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Pg. <u>2</u> of ____ Consec.Cast # Vessel 021 Proj. & Leg MF90-2 Event# Vessel Sta. I.D. Sta. Designation Instructions MILLER FREEMAN | FOCT 002 070 Longitude E Date JD = 097 Latitude Time Cloud Prointy Yearth. Sta. Name Consec. Dry Wet Bar. Wind Bottom GMT V S Q 8101 Cast # Dir. Depth, m or I.D Bulb Bulb Deg. Min. Deg. Day Mo. Yr. Hr. Min. 29 W 07 A P R 9 0 0 5 0 CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** Times ID/Time 003 Data on____ Tape/Diskette I.D. on Deck File Name/Header at Surface Press. SN 25084 at Surface_____ DUB2:(Data_Log)SCS;3 Start Down 04:57 Temp. SN __701 Cond. SN 303 at Bottom 05:06 Temp. _____ Start Up_____ Remarks Cond._____ at Surface_____ Other_____ Data off _____ Trip Sample Bot.Data Sal. Other Time @ Monitor Values Conv. Mon. Values-CTD Bot. Rack Depth Depth Trip Bot. # Samp. Press. Temp. Temp. Cond. Sal. Therm-P Avg Tw Cond. Other Press. 233 05:08:00 05:09:15 32.334 4.305 233 0 32326 3 4 4 5 6 6 7 8 9 10 П 12

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Instructions #5 Consec.Cast # Proj. & Leg MF90-2 Event# Vessel Sta. I.D. F 0 C I SO LINE 7.5 Sta. Designation Vessel 021 MILLER FREEMAN Latitude Longitude E Date |D = 097 Time Wind Wind pnod Akeath Sta. Name Bottom Consec. Dry Wet Bar. GMT or I.D Depth, m Cast # Bulb Bulb Deg. Deg. Min. Day Mo. Yr. Hr. Min. 3 CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** Times JD/Time Tape/Diskette I.D. Data on_____ File Name/Header on Deck at Surface Press. SN 25084 at Surface____ DUB2: (Data Log.SCS: 6 Start Down 11:51 Press. Temp. SN __701 at Bottom 11:59 Cond. SN 303 Temp._____ Start Up_____ Cond._____ Remarks at Surface____ Other_____ Data off ______ Other Samp. Sample Bot.Data Conv. Mon. Values-CTD Sal. Trip Monitor Values Time @ Bot. Rack Depth Depth Trip Bot, # Samp. Therm-P Avg Tw Press. Temp. Cond. Temp. Cond. Sal. Sal. Press. Other 223 11:59 12:01 229.0 4.564 32.1.83 32.678 2 3 4 5 6 7 8 9 10 П 12 Initials

Consec.Cast # Proj. & Leg MF90-2 Event# Vessel Sta. I.D. F 0 C I 8/ LING 7.5 Vessel 021 Sta. Designation Instructions CTD #6 006 MILLER_FREEMAN Latitude Longitude E Date |D =09 } Mind Wind Dir. Sp. Cloud Aeath. Time Sta. Name Consec. Dry Bottom Wet Bar. **GMT** or I.D Cast # Depth, m Bulb Bulb Deg. Min. Deg. Day Mo. Yr. Hr. Min. 7.5 CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** ID/Time Times Tape/Diskette I.D. File Name/Header on Deck at Surface Data on____ Press. SN 25084 at Surface_ DUB2:(Data_Log.SCS; 7 Press. Temp. SN __701___ Start Down 12:50 at Bottom 12', 56 Cond. SN 303 Temp._____ Start Up_____ Cond._____ Remarks at Surface Other_____ Data off _____ Trip Sample Bot.Data Sal. Other Monitor Values Conv. Mon. Values-CTD Time @ Bot. Rack Depth | Depth | Trip Bot. # Samp. Press. Temp. Therm-P Avg Tw Temp. Cond. Sal. Other Press. Cond. 205 12:56 12:57 209.2 4.663 32.789 32.786 2 3 3 4 4 5 6 6 7 8 8 9 9 10 10 П 12

