

WD

Consec. Cast # <u>01</u>		Vessel <u>MILLER FREEMAN</u>		Proj. & Leg <u>MF-88-02</u>		Event # <u>739</u>		Vessel Sta. I.D.		Instructions										Sta. Designation <u>FOX 61</u>										
Consec. Cast #	Latitude Deg. Min. N or S		Longitude Deg. E or W		Date JD = <u>84</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.									
<u>01</u>	<u>57</u>	<u>43</u>	<u>00</u>	<u>N</u>	<u>155</u>	<u>14</u>	<u>18</u>	<u>W</u>	<u>24</u>	<u>MAR</u>	<u>88</u>	<u>14</u>	<u>48</u>	<u>-6</u>	<u>5</u>	<u>-7</u>	<u>0</u>	<u>0</u>	<u>7</u>	<u>4</u>	<u>8</u>	<u>26</u>	<u>4</u>	<u>21</u>	<u>1</u>	<u>8</u>	<u>1</u>	<u>30</u>	<u>2</u>	<u>FOX 61</u>
CTD Type & SN <u>SBE 91220-B</u>		Monitor Checks								Times JD/Time				Data Location																
Press. SN <u>26072</u>		on Deck				at Surface				Data on <u>84/1445</u>				Tape/Diskette I.D.				File Name/Header												
Temp. SN <u>710</u>		Press. <u>34469.219</u>				34477.328				at Surface <u>1447</u>				<u>MAR 88</u>				<u>24 MAR 1438</u>												
Cond. SN <u>304</u>		Temp. <u>5463.520</u>				6533.242				Start Down <u>1447</u>																				
		Cond. <u>3073.523</u>				8653.934				at Bottom <u>1457</u>																				
		Other _____								Start Up <u>1457</u>																				
										at Surface _____																				
										Data off <u>1457</u>																				
Remarks _____																														

Stn. #	Bot. 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	-	295		1457	35314.5	6780.9	9019.5		291.754	5.626		33.122			33.125 33.127	1.8		1
2																AVG 33.126			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

changed 0-2m for 31.282 to 31.4149.

+0.004

seabird vs outboard mean = 0.001 # of casts = 7 std dev = .007

Initials DMD  
✓ ✓

W.D

Consec. Cast # <b>02</b>		Vessel <b>MILLER FREEMAN</b>		Proj. & Leg <b>MF-88-02</b>		Event # <b>741</b>		Vessel Sta. I.D.		Instructions										Sta. Designation <b>FOX60</b>					
Consec. Cast #	Latitude N or S Deg. Min.		Longitude E or W Deg.		Date JD = <b>84</b> 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.				
<b>02</b>	<b>57</b>	<b>40</b>	<b>94</b>	<b>N</b>	<b>155</b>	<b>10</b>	<b>21</b>	<b>W</b>	<b>24</b>	<b>MAR</b>	<b>88</b>	<b>15</b>	<b>43</b>	<b>-6</b>	<b>0</b>	<b>-6</b>	<b>5</b>	<b>07</b>	<b>48</b>	<b>28</b>	<b>52</b>	<b>81</b>	<b>61</b>	<b>294</b>	<b>FOX60</b>

changed 0-1m  
for 31.427  
to 31.510%

CTD Type & SN <u>SBE 91220-B</u>		Monitor Checks				Times JD/Time				Data Location			
Press. SN <u>26072</u>		on Deck		at Surface		Data on <u>84</u> / <u>1539</u>		Tape/Diskette I.D.		File Name/Header			
Temp. SN <u>710</u>		Press. <u>34471.512</u>		<u>34479.883</u>		at Surface <u>1541</u>		<u>MAR 88</u>		<u>24 MAR 1532</u>			
Cond. SN <u>304</u>		Temp. <u>5315.473</u>		<u>6565.043</u>		Start Down <u>1543</u>							
		Cond. <u>3098.320</u>		<u>8677.031</u>		at Bottom <u>1551</u>							
		Other				Start Up <u>1552</u>							
						at Surface							
						Data off <u>1551</u>							
Remarks													

