

Consec. Cast # 001		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 34		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = Day Mo. Yr.			Time GMT Hr. Min.		Dry Bulb		Wet Bulb		Bar. mb 1003.9		S.S.		Vis.		Wind Dir.		Wind Sp.		Cloud Type		Weath.		Bottom Depth, m		Sta. Name or I.D.	
001		573080 N			1544671 W			01 MAY 92			1524		50		38		04		28		038		1238		1		209		6002A					
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom 1524 Start Up _____ at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header cast001_01 May 1512																		
Press. SN 25084				Press. _____												Remarks FOX 56. Held for 5 min at 10m (at beginning of cast) to warm up fluorometer. w/o																		
Temp. SN 701				Temp. _____																														
Cond. SN 303				Cond. _____																														
Other _____				Other _____																														
Pos.		Bot. Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		Pos.										
1				10								9.922 5.228 30.909 31.839												1										
2				20								20.891 4.749 30.511 31.839												2										
3				30								30.823 4.379 30.259 31.895												3										
4				50								50.922 4.542 30.509 31.997												4										
5				75								75.589 4.751 30.745 32.076												5										
6				100								100.796 4.874 30.916 32.141												6										
7				150								150.693 4.376 30.615 32.252												7										
8				Bottom																				8										
9												203.744 4.482 30.856 32.403								32.3907		27		9										
10																								10										
11																								11										
12																								12										

NUTS

Initials LL/BST

✓

Consec. Cast # 02		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 EOCI		Event # 35		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = Day Mo. Yr. 122			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.	
002573099N		1544701W			01 MAY 92			1612		54		39		04		28		30508381		20890028														
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header _____ Cust002 Remarks FOX 56 - Micro 200 + chlor																		
Press. SN 25084				Press. _____																														
Temp. SN 701				Temp. _____																														
Cond. SN 303				Cond. _____																														
				Other _____																														
Pos.		Bot.		T Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #		Other Samp.		Pos.									
1						10								9.754 5.259 30.935 31.839									MZ/CHL		1									
2						10																			2									
3						20								19.997 5.106 30.817 31.846									MZ/CHL		3									
4						20																			4									
5						30								29.954 4.415 30.290 31.895									MZ/CHL		5									
6						30																			6									
7						40								39.926 4.467 30.369 31.932									MZ/CHL		7									
8						40																			8									
9						50								49.824 4.537 30.462 31.967									MZ/CHL		9									
10						50																			10									
11						60								60.884 4.538 30.483 31.985									MZ		11									
12																									12									

Initials LL / WF



Consec. Cast # 03		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 36		Vessel Sta. I.D.		Instructions										Sta. Designation											
Consec. Cast #		Latitude N or S		Longitude E or W		Date JD = 122		Time GMT Hr. Min.		Dry Bulb		Wet Bulb		Bar. mb 1014.9		S.S.		Vis.		Wind Dir.		Wind Sp.		Cloud Type		Weath.		Bottom Depth, m		Sta. Name or I.D.	
003		573306 N		1545239 W		01 MAY 92		1700		75		50		05		28		3300		08		281		2269		003A					
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface				Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header Cast 003 - 01 May Remarks FOX 57 -139ml for chl w/o 216																			
Press. SN 25084		Temp. SN 701		Cond. SN 303		Press. _____		Temp. _____		Cond. _____		Other _____																			
Pos.		Bot.		T Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		Pos.					
1						Bottom		17:02:00 17:07:00						200.513 4.801 31.263 32.562				32.5644				07				1					
2						60								60.382 4.720 30.631 31.981										MZ		2					
3						50								50.062 4.87 30.737 31.986										CHL/MZ		3					
4						40								40.250 4.851 30.715 31.962										CHL/MZ		4					
5						30								30.328 4.811 30.646 31.927										CHL/MZ		5					
6						20								20.356 5.201 30.900 31.849										CHL/MZ		6					
7						10								9.908 5.233 30.925 31.852										MZ/CHL		7					
8																										8					
9																										9					
10																										10					
11																										11					
12																										12					

