Consec. Çast # Proj. & Leg MF9111 Sta. Designation Event# Vessel Vessel Sta. I.D. Instructions CTD to bottom wsalinity 001 MILLER FREEMAN Wind Wind Cloud Sp. Sp. Sp. Sp. Depth, m Latitude Longitude E Date JD = Jy Time Consec Sta. Name Dry Wet Bar. or W Day Mo. Yr. or **GMT** Cast # or I.D Bulb Bulb mb Min. Deg. S Hr. Min. CTD **Data Location Monitor Checks JD/Time Times** Type & SN 91220-B 0135:12 Tape/Diskette I.D. on Deck Data on\_ at Surface File Name/Header Press. SN\_\_\_\_\_ 0135:15 at Surface... MF9HI CON # Cast 001 - 010cT0134 Temp. SN \_\_710 0136138 Start Down\_ 0138,20 Cond. SN <u>304</u> Temp. \_\_\_\_\_ at Bottom\_ Start Up 0139; 30 Remarks Vax clock reset to UTC (-1.5 min) Cond.\_\_\_\_\_ at Surface OMI GO Other. 014100 Data off\_\_\_ Sal. Other Trip Monitor Values Sample Bot. Data Sal. Other of Bot. # Samp. 0 Conv. Mon. Values-CTD Time @ Bot Rack Depth Depth Therm-P Avg Tw Sal. Trip Press. Temp. Cond. Cond. Other Press. Temp. 2 3 3 4 5 5 6 7 8 8 9 9 10 10 11 11 bot 12 52.868 9.669 34624 31746 31.7411 0139:12

Initials 2000

Pg. <u>a</u> of \_\_\_ Consec.Cast # Instructions CTD to bottom W/ Trup Salur. Sample Sta. Designation (6 x 56) Proj. & Leg MF9111 Event# Vessel Vessel Sta. I.D. Instructions 002 MILLER FREEMAN Longitude E Date JD = Latitude Wind Wind Dir. Sp. Q Time Sta. Name Consec. Bottom Dry Wet Bar. or **GMT** Cast # Deg. Depth, m or I.D Bulb Bulb Deg. S W Day Mo. Yr. Hr. Min. CTD Times JD/Time
Data on 274/0206:55 **Data Location Monitor Checks** Type & SN 91220-B Tape/Diskette I.D. on Deck at Surface File Name/Header Press. SN\_\_\_\_\_ at Surface 0706:55 MF-91-11 rant#2 Cast002\_010070206 Start Down 0207:50 Temp. SN \_\_710\_\_\_\_ at Bottom 0214:20 Cond. SN 304 Temp. Start Up 0214:45 Cond.\_\_\_\_\_ Remarks at Surface 0220 44 Data off 824:45 Other .\_\_\_\_ **Monitor Values** Sample Bot.Data Sal. Other Trip Time @ Conv. Mon. Values-CTD Bot. Rack Depth Depth Trip Bot. # Samp. Temp. Cond. Sal. Therm-P Avg Tw Press. Temp. Cond. Other Sal. Press. 3 4 5 5 6 6 8 8 9 9 10 10 11 H 30,8888 10.650 9.692 38.867 30874 10,7 6219:100219:35

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Initials \_\_\_\_\_

Sta. Designation ¿S samples Wind Wind phologon W. Sp. Cloud W. Weath. Bottom Depth, m Sta. Name or I.D

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Consec.Cast #

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Proj. & Leg MF9111

Longitude E Date JD =

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Vessel Sta. I.D.

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Instructions

Wet

Bar.

