Pg. ____ of ____ Consec.Cast # Vessel MILLER FREEMAN Langitud Sta. Designation Proj. & Leg Event# Vessel Sta. I.D. Instructions MF-94- 05 Latitude Longitude E Date JD = Wind Wind Pind High Time Sta. Name Bottom Consec. Dry Wet Bar. or GMT W Day Mo. Yr. Hr. Min. S Deg. Dir. Depth, m or I.D Cast # Bulb Bulb Deg. Min. CTD Type & SN 91220-A **Data Location Monitor Checks** ID/Time Times Tape/Diskette I.D. on Deck at Surface Data on_____ File Name/Header Press. SN 26072 CASTOOI - 03 May 11 3/ at Surface_____ Press. ______ Temp. SN 701 Start Down____ Temp. _____ Cond. SN 303 at Bottom_____ Start Up_____ Remarks w/0 = 5th 3, hall | Mooris W/0 66 FLUOR VMULT = 1.0 Cond._____ at Surface_____ Other_____ LIGHT METER, FLUOROMETER, CHLAM Data off_____ Other FLUOR Sample Bot. Data Sal. Other Samp. Monitor Values Conv. Mon. Values-CTD T Trip Time @ Bot. Rack Depth Depth Trip Temp. Therm-P Avg Tw Press. Temp. Other Cond. Cond. Press. 100 nuds 2 340 2 64 3.435 0.450 31.651 64.640 3 31.884 0 448 60 58,917 3.666 31.883 0.760 3.918 5 4.030 0.837 30 29.600 6 20 31.873 0.852 4.031 19,889 9.508 31.867 0.874 4,050 10 4.034 31.87 8 0.838 10 9 9,511 31.866 0.828 10 4,050 10 4.04 31.867 0.74 11 12

Pg. _2 of ____ Consec.Cast # Vessel Proj. & Leg Event# Vessel Sta. I.D. Sta. Designation Instructions 002 MILLER FREEMAN MF-94- 05 Longitude E Date JD = 123 Latitude Time Wind Wind Pind Sp. Sp. Sp. Sp. Consec. Dry Wet Bar. Bottom Sta. Name or GMT W Day Mo. Yr. Hr. Min. S Deg. S. S. or I.D Cast # Bulb Bulb mb Depth, m Deg. Min. CTD Type & SN 91220-A **Monitor Checks** ID/Time **Data Location** Times Tape/Diskette I.D. on Deck at Surface Data on File Name/Header Press. SN 26072 at Surface_____ CAST 0 02 - 03 Man 7/9 Temp. SN 701 Start Down_____ Cond. SN 303 Temp. _____ at Bottom Start Up_____ Remarks was 217 FLUOR VMULT = 1.0 Cond.______ at Surface Other_______ Data off_____ ELUOROMETER. CHIEN Sal. Other Solo FLUDR Sample Bot. Data **Monitor Values** Conv. Mon. Values-CTD Time @ Bot. Rack Depth Depth Trip Press. Temp. Cond. Therm-P Avg Tw Other Sal. Press. Temp. Cond. 24:47 200 198,806 4.327 30.654 32.320 0.139 2 742 2 150 148.989 4.097 30.277 32.130 0.193 3 3 . 851 100 99,979 4. 487 0.690 Cul 4 744 4 49.04 3.974 31.569 0.806 50 nut 5 745 0.458 5 31,535 35 34 360 3.455 Che 246 31.443 0.988 6 19.163 3.819 20 7 31.430 1.132 10,234 3,799 1 D X 8 8 31.732 1.164 10.309 3.801 10 9 747 9 31.429 1.107 10.219 3,799 10 Mul 10 741 0.126 3.809 10 31.425 0.879 0 13 11 12 12

Pg. 3 of ____ Consec. Cast # Vessel MILLER FREEMAN Proj. & Leg Event# Vessel Sta. I.D. Sta. Designation Instructions 9403a mooning MF-94-05 Longitude E Date JD = 124 Latitude Time Wind Dir. Sp. Old High Sta. Name Consec. Dry Wet Bar. Bottom mb s si Dir. or GMT W Day Mo. Yr. Hr. Min. Cast # Deg. or I.D Depth, m Bulb Bulb Min. S Deg. 0838269 CTD Type & SN 91220-A **Monitor Checks** ID/Time **Data Location** Times Tape/Diskette I.D. on Deck at Surface Data on File Name/Header Press. SN 26072 at Surface_____ CAST 003 - 04 May 0424 Press. _____ Temp. SN 701 Start Down____ Temp. _____ Cond. SN 303 at Bottom____ Start Up_____ FLUOR VMULT = 1.0 Cond._____ Remarks Wo 203 at Surface Other____ Data off _____ Sample Bot. Data Sal. Other so O Conv. Mon. Values-CTD **Monitor Values** Trip Time @ Bot. Rack Depth Depth Trip Temp. Other Press. Cond. Therm-P Avg Tw Cond. Press. Temp. 04:38 701.737 4.182 20.576 32.570 2021 28 (0.113 4.390 30.435 732.074 6.237 60 50 4,406 30,413 32.038 0.220 3 49.997 chi 4.348 30,324 31,995 chl 29,457 0.734 40 5 30.112 31.935 0.270 chi 4.160 30 30.129 6 4.362 30,175 31.818 0,923 al1 20,232 9,769 4.680 30.348 31.718 2.706 CLI 10 9,779 4.68 30.349 31.719 2,790 10 4.68 30.350 31.719 2.753 10 4.690 30,346 31,721 10 -0.042 0 H 12

8

9

Initials CH

Pg. <u>4</u> of ____ Sta. Designation Consec.Cast # Vessel Proj. & Leg Event# Vessel Sta. I.D. Instructions FOX 056 ∞4 MILLER FREEMAN MF-94- 05 Latitude Ν Longitude E Date JD = 24 Cloud Cloud Weath. Time Sta. Name Wind Bottom Dry Wet Bar. Consec. | No 9, 9 | No 1/2 | GMT or Depth, m or I.D Bulb Dir. Bulb Cast # Deg. Min. Deg. W Day Mo. Yr. Hr. Min. 006 CTD Type & SN 91220-A **Data Location** ID/Time **Monitor Checks** Times Tape/Diskette I.D. File Name/Header on Deck at Surface Data on____ Press. SN 26072 at Surface_____ CASTOOY - OY MAYOSSY Press. _____ Temp. SN 701 Start Down____ at Bottom. Cond. SN 303 Temp. _____ Start Up_____ FLUOR VMULT = 1.0 Cond._____ Remarks W/0 206 at Surface _____ Other_____ Data off____ Other 6 Sal. Fluor Sample Bot. Data **Monitor Values** Conv. Mon. Values-CTD Trip Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Temp. Therm-P | Avg Tw Other Cond. Sal. Sal. Press. Cond. Press. Temp. 1 BOT NUTS 757 2 199 210 4.271 30.676 32.49 0.138 700 756 3 149,753 4.180 30.459 32.262 0.189 150 755 4 101.069 4.298 30.430 32.137 0.237 00 754 5 60,144 4.363 30,390 32047 0.273 Chl 60 753 6 51,085 4,437 30,432 32.029 0.221 50 7 752 7 40,370 4,407 32,993 30.371 0,215 40 8 751 8 Zo, 589 4,299 30.217 31.923 0.355 30 9 750 20.784 4.253 30.140 31.882 0.660 9 70 10 749 10 10 10,9624,845 50,503 \$1.739 @4.57 11 12 Initials _ CH

Initials <u>CH</u>

Pg. _5 of ____ Consec.Cast # Vessel Proj. & Leg Event# Sta. Designation Vessel Sta. I.D. Instructions FOXOS7 OOS MILLER FREEMAN MF-94- 05 Latitude Longitude E Date JD = Time Cloud PuiM Consec. Sta. Name Dry Wet Bar. Wind Bottom or 124 GMT W Day Mo. Yr. Hr. Min. Cast # Dir. Depth, m or I.D Bulb Bulb Deg. Min. S Deg. 20 CTD Type & SN 91220-A **Monitor Checks** ID/Time **Data Location** Times on Deck Tape/Diskette I.D. Data on at Surface File Name/Header Press. SN 26072 at Surface..... CAST 005 - DYMAY 0708 Press. ______ Temp. SN __701____ Start Down Cond. SN 303 at Bottom Temp. _____ Start Up_____ Remarks W/O 224 Cond.______ FLUOR VMULT = 1.0 at Surface____ Other_____ Data off____ **Monitor Values** Conv. Mon. Values-CTD Sample Bot. Data Sal. Other Trip Sal. Other so Bot. # Samp. Bot. Rack Depth Depth Trip Time @ Temp. Cond. Therm-P Avg Tw Press. Cond. Other Sal. Temp. Press. Bottle # BOT NUTS 767 222,154 4,504 30,984 32,517 0.163 766 200,017 4,176 30,571 32.572 0,156 7 200 765 150.289 3,968 30,275 32,253 0,162 150 4 764 99,057 3.671 29.869 37.091 0.18/ 100 51 5 60,098 3,992 30,082 32,049 0,230 60 CHL 6 762 <0 50,623 4,130 30,186 32.040 0,176 761 40 41.069 4.114 30.158 32.028 0.199 8 30 760 30,332 4.067 30,074 31,981 0.231 19.658 4.297 30.147 31.848 6 1.421 7.0 10 10 9,388 4,544 30,290 31,781 10 П 12

