

Consec. Cast # 1		Vessel 021 MILLER FREEMAN		Proj. & Leg FOCI-1 MF-89-03		Event# 229		Vessel Sta. I.D.		Instructions Line 8 Fox 55										Sta. Designation FOX55					
Consec. Cast #	Latitude N or S		Longitude E or W		Date JD = 103			Time GMT		Dry Bulb	Wet Bulb	Bar. mb	SS	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.				
001	57	28	75	N	154	42	55	W	13	Apr	89	03	19	06	00	05	8	21	18	320	036	81	74	FOX55	
CTD Type & SN 91220-B				Monitor Checks								Times JD/Time				Data Location									
Press. SN 26072				on Deck				at Surface				Data on 0315 at Surface				Tape/Diskette I.D.				File Name/Header					
Temp. SN 710				Press. 9.072				2.418				Start Down 0315				Jan 89				13 Apr 0310.DAT					
Cond. SN 304				Temp.				2.965				at Bottom 0319													
				Cond.				SAL 32.056				Start Up 0319													
				Other				DEPTH 2.396				at Surface				Remarks no water sample									
												Data off 0319				Bad Seal on Bottle									
Pos	Bot.	T Rack	Trip Depth	Time @		Monitor Values				Conv. Mon. Values-CTD				Sample Bot. Data				Sal. Bot. #	Other Samp.	Pos.					
				Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.									
1	99		23m	0721	0322	23.113	2.700	32.066	22.898															1	
2																									2
3																									3
4																									4
5																									5
6																									6
7																									7
8																									8
9																									9
10																									10
11																									11
12																									12

Consec. Cast # 2		Vessel 021 MILLER FREEMAN		Proj. & Leg FOCI-1 MF-89-03		Event # 230		Vessel Sta. I.D. 60658		Instructions Line 8 Fox 56				Sta. Designation FOX 56										
Consec. Cast #	Latitude Deg. Min. N or S		Longitude Deg. E or W		Date JD = 103 Day Mo. Yr.			Time GMT Hr. Min.		Dry Bulb	Wet Bulb	Bar. mb 1020.5	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D.				
002	57	31	06	N	154	47	22	W	13	APR	89	04	12	07	0	06	2	20	38	065	106	81	216	FOX 56
CTD Type & SN 91220-B Press. SN 26072 Temp. SN 710 Cond. SN 304				Monitor Checks on Deck at Surface Press. 9.082 3.421 Temp. 2.937 Cond. SAL 31.599 Other DEPTH 3.389				Times JD/Time Data on 0403 at Surface 0405 Start Down 0405 at Bottom 0412 Start Up 0413 at Surface Data off 0412				Data Location Tape/Diskette I.D. File Name/Header 13Apr0357 Remarks Rosette Sampler did not Fire Repeat Tow.												
Pos.	Bot.	T Rack	Trip Depth	Time @		Monitor Values				Conv. Mon. Values-CTD				Sample Bot. Data			Sal. Bot. #	Other Samp.	Pos.					
				Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.								
1	252	A	189	0413	0419														1					
2			Did not Trip																2					
3																			3					
4																			4					
5																			5					
6																			6					
7																			7					
8																			8					
9																			9					
10																			10					
11																			11					
12																			12					

Initials _____

Consec. Cast # 03		Vessel 021 MILLER FREEMAN		Proj. & Leg FOCI-1 MF-89-03		Event # 231		Vessel Sta. I.D. G0658		Instructions Line 8 FOX56 (Take 2)				Sta. Designation FOX56									
Consec. Cast #	Latitude Deg. Min.		N or S	Longitude Deg.		E or W	Date JD = 103 Day Mo. Yr.		Time GMT Hr. Min.		Dry Bulb	Wet Bulb	Bar. mb 1020.5	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.	
003	57	30	90 N	154	47	52 W	13	APR	89	04	53	06	00	05	2	20	38	22	51	26	81	217	FOX56
CTD Type & SN 91220-B Press. SN 26072 Temp. SN 710 Cond. SN 304				Monitor Checks on Deck at Surface Press. 9.054 2.946 Temp. 2.996 Cond. SAL 31.724 Other DEPTH 2.919				Times JD/Time Data on 0441 at Surface 0445 Start Down 0446 at Bottom 0453 Start Up 0453 at Surface 0453 Data off 0453				Data Location Tape/Diskette I.D. Jan 89 File Name/Header 13 Apr 0437 Remarks											