Dry

Cor		Cast		Vesse MILLE	l R FREE!	Pro	oj. & Leg F9111	Event 09	# Vessel	Sta. I.D.	Instru	ictions	a paltan	~ W S	Dampl	Sta. De	signatio	n	Ť.
Con Cas	sec. t #	De	Latiti g.	ude Min.	N or S Deg	Longitud g.	le E Da or W Da	ate JD = 274 ay Mo. Y			Dry Bulb	Wet Bulb	Bar. mb	Wind	1 1 1			ta. Nam or I.D	е
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ho bollow w/ salunt sample Sta. Designation Sta. Name Bottom Depth, m or I.D **Data Location** Tape/Diskette I.D. File Name/Header MF-91-11 COST #5 Cot005-0100T0441

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Instructions

Times JD/Time Data on 274/6441:40

0442:06

Dry

Bulb

at Surface\_

Start Down,

Wet

Bulb

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Consec.Cast #

CTD

Temp. SN \_710

Press. SN\_

Type & SN 91220-B

Deg.

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Vessel

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Proj. & Leg MF9111

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100

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Date JD = 274

Day Mo.

**Monitor Checks** 

Vessel Sta. I.D.

Time

GMT

Hr. Min.

Pg. \_\_\_ of \_\_\_ Sta. Designation Consec.Cast # Proj. & Leg MF9111 Vessel Event# Vessel Sta. I.D. Instructions, CTD to bottom working pample 006 101 MILLER FREEMAN Latitude Ν Longitude E Date JD = 274 Wind Wind Pool Bottom Depth, m Time Sta. Name Consec. Wet Bar. Dry or W Day Mo. Yr. GMT or I.D Cast # Bulb mb Bulb Min. S Deg. Hr. Min. 096 CTD Times JD/Time
Data on 274/0537:02 **Data Location Monitor Checks** Type & SN 91220-B Tape/Diskette I.D. on Deck at Surface File Name/Header Press. SN\_\_\_\_\_ at Surface 0537:12 MF-91-11 cost \$6 cast 006-010 CT 0536 Press, \_\_\_\_\_ Start Down 0537:55 Temp. SN \_\_710 at Bottom\_0547'00 Cond. SN <u>304</u> Temp. \_\_\_\_\_ Start Up 0548100 Cond.\_\_\_\_\_ Remarks wire out: 287m at Surface 0555: 45 Other \_\_\_\_\_ Data off 0547:23 Sal. Other Monitor Values Sample Bot.Data Conv. Mon. Values-CTD Trip Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Temp. Cond. Sal. Therm-P Avg Tw Sal. Press. Temp. Cond. Other Press. 2 2 3 4 5 6 6 7 7 8 8 9 9 10 10 11 H 30.0361 12 055425 32,030 10.229 33,377 30.021

Initials 844

Pg. 7 of \_\_\_\_ Consec.Cast\_# Proj. & Leg MF9111 Sta. Designation Event# Vessel Vessel Sta. I.D. Instructions CTD to bottom W/ salmit Dample 007 MILLER FREEMAN Longitude E Date JD = 274 Latitude Wind Wind Pool Sp. Sp. Sp. Depth, m Time Sta. Name Consec. Wet Bar. Dry or W Day Mo. Yr. **GMT** or I.D Cast # Bulb Bulb Deg. S Hr. Min. CTD Times JD/Time
Data on 274/0629:22 **Data Location Monitor Checks** Type & SN 91220-B on Deck Tape/Diskette I.D. at Surface File Name/Header Press. SN\_\_\_\_\_ 0629:45 MF91-11 cost #7 (ust007-010cT0628 at Surface\_ Start Down 0630:17 Temp. SN \_ 710 \_\_\_\_\_ at Bottom 0634:27 Cond. SN \_ 304 Temp. \_\_\_\_\_ Start Up (1634: 53 Cond.\_\_\_\_\_ Remarks were out: 129 at Surface 0638: 58 Other. Data off 0634:55 Sal. Other of Bot. # Samp. Monitor Values Sample Bot.Data Trip Conv. Mon. Values-CTD Time @ Bot. Rack Depth Depth Trip Temp. Therm-P Avg Tw Sal. Cond. Press. Cond. Other Press. Temp. 2 3 4 6 8 8 9 9 10 10 11 12 17 30,2745 74.981 10.063 33.495 30.259 0637:10 10