Initials

Pg. 6 of ____ Sta. Designation Wind Wind pnod Weath. Sta. Name **Bottom** Depth, m or I.D 583 580 561 578

Cons Cast			5 0	Min.	or S	Deg.	or		/2 ₁ Mo.	<i>k</i>	GMT		Dry Bulb	Wet Bulb	Bar. mb	Wind Signal Wind	Wind Pi Sp. QS	ype Veath	ttom oth, m	Sta. Nan or I.D	
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			6072		-	0	n Deck		at	Surfac	I		a on face		— ¹	Tape/Diskette	I.D.		me/Head		
		N_7			-	Press					4		own					CAST OD	4-04 M	an 08	13
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Ft	_UC	OR VI	MULT =	1.0	_]	Cond							: Up face		Re	marks Fox	058	27.8			
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3 B	ot.	l Rack	Trip Depth	Depth	e @	Press.	Temp.	tor V	alues Cond.	Otl	her Pre	ess.	Temp.	Values-CT Cond.	Sal.		nple Bot.D Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos.
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			ų O						15.		61.	063	4.076		31.985	0.462				Che Che	5
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2										8										7. EE	12
																			Initials _	(D)	18.4

Consec.Cast #

006

Consec.

Vessel

Latitude

MILLER FREEMAN

Proj. & Leg MF-94- 05

Longitude

E Date JD =

Event#

134

Vessel Sta. I.D.

Time

Instructions

Wet

Bar.

Dry

Pg. ____ of _____ Consec.Cast # 007 Proj. & Leg Sta. Designation Event# Vessel Sta. I.D. Vessel Instructions MILLER FREEMAN MF-94- 05 136 Latitude Longitude E Date JD = Wind Wind Pool Bottom Dir. Sp. OD A Charles Bottom Depth, m Time Sta. Name Consec. Dry Wet Bar. or /24 GMT W Day Mo. Yr. Hr. Min. or S Deg. Si si Dir. Cast # Deg. Min. or I.D Bulb Bulb 009 CTD Type & SN 91220-A **Data Location Monitor Checks Times** /D/Time on Deck Tape/Diskette I.D. at Surface Data on File Name/Header Press. SN 26072 at Surface_____ CAST-07-04 May 10/2 Press. ______ Temp. SN 701 Start Down____ Cond. SN 303 Temp. _____ at Bottom____ Remarks 19402 PRONG BOTTLE CONFIG.

10 272 AST REDONE. (Physical data is good) though,

Sample Bot. Data Sal. Other is

Sal. Therm-P Avg Tw Sal. Bot. # Samp. Start Up_____ FLUOR VMULT = 1.0 Cond._____ at Surface_____ Other_____ Data off_____ **Monitor Values** Conv. Mon. Values-CTD T Trip Time @ Bot. Rack Depth Depth Trip Press. Other Press. Temp. Cond. Temp. Cond. 32.932 0.199 240.374 5.081 250 2 32.536 0,187 2 197 901 7.417 200 3 150.022 4.225 32.216 0.186 150 99.636 4.533 32:090 0.230 100 31.980 6.328 5 40.339 4190 60 31.941 6 0.787 4,239 50.084 50 7 40 40.103 4.213 31. 903 0.944 8 30 2.438 29.976 4.292 31.855 9 31.853 3.239 4.325 20 19.897 10 10 31.771 4.759 9,789 4.705 01 П 12

Initials 1

Pg. 9 of ____ Consec.Cast # Vessel Event# Proj. & Leg Vessel Sta. I.D. Instructions 008 MILLER FREEMAN MF-94- 05 Latitude Longitude E Date ID = Time Wind Wind Pind Cloud Sp. C Bottom Sta, Name Consec. Dry Wet Bar. or W Day Mo. Yr. **GMT** Cast # Bulb Bulb Depth, m or I.D Deg. Min. S Deg. Hr. Min. 90.0.9 CTD Type & SN 91220-A **Monitor Checks** Times **ID/Time Data Location** on Deck Tape/Diskette I.D. at Surface Data on File Name/Header Press. SN 26072 at Surface_____ CAST 008_04 May 1200 Press. ______ Temp. SN 701 Start Down____ Cond. SN 303 Temp._____ at Bottom Start Up_____ Remarks Mooring 9402 FLUOR VMULT = 1.0 Cond.______ 40210 at Surface_____ Other_____ Data off_____ **Monitor Values** Conv. Mon. Values-CTD Sample Bot.Data Other Trip Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Temp. Press. Cond. Other Press. Cond. Sal. Therm-P Avg Tw Temp. 250 26 32.939 0.260 238.469 5.091 2 0.458 50 49.499 4.098 31.954 30.400 4.289 34.858 3 30 1.887 3 4 31.798 2.873 13,127 13 5 4.517 31.795 3,470 6 3.437 6 3 4,475 13.118 7 4.096 4,574 10.181 10 8 8 3624 10.232 4,541 0 9 P 4.014 4,600 10,212 10 31,765 10 4.675 4.539 0 0,104 11 12

Pg. <u>9</u> of _ Sta. Designation Weath Weath Sta. Name Bottom or I.D Depth, m **Data Location** File Name/Hoaden 594 591

8 Bot. Rack Depth Depth Trip Press. Temp. Cond. Other Press. Temp. Cond. Sal. Therm-P Avg Tw Sal. Bot. # 239.496 5.116 32.968 0.181 16 2 2 200	131		CAST 6 09	1.D.	rks hare 8			a on face own tom	at Sur Start Do at Bot Start at Sur	Surface		n Deck	ress	Te	Bot. Rack Depth Depth 1				
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100 100.703 4.040 32.032 0.177 100 100.703 4.040 32.032 0.177 100 100.261 4.096 31.930 0.553 100 100 100 100 100 100 100 100 100 10									'									3	
60.261 4.095 31.930 0.553 50 50.650 4.316 31.868 1.019 40 40.442 4.423 31.844 1.588 30 29.970 4.531 31.836 3.145 20 20.127 4.741 31.795 5.226 10 9.767 4.772 31.771 5.327	, , ,																	1	
50 50.650 4.316 31.868 1.019 40 40 40 40.447 4.423 31.844 1.588 21.019 20.127 4.741 31.795 5.226 20.127 4.742 31.745 5.327	Chl M2																v		
40 70.447 4.423 31.844 1.588 30 29.970 4.531 31.836 3.145 20 20.127 4.741 31.795 5.226 10 9.767 4.772 31.771 5.327	Che me															50			
30 29.970 4.531 31.836 3.145 20.127 4.741 31.795 5.226 10 9.767 4.772 31.771 5.327	CUP MZ															40			
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10 9.767 4.772 31.771 5.327	CW								20.127							2-0			
	(AL M=				5.327	1.77/	3	4.772	9.767							10			
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Consec.Cast #

Deg.

CTD Type & SN 91220-A

Consec.

Cast #

Vessel

Latitude

Min.

MILLER FREEMAN

Deg.

Proj. & Leg

Longitude

MF-94- 05

or

Date JD =

W Day Mo.

Monitor Checks

Event# 143

Vessel Sta. I.D.

Time

GMT

Hr. Min.

Instructions

Wet

Bulb

2 0

JD/Time

Bar.

Wind

Dir.

Dry

Bulb

2

Times

Pg. <u>/D</u> of ____ Sta. Designation Cloud Puick Type Weath. Sta. Name Bottom Depth, m or I.D 28 **Data Location**

CTD 91220-A Press. SN 26072 Temp. SN 701 Cond. SN 303 FLUOR VMULT = 1.0 Bot. Rack Depth Time @ Depth T			Te	on ress mp ond ther	n Deck		s Surface	Date at Sur Start De at Bot Start — at Sur at Sur	mes JI a on face tom tup face a off			pe/Diskette		File Na		1 an 055				
S B	Bot. Rack Depth Depth 1		@	Desce		r Values	Cohon	Press.	onv. Mon. Temp.	Values-C7 Cond.	FD Sal.	Sar Therm-P	nple Bot.E Avg Tw	Data Sal.	Sal.	Other	S.	nda_		
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•			100							99,22	4.225		31.930	0.885				Cul MZ	_	602
5	4		60							60.054	4.601		31.873	1.764		LE L	4	1	5	601
3			50						11/	50.414	4.521		31.839	2.360					6	600
7			40							40,794	4.673	L 4	31.828	1.882					7	599
3			30							30,457	4.535		31.618	2,013					8	598
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Vessel Sta. I.D.