Pg. 7 of ____ Proj. & Leg MF90-2 Event# Consec. Cast. # Vessel 021 Sta. Designation Vessel Sta. I.D. Instructions CTD #7 MILLER FREEMAN Latitude Longitude $E \mid Date \mid JD = 97$ Time Wind Wind Pnod A Sta. Name Consec. Bottom Bar. Dry Wet mb vi si **GMT** or I.D Depth, m Cast # Bulb Bulb Deg. Deg. Min. Day Mo. Yr. Hr. Min. 3 007573915N154371 CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** Times]D/Time Tape/Diskette I.D. File Name/Header on Deck at Surface Data on_ Press. SN_25084 13:46 DUB2:(Data Log.SCS; 8 at Surface_ Press. _____ Temp. SN 701 13:47 Start Down___ Cond. SN_303_ Temp._____ at Bottom____ Start Up_____ Cond._____ Remarks at Surface_____ Other_____ Data off ____:__ Other Trip Conv. Mon. Values-CTD Sample Bot.Data Sal. Time @ Monitor Values Bot. Rack Depth Depth Trip Bot. # Samp. Avg Tw Press. Temp. Cond. Press. Temp. Cond. Sal. Therm-P Other 180 13:56 14:01 185.3 24 4,57 32.714 4.578 32,710 3 4 5 6 8 9 10 12 Initials

Pg. 8 of ____ Consec.Cast # Vessel 021 Proj. & Leg MF90-2 Event# Vessel Sta. I.D. Instructions Sta. Designation MILLER FREEMAN Latitude Longitude E Date JD = 97 Time Wind Wind pn dispersion of the second with the second wind pn dispersion of the second with th Sta. Name Consec. Dry Wet Bottom Ваг. GMT or I.D Cast # Depth, m Bulb Bulb Min. Deg. Day Mo. Yr. Hr. Min. 3 8 CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** Times JD/Time Tape/Diskette I.D. File Name/Header on Deck at Surface Data on_ Press. SN 25084 14:51 at Surface... DUB2:(Data_Log.SCS: 9 Temp. SN _ 701 14:52 Start Down_ 14:55 Cond. SN 303 Temp. ____ at Bottom__ Start Up_____ Remarks Wine out 98 m. Cond._____ at Surface _____ Other_____ Data off _____ Sal. Other Son Bot. # Samp. Trip Monitor Values Conv. Mon. Values-CTD Sample Bot. Data Time @ Bot. Rack Depth Depth Trip Press. Temp. Cond. Other Press. Temp. Cond. Sal. Therm-P Avg Tw 05 98 14:55 14:56 102.9 3.889 32.926 32.305 2 3 4 5 6 6 7 8 8 9 9 10 10 11 12

Consec.Cast # Proj. & Leg MF90-2 Event# Vessel Sta. I.D. 87 LINE 8 Instructions Vessel 021 Sta. Designation CTD#9 MILLER FREEMAN | FOCI Longitude E Date JD = 97 Latitude Time Wind Wind Pind Cloud Average A Sta. Name Consec Dry Wet Bottom Bar. GMT Depth, m or I.D Cast # Bulb Bulb S Deg. Min. Day Mo. Yr. Hr. Min. CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** JD/Time Times Data on____ Tape/Diskette I.D. File Name/Header on Deck at Surface Press. SN 25084 at Surface_____ DUB2:(Data_Log.SCS; /O Temp. SN <u>701</u> Start Down Cond. SN __ 303 ____ Temp. _____ at Bottom_____ Start Up_____ Remarks WIRE OUT RESET ON WAY Cond.______ at Surface DOWN Other_____ Data off _____ Sample Bot.Data Other Trip **Monitor Values** Conv. Mon. Values-CTD Time @ Bot. Rack Depth | Depth | Trip Bot. # Samp. Press. Cond. Temp. Cond. Sal. Therm-P Avg Tw Temp. Other Press. 2,806 32,074 32.078 2 3 4 5 6 6 8 9 10 11 12