Initials LL / WF

✓ WF

Consec. Cast # <u>004</u>		Vessel <u>MILLER FREEMAN</u>		Proj. & Leg <u>MF-92-05 FOCI</u>		Event #		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = <u>122</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.	
004		57349 N			1550062 W			01 MAY 92			1807		70		5005		28		330		08		28		1		2359		0044					
CTD Type & SN <u>91220-A SEABIRD</u>				Monitor Checks on Deck at Surface								Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header <u>cast004-</u> Remarks <u>FOX 58</u> <u>NUTS</u>																		
Press. SN <u>25084</u>		Temp. SN <u>701</u>		Cond. SN <u>303</u>		Press. _____		Temp. _____		Cond. _____		Other _____																						
Pos.		Bot.		T Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		Pos.								
1						Bot								229.198 4.889 31.379 32.596										178		1								
2						200								200.790 4.769 31.146 32.458										177		2								
3						150								150.200 4.478 30.725 32.280										176		3								
4						100								100.499 4.922 30.993 32.183										175		4								
5						75								75.318 4.716 30.691 32.048										174		5								
6						50								50.525 4.671 30.580 31.975										173		6								
7						30								30.285 4.570 30.387 31.859								*		35		172		7						
8						20								20.548 4.994 30.729 31.851										171		8								
9						10								9.511 5.323 30.976 31.825										170		9								
10																										10								
11																										11								
12																										12								

Samples mixed up during Auto Sal run; Initials LL/WF  
 no more good Auto Sal readings until  
 cast 12 ✓

Consec. Cast #		005		Vessel		MILLER FREEMAN		Proj. & Leg		MF-92-05 FOCI		Event #		39		Vessel Sta. I.D.		Instructions		Sta. Designation															
Consec. Cast #		Latitude		N or S		Longitude		E or W		Date JD =		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.	
005		5736		46		N		15500		42		W		01 MAY 92		1840		116		080		0528		315		0828		1		23590		043			
CTD Type & SN				91220-A SEABIRD				Monitor Checks				Times JD/Time				Data Location																			
Press. SN				25084				on Deck				Data on				Tape/Diskette I.D.																			
Temp. SN				701				at Surface				at Surface				File Name/Header																			
Cond. SN				303				Press.				Start Down				Cast 005																			
				Temp.				at Bottom																											
				Cond.				Start Up				Remarks				FOX 58 - micro 200 + chlor																			
				Other				Data off				→ 39 ml for CHL				w/071																			

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				10						9.517	5.350	31.001	31.827				MZ/CHL	1	
2				20						19.782	5.359	31.023	31.839				MZ/CHL	2	
3				30						29.420	4.849	30.655	31.900				MZ/CHL	3	
4				40						39.549	4.707	30.579	31.944				MZ/CHL	4	
5				50						49.830	4.646	30.559	31.975				MZ/CHL	5	
6				60						59.769	4.697	30.629	32.001				MZ	6	
7																		7	
8																		8	
9																		9	
10																		10	
11																		11	
12																		12	

Initials LL/WF  
✓

Consec. Cast # <u>006</u>		Vessel <u>MILLER FREEMAN</u>		Proj. & Leg <u>MF-92-05 EOCI</u>		Event # <u>40</u>		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 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.	
006		573876 N			1550454 W			01 MAY 92			1930		085		051		0528		28		290		08281				255		G005A					
CTD Type & SN <u>91220-A SEABIRD</u>				Monitor Checks on Deck at Surface								Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header <u>can 006 -</u> Remarks <u>FOX 59 - NO NUTS</u> <u>-1391 mil for CHL w/o 250</u>																		
Press. SN <u>25084</u>		Temp. SN <u>701</u>		Cond. SN <u>303</u>		Press. _____		Temp. _____		Cond. _____		Other _____																						
Pos.		Bot.		T Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #		Other Samp.		Pos.									
1		38		B		Bot		11:30:40						227.284 4.677 31.091 32.471							10				1									
2						60								60.744 4.792 30.685 31.974											2									
3						50								49.811 4.804 30.668 31.949											3									
4						40								39.925 4.920 30.749 31.935											4									
5						30								29.659 4.768 30.556 31.865											5									
6						20								19.650 5.231 30.924 31.848											6									
7						10								10.308 5.405 31.032 31.810											7									
8																									8									
9																									9									
10																									10									
11																									11									
12																									12									