Time

GMT

Hr. Min.

5 0 Instructions

Wet

Bulb

Bar.

Dry

Bulb

2

Wind

Dir.

Event#

146

124

Consec.Cast #

Deg.

Consec.

Cast #

Vessel

Latitude

Min.

MILLER FREEMAN

S Deg.

55

or

Proj. & Leg

Longitude

MF-94-- 05

or

Date JD =

Day Mo. Yr.

Pg. _____ of ____ Consec.Cast # Sta. Designation Vessel Proj. & Leg Event# Vessel Sta. I.D. Instructions 011 MILLER FREEMAN MF-94- 05 Latitude Longitude E Date ID = Time Wind Wind Pind Sp. Sp. Sp. Sta. Name Consec. Dry Bottom or S Deg. Wet Bar. or 124 GMT W Day Mo. Yr. Hr. Min. mb S S Cast # Deg. Depth, m or I.D Bulb Bulb Min. CTD Type & SN 91220-A **Monitor Checks Data Location** ID/Time Times on Deck Tape/Diskette I.D. at Surface Data on____ File Name/Header Press. SN 26072 at Surface GASTOII - 04 long 1638 Press. _____ Temp. SN 701 Start Down____ Cond. SN 303 Temp. _____ at Bottom____ Start Up_____ Remarks Mooring Isospicions tooken jump in set of FLUOR VMULT = 1.0 Cond._____ at Surface_____ Other______ Data off____ thugh Sample Bot. Data Sal. Other of Bot. # Samp. Monitor Values Conv. Mon. Values-CTD T Trip Time @ Bot. Rack Depth Depth Trip Therm-P Avg Tw Press. Temp. Other Temp. Cond. Press. Cond. WO 250 250.658 4.726 296 32, 693 0,160 08 60.291 4.349 31.738 0.474 100 Che 3 49.683 4.215 up 31,660 0.742 39.841 3.919 4 31.493 0.769 40 5 30.202 3.874 31.433 0.858 30 6 20.502 3,817 31.380 1.041 20 6 7 10,404 3.814 31.376 1.136 10 10.446 3,811 8 8 31.370 1.151 10 9 31.371 1.252 9 10 10.033 3.811 10 10 31.376 1.091 -0.074 3.816 11 11 12 12

Initials U

Pg. 12 of ____

Coi	nsec.C	Cast #012	Vess	el FR FRF	Pr FMAN	oj. & Leg MF-94	- 05	Eve 15		Vessel S	sta. I.D.	Inst	ructions				Si	ta. Designati	on		
Con Cas	isec.		ude Min.	or	Longitu eg.	de E or		JD = (Time GMT Hr.	r	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind BOO	Type Weath.	Bottom Depth, m	Sta. Nan or I.D		9 9
0	2	5747	75	NI	55157	A W	OUM	AY	9 4	19	16	37	1		7080	288		292	01	3	
-L	CTE	91220-A					nitor (Checks					JD/Time			Data Loc					
		26072			C	n Deck		at S	urface	e		a on face		Тар 	e/Diskette			Name/Head			
	-	701		-	ress						Start Do	own					DAST	012-04 M	1 100	,	
	nd. SN FLUOR	VMULT =	1.0	_ (emp Cond Other						Start at Sur	tom : Up face a off		Rema	arks line s	3, tox °	6				
S.	Bot Do	T Trip	Tin	ne @			tor Va		O:1		C	onv. Mon	. Values-CT			nple Bot.D			Other Samp.	S.	n.
-	BOL. No	1/50	Depth	Trip	Press.	Temp.		ond.	Oth		Press.	Temp.	Cond.	Sal.	Therm-P-	Avg Iw_	Sal	35	Samp.		
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+		1.69			8							4.357	31	32.19	0.168					3	-
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		100					+				78.633	4.531		31.892	0.384			100	lia 2/.	4	
		60						343			60.682	3.990	- 3	31.46	0.882				My Ch		
		3/0									51. ado	3.997		31.447	0.757		11		W/dw	6	6
		વર									4.086	3,997		31.430	0.817	-		184, T	mych		_
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Initials L

Pg. 13 of ____ Sta. Designation Proj. & Leg Consec.Cast # Vessel Event# Vessel Sta. I.D. Instructions 0/3 MILLER FREEMAN MF-94-05 182 Latitude N Longitude E Date JD = 125 Wind Wind Dir. Sp. Cloud Sp. Cloud Time Sta. Name Bottom I Dry Wet Bar. Consec. mb vi si Dir. Min. or GMT W Day Mo. Yr. Hr. Min. or or I.D Depth, m Bulb Bulb Cast # S Deg. Deg. 38 CTD Type & SN 91220-A **Data Location Monitor Checks** ID/Time **Times** Tape/Diskette I.D. on Deck File Name/Header at Surface Data on_____ Press. SN 26072 at Surface_____ CASTOIR -OSMAYORZO Press. _____ Temp. SN 701 Start Down____ at Bottom_____ Cond. SN 303 Temp. _____ Start Up____ Remarks W/O = FLUOR VMULT = 1.0 __ Cond._____ at Surface_____ Fluor. Sample Bot. Data Other_____ Data off_____ Sal. Other Samp. Conv. Mon. Values-CTD Monitor Values Time @ Bot. Rack Depth Depth Trip Sal. Therm-P Avg Tw Press. Temp. Cond. Other Press. Temp. Cond. 1 620 NUTS 100.712 3,487 29,650 32,012 0,23/ BOT 2 619 59.26 3.491 29.619 31.991 0.231 2 60 3,487 29.610 3 618 3 31.90 0.760 0 4 31.9% 0.277 40 40,704 3,540 616 5 31,956 0.380 30 30,324 3,805 613 20.066 4.295 31.915 1.340 6 70 612 7 9.915 4.360 10 31.906 1.457 8 10 10 11 11 12 Initials WF

V CIT.

Pg. <u>14</u> of ____ Consec.Cast # Vessel Proj. & Leg
MILLER FREEMAN MF-94-05 Event# Vessel Sta. I.D. Sta. Designation Instructions Longitude E Date JD = Latitude Time Consec. Wind Wind Pick Dry Bar. Wet Bottom Sta. Name or 725 GMT W Day Mo. Yr. Hr. Min. Cast # Bulb Bulb Depth, m or I.D S Deg. CTD Type & SN 91220-A **Monitor Checks** JD/Time **Data Location** Times on Deck at Surface Data on_____ Tape/Diskette I.D. File Name/Header Press. SN 26072 at Surface______ CAST 014-05 May 0816 Temp. SN 701 Start Down_____ Cond. \$N 303 Temp. _____ at Bottom_____ Start Up_____ $FLUOR\ VMULT = 1.0$ Cond._____ Remarks w/o (2) at Surface____ Line 16, 148 Other_____ Data off T Trip **Monitor Values** Bot. Rack Depth Depth Trip Time @ Conv. Mon. Values-CTD Sample Bot.Data Sal. Other So Samp. Sal. Other Press. Temp. Cond. Other Temp. Cond. Sal. Therm-P Avg Tw Press. 2 2 Nuts Lot # 31.919 0.189 3 628 120 119.540 3.379 01 100 3,888 0.200 98.804 3.370 Che/MZ VP 5 626 31.849 0.269 3.562 60.616 50 31.8/6 0.624 50.360 3.774 40 31.817 1065 39.548 3 971 8 8 623 31.791 1,780 30 4.240 29.406 9 9 622 31.789 1.883 20 20.26 4.258 10. 31.789 1.743 9.933 4.251 П 12