Stn. No.	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	—	290		1551	35305.9	6785.2	9013.6		288.423	5.656		33.039	—	—	33.042	2,9		1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials DMD  
✓ ✓

Consec. Cast # <u>03</u>		Vessel <u>MILLER FREEMAN</u>		Proj. & Leg <u>MF-88-02</u>		Event # <u>744</u>		Vessel Sta. I.D.		Instructions										Sta. Designation <u>FOX 59</u>																																
Consec. Cast #	Latitude Deg. Min. N or S		Longitude Deg. E or W		Date JD = <u>84</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.																															
<u>03</u>	<u>5</u>	<u>7</u>	<u>3</u>	<u>8</u>	<u>4</u>	<u>2</u>	<u>N</u>	<u>1</u>	<u>5</u>	<u>5</u>	<u>0</u>	<u>4</u>	<u>1</u>	<u>6</u>	<u>W</u>	<u>2</u>	<u>4</u>	<u>M</u>	<u>A</u>	<u>R</u>	<u>8</u>	<u>8</u>	<u>1</u>	<u>6</u>	<u>3</u>	<u>7</u>	<u>-</u>	<u>4</u>	<u>0</u>	<u>-</u>	<u>5</u>	<u>5</u>	<u>0</u>	<u>8</u>	<u>4</u>	<u>8</u>	<u>2</u>	<u>7</u>	<u>5</u>	<u>2</u>	<u>2</u>	<u>3</u>	<u>6</u>	<u>1</u>	<u>2</u>	<u>6</u>	<u>0</u>	<u>F</u>	<u>O</u>	<u>X</u>	<u>5</u>	<u>9</u>
CTD Type & SN <u>SBE 91220-B</u>		Press. SN <u>26072</u>		Temp. SN <u>710</u>		Cond. SN <u>304</u>		Monitor Checks on Deck at Surface				Times JD/Time				Data Location																																				
								Press. <u>34471.375</u> <u>34476.605</u>				Data on <u>84 / 1635</u>				Tape/Diskette I.D.				File Name/Header																																
								Temp. <u>5365.535</u> <u>6604.824</u>				at Surface <u>1637</u>				<u>MAR 88</u>				<u>24 MAR 1632</u>																																
								Cond. <u>3073.488</u> <u>8713.254</u>				Start Down <u>1637</u>																																								
								Other _____				at Bottom <u>1645</u>																																								
												Start Up <u>1646</u>																																								
												Data off <u>1646</u>																																								
																Remarks																																				

Stn. #	Bot. 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	—	250		1646	35196.3	6774.9	8999.6		250.708	5.597		33.000			32.993 32.994	3,10		1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