\* see note  
cast 4Initials LL/WF  
✓MZ +  
CHL

Consec. Cast # 007		Vessel MILLER FREEMAN		Proj. & Leg ME-92-05 FOCI		Event#		Vessel Sta. I.D.		Instructions										Sta. Designation																
Consec. Cast #		Latitude Deg. Min.		N or S		Longitude Deg.		E or W		Date JD = 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		5741		30		N		15509		86		01 MAY 92			2032		1000		073		04		28		300		0628		1		290		G006A			
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface				Times JD/Time Data on 202219 at Surface Start Down 202245 at Bottom 203200 Start Up at Surface Data off				Data Location Tape/Diskette I.D. File Name/Header C:\J007-51MM2022 Remarks FOX60 4/0284																								
Pos.		Bot.		T Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		Pos.										
1						BOT																		NATS		1										
2						250								250.439 4.767 31.207 32.506										187		2										
3						200								200.600 4.732 30.952 32.270										186		3										
4						150								150.178 4.769 30.842 32.133										185		4										
5						100								100.130 4.719 30.706 32.049										184		5										
6						75								75.304 4.516 30.437 31.947										183		6										
7						50								50.404 4.804 30.599 31.868								*		28 182		7										
8						30								30.207 5.173 30.884 31.852										181		8										
9						20								20.504 5.376 31.029 31.829										180		9										
10						10								10.287 5.632 31.198 31.782										179		10										
11																										11										
12																										12										

see note  
cast 4Initials Sam  
✓

Consec. Cast # 808		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event#	Vessel Sta. I.D.		Instructions										Sta. Designation							
Consec. Cast #	Latitude Deg. Min. S		N or S	Longitude Deg. Min. W		E or W	Date JD = 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.		
008	5	41	00	N	155	10	33	W	01	MAY	92	21	13	04	5	02	0	04	28	28	3	12	28	1	290	G006B
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface				Times JD/Time Data on 210810 at Surface 2 Start Down 210904 at Bottom 211100 Start Up at Surface 211800 Data off				Data Location Tape/Diskette I.D. File Name/Header con 008-01MAY2105														
Press. SN 25084				Press. _____								Remarks FOX 60 -139 mlt for CHL w/o 71														
Temp. SN 701				Temp. _____																						
Cond. SN 303				Cond. _____																						
Other _____				Other _____																						
Pos.	Bot.	T Rack	Trip Depth	Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #	Other Samp.	Pos.							
1			Bot																	1						
2			60							60.104	4.819	30.701	31.967							MZ	2					
3			50							50.170	4.795	30.643	31.928							CHL/MZ	3					
4			40							40.047	4.842	30.658	31.906							CHL/MZ	4					
5			30																	CHL/MZ	5					
6			20							20.146	5.172	30.877	31.851							CHL/MZ	6					
7			10							10.167	5.374	31.022	31.828							CHL/MZ	7					
8																					8					
9																					9					
10																					10					
11																					11					
12																					12					

Initials \_\_\_\_\_  
✓



Consec. Cast # 009		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 43		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S			Longitude E or W			Date JD = 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.	
009		57 42 60 N			155 15 40 W			01 MAY 92			22 02		07 20		04 20		05 28		00 00		00 18		1		269		00 07A							
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on at Surface				Data Location Tape/Diskette I.D. File Name/Header																		
Press. SN 25084				Press. 21:49:10 / 21:54:10								Start Down at Bottom 220255				Cass 009 Cast 009-01 MAY 2151																		
Temp. SN 701				Temp.								Start Up 220840																						
Cond. SN 303				Cond.								at Surface				Remarks FOX 61																		
Other												Data off				W/O 261																		
Pos.		Bot. Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #		Other Samp.		Pos.											
1		38 B		260 BOT		220330 220330						249.690 4.952 31.244 32.369							* 26		196		1											
2				200								199.790 4.842 30.957 32.170									195		2											
3				150								150.584 4.759 30.714 31.994									194		3											
4				180								101.063 4.814 30.656 31.899									193		4											
5				75								74.728 4.974 30.768 31.888									192		5											
6				50								50.144 5.065 30.791 31.840									191		6											
7				30								29.881 5.322 30.973 31.812									190		7											
8				20								19.846 5.532 31.135 31.801									189		8											
9				10								9.932 5.446 30.895 31.616									188		9											
10																							10											
11																							11											
12																							12											