Initials L

Pg. <u>15</u> of ____ Consec.Cast # Vessel Proj. & Leg Event# Vessel Sta. I.D. Instructions Sta. Designation MILLER FREEMAN MF-94-05 Latitude N Longitude E Date JD = Time Consec. Wind Wind Dir. Sp. Old Cond Sta. Name Dry Bar. Wet Bottom or 125 GMT W Day Mo. Yr. Hr. Min. Cast # mb (%) %i Deg. Bulb Bulb Depth, m or I.D Min. S Deg. CTD Type & SN 91220-A **Monitor Checks Data Location** ID/Time Times on Deck Tape/Diskette I.D. at Surface Data on_____ File Name/Header Press. SN 26072 at Surface_____ CASTO 15 - 05 May 0720 Temp. SN _ 701 Press. ______ Start Down_____ Cond. SN 303 Temp. _____ at Bottom____ Start Up____ FLUOR VMULT = 1.0 Cond._____ Remarks at Surface_____ Live 16, Fox 149 Other_____ Data off_____ T Trip **Monitor Values** Bot. Rack Depth Depth Trip Time @ Conv. Mon. Values-CTD Sample Bot. Data Sal. Other Sal. Other Signal Samp. Therm-P Avg Tw Press. Temp. Cond. Other Temp. Cond. Sal. Press. Sal. 2 Nuts, bot # 2 115 0.205 31.899 27 115.844 3,410 100 4 635 31.884 3.375 100.175 0,207 M ME 5 634 1.0 3.466 3.818 0.233 60.152 6 6 633 31.795 3.432 0.259 50.680 7 632 40 31.777 0.389 3,566 40,256 30 8 31.763 1.339 4.122 30.481 19 630 20 31.751 1,499 4.209 20,504 10 10 629 10 10.607 4.209 31.747 1.542 11 11 12

Initials /

Pg. 16 of ____ Consec.Cast # Vessel Proj. & Leg Sta. Designation Event# Vessel Sta. I.D. Instructions OI MILLER FREEMAN MF-94-05 Latitude N Longitude E Date JD = Time Consec. Wind Wind Pick Sp. Color S Bottom Sta. Name Bar. Dry Wet Cast # Deg. Min. or S Deg. or Z GMT W Day Mo. Yr. Hr. Min. mb s si Depth, m or I.D Bulb Bulb 33 CTD Type & SN 91220-A **Data Location Monitor Checks** Times ID/Time Tape/Diskette I.D. on Deck at Surface Data on_____ File Name/Header Press. SN _ 26072 at Surface_____ CASTO16-05 hay 0942 Press. Temp. SN_701 Start Down____ Cond. SN_303 Temp. _____ at Bottom_____ Start Up_____ Remarks FLUOR VMULT = 1.0 Cond._____ at Surface line 16, Sta. 150 w/0=91 Other____ Data off_____ Sal. Other so nuts by the # **Monitor Values** Bot. Rack Depth Depth Trip T Trip Time @ Conv. Mon. Values-CTD Sample Bot. Data Sal. Therm-P Avg Tw Sal. Temp. Press. Other Press. Temp. Cond. Cond. 1 1924 30 Chym 90.401 3.527 31.857 0.220 31.826 0.245 100 59.290 3.552 31.796 0.275 50 49.314 3.503 31.803 1.118 39.584 4.055 40 5 640 29.652 4.065 31.738 1.276 30 19.683 4.138 31.724 1.530 20 31.723 1,514 10 9.750 4.142 8 9 10 10 H 12 12 Initials

Initials LL

Pg. <u>17</u> of ____ Consec.Cast # Vessel Proj. & Leg
MILLER FREEMAN MF-94-05 Event # Vessel Sta. I.D. Sta. Designation Instructions Latitude N Longitude E Date JD = Time Consec. Wind Wind Pool Closed Average Sta. Name Dry Wet Bar. Bottom or S Deg. or /25 GMT W Day Mo. Yr. Hr. Min. Cast # mb S S Deg. Bulb Bulb Depth, m or I.D 018 CTD Type & SN 91220-A **Monitor Checks Data Location** Times ID/Time Tape/Diskette I.D. on Deck at Surface Data on_____ File Name/Header Press. SN_26072 CAST 017_05 May 1027 at Surface..... Temp. SN __701 Start Down_____ Cond. SN 303 Temp.____ at Bottom_____ Start Up_____ FLUOR VMULT = 1.0 Cond. Remarks at Surface_____ hre 16, Sta. 151 Other____ Data off_____ Sal. Other Si Bot. # Samp. Time @ **Monitor Values** Conv. Mon. Values-CTD Sample Bot.Data Bot. Rack Depth Depth Trip Press. Temp. Cond. Temp. Sal. Therm-P Avg Tw Other Press. Cond. 4 5 6 Nuts bot# 5A (10) CH MZ 31.874 0.943 41,279 3.849 y O 1928 8 8:14 3:16 8 1927 31.873 1.023 29.945 3.890 9 20 31.858 1.193 9 1926 9,590 4.078 10 31.857 1.187 10 4.079 9.589 11 12

Pg. 18 of ____ Consec.Cast # Vessel Proj. & Leg Event# Vessel Sta. I.D. Instructions Sta. Designation 018 MILLER FREEMAN MF-94-05 Latitude Longitude E Date ID = 128 Consec. Time Cloud puiW Type Weath. Sta. Name Dry Wet Bar. Wind Bottom or **GMT** Cast # Vis. S. S. Bulb Dir. Depth, m or I.D Deg. Bulb Min. S Deg. W Day Mo. Yr. Hr. Min. 3 CTD Type & SN 91220-A **Monitor Checks Data Location** Times ID/Time on Deck Data on_____ Tape/Diskette I.D. at Surface File Name/Header Press. SN <u>26072</u> at Surface_____ CASTO18_D8MAY Temp. SN 701 Start Down Cond. SN_303 Temp. _____ at Bottom____ Remarks LIGHTMETER, FLUOROMETER, CHLOM, Larrel patch sample Start Up_____ FLUOR VMULT = 1.0 Cond.____ at Surface_____ Other____ Max: 252 Data off____ T Trip Sal. Other so Nuts bot # Bot. Rack Depth Depth Trip Time @ **Monitor Values** Sample Bot. Data Conv. Mon. Values-CTD Press. Temp. Temp. Cond. Other Press. Cond. Sal. Therm-P Avg Tw Sal. 200 1 2034 4.486 32.530 0.296 200,791 150 32:00 37:00 2 2033 146.985 4.274 32,24 0,724 20 3 2048 100 4,056 0.233 32.021 SD.348 Che mz 4 0.664 31.891 4.3+2 60.861 50 31.809 1,135 50.291 4.470 40 6 2045 31.749 3.852 4.691 To. 128 30 7 2044 4.568 1.894 30.633 31.668 20 8 8 2043 4.559 20.747 2.690 31.588 10 9 2042 3463 4.44 31.576 10.452 10 0 4.452 10 2041 31.577 3.216 0.075 11 12

Initials <u>LL</u>

Consec.Cast # Vessel Proj. & Leg Event# Vessel Sta. I.D. Instructions Sta. Designation 019 MILLER FREEMAN MF-94-05 Latitude Longitude E Date JD = 29 Time Consec. Cloud PuiM Type Weath Dry Wet Bar. Wind Sta. Name Bottom or GMT Cast # S. S. Deg. Bulb Bulb mb or I.D Dir. Depth, m Deg. Min. W Day Mo. Yr. Hr. Min. CTD Type & SN 91220-A Monitor Checks **Data Location** Times ID/Time on Deck at Surface Data on_____ Tape/Diskette I.D. File Name/Header Press. SN 26072 at Surface_____ CAST -19_09MAY 0006 Temp. SN 701 Press. _____ Start Down Cond. SN 303 Temp. _____ at Bottom_____ Start Up_____at Surface_____ Remarks Larval patch sample. FLUOR VMULT = 1.0 Cond._____ Other____ Data off_____ T Trip **Monitor Values** Time @ Fluor, Sample Bot. Data Sal. Other Son Bot. # Samp. Conv. Mon. Values-CTD Bot. Rack Depth | Depth | Trip Nuls both # Press. Temp. Cond. Other Press. Temp. Therm-P Avg Tw Cond. Sal. Sal 200 2025 32.495 0.252 200.652 4.377 150 2040 52,215 0,232 148,931 4.328 3 00 2039 32.076 0.239 100,856 4,115 MZCLE 0 2038 31.8740.541 10.710 4.401 2037 50 49.593 4.479 31.849 09/8 6 2036 40.561 4.716 31.804 2.707 2035 30 30.610 4.826 31.773 4.790 8 1408 20 31.746 5.628 20,048 4.896 10 51.701 4.799 19084 4.835 10 10 1406 31,689 2.698 0 0.656 4.855 11