changed 0-1m  
from 31.477  
to 31.575%

Initials DMD

✓ ✓

W 2

Consec. Cast # <u>04</u>		Vessel <u>MILLER FREEMAN</u>		Proj. & Leg <u>ME-88-02</u>		Event # <u>745</u>		Vessel Sta. I.D.		Instructions										Sta. Designation <u>FOX 58</u>																			
Consec. Cast #	Latitude		N or S	Longitude		E or W	Date <u>JD = 84</u>			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.																
	Deg.	Min.		Deg.	Day		Mo.	Yr.	Hr.	Min.																													
	<u>04</u>	<u>57</u>		<u>36</u>	<u>23</u>		<u>N</u>	<u>155</u>	<u>00</u>	<u>51</u>		<u>W</u>	<u>24</u>	<u>MAR</u>	<u>88</u>	<u>17</u>	<u>24</u>	<u>-</u>	<u>3</u>	<u>9</u>	<u>-</u>	<u>5</u>	<u>0</u>	<u>0</u>	<u>8</u>	<u>4</u>	<u>8</u>	<u>2</u>	<u>8</u>	<u>0</u>	<u>2</u>	<u>1</u>	<u>6</u>	<u>8</u>	<u>1</u>	<u>24</u>	<u>2</u>	<u>FOX</u>	<u>58</u>
CTD Type & SN <u>SBE 91220-B</u>		Monitor Checks										Times JD/Time				Data Location																							
Press. SN <u>26072</u>		on Deck					at Surface					Data on <u>84</u> / <u>1721</u>				Tape/Diskette I.D.			File Name/Header																				
Temp. SN <u>710</u>		Press. <u>34472.059</u>					Press. <u>34478.504</u>					at Surface <u>1723</u>				<u>MAR 88</u>			<u>24 MAR 17 19</u>																				
Cond. SN <u>304</u>		Temp. <u>5387.582</u>					Temp. <u>6583.219</u>					Start Down <u>1723</u>																											
		Cond. <u>3077.391</u>					Cond. <u>8698.320</u>					at Bottom <u>1731</u>																											
		Other										Start Up <u>1732</u>																											
												at Surface																											
												Data off <u>1731</u>																											
Remarks																																							

  

Stn	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.			
<u>1</u>	<u>252</u>	<u>-</u>	<u>230</u>		<u>1731</u>	<u>35147.7</u>	<u>6766.8</u>	<u>8985.4</u>		<u>233.022</u>	<u>5.530</u>		<u>32.930</u>			<u>32.934</u>	<u>4</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>

changed 0-lm  
for 31.461  
to 31.6357m

Initials DMD  
✓ ✓

Consec. Cast # <u>05</u>		Vessel <u>MILLER FREEMAN</u>		Proj. & Leg <u>MF-88-02</u>		Event # <u>746</u>		Vessel Sta. I.D.		Instructions										Sta. Designation <u>FOX 57</u>																				
Consec. Cast #	Latitude		N or S	Longitude		E or W	Date JD = <u>84</u>			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.																	
	Deg.	Min.		Deg.	Day		Mo.	Yr.	Hr.	Min.																														
	<u>05</u>	<u>57</u>	<u>33</u>	<u>07</u>	<u>N</u>	<u>154</u>	<u>52</u>	<u>55</u>	<u>W</u>	<u>24</u>	<u>MAR</u>	<u>88</u>	<u>18</u>	<u>13</u>	<u>-</u>	<u>3</u>	<u>0</u>	<u>-</u>	<u>3</u>	<u>8</u>	<u>0</u>	<u>8</u>	<u>4</u>	<u>8</u>	<u>2</u>	<u>8</u>	<u>0</u>	<u>1</u>	<u>9</u>	<u>7</u>	<u>8</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>6</u>	<u>F</u>	<u>O</u>	<u>X</u>	<u>5</u>	<u>7</u>
CTD Type & SN <u>SBE 91220-B</u>		Monitor Checks										Times JD/Time				Data Location																								
Press. SN <u>26072</u>		on Deck					at Surface					Data on <u>84 / 1810</u>				Tape/Diskette I.D.			File Name/Header																					
Temp. SN <u>710</u>		Press. <u>34471.973</u>					Press. <u>34479.703</u>					at Surface <u>1812</u>				<u>MAR 88</u>			<u>24 MAR 1805</u>																					
Cond. SN <u>304</u>		Temp. <u>5468.465</u>					Temp. <u>6592.770</u>					Start Down <u>1813</u>																												
		Cond. <u>3078.738</u>					Cond. <u>8711.211</u>					at Bottom <u>1820</u>																												
		Other										Start Up <u>1821</u>																												
												at Surface																												
												Data off <u>1820</u>																												
Remarks																																								

  