\* see note cast 4

Initials WF

✓

NUTS

Initials SKM

✓

Consec. Cast # 011		Vessel MILLER FREEMAN		Proj. & Leg ME-92-05 FOCI		Event # 189		Vessel Sta. I.D.		Instructions				Sta. Designation											
Consec. Cast #		Latitude N or S		Longitude E or W		Date JD = 126 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.	
011		55 54 10 N		155 59 48 W		05 MAY 92		01 07 02		22		- 02		09		48		280 18		38		1008		26045A	
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface				Times JD/Time Data on 0108				Data Location Tape/Diskette I.D. File Name/Header													
Press. SN 25084				Press. _____				at Surface _____				_____													
Temp. SN 701				Temp. _____				Start Down 010400				_____													
Cond. SN 303				Cond. _____				at Bottom _____				_____													
_____				Other _____				Start Up _____				Remarks FOX 152													
_____				_____				at Surface _____				w/o													
_____				_____				Data off _____																	

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	T		Bot															1	
2	26		70															2	
3	21		68															3	
4	2		50															4	
5	28		40															5	
6	6																	6	
7	20																	7	
8	27																	8	
9	22																	9	
10	20																	10	
11	ping																	11	
12	Fluo																	12	

Scratch

(color changed on monitor, couldn't read screen!)

Initials SPM  
✓

Consec. Cast # 012		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 EOCI		Event # 190		Vessel Sta. I.D.		Instructions										Sta. Designation												
Consec. Cast #		Latitude N or S		Longitude E or W		Date JD = 126 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.	
012		55 54 21 N		155 59 03 W		05 MAY 92			01 22		02 2		-		02 09		48		280		1838		0080		G045B							
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface				Times JD/Time Data on 0119				Data Location																				
Press. SN 25084				Press. _____				Data on _____				Tape/Diskette I.D. File Name/Header																				
Temp. SN 701				Temp. _____				at Surface _____				Cass 012 051012-05 May 0118																				
Cond. SN 303				Cond. _____				Start Down _____																								
				Other _____				at Bottom 0122																								
								Start Up _____				Remarks Fox 152 new cable on digit meter w/o 78																				
								Data off _____																								
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	T		77	0122	0127							78.11	4.953	31.060	32.242			32.2445	64		1											
2	26		60									59.782	4.970	31.069	32.245					MZ	2											
3	21		50									50.481	4.947	31.043	32.241					chl/MZ	3											
4	2		40									41.053	4.968	31.058	32.243					chl/MZ	4											
5	28		30									30.329	5.001	31.084	32.246					chl/MZ	5											
6	6		20									20.329	5.040	31.113	32.247					chl/MZ	6											
7	20		15									15.493	5.036	31.107	32.247					water only	7											
8	27		15									15.500	5.043	31.113	32.247					water only	8											
9	22		10									10.541	5.028	31.098	32.246					chl/MZ	9											
10	20		10																		10											
11	pm																				11											
12	24m																				12											

Initials AM  
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Consec. Cast # 013			Vessel MILLER FREEMAN			Proj. & Leg MF-92-05 FOCI			Event # 193			Vessel Sta. I.D.			Instructions										Sta. Designation											
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 126 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.	
013		55 54 83 N			156 11 36 W			05 MAY 92			02 52 02		1 - 01		09		48		27		51		83		81		02		02		G046B					
CTD Type & SN 91220-A SEABIRD					Monitor Checks on Deck at Surface					Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom 0252 Start Up _____ at Surface _____ Data off _____					Data Location Tape/Diskette I.D. File Name/Header c013 013-05 MAY 02 45 Remarks FOX 153 w/o 197																					
Pos		Bot. Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		Pos												
1		38 B		194		0252 0257						192.043 5.503 32.200 32.951								32.9302 20				1												
2		26		600								66.735 4.257 30.185 31.911										M2		2												
3		21		50								50.802 4.104 29.997 31.844										CHL/M2		3												
4		2		40								40.609										CHL/M2		4												
5		28		30								30.708 4.242 30.016 31.743										CHL/M2		5												
6		6		20								20.660 4.320 30.074 31.741										CHL/M2		6												
7		20		10								10.519 4.335 30.082 31.740										water only		7												
8		27		10								10.562 4.343 30.089 31.740										water only		8												
9		22		10								10.506 4.343 30.088 31.740										CHL/M2		9												
10		20																						10												
11		miss																						11												
12		miss																						12												