Pg. 20 of ____

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1		_	30							29.931	4.888	1	51.712	5,311				2629	7
	_		70							19.158	4.678		31.665	3.255				2028	8
		_	10								4.450		31.538	2.064				2027	9
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2																			12
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Pg. 71 of ___ Consec.Cast # Vessel Event# Vessel Sta. I.D. Proj. & Leg Instructions Sta. Designation OZI MILLER FREEMAN MF-94- 05 Latitude E Date JD = Longitude Time Consec. Weath Weath Sta. Name Bar. Wind Dry Wet Bottom GMT mb s si Cast # or I.D Deg. Bulb Bulb Dir. Depth, m Min. S Deg. W Day Mo. Yr. Hr. Min. CTD Type & SN 91220-A **Monitor Checks Data Location** ID/Time Times on Deck at Surface Data on_____ Tape/Diskette I.D. File Name/Header Press, SN 26072 at Surface_____ CAST OZI- 09 Man DEOG Temp. SN 701 Start Down____ Cond. SN_ 303 Temp. _____ at Bottom_____ Start Up_____ FLUOR VMULT = 1.0 Cond._____ Remarks 228 way dep = 227 at Surface Other____ Data off T Trip Sal. Other of Nots, both. # Bot. Rack Depth Depth Trip Time @ **Monitor Values** Conv. Mon. Values-CTD Sample Bot. Data Press. Temp. Sal. Therm-P Avg Tw Cond. Other Press. Temp. Cond. Sal. 2012 32 32.27 0.174 199.584 4.029 200 2 4.284 32-137 0.193 150 19,995 3 2014 4.252 31.737 0.381 100.153 100 uz ahl 4 4 2015 31.794 0.533 60.31 4.563 60 5 5 2016 49.955 4.615 31,705 4,409 50 6 2020 31.699 4.682 40.274 4.832 40 7 2021 30 30.023 4.554 31.586 2.931 8 31,499 1.420 20 20.275 4,216 9 31.410 2.478 10 10.380 4.420 10 31.391 2404 10 2024 -0.086 4.372 6 П 12 12

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Pg. <u>22</u> of ____ Consec.Cast # Vessel Proj. & Leg
MILLER FREEMAN MF-94-05 Event# Vessel Sta. I.D. Instructions Sta. Designation Latitude Longitude E Date JD = Time Consec. Wind Wind Pind High Dry Sta. Name Bar. Bottom Wet or S Deg. or 129 GMT W Day Mo. Yr. Hr. Min. Cast # Deg. Min. Bulb Bulb Depth, m or I.D CTD Type & SN 91220-A **Monitor Checks Data Location** Times ID/Time on Deck at Surface Data on_____ Tape/Diskette I.D. File Name/Header Press. SN_26072 at Surface_____ CAST 022 = 09 May 805 Press. Temp. SN_701_ Start Down____ Cond. SN 303 Temp. _____ at Bottom.... Remarks w/o = 72 www.depsta 72 Start Up_____ FLUOR VMULT = 1.0 Cond._____ at Surface____ Other____ Data off Sample Bot. Data **Monitor Values** Time @ Conv. Mon. Values-CTD Bot. Rack Depth Depth Trip Sal. Other so with the Press. Temp. Press. Therm-P Avg Tw Cond. Other Temp. Cond. Sal. 2011 60.065 4.392 31.867 0.570 30 16:10:19 15: 49,723 4.535 2010 31.762 0.694 3 40-196 4.522 31.693 1.347 10 4 29.757 4,684 31.656 3.136 5 31.579 3,539 7.622 19.945 10 31.41 3.038 4,408 -0.621 4.437 31.383 1.671 8 9 10 11

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Colise	c. Cast #	O73 N	essel LLER	FREEMA	AN P	roj. & Leg MF-94		Event 47		sel Sta. I.D		ructions In Patch	~ Study			St	a. Designat	ion	
Consect #	E.	Latitude Min.	or	Deg.	Longitu		Date	JD = 130	T	ime GMT Min.	Dry Bulb	Wet Bulb	Bar.	Wind	1 3	Type Weath.	Bottom Depth, m	Sta. Na or I.I	
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С уре &	TD SN_9122	20-A					nitor	Checks		Т	imes	JD/Time			Data Lo	cation	 		
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_	75	2								20.151	4.495		31.438	3.397			Che		
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Pg. 24 of ____ Consec.Cast # Vessel Proj. & Leg Sta. Designation Event# Vessel Sta. I.D. Instructions 24 MILLER FREEMAN MF-94-05 Latitude Longitude E Date ID = 130 Time Weath. Consec. Sta. Name Dry Wet Wind Bottom Bar. or GMT W Day Mo. Yr. Hr. Min. S S. Cast # or I.D Depth, m Bulb Bulb mb Dir. Deg. Min. S Deg. 4 4 CTD Type & \$N 91220-A **Monitor Checks** JD/Time **Data Location** Times Tape/Diskette I.D. on Deck Data on_____ at Surface File Name/Header Press. SN 26072 at Surface_____ CASTOZY _ 10MAY 060 Press. _____ Temp. SN 701 Start Down_____ Cond. SN 303 at Bottom____ Temp. _____ Start Up_____ FLUOR VMULT = 1.0 Cond._____ Remarks at Surface W/0 95 Other _____ Data off____ **Monitor Values** Conv. Mon. Values-CTD Sal. Other Samp. Trip Sample Bot. Data Time @ Bot. Rack Depth Depth Trip Other Press. Temp. Cond. Sal. Therm-P Avg Tw Press. Cond. Sal. NUTS Temp. 94.407 4.282 31.816 0,382 BOT MZ 2 59,194 4,777 31.652 4.357 60 1986 3 4.385 31.640 50.671 4.727 50 1985 4 3,900 40 026 4.647 31.589 40 2000 5 30.278 4.634 31.491 4.276 ठठ 1999 31.471 6 3.612 20.548 4.645 7.0 1998 31.432 10.703 4.815 0 5.045 2.987 8 31,392 -0.228 0 9 10 10 12 12

Initials CH

Pg. <u>25</u> of ____ Consec.Cast # Proj. & Leg Event# Vessel Sta. I.D. Sta. Designation Vessel Instructions 025 MILLER FREEMAN MF-94- 05 Latitude Longitude E Date ID = Time Wind Wind Place A Color Sp. Color Sp Consec. Dry Wet Bottom I Sta. Name mb vi vind /@b/.0 vi > Dir. or 130 GMT W Day Mo. Yr. Hr. Min. or S Deg. Cast # or I.D Bulb Depth, m Bulb Deg. Min. 28350 3 3 CTD Type & SN 91220-A **Monitor Checks** Times [D/Time **Data Location** at Surface Tape/Diskette I.D. on Deck Data on_____ File Name/Header Press. SN 26072 at Surface_____ CASTO25-10 May 1208 Temp. SN __701_____ Start Down_____ Cond. SN 303 Temp. ______ at Bottom_____ Start Up_____ FLUOR VMULT = 1.0 Cond._____ Remarks ~/ 0 | 54. at Surface_____ max dip = 150. Other____ Data off____ Sal. Other of Bot. # Samp. **Monitor Values** Conv. Mon. Values-CTD Sample Bot Data Time @ Therm-P Avg Tw Press. Temp. Temp. Cond. Other Press. Cond. Sal. Nuts, both # 2 50 32.042 0.254 149.910 4.246 1860 3 4 326 31.798 0.463 100 24 1859 31.665 1.758 60 60.020 4,550 3.122 1858 50 5 2.507 50.205 4.413 1857 40.355 4.614 6 2.656 31.62 40 1992 30.673 4.547 2.786 30 1991 31.477 2.559 20.027 4.455 8 $\mathcal{F}_{\mathcal{D}}$ 3.527 1990 4.886 9 10 10.300 1989 31.402 3.116 10 4.945 0 -0,412 11 12

Pg. 26 of ____ Consec. Cast # Vessel Proj. Sta. Designation Proj. & Leg Event# Vessel Sta. I.D. Instructions MF-94- 05 Latitude Longitude E Date JD = Time Sta. Name Consec. Dry Wet Bottom Bar. or S Deg. or W Day Mo. Yr. GMT Hr. Min. Cast # Deg. or I.D Depth, m Bulb Bulb Min. 050 CTD Type & SN 91220-A **Data Location Monitor Checks** JD/Time Times on Deck Tape/Diskette I.D. at Surface Data on_____ File Name/Header Press. SN 26072 at Surface_____ CAST 0 2 6_ 10MAY 1814 Press. ______ Temp. SN <u>701</u> Start Down_____ Cond. SN 303 Temp. _____ at Bottom_____ Start Up_____ FLUOR VMULT = 1.0 Cond._____ Remarks Cast re-done because not all at Surface_____ Nut. bottler to pped. Physical data are
fine horeser, so this cest was seven