Pg. 10 of ___ Consec.Cast # Proj. & Leg MF90-2 Event# Vessel Sta. LD. Vessel 021 Sta. Designation MILLER FREEMAN Latitude Longitude Date D=97Time Wind Wind pn death Sta. Name Consec. Bottom Dry Wet Bar. GMT Depth, m or I.D Cast # Bulb Bulb Deg. Deg. Min. Day Mo. Yr. Hr. Min. 56 CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** Times D/Time Tape/Diskette I.D. on Deck at Surface File Name/Header Data on_ Press. SN 25084 at Surface +777 DUB2:(Data Log.SCS: // Temp. SN _ 701 Start Down 17112 at Bottom 13124 Cond. SN 303 Temp. _____ Start Up____ Remarks wines out 197 Cond._____ at Surface_____ Other_ Data off _____ Other Trip Time @ **Monitor Values** Conv. Mon. Values-CTD Sample Bot. Data Sal. Bot. Rack Depth Depth Trip Bot. # Samp. Press. Therm-P Avg Tw Temp. Cond. Other Press. Temp. Cond. Sal. 167 17:26 17:31 179,7 4.139 06 32.617 4.16 32.623 2 2 3 3 4 5 6 6 7 8 9 10 10

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Pg. 12 of ___ Consec.Cast # Vessel 021
MILLER FREEMAN F 0 C I Proj. & Leg MF90-2 Event# Vessel Sta. I.D. Sta. Designation Instructions Latitude Longitude E Date JD = 97 Time Wind Wind pnow Akeath. Sta. Name Dry Bottom Consec. Wet GMT or I.D Cast # Depth, m Bulb Bulb Deg. Min. Deg. W Day Mo, Yr. Hr. Min. 58 CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** Times JD/Time Tape/Diskette I.D. on Deck Data on_____ at Surface File Name/Header Press. SN __ 25084 at Surface_____ DUB2:(Data Log.SCS: /ろ Press. _____ Temp. SN __701 Start Down 21:01 at Bottom 2108 Cond. SN 303 Temp. _____ Start Up_____ Cond._____ Remarks at Surface Other_____ Data off _____ Sample Bot.Data Other Trip Time @ Monitor Values Conv. Mon. Values-CTD Sal. Bot. Rack Depth Depth Trip Bot. # Samp. Temp. Therm-P Avg Tw Press. Temp. Cond. Other Press. Cond. Sal. 227 21:08 21:09 0 32.378 227 4.194 32.335 2 3 5 6 6 8 8 9 10 II 12

Pg. 14 of _ Consec.Cast # Proj. & Leg MF90-2 Event# Vessel Sta. I.D. F 0 C I 698 Vessel 021 Instructions Sta. Designation MILLER FREEMAN FOCT Latitude Longitude E Date ID = 97 Time Wind Wind Pind Sp. Cloud Arthur Sp. Cloud Sta. Name Consec. Dry Wet Bottom Bar. GMT S. S. or I.D Depth, m Cast # mb Bulb Bulb Deg. S Deg. Min. Day Mo. Yr. Hr. Min. 59 CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** Times JD/Time Data on____ Tape/Diskette I.D. File Name/Header on Deck at Surface Press. SN 25084 at Surface_____ DUB2: (Data Log.SCS: 16 Press. ______ Temp. SN __701 Start Down 12:24 50 at Bottom 12:34 Cond. SN 303 Start Up_____ Cond._____ Remarks at Surface_____ Data off_____ Other Sample Bot. Data Sal. Trip Time @ **Monitor Values** Conv. Mon. Values-CTD Bot. Rack Depth Depth Trip Bot. # Samp. Therm-P Avg Tw Press. Temp. Cond. Press. Temp. Cond. Sal. Other B 216 22:35 216.5 32.348 4,284 4.26 32.352 5 6 6 8 9 10 H

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Pg. 16 of ___ Sta. Designation Consec.Cast # Vessel 021 Proj. & Leg MF90-2 Event# Vessel Sta. I.D. Instructions MILLER FREEMAN FOCI Latitude Longitude E Date ID = 98 Time Wind Wind Pind Akeath Vision Sp. Cloud Akeath Vision Sp. Cloud Sp. Bottom Sta. Name Dry Wet Consec. Bar. **GMT** S. S. Vis. or I.D mb Depth, m Cast # Bulb Bulb Deg. Min. Deg. Day Mo. Yr. Hr. Min. 8 A P CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** ID/Time Times Data on_____ Tape/Diskette I.D. File Name/Header on Deck at Surface Press. SN 25084 at Surface_____ DUB2: (Data Log.SCS: 18 Temp. SN 701 Start Down Cond. SN 303 at Bottom____ Temp. _____ Start Up_____ Remarks Cond..... at Surface Other_____ Data off Sample Bot. Data Other Trip Monitor Values Conv. Mon. Values-CTD Sal. Time @ Bot. Rack Depth Depth | Trip Bot. # Samp. Temp. Therm-P Avg Tw Sal. Press. Temp. Cond. Other Press. Cond. Sal. 33 1239 01:47 01:48 123.9 0 31.643 2591 31.640 3 4 4 5 6 6 8 9 10 10 12