Pos.	Bot.	T Rack	Trip Depth	Time @		Monitor Values <small>SAL DEPTH</small>				Conv. Mon. Values-CTD				Sample Bot. Data			Sal. Bot. #	Other Samp.	Pos.	
				Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.				
1	252	A	190	0454	0459	192.049	4.418	32.805	190.189						195	4.36	32.811	20/21		1
2																				2
3																				3
4																				4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12

Initials _____

Consec. Cast # <u>4</u>		Vessel <u>021 MILLER FREEMAN</u>		Proj. & Leg <u>FOCI-1 MF-89-03</u>		Event# <u>232</u>		Vessel Sta. I.D.		Instructions Line 8 <u>Fox 57</u> <u>G064B</u>				Sta. Designation <u>FOX 57</u>														
Consec. Cast #	Latitude Deg. Min. N or S		Longitude Deg. E or W		Date JD = <u>103</u> Day Mo. Yr.			Time GMT Hr. Min.		Dry Bulb	Wet Bulb	Bar. mb <u>1020.0</u>	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D.								
<u>004</u>	<u>57</u>	<u>32</u>	<u>93</u>	<u>N</u>	<u>154</u>	<u>52</u>	<u>92</u>	<u>W</u>	<u>13</u>	<u>APR</u>	<u>89</u>	<u>05</u>	<u>54</u>	<u>05</u>	<u>5</u>	<u>05</u>	<u>0</u>	<u>20</u>	<u>3</u>	<u>8</u>	<u>05</u>	<u>5</u>	<u>06</u>	<u>6</u>	<u>8</u>	<u>1</u>	<u>235</u>	<u>FOX 57</u>
CTD Type & SN <u>91220-B</u>				Monitor Checks				Times JD/Time				Data Location																
Press. SN <u>26072</u>				on Deck at Surface				Data on <u>0541</u>				Tape/Diskette I.D.				File Name/Header												
Temp. SN <u>710</u>				Press. <u>4.134</u>				at Surface <u>0544</u>				<u>Jan 89</u>				<u>13 Apr 0536</u>												
Cond. SN <u>304</u>				Temp. <u>2.905</u>				Start Down <u>0545</u>																				
				Cond. <u>SAL 31.607</u>				at Bottom <u>05:52</u>																				
				Other <u>DEPTH 4.096</u>				Start Up <u>0554</u>																				
								at Surface																				
								Data off <u>0552</u>																				
												Remarks																

Stn	Bot.	T Rack	Trip Depth	Time @		Monitor Values				Conv. Mon. Values-CTD				Sample Bot. Data			Sal. Bot. #	Other Samp.	vi	
				Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.				
1	504		74m	0601	0603	74.437	3.326	32.016	73.736								32.028	22/23		1
2																				2
3																				3
4																				4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12