Initials 814W

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Pg. 9 of \_\_\_ Consec.Cast # Vessel Sta. Designation Proj. & Leg Event# Vessel Sta. I.D. Instructions 000 MILLER FREEMAN MF9111 126 MAIDZ Longitude E Date JD = 274 Latitude N Time Wind Wind Bottom Bottom Depth, m Consec. Sta. Name Dry Wet Bar. or W Day Mo. Yr. or Cast # Deg. GMT or I.D Bulb Bulb mb Min. S Deg. Hr. Min. 8 4 7 2 0 0 3 0 7 9 6 550152W CTD **Data Location Monitor Checks** ID/Time Times Type & SN 91220-B on Deck Data on 2128 Tape/Diskette I.D. File Name/Header at Surface Press. SN\_\_\_\_\_ at Surface 3 | 28 23 Cost 009\_ 01 oct 2127 Press. \_\_\_\_\_ Temp. SN \_\_710 Start Down 21 28 45 Cond. SN <u>304</u> Temp. \_\_\_\_\_ at Bottom\_\_\_\_\_ Start Up\_\_\_\_ Cond.\_\_\_\_\_ Remarks at Surface Other. Data off\_\_\_\_\_ Monitor Values Trip Conv. Mon. Values-CTD Sample Bot.Data Sal. Other T Bot. Rack Depth Depth Trip Time @ Bot, # Samp. Temp. Therm-P Avg Tw Press. Press. Cond. Sal. Temp. Cond. Other Sal. 6 33.3211 09 SIE. EE FEO. SE SEP. 189. ESS 2 3 3 4 4 5 5 6 6 8 8 9 9 10 10 11 H 12 12

Initials _	
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Pg. 10 of \_\_\_\_

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Pg. 12 of \_\_\_ Consec.Cast # Vessel Proj. & Leg Event# Vessel Sta. I.D. Sta. Designation Instructions 012 MILLER FREEMAN MF9111 930 9142 Latitude Longitude E Date JD = 277 Wind Wind Dir. Sp. Cloud Acath. Time Consec. Bottom Sta, Name Dry Wet Bar. or **GMT** Cast # Depth, m or I.D Bulb Bulb mb Deg. S Deg. Min. W Day Mo. Yr. Hr. Min. 085 CTD **Data Location Monitor Checks** JD/Time Times Type & SN <u>91220-B</u> on Deck Tape/Diskette I.D. File Name/Header at Surface Data on\_\_\_\_ Press. SN\_\_\_\_\_ at Surface\_\_\_\_ SHIOT-2040\_510142 Press. \_\_\_\_\_ Temp. SN \_\_710\_\_\_\_\_\_ 01:46:30 Start Down\_\_\_\_ Cond. SN <u>304</u> 01:52:50 Temp. \_\_\_\_\_ at Bottom\_\_\_\_ Start Up 01:5 2: 65 Cond.\_\_\_\_\_ Remarks CAST WAS TAKEN THE NIGHT at Surface 01:5 :: PRIOR TO RECOVERY Other \_\_\_\_\_ 186 m Data off\_\_\_ T Trip Monitor Values Conv. Mon. Values-CTD Sample Bot. Data Sal. Other Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Press. Temp. Therm-P Avg Tw Sal. Temp. Cond. Press. Cond. Other 32.4392 187.131 6.492 32.584 32.429 187 0153.40 4 5 6 6 8 8 9 9 10 10 11 11 12