Pg. 17 of ____ Consec.Cast # | Vessel UZ1 | MILLER FREEMAN Proj. & Leg MF90-2 Event# Vessel Sta. I.D. F 0 C I 323 Sta. Designation Instructions FOCI Latitude Longitude E Date JD = 102 Time Wind Wind pnod Viet Weath Cloud Sp. Cloud Sta. Name Consec. Bottom Dry Wet Bar. GMT or I.D mb Depth, m Cast # Bulb Bulb Deg. Min. Deg. Day Mo. Yr. Hr. Min. CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** Times ID/Time on Deck at Surface Tape/Diskette I.D. File Name/Header Data on_ Press. SN __25084 DUB2: (Data Log.SCS; 72 at Surface____ Start Down 15:24 Press. ______ Temp. SN 701 at Bottom 15,26 Cond. SN 303 Start Up____ Cond._____ Remarks Bottom 75. at Surface_____ Other____ Data off _____ Sample Bot. Data Sal. Other Trip Time @ Monitor Values Conv. Mon. Values-CTD Bot. Rack Depth Depth Trip Bot. # Samp. Therm-P Avg Tw Sal. Press. Temp. Cond. Other Temp. Cond. Sal. Press. 60 15:27 15:33 65.7 2.204 31,784 31.7900 26 2 2 3 3 4 4 5 6 6 8 9 9 10 10 12

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Consec.Cast # 17 Proj. & Leg MF90-2 Event# Vessel Sta. l.D. 344 Sta. Designation Vessel 021 Instructions MILLER FREEMAN Latitude Longitude E Date ID = 103 Time Wind Wind Pind Sp. Old Sta. Name Bottom Consec. Dry Wet Bar. GMT or I.D Depth, m Cast # Bulb Bulb Deg. Deg. Min. Day Mo. Yr. Hr. Min. CTD PMEL SBE Type & SN 91220-A **Data Location Monitor Checks** Times ID/Time Tape/Diskette I.D. Data on_____ File Name/Header on Deck at Surface Press. SN 25084 at Surface____ DUB2:(Data Log.SCS: 23 Start Down 01:11 Temp. SN 701 at Bottom 01:20 Cond. SN 303 Temp. _____ Start Up_____ Remarks Cond._____ at Surface_____ Data off _____ Other_____ win aut 251 Sal. Other Sample Bot.Data Trip Conv. Mon. Values-CTD Time @ **Monitor Values** Bot. Rack Depth Depth Trip Bot. # Samp. Therm-P Avg Tw Press. Cond. Other Temp. Cond. Sal. Press. Temp. B 172 01:24:30 01:29:30 172. 4.11 32.243 4.127 32-240 2 3 3 4 4 5 6 7 8 9 9 10 10 11 11 12 12

Cast # Deg. Min. S Deg. Or W Day Mo. Yr. Hr. Min. Bulb Bulb mb S S Dir. Sp. 0 S Depth, m or CTD PMEL SBE Type & SN 91220-A Ond. SN 303 Cond. SN 303 Cond. Other Data Location Tape/Diskette I.D. File Name/Header at Surface Start Down 05/58/30 at Bottom 06/189 Start Up at Surface Data off Checks Other Data Surface Data off Checks Surface Data off Checks Other Data off Checks Other Data off Checks Other Data off Checks Other Data Other Data Other Checks Other Data off Checks Other Data off Checks Other Data Off Checks Other Data Other Data Other Data Other Data Other Checks Other Data Off Checks Other Data Oth																	Pg.	19	of	<u></u>
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