Initials _____

Consec. Cast # <u>05</u>		Vessel <u>021 MILLER FREEMAN</u>		Proj. & Leg <u>FOCI-1 MF-89-03</u>		Event # <u>233</u>		Vessel Sta. I.D.		Instructions Line 8 <u>Fox 58</u> <u>G0638</u>						Sta. Designation <u>FOX58</u>																
Consec. Cast #	Latitude Deg. Min.		N or S	Longitude Deg.		E or W	Date JD = <u>103</u> Day Mo. Yr.		Time GMT Hr. Min.		Dry Bulb	Wet Bulb	Bar. mb <u>1020.0</u>	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.										
<u>005</u>	<u>57</u>	<u>36</u>	<u>13</u> N	<u>155</u>	<u>00</u>	<u>96</u> W	<u>13</u>	<u>Apr</u>	<u>89</u>	<u>07</u>	<u>04</u>	<u>05</u>	<u>2</u>	<u>0</u>	<u>5</u>	<u>0</u>	<u>2</u>	<u>0</u>	<u>3</u>	<u>8</u>	<u>0</u>	<u>5</u>	<u>8</u>	<u>1</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>1</u>	<u>2</u>	<u>4</u>	<u>4</u>	<u>FOX58</u>
CTD Type & SN <u>91220-B</u> Press. SN <u>26072</u> Temp. SN <u>710</u> Cond. SN <u>304</u>				Monitor Checks on Deck at Surface Press. <u>3.411</u> Temp. <u>2.856</u> Cond. <u>SAL 31.680</u> Other <u>DEPTH 3.379</u>				Times JD/Time Data on <u>0652</u> at Surface <u>0655</u> Start Down <u>0656</u> at Bottom <u>0707</u> Start Up <u>0704</u> at Surface Data off				Data Location Tape/Diskette I.D. <u>Jan 89</u> File Name/Header <u>13 Apr 0647</u> Remarks																				
St. #	Bot.	T Rack	Trip Depth	Time @ Depth Trip		Monitor Values <u>SAL</u> <u>DEPTH</u> Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #	Other Samp.	St. #													
<u>1</u>	<u>252</u>	<u>A</u>	<u>152</u>	<u>0707</u>	<u>0713</u>	<u>152.388</u>	<u>3.644</u>	<u>32.214</u>	<u>150.925</u>						<u>149</u>	<u>3.64</u>	<u>32.224</u>	<u>24/25</u>		<u>1</u>												
<u>2</u>																				<u>2</u>												
<u>3</u>																				<u>3</u>												
<u>4</u>																				<u>4</u>												
<u>5</u>																				<u>5</u>												
<u>6</u>																				<u>6</u>												
<u>7</u>																				<u>7</u>												
<u>8</u>																				<u>8</u>												
<u>9</u>																				<u>9</u>												
<u>10</u>																				<u>10</u>												
<u>11</u>																				<u>11</u>												
<u>12</u>																				<u>12</u>												

Consec. Cast # 6	Vessel 021 MILLER FREEMAN	Proj. & Leg FOCI-1 MF-89-03	Event# 235	Vessel Sta. I.D.	Instructions Line 8 Fox 59 G020B	Sta. Designation FOX59
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Consec. Cast #	Latitude N or S	Longitude E or W	Date JD = 103	Time GMT	Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
006	5738.52 N	1550430 W	13 Apr 89	0848	03	9	033	20	38	06	02	06	81	10	260	FOX59

CTD Type & SN 91220-B	Monitor Checks	Times JD/Time	Data Location
Press. SN 26072	on Deck at Surface	Data on 0837	Tape/Diskette I.D. File Name/Header
Temp. SN 710	Press. 8.988	at Surface 0839	Jan 89 13 Apr 0835
Cond. SN 304	Temp.	Start Down 0839	
	Cond.	at Bottom 0847	
	Other	Start Up	
		at Surface	
		Data off 0847	Remarks 3 previous Trys at Fox 59 Error light on Deck unit due to broken wire on Fish

Pos	Bot.	T Rack	Trip Depth	Time @		Monitor Values SAL DEPTH				Conv. Mon. Values-CTD				Sample Bot. Data			Sal. Bot. #	Other Samp.	Pos
				Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.			
1	504					2.776	3.104	31.779	2.750										1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