Initials \_\_\_\_\_

Pg. <u>13</u> of \_\_\_ Consec.Cast # Vessel Proj. & Leg Event# Vessel Sta. I.D. Sta. Designation instructions 013 MF9111 MILLER FREEMAN 232 9141 Latitude Longitude E Date JD = Time Cloud Type Weath. Sta. Name Consec. Dry Wet Wind Bottom Bar. or or **GMT** Cast # Depth, m or I.D Bulb Bulb Dir. mb Min. S Deg. Day Mo, Yr. Hr. Min. CTD **Monitor Checks Data Location** Times ID/Time Type & SN 91220-B 02:39:109 Tape/Diskette I.D. on Deck at Surface Data on\_ File Name/Header Press. SN\_\_\_\_ 02:29::03 at Surface\_\_ CAST 013\_ 040CT 0238 Press. \_\_\_\_\_ Temp. SN \_\_710 Start Down\_\_\_ 02:40:39 Cond. SN 304 Temp.\_\_\_\_\_ at Bottom <u>02:47:15</u> Start Up 04 47 40 Remarks CAST WAS RE-STARTED DUE TO Cond.\_\_\_\_\_ at Surface\_\_\_\_\_ LOW SALINITIES NEAR SURFACE-Other. Data off\_\_\_\_ HELD CITD @ SURFACE FOR ~30 SECS-Trip Monitor Values Sal. Other Time @ Conv. Mon. Values-CTD Sample Bot.Data Bot. Rack Depth Depth Temp. Bot. # Samp. Trip Press. Cond. Cond. Sal. Therm-P Avg Tw Sal. Temp. Other Press. 3.490 10.667 32.503 28.814 6 28.7509 26 3 \*SALINITY SAMPLED IN UNMIKED LAYER 5 5 (TO COLLECT HOW SAVINITY WATER 6 6 7 8 8 9 9 10 10 11 11

CAST WAS TAKEN ON NIGHT PRIOR

TO MOORING RECOVERY

12

Initials \_\_\_\_\_

12

meters @ 39, 41, 74, 104, 164 Pg. 14 of \_\_\_\_ Consec.Cast # Vessel Event# Vessel Sta. I.D. 279 Instructions CTD to bottom WT: S Samples Sta. Designation F9138 Proj. & Leg MILLER FREEMAN MF9111 410 Longitude E Date JD= Latitude N Bar. Wind Wind Photom Depth, m Time Consec. Sta. Name Dry Wet Min. or S Deg. or Day Mo. Yr. **GMT** Cast # Deg. Bulb or I.D Bulb Hr. Min. CTD **Data Location Monitor Checks** Times ID/Time Type & SN 91220-B Data on 277-12219:53 on Deck Tape/Diskette I.D. at Surface File Name/Header Press. SN\_\_\_\_\_ at Surface 2220:010 ME91-11 coste14 casto14-040cT2219 Start Down 2220:55 Temp. SN \_\_710 at Bottom 2226 140 Cond. SN \_ 304 Temp.\_\_\_\_\_ Start Up 2236 1 45 Cond.\_\_\_\_\_ Remarks wire out: 174 at Surface 2236 40 Other. Data off 2227:30 Sal. Other so Bot. # Samp. T Trip **Monitor Values** Sample Bot.Data Conv. Mon. Values-CTD Time @ Bot. Rack Depth Depth Trip Temp. Cond. Sal. Press. Sal. Therm-P Avg Tw Cond. Other Press. Temp. 2027:20 2032:37 32.9842 164.673 5.325 32.052 32.971 5 5 8 8 9 10 10 11 11 12

Initials SAM

Sta. Designation Wind Wind Dir. Sp. Old Sp. Sta. Name Bottom Depth, m or I.D **Data Location** File Name/Header

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Instructions to Home w/

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Tape/Diskette I.D.

Wet

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JD/Time

Consec.Cast #

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Type & SN 91220-B

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MILLER FREEMAN

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Proj. & Leg MF9111

on Deck

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Event#

at Surface

E Date JD = 178

**Monitor Checks** 

Day Mo, Yr.

Vessel Sta. I.D.

Dry

Bulb

Times

Data on...

Time

**GMT** 

Hr. Min.