Sample Bot. Data

Sal. Other of
Bot. # Samp. a

Nuts. bott.# Other______ Data off. **Monitor Values** Conv. Mon. Values-CTD T Trip Time @ Bot. Rack Depth, Depth Trip Temp. Press. Temp. Cond. Other Press. Cond. Sal. 2 32023 0.263 150 150, 3.9 4.263 3 100.499 4.397 180 31.888 0.344 MZ Che 4 40.536 4.618 60 31.627 2.620 5 31,581 2.413 50.493 4.519 50 31,499 6 6 40.217 4.315 40 7 4.607 31.417 30,193 2.712 30 8 4,671 2,53 31,402 20 20.043 3.072 4.666 9 10.362 31.40 2.470 10 10 4.667 0 -0,196 11 12

Pg. 27 of ____ Consec.Cast # Proj. & Leg Vessel Event# Sta. Designation Vessel Sta. I.D. Instructions MILLER FREEMAN MF-94- 05 Latitude Longitude E Date ID = Time Consec. Dry Bottom Sta. Name Wet Bar. or 730 W Day Mo. Yr. GMT Cast # or I.D Bulb Depth, m Deg. Bulb Min. S Deg. Hr. Min. 90 CTD Type & SN 91220-A **Monitor Checks Times** ID/Time **Data Location** Tape/Diskette I.D. on Deck at Surface Data on_____ File Name/Header Press. SN 26072 at Surface CAST 027 10 MAY 1853.109 1 Press. ______ Temp. SN __701 Start Down_____ 027U_10HAY1905 1 . 1042 Cond. SN 303 Temp. _____ at Bottom_____ Start Up_____ FLUOR VMULT = 1.0 Cond._____ Remarks v 6 = 2-19 at Surface_____ ing file for all except heepert bothe = CASTOZZUPX.LOG Other _____ Data off_____ Other of Camp. **Monitor Values** Sample Bot. Data T Trip Conv. Mon. Values-CTD Time @ Sal. Bot. Rack Depth Depth Trip Bot, # Samp. Press. Temp. Press. Other Temp. Cond. Sal. Therm-P Avg Tw Cond. Sal. 4.248 32,275 10,201 201,239 1581 200 2 32.059 0.268 1830 150 4.259 149,302 1869 3 4.360 31.885 0.463 100.494 100 1868 MZ CAL 4 (00) 31.634 2560 4.645 59,482 5 1867 31,579 2,419 02 4.530 50,597 1866 6 31.558 2.248 40.546 40 7 1465 7 4,530 30 31.431 2.632 30.817 1864 4.622 8 31.403 2.764 20 20.807 1863 31.403 2 705 9 9.646 0 10 1862 10 31,404 4.624 2,700 -0.653 П 12 12

Pg. <u>28</u> of ____ Consec.Cast # Vessel Proj. & Leg Event# Sta. Designation Vessel Sta. I.D. Instructions OZS MILLER FREEMAN MF-94- 05 In Patch/storm Study Latitude Longitude E Date JD = 30 Time Weath. Consec. Dry Wet Bar. Wind Bottom Sta. Name **GMT** S S. Cast # or I.D Bulb Depth, m Bulb mb Dir. Deg. Min. Deg. W Day Mo. Yr. Hr. Min. 998.1 263 CTD Type & SN 91220-A **Monitor Checks Data Location** ID/Time Times Tape/Diskette I.D. on Deck at Surface Data on_____ File Name/Header Press. SN 26072 at Surface CASTOZB - 10MAY 2348 Press. _____ Temp. SN_701 Start Down_____ Cond. SN 303 Temp. _____ at Bottom_____ Start Up____ Cond,_____ FLUOR VMULT = 1.0 Remarks WO 265 at Surface Other____ Data off Other of Samp. **Monitor Values** Conv. Mon. Values-CTD Quoi Sample Bot. Data Trip Sal. Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Press. Temp. Sal. NUTS Cond. Other Cond. Therm-P Avg Tw Press. Temp. Sal. 1881 199,986 4,285 32.217 0.179 200 50.721 4.196 32.051 0.274 150 879 100.755 4.479 3 31.913 0.362 100 1878 GY1 60.869 4.644 31.645 MZ 2.753 60 1877 5 50,063 4.622 2.349 31.628 50 1876 6 31.558 2.572 4.561 39.731 40 7 31.405 3.106 29,539 4,695 30 8 3,205 19.672 4,734 20 9 31.30 3.375 10 4.740 10.08 10 4.746 31,386 3,124 -0.005 11 12

Initials <u>CI+</u>

Pg. 29 of ____ Consec.Cast # 29 Vessel Proj. & Leg Sta. Designation Instructions Event# Vessel Sta. I.D. MILLER FREEMAN MF-94- 05 STORM STUDY Longitude E Date |D = |3| Latitude Wind Wind Place Arthur Sp. Cloud Sp. Time Bottom Sta. Name Consec. Dry Wet Bar. or GMT W Day Mo. Yr. Hr. Min. mb vi Si Cast # Deg. Depth, m or I.D Bulb Bulb Min. Deg. 9847 CTD Type & SN <u>91220-A</u> **Data Location Monitor Checks** JD/Time Times Tape/Diskette I.D. on Deck at Surface Data on_____ File Name/Header Press. SN 26072 CAST 029_1/may 0603 at Surface_____ Press. Temp. SN 701 Start Down____ Cond. SN 303: Temp. _____ at Bottom.____ Start Up_____ Remarks Max, depth FLUOR VMULT = 1.0 Cond._____ at Surface_____ W/0 275 Other____ Data off_____ Sai. Other Samp. **Monitor Values** Sample Bot. Data Conv. Mon. Values-CTD Trip Time @ Bot. Rack Depth Depth Trip Therrif-P Avg Tw Other Press. Temp. Cond. NUTS Press. Cond. Temp. 200,495 4,123 200 32.230 0.209 32.073 0.215 151,201 4.030 150 3 lon. 602 4.221 100 61 252 4.650 ChL 60 5 31.624 50 50,741 4.652 6 39,454 4,370 40 31.578 7 31,395 3.720 30 8 70 3.000 9 3.261 31.384 4,548 0 10 1882 10 4.546 2.85/ 31.386 -0.395 H 12

Initials CH

Pg. <u>30</u> of ____ Consec. Cast # Proj. & Leg Vessel Event# Sta. Designation Vessel Sta. I.D. Instructions 030 MILLER FREEMAN MF-94- 05 Latitude Longitude E Date ID = Time Wind Wind pno dir. Sp. Old A Consec. Dry Bottom Sta. Name Wet Bar. **GMT** Cast # Bulb or I.D Bulb Depth, m Deg. Min. Deg. W Day Mo. Yr. Hr. Min. 30 CTD Type & SN 91220-A **Monitor Checks** JD/Time **Data Location** Times Tape/Diskette I.D. on Deck at Surface Data on____ File Name/Header Press. SN 26072 at Surface CAST 030_ 11 MAY 1209 Press. ______ Temp. SN 701 Start Down_____ Cond. SN 303 Temp. _____ at Bottom_____ Start Up_____ FLUOR VMULT = 1.0 Cond._____ Remarks LIGHT METER, FLUORDMETER, CHLam at Surface_____ Other_____ Data off____ MAX: 300 **Monitor Values** T Trip Conv. Mon. Values-CTD Fluor Sample Bot. Data Time @ Sal. Other nuts Bot. Rack Depth | Depth | Trip Press. Press. Temp. Bot. # Samp. Cond. Other Cond. Temp. Sal. Therm-P Avg Tw Sal. 24:17 1901 79 200 200.078 4.158 32.291 0,211 2 1900 150 32.066 0.235 150,437 4,104 3 1899 100 0:270 100.949 31953 4 1898 60 59.495 4,940 31,616 1,493 5 50.047 1863 50 4.307 31.534 0.956 1296 40 4.477 31.402 2.748 40.173 7 30 30.005 4.448 31,382 2.863 20 8 31.379 2.973 20.003 4.499 10 9.766 4.461 31.379 3.016 10 0.490 4.464 0 31.380 2.463 П Ш 12 Initials _ LL