Stn. No.	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.			
<u>1</u>	<u>252</u>	<u>—</u>	<u>230</u>		<u>1820</u>	<u>35128.8</u>	<u>6755.2</u>	<u>8962.4</u>		<u>226.238</u>	<u>5.451</u>		<u>32.798</u>			<u>32.802</u> <u>32.803</u>	<u>5,11</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>

changed 0-1m  
for 31.526  
to 31.506

Initials DMD  
✓ ✓

Consec. Cast # <u>06</u>		Vessel <u>MILLER FREEMAN</u>		Proj. & Leg <u>MF-88-02</u>		Event # <u>747</u>		Vessel Sta. I.D.		Instructions										Sta. Designation <u>FOX 56</u>																		
Consec. Cast #	Latitude		N or S	Longitude		E or W	Date JD = <u>84</u>			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.															
	Deg.	Min.		Deg.	Day		Mo.	Yr.	Hr.	Min.																												
	<u>06</u>	<u>57</u>	<u>30</u>	<u>9</u>	<u>4</u>	<u>N</u>	<u>15</u>	<u>44</u>	<u>13</u>	<u>W</u>	<u>24</u>	<u>MAR</u>	<u>88</u>	<u>18</u>	<u>57</u>	<u>-</u>	<u>3</u>	<u>8</u>	<u>-</u>	<u>3</u>	<u>8</u>	<u>0</u>	<u>9</u>	<u>4</u>	<u>8</u>	<u>2</u>	<u>8</u>	<u>0</u>	<u>1</u>	<u>8</u>	<u>6</u>	<u>8</u>	<u>1</u>	<u>2</u>	<u>1</u>	<u>7</u>	<u>FOX</u>	<u>56</u>
CTD Type & SN <u>SBE91220-B</u>		Monitor Checks										Times JD/Time		Data Location																								
Press. SN <u>26072</u>		on Deck					at Surface					Data on <u>84/1852</u>		Tape/Diskette I.D.					File Name/Header																			
Temp. SN <u>710</u>		Press. <u>34472.223</u>					34479.422					at Surface <u>1855</u>		<u>MAR88</u>					<u>24 MAR 1848</u>																			
Cond. SN <u>304</u>		Temp. <u>5374.668</u>					6566.105					Start Down <u>1856</u>																										
		Cond. <u>3078.457</u>					8655.762					at Bottom <u>1903</u>																										
		Other _____										Start Up <u>1903</u>																										
												at Surface _____																										
												Data off <u>1903</u>																										
Remarks																																						

  

Stn	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	-	210		1903	35081.7	6716.5	8913.5		209.453	5.177		32.617			32.603 32.606	6,12		1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

changed on  
for 31.019  
to 31.418

Initials DMD

✓ ✓

Consec. Cast #		Vessel		Proj. & Leg		Event#		Vessel Sta. I.D.		Instructions										Sta. Designation													
07		MILLER FREEMAN		MF-88-02		748														FOX 55													
Consec. Cast #		Latitude		Longitude		Date JD = 84		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.	
07		57 28 57 N		154 42 15 W		24 MAR 88		19 37		- 2 5		- 3 1		0 9		4 8		2 8 5		1 0 5		8 1						65		FOX 55			
CTD Type & SN <u>SBE 91220-B</u>				Monitor Checks				Times JD/Time				Data Location																					
Press. SN <u>26072</u>				on Deck				Data on <u>84/1932</u>				Tape/Diskette I.D.																					
Temp. SN <u>710</u>				at Surface				at Surface <u>1936</u>				File Name/Header																					
Cond. SN <u>304</u>				Press. <u>34472.176</u>				Start Down <u>1937</u>				<u>MAR88</u>																					
				Temp. <u>5349.215</u>				at Bottom <u>1938</u>				<u>24 MAR 1929</u>																					
				Cond. <u>3074.094</u>				Start Up <u>1939</u>																									
				Other				at Surface				Remarks																					
								Data off <u>1939</u>																									

  

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	—	56		1939	34634.6	6702.2	8850.9		55.551	5.080		32.219			32.223	7.13		1
2																			2
3																			3
4																			4
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials DMD

✓ ✓

changed 0-1m  
from 31.632  
to 31.8629m