Sa	Sal II. Bot.	. Other # Samp.	Pos
	29		13							145.55	4.288	30.281	31.950			*	13		1
	10		60	1-1							W -	39.720	31.745			9		M3	2
_	2-1		KO	W =			= 0				3.965	29.786						Mycel	3
4	6		40					1		40.051	4.886	30.545	31.734			1	22	Mayor	2 4
5	26		30				*				4.933		31.734					my/cac	
6	2		20						25	19,886	4.950		31.734					M3/cu	6
7	20		lo			4				10.107	4.954		31.734		•	30		3/cas	7
	29		Ste				81			0.857	5.552	31.074	31.724),; 				m3 cal	8
9														\$				N/SZ	9
10											6			AS .					10
11													15					12-	11
12	_					(A)						"		0	72			33-	12
					·	* More	dalid	the from	cas)	nea to	avoid s	surface	oils	lick			lnitia	ls SAW	

in surface samples

AP		Vessel	R FREEM		oj. & Leg F-92-0 5		95	Vessel Sta. I.D.	Instru	ctions		4.24	2	Sta. [Sesignation	गा	1
Consec. Cast #			4	Longitud	ie E C	ate JD = / 35		Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb vi		Wind Pnoc			Sta. Nam or i.D	ie
053	565	0 5 7	N 1 3	6291	8 W /	4 M A Y	9 2	0739	70	5 2	300	8	+ 6	3///	3 / 6	211	4
	N91220		IRD	OI	Mon n Deck	itor Checks at S	Surface			D/Time	Таре	e/Diskette	Data Loca I.D.		me/Head	ler	
Press. SI Temp. SI	N <u>25084</u> N 701		Press						40	343°		653			53-1441		4
Cond. SI								at Bot	tom								
			Con			Dž	14	at Sur	facea off		Remar	ks CTD	to botto	m wit			24
S Bot	T Trip Rack Depth	Time	@ Trip	Press.	Monito	or Values Cond.	Oth	C		Values-CT Cond.			nple Bot.D		Sal.	Other Samp.	14
129	- В Сра	Deptil		11,033.	Temp.	COIId.	Out	114,541	4.271	30.187	31.872	THE THE	7.05.10	Sal.	09	Jamp.	1
2 18'	60				Pail I			59.860	4.374	30.135	31.740					Cunton	2
3 21	50							49,908	4.607	30.331	31,749					cont/ae	3
4 6	40			*				39.828	4.778	30.479	31.760					cont/che	4
5 26	30			1,21				29.948	4.882	30.550.	31.748	0				Confie	5
62	20						9	20.066	5,070	36.683	31.725					Carlose	6
7 >0	10							9.880	5.522	3,00	31.708					carre	7
8 27	Ste				72			1.058	5,519	31.024	31.698					Fare	8
9															=		9
10									13								10
11				9			ΙΕ							·			11
12						<u> </u>				<u> </u>			±		Initials	(A)	12

THE RESIDENCE OF STREET

Initials LAL

Consec.Cast #		Vessel	o coc	Pro	Proj. & Leg N MF-92-05: FO		Event#	Vessel Sta. I.C). Instr	uctions	7			1.31	a. Designati			
Consec.	Deg.	atitu M	de N	1	Longitud			JD = Mo. Yr.	Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb vi		1 500 2	700 to 100 to 10	2	Sta. Nam or I.D	
054	56	52	16	/ 4	6291	2 W	14	1 A Y 9 2	0838	69	5 /	300	8	6	3/	1236	212	<u>-</u> A
Press. S Temp. S	N <u>91</u> N <u>25</u>	084 1	SEAB1	Pr	emp	n Deck		Checks at Surfa	e E at :	Times Pata on Surface Down Bottom		1	e/Diskette		File	Name/Hea		
				C	ond	·	:: :::::::::::::::::::::::::::::::::::		St	art Up Surface Data off						Microguer Res & the	m. cas	Q.
S Bot.		rip oth [Time Depth		Press.	Mon Temp	itor Va		her Press.	Conv. Mon	. Values-C1		Sai	nple Bot.I Avg Tw	Data	Sal.	Other Samp.	٠ ,
38	B									4 4.605		3/.875		::		08	4 0	5
2 18"	6	0							60.44	15 4.667	30.380	31.743	3				MS	1
3 2-1	5	0					=	23	50.40	500 SUBSTRUCTOR	30,409	31.735					m one	
6	4	0		XIII					40.28	1 4.957	38.605	31.734	8 1				male	_
26	3	30							30.19	5 5,033	30.660	31.731					13/60	
2	2	0						39	20.22	6 5.018	30.629	31.713					Mal	_
30	10	9				1 5			10.13	1 5.009	30.598	31.692			-		Mare	
129	Su	of-				I 22			0.870	5 064	30.63(31.682		- 1			There	
,								_		Œ		P. 77	- 4	I				
0							1			1 22			52					ı
1													N N	<u> </u>				1
2											\$#					1	LAZ	1

29:14