Pg. 31 of ____ Consec.Cast # Vessel Proj. & Leg Event# Vessel Sta. I.D. Sta. Designation Instructions 03 MF-94- <u>05</u> MILLER FREEMAN 593 Longitude E Date JD = 132 Latitude Time Sta. Name Consec. Bottom Dry Bar. Wet or GMT mb vi si Cast # Depth, m or I.D Bulb Bulb Deg. Min. s Deg. W Day Mo. Yr. Hr. Min. CTD Type & SN 91220-A **Monitor Checks Data Location** ID/Time Times Tape/Diskette I.D. on Deck Data on_____ at Surface File Name/Header Press. SN 26072 at Surface CAST 031_ 12 MAY0005 Temp. SN 701 Start Down____ Cond. SN 303 Temp. _____ at Bottom_____ Start Up_____ Remarks Sta. 113, hand 11 . FLUOR VMULT = 1.0 Cond._____ at Surface Other____ Data off Sal. Other so Samp. a Aud. Sample Bot. Data Trip **Monitor Values** Conv. Mon. Values-CTD Time @ Bot. Rack Depth Depth Trip Press. Other Temp. Cond. Therm-P Avg Tw Cond. Temp. Press. 1911 BOT 32.547 D.198 189,723 4,497 1910 150 70 151,177 4,105 32.343 0.195 1909 100 32.114 0.191 100,301 3,857 4 1908 60 59,571 3.710 37.05 0,205 5 1007 5 32.000 0.197 50 49,728 3,764 6 1906 40 39,848 3.782 32.001 0,176 7 1905 7 30 32,008 0.166 30,411 4,175 8 20 4.38 31.856 0,975 1904 20,243 9 31.87 2.767 1903 10 4,744 10,518 31.814 2.914 10 902 10 4.826 -0.013 П 11 12 12

Initials (X)

Pg. 37 of ____ Sta. Designation

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Con	sec. Cas	st # 	Vessel MILLER	FREE	MAN Pr	oj. & Leg MF-94-	05	Event# Ves	ssel Sta. I.D.		octions	ter			Sta.	Designati	on	
Cons Cast	ш	Latit	ude N	r _ 1	Longitu	de E D	ate JD	= 132	Fime GMT Min.	Dry Bulb	Wet Bulb	Bar.	Wind	1 131	Type Weath.	ottom pth, m	Sta. Nam or I.D	ne
			7 6 4 N	1/5	5233	36 W 1	2 M A	Y 9 4 0	108	62	55		7060			770	1)	4
Туре	CTD &SN_	91220-A	<u> </u>				tor Che			-	D/Time	_	/Distance	Data Loc		4. 1		
	s. SN_			1_		n Deck		at Surface		a on rface		гар	e/Diskette	1.0.		ame/Head		-0
	p. SN			1					- Start D	own					CAST	36 - 1 C		DO
	d. SN_3			1						tom t Up			A					
<u>F</u> i	LUUR V	MULT =	1.0	i					at Su	rface		11/61116	irks Max d	reply se	>9			
<u></u>	I□т	Trip	Time		ner		r Value	s		a off onv. Mon.		D	eluol. Sar	nple Bot.D)ata	Sal.	Other	Š
å B	ot. Rack	Depth	Depth	Trip	Press.	Temp.	Conc		Press.	Temp.	Cond.	Sal.		Avg Tw		Bot. #	Other Samp.	8
ı	1	250,							249 978	4.834		32,713	0.156		У			ı
2	1	200							199,755	4.013		52.35	0.155			67		2
3	1	150	F 5	iii			, E		150,035	3.741		32.154	0.160					3
4	9	100	n are		4				100,253	4,575		32.081	0.153					4
5		50						ni	50,558	4.633		31.941	0.243				chl.	5
6		30	8)			5			29.372	4.98/		31.82	3.850					6
7		10							10.529	5.102			5,710		8)			7
8		10		_					10.456	5.104		31,820	5.797					8
9		10							10,429	5.10		31.821	5.477				/	9
10		0		\dashv					-0.368	5.101		31.821	5,326				V	10
11	 																	11
12									1								<u> </u>	12
									-							Initials .	CH	

Pg. 33 of ____ Vessel Consec.Cast # Proj. & Leg Event# Vessel Sta. I.D. Instructions Sta. Designation 033 MILLER FREEMAN 1495 MF-94-05 MZ Longitude E Date JD 733 Latitude Time Consec. Bottom Sta. Name Dry Wet Bar. mb Si Si GMT or I.D Cast # Depth, m Bulb Bulb Deg. Min. S Deg. W Day Mo. Yr. Hr. Min. CTD Type & SN 91220-A **Monitor Checks** ID/Time **Data Location** Times on Deck at Surface Tape/Diskette I.D. Data on____ File Name/Header Press. SN 26072 at Surface_____ CASTO33 - 13MAY2118 Press. _____ Temp. SN 701 Start Down Cond. SN 303 Temp. _____ at Bottom____ Start Up_____ Remarks Sta. 116, Haul 1 W/0 157 FLUOR VMULT = 1.0Cond._____ at Surface _____ Other____ Data off Sal. Other signature Samp. 2 કાર્યા Sample Bot. Data Trip **Monitor Values** Conv. Mon. Values-CTD Time @ Bot. Rack Depth Depth Trip Therm-P Avg Tw Press. Temp. Sal. Temp. Other Press. Sal. Cond. Cond. 32.134 0,330 154,947 5,231 32+34 BOT 2 32.033 0.767 49.753 5.222 50 3 2055 3 31,999 0,362 29,950 5,336 30 4 2054 0,318 31991 9 936 5,370 10 5 2053 5 31,991 0,308 0 9.850 5.375 6 6 2052 31,991 0,320 9,923 5.363 10 7 7 2051 31,992 0,293 2 3.052 5.376 8 2050 8 3.052 5,377 31.991 0.285 9 2049 9 ? 3.00\$ 5,380 31,991 0,284 10 1940 10 0,439 5,383 31,991 0,258 П н 12

Initials <u>CH</u>

Pg. <u>34</u> of ____ Consec.Cast # Vessei MILLER FREEMAN Proj. & Leg Event# Vessel Sta. I.D. Instructions Sta. Designation 718 GP1 MF-94- 05 Longitude E Date JD = 134 Latitude Time Meath. Wind Sta. Name Consec. Dry Wet Bottom Bar. or GMT W Day Mo. Yr. Hr. Min. or I.D Depth, m Cast # Bulb mb Dir. Bulb Deg. Min. Deg. CTD Type & SN 91220-A **Data Location Monitor Checks** ID/Time Times Tape/Diskette I.D. on Deck at Surface Data on____ File Name/Header Press. SN 26072 at Surface_____ CASTO 34 - 14 MAYOGIS Temp. SN 701 Start Down_____ Cond. SN 303 Temp. _____ at Bottom____ Remarks Sta. 117, have 1 Start Up_____ FLUOR VMULT = 1.0 Cond.______ at Surface Other____ Data off Sal. Other of Bot. # Samp. Ours **Monitor Values** Conv. Mon. Values-CTD Sample Bot.Data Trip Time @ Bot. Rack Depth | Depth | Trip Temp. Sal. Therm-P Avg Tw Press. Temp. Other Press. Cond. Sal. Cond. 162,785 5,446 32,051 0.259 BOT 2065 2 149,915 5,423 18 31.885 0.301 150 3 2064 3 5.403 31,747 0,381 100 100,601 2063 31,747 0.419 75.623 5.416 5 2062 5 5,417 50,60 chl 50 6 2061 6 5.424 31,745 0.366 35 7 2060 7 31.742 0.316 5,421 70.644 70 8 2059 8 5.413 31.715 0.358 9.677 10 9 2058 9 31,710 0.321 3.203 5,422 10 10 П H 12 12

Initials <u>CH</u>

Pg. 35 of ____ Consec.Cast # Vessel Proj. & Leg
MILLER FREEMAN MF-94-05 Event# Vessel Sta. I.D. Instructions Sta. Designation Longitude E Date JD = Latitude Consec. Time Wind Wind Pind High Sta. Name Dry Wet Bar. Bottom Cast # Deg. GMT mb /0/4.2 Bulb Bulb Depth, m or I.D Min. S Deg. W Day Mo. Yr. Hr. Min. CTD Type & SN 91220-A **Monitor Checks Data Location** Times ID/Time on Deck Tape/Diskette I.D. at Surface Data on_____ File Name/Header Press. SN 26072 at Surface_____ CAST 0 35 - HMAY 0846 Press. ______ Temp. SN __701____ Start Down Cond. SN 303 Temp. _____ at Bottom_____ Start Up_____ Remarks V/0 = 162 FLUOR VMULT = 1.0 Cond._____ at Surface _____ Other_____ Sample Bot. Data Data off **Monitor Values** Conv. Mon. Values-CTD Time @ Bot. Rack Depth Depth Trip Sal. Other Press. Temp. Therm-P Avg Tw Temp. Cond. Other Press. Cond. Sal. Bot. # Samp. 30 31.154 4.5466 0.347 28 30.17 2 3 3 4 5 6 6 7 8 8 9 9 10 10 H H 12 12