no water sample
Problem with wires
In Rosette

Consec. Cast # <u>7</u>		Vessel <u>021 MILLER FREEMAN</u>		Proj. & Leg <u>FOCI-1 MF-89-03</u>		Event # <u>236</u>		Vessel Sta. I.D.		Instructions Line 8 <u>Fox 60 Go 218</u>										Sta. Designation <u>FOX 60</u>	
Consec. Cast #	Latitude Deg. Min. N or S		Longitude Deg. E or W		Date JD = <u>103</u> Day Mo. Yr.			Time GMT Hr. Min.		Dry Bulb	Wet Bulb	Bar. mb	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D.	
007	57	40	38	N	155	10	71	W	13 Apr 89	0951	039	033	203	8	060	20	561		292	FOX 60	
CTD Type & SN <u>91220-B</u>				Monitor Checks				Times JD/Time				Data Location									
Press. SN <u>26072</u>				on Deck at Surface				Data on <u>8</u> <u>0937</u>				Tape/Diskette I.D.				File Name/Header					
Temp. SN <u>710</u>				Press. <u>8.992</u> <u>3.108</u>				at Surface <u>0941</u>				<u>Jan 89</u>				<u>13 APR 0931</u>					
Cond. SN <u>304</u>				Temp. <u>2.628</u>				Start Down <u>0942</u>													
				Cond. <u>SAL 31.583</u>				at Bottom <u>0951</u>													
				Other <u>DEPTH 3.079</u>				Start Up <u>0952</u>													
								at Surface													
								Data off <u>0951</u>													
																Remarks <L> not pressed at water sample mark?					

Pos	Bot.	T Rack	Trip Depth	Time @		Monitor Values				Conv. Mon. Values-CTD				Sample Bot. Data			Sal. Bot. #	Other Samp.	Pos	
				Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.				
1	504		52m	0958	0959	—	—	—	—								31.670	26/27		1
2																				2
3																				3
4																				4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12

303 m
125 m

Consec. Cast # <u>8</u>		Vessel <u>021 MILLER FREEMAN</u>		Proj. & Leg <u>FOCI-1 MF-89-03</u>		Event # <u>237</u>		Vessel Sta. I.D. <u>G022B</u>		Instructions Line 8 <u>Fox 61</u>				Sta. Designation <u>FOX61</u>											
Consec. Cast #	Latitude N or S Deg. Min.		Longitude E or W Deg.		Date JD = <u>103</u> Day Mo. Yr.			Time GMT Hr. Min.		Dry Bulb	Wet Bulb	Bar. mb <u>1018.9</u>	SS	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D.					
<u>008</u>	<u>05</u>	<u>74</u>	<u>27</u>	<u>6</u>	<u>N</u>	<u>155</u>	<u>14</u>	<u>86</u>	<u>W</u>	<u>13</u>	<u>APR</u>	<u>89</u>	<u>10</u>	<u>46</u>	<u>04</u>	<u>10</u>	<u>39</u>	<u>19</u>	<u>38</u>	<u>06</u>	<u>19</u>	<u>38</u>	<u>1</u>	<u>303</u>	<u>FOX61</u>
CTD Type & SN <u>91220-B</u>				Monitor Checks				Times JD/Time				Data Location													
Press. SN <u>26072</u>				on Deck at Surface				Data on @ <u>1033</u>				Tape/Diskette I.D. <u>Tau 89</u>				File Name/Header <u>13 APR 1029</u>									
Temp. SN <u>710</u>				Press. <u>9.038</u> <u>2.078</u>				at Surface @ <u>1036</u>																	
Cond. SN <u>304</u>				Temp. <u>2.768</u>				Start Down <u>1037</u>																	
				Cond. <u>SAL 31.454</u>				at Bottom @ <u>1046</u>																	
				Other <u>DEPTH 2.059</u>				Start Up <u>1046</u>																	
								at Surface																	
								Data off								Remarks <u>no Temp. Thermometers REV. BEFORE Reading</u>									

Stn. No.	Bot.	T Rack	Trip Depth	Time @		Monitor Values				Conv. Mon. Values-CTD				Sample Bot. Data			Sal. Bot. #	Other Samp.	Stn. No.
				Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.			
<u>1</u>	<u>252</u>	<u>A</u>	<u>126m</u>	<u>1050</u>	<u>1056</u>	<u>127.673</u>	<u>2.889</u>	<u>31.746</u>	<u>126.453</u>							<u>31.758</u>	<u>28/29</u>		<u>1</u>
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

at 125 m