34,36,69,99,170 Pg. 16 of \_ Vessel MILLER FREEMAN Proj. & Leg MF9111 Event# Vessel Sta. I.D. Instructions of to be to be to my Tis samples Sta\_Designation

Consec. Cast # Deg. Min. S Deg. W Day Mo. Yr. Hr. Min. Bulb Bulb Bulb Bulb Dir. Sp.	Con		را د ما ا د		Vesse MILLI	el ER FREE	MAN P	roj. & Leg MF9111	Eve	ent# Vess	sel Sta. I.D.	Instru	uctions to be the aw	T W	i S Dan	neles	Sta_De	esignation	n	
CTD   1220-B   Type & SN   9120-B					ude	N or	Longitu	ide E Da	ate JD = 27 ay Mo.	8 Yr. Hr.	MT	Dry	Wet	Bar.	Wind		Meath.		ita. Nam or I.D	ie
Type & SN   91220-B   On Deck   at Surface   Data on   378/6226   20   25   Start Down   at Bottom   O2.271-10   Cond.   SN   304   Cond.	2 1	6	5	840	102	413	5053	27W0	50CT	9107	2270	95	079	813	8255			32F	9 13	6
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& Bot.	. Rack	Depth	Time Depth	Trip	Press.	Temp.	Cond.	Oth	er Pre	ss. T	emp.	Cond.	Sal.	Therm-F	Avg Tw	Sal.	Bot. #	Samp.	la la
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Initials \_\_\_\_\_\_

Pg. <u>18</u> of \_ Sta. Designation Cloud Dui Weath. Sta. Name Bottom Depth, m or I.D

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er er	ess. S mp. S	CTD							Surface	at Sur Start D	a on <u>0</u> face <u>0</u> own <u>0</u>	5:4 <u>2</u> 5:43:11.5 5:43:140	Tap	e/Diskette	I.D.	File Nam	-			
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Consec.Cast #

018

Deg.

Consec.

Cast #

Vessel

Latitude

Min.

MILLER FREEMAN

Deg.

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or

S

Proj. & Leg MF9111

or

W

Longitude

Event#

Yr.

B Date JD =278

Day Mo.

Vessel Sta. I.D.

Time

**GMT** 

Hr. Min.

Instructions

Wet

Bulb

Bar.

mb

Wind

Dir.

Dry

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Pg. <u>19</u> of \_ Sta. Designation Wind Wind D Bottom Sta. Name

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Consec.Cast #

019

Vessel MILLER FREEMAN

Proj. & Leg MF9111

Event#

Vessel Sta. I.D.

Instructions

Pg. 20 of \_\_\_\_ Sta. Designation Vessel Proj. & Leg Event# Vessel Sta. I.D. Instructions 9132 300 MILLER FREEMAN MF9111 ` Latitude Longitude E Date JD = 278 Ν Time Cloud Dusk Type Weath. Bottom Sta. Name Dry Wet Bar. Wind or W Day Mo. Yr. GMT or S. S. Vis. Depth, m or I.D Bulb Bulb mb Dir. Min. S Deg. Hr. Min. 800 **Monitor Checks** JD/Time **Data Location** Times Type & SN 91220-B on Deck Tape/Diskette I.D. File Name/Header at Surface Data on\_\_\_\_ Press. SN\_\_\_\_ at Surface\_\_\_\_\_ CASTORO-090CTOFIL Press. \_\_\_\_\_\_ Temp. SN <u>710</u> D7:18:54 Start Down\_\_\_\_ Cond. SN 304 at Bottom 0 7:24:55 Temp. \_\_\_\_\_ Start Up 0 7: 25:130 Cond.\_\_\_\_\_ Remarks at Surface \_\_\_\_\_ Other. WO=159 Data off Sal. Other of Bot. # Samp. Q Sample Bot.Data Monitor Values Conv. Mon. Values-CTD Time @ Bot. Rack Depth Depth Trip Therm-P Avg Tw Sal. Press. Temp. Cond Sal. Press. Cond. Other Temp. 31,4968 072823 53,762 10,401 35,005 31,490 2 7 8 9 10

Consec.Cast #

020

Cast # Deg.

CTD

Trip

Consec.

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Initials (PW)