Consec.	Cast #	Ves:	sel	Р	roj. & Leg	E	vent# Ve	ssel Sta. I.D.	Instr	uctions			···-		Pg. <u>36</u> . Designati		
Consec. Cast #	Deg.	Min.	or	Longitu eg.	or	Os JD = JS Day Mo.	4	Time GMT r. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind	Wind Po	Type Weath. O	ottom epth, m	Sta. Nar or I.D	
	282	1000000	7 N 1	5025	65W1	4MA Y	9 4 0	9 4 8	54	4		7 7 1 1 3	5 128	65	149		20
			_	ress.	Mon on Deck		s : Surface	Dat Su Start D at Bo	ta on rface Down ttom		Tap	pe/Diskette	Data Loc		lame/Head ∡e =	der 	
	VMULT :		_ c	Cond				at Su — Dat	t Up rface ta off		Th	erns di	pluit trip				
Bot. R	T Trip ack Deptl	Tin Depth	ne @ Trip	Press.	Monito Temp.	Cond.	Other	Press.	Temp.	Values-C Cond.	TD Sal.		nple Bot.D Avg Tw	ata Sal.		Other Samp.	
	350			iii -													T
	260			<u> </u>													2
	139	40			1			138.955	5.378	5.391	32.115	0.213			1 1		3
	A 100	1.52:00	1.58					15	5.868		32084	0.387			06		4
	75								5,920		32.057	0.393					5
	50				EAL			50,036			32.051	0.447				che	6
	35			X					5.940		32.043	0,457				chl	7
	1 .							19.885	5,634		31.528	0.408				chil	8
	20							1.1. (7.07								che	
 	10							10.190	5.580	=	31.706	0.373			İ	Come	9
								10.190		_	 			61		chil	9
	10							3.169	5.582	=	31.906			5.1			

Pg. <u>37</u> of ____

С	onse	c. Cas	t # 3 7	Vesse	el ER FRE	Pr EMAN	oj. & Leg MF-94-	05 Ex	vent# Vess	el Sta. I.D.	Instru	ıctions				Sta	. Designati		
1	onsec ast #		Latit	ude Min.	N or	Longitu eg.	de E C	Date JD =	Υ G	ime MT	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind PnolO	Type Weath. O G	ottom epth, m	Sta, Nan or I.D	1
6	3	5	852	Y 7	N	5054	72W1	Y M A Y	9411	3 3	5 5	45	15	3810			146	12	- 1
			1220-A					itor Check		4		D/Time			Data Loc				
			6072		_		n Deck		Surface		a on face] '	oe/Diskette		File N CAST 6	lame/Hea ₃з →	der	
	-		01		- 1	ress				- Start D	own			17/4		CAST			
				1.0	_ <	emp Cond Other				Start at Sur	Up face		Rema	max det	71				
Pos.	Bot	T	Trip	Tim	e @			r Values	Lou	С	onv. Mon.	Values-CT	D	Sar	nple Bot.D	ata		Other Samp.	
1	DOC.	A	C224 3	Depth 3138 42		Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	0.374	Avg Tw	Sal.	08	Samp.	
2		PI	179	7 + 70 1						24.66	3.611		71, 725	0.344			00	0(22.5)	2
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Cons	ec.Cas	st# ○31	8 WILL	el ER FR	REEMAN	Proj. & Leg		Event#	Vessel St	a. 1.D.	Instr	uctions								Sta. Des	ignatio	on		
Conse Cast	c.		ude Min.	or	Long i Deg.		Date JI	134	Time GMT Hr. M		Dry Bulb	Wet Bulb		Bar. nb	S. S. Vis.	Wind Dir.	Wind Sp.	Cloud	Weath.	Bottoi Depth,		Sta. Nan or I.D	ne	
03	85	84-	0 5	N	1505	8 1 W	1 4 M A	Y 9 4	125	1	5 3	4 2	2 1	5	38	/ 0 5	1 1	76	, 2	17	7	1 2	42	
Type	CTD ,	91220-A					onitor Ch	ecks		Tim	es	JD/Time					Data	Loca						
		26072		_		on Deck		at Surfac	:e		on			Ta	pe/D	iskette	I.D.			e Name	/Head	ler		
	.SN_			- T	Press				<u></u> <u></u>		vn								CAST	038				
_	.SN_3			_	Temp					at Botte	om													
FL	UOR V	<u>MULT = </u>	1.0	_	Cond						Up ice			Ren	arks						•		- 1	
			· · · · · · · · · · · · · · · · · · ·	-	Other						off													
os.	Ţ	Trip Depth	Tin	1e @			itor Value					Values-C		<u> </u>			nple B					Other	Š	
	t. reack		Depth	Tri	Press	. Tem	o. Con	d. Oth	ner P	ress.	Temp.	Cond.		Sal.	I h	erm-P	Avg T	W	Sa	AJ. 0 C	50t. #	Samp.		ni
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2	ļ	300		<u> </u>					149	5.504	5.124		31.	738	0,	269							2	-
3		150							15	0.462	5,421		31.	728	0.	187					35		3	20
4		00	Jean						90	1.537	5.377		31	. 对 o	O	.192							4	20
5	:	75						940	7	1,143	5.364		3/	178	Ö	.190	,						5	20
6		50	,							0.062			32	.052	0	. 258						ell	6	20
7		35								,313	-		31	. 939	O	,349						ell	7	20
8		20								0. [85			3/	1.924	0	. 341						chl	,8	20
9		10				,					5.660			.919		355						chl	9	207
10		3									5.661		1			345						ehl	10	20
l I																							П]
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C	onse	c.Cas	t #	Vesse	l R FRE		oj. & Leg MF-94- ()5	vent# Vess	sel Sta. I.D.	Instru	ctions				3	Sta. Designa	ition	
	nsec st #		Latit		N or	Longitue eg.	de E D	ate JD =	f G	ime GMT Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Sind	Wind Pno	Type Weath.	Bottom Depth, m	Sta. Na or I.E	
Ŋ	3 0	15	84-	2 4 6		5056	62W1	4 M A Y	941	1 3 Fe	55	4 3		8110		61	186	1	23
<i>J</i> -	C	TD .	1220-A	***				tor Check	S	Tir	nes J	D/Time		A	Data Loc				
			6072			0	n Deck	at	Surface		a on face		Тар	e/Diskette	I.D.		Name/H	eader	
Te	mp. S	5N_7	01		-	ress				- Start D	own					CASI			
		SN_3				emp					tom : Up				142-				
	FLU	<u>UR VI</u>	MULT =	1.0		Cond Other		-		at Sur	face		Rema	rks _/o =	elepta 1	d 1			
S.		Т	Trip	Tim	e @		Monito	r Values			onv. Mon.			San	nple Bot.D	ata	Sa		os.
S.	Bot.	Rack	1.00	Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.		Avg Tw	Sa	l. Bot.	# Samp.	- A
1			botter							181 703	5.415			0.176					-
2			150	<u> </u>		18				150.700	5.418		32.54	0.165			07	1	2
3			100		\$22					100.135	5.401	30 1	32.294	0.147					3
4			75	g ·			g vill			74.996	5,537		32.084	0.415					4
5		111	50				165	W _ 8	3 1	50.484	5.574		32.059	0.404				ehl	5
6			35			£				35,247	5.574		32.055	0.399				the	6
7			20							19.991	5,568		32.054	0,424				che	-
8			10							10.360	5,566		32,054	0.431				chl	_
9			3							3.40	5.581		32.053	0.375				chl	9
10																			10
II										<u> </u>									11
12																64 <u></u>			12
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Pg. 40 of ____

Consec.Cast # Vessel					R FRFI	FMAN I	oj. & Leg MF-94-	. 05	Event#	Vesse	l Sta. I.D.	Instru	ections				Sta.	Designation	on 	
	Deg. Min. S				N or	Longitu ceg.	le E I	Date	JD = 3 Mo. Yr.	Ti n GM Hr.		Dry Bulb	Wet Bulb	Bar.	Wind এ Dir.	Wind Pno	Meath.	ottom pth, m	Sta. Nan or I.D	
0	40	5	335	28	N	56486	8 W]	4 M	A Y 9 4	8	26	56	46		8121	5127	6	174	12	4
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Те	mp. S	N_7	01		P	ress	<u> </u>					own					CAST	-		-
C	Cond. SN 303 FLUOR VMULT = 1.0				Te	emp						tom								
l _	FLUOR VMULT = 1.0					Cond					Start	.Up foco		Rema	rks 2/0 =	171				
_						ther					- Data	off			•	E1-F	7-7			
Š		T	Trip	Time	@		Monit				C	onv. Mon.	Values-CT	D		nple Bot.D		Sal.	Other	S
9	Bot.	Rack	Depth	Depth	Trip	Press.	Temp.	Co	ond. Oth	ner	Press.	Temp.	Cond.	Sal.		Avg Tw	Sal.	Bot. #	Samp.	1
1) kal			,					59.649	5.368		32,262	0.618			24	<u></u>	
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