Initials STN

Consec. Cast # 014		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 194		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 126 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.	
014		55 55 63 N			156 14 91 W			05 MAY 92			03 43		02 11		00 11		10		48		28		51		63		81		02 22		60 47 A			
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on at Surface 0335 Start Down at Bottom Start Up at Surface Data off				Data Location Tape/Diskette I.D. File Name/Header C01014-05May0334 Remarks FOX 154 w/ 227																		
S. No.		Bot. Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		S. No.										
1		26				Bot						216.642 5.427 32.201 33.014										205		1										
2		21				200						201.130 5.247 31.849 32.798										204		2										
3		21				150						150.640 4.750 30.990 32.322										203		3										
4		28				100						100.538 4.336 30.383 32.045										202		4										
5		26				75						74.584 3.939 29.883 31.858										201		5										
6		20				50						50.217 3.791 29.686 31.782										200		6										
7		27				30						29.906 4.060 29.863 31.711										199		7										
8		22				20						19.733 4.364 30.110 31.741										198		8										
9		20				10						10.004 4.428 30.156 31.737				31.7402				11		197		9										
10		20																						10										
11																								11										
12																								12										

Initials SAM



Consec. Cast # 015			Vessel MILLER FREEMAN			Proj. & Leg MF-92-05 FOCI			Event # 195			Vessel Sta. I.D.			Instructions										Sta. Designation						
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 126 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.	
015		55 55 53 N			156 14 87 W			05 MAY 92			0435		020		-01		104		8	2	901		648		1	0	2	226047B		226047B	
CTD Type & SN 91220-A SEABIRD					Monitor Checks on Deck at Surface					Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom 0435 Start Up _____ at Surface _____ Data off _____					Data Location Tape/Diskette I.D. _____ File Name/Header C:\015-05MAY-0428 Remarks FOX 154 w/o 58																
Pos.	Bot.	T Rack	Trip Depth	Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #	Other Samp.	Pos.												
1	26			60						59.540	4.103	30.007	31.852							1											
2	21			50						50.563	4.043	29.922	31.815							2											
3	2			40						40.095	3.999	29.858	31.789							3											
4	28			30						30.187	4.086	29.901	31.759							4											
5	6			20						20.012	4.239	30.008	31.742							5											
6	20			10						9.704	4.407	30.137	31.736				31.7550	09		6											
7	27																			7											
8	22																			8											
9																				9											
10																				10											
11																				11											
12																				12											

 Initials SAM  
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Consec. Cast # 016		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 197		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 126 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.	
016		555 654 N			156 21 05 W			05 MAY 92			0544		015		-05		10		48		297		15		582		228		G-048B					
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom 0544 Start Up 0546 at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header Cm016 15 MAY 1992 Remarks FOX 155 w/o 223																		
Pos.		Bot.		T Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #		Other Samp.		Pos.									
1		26				801								222.665 5.263 31.821 32.738							32.7485 #18		NUTS 214		1									
2		21				200								200.104 4.890 31.197 32.399									213		2									
3		2				150								150.327 4.551 30.755 32.244									212		3									
4		28				100								100.186 4.299 30.249 31.925									211		4									
5		6				75								75.235 3.996 29.892 31.813									210		5									
6		20				50								50.541 3.869 29.726 31.754									209		6									
7		27				30								30.437 3.986 29.796 31.733									208		7									
8		22				20								20.588 4.169 29.943 31.733									207		8									
9		20A				10								10.587 4.284 30.038 31.738									206		9									
10																									10									
11																									11									
12																									12									

Initials

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Consec. Cast # 017		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event #	Vessel Sta. I.D.		Instructions										Sta. Designation								
Consec. Cast #	Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 126 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.	
017	55	56	30 N	156	20	86 W	05	MAY	92	06	32	01	5	-	05	11	38	30	01	6	5	82	23	2	G048C		
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface				Times JD/Time Data on at Surface 0624 Start Down 0625 at Bottom 0632 Start Up at Surface Data off				Data Location Tape/Diskette I.D. File Name/Header cool 017 C:\SD\017_05MAY\0621															
Press. SN 25084				Press. _____								Remarks FOX 155 w/o 59															
Temp. SN 701				Temp. _____																							
Cond. SN 303				Cond. _____																							
Other _____																											

Stn. No.	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	38 B	60	0627							60.121	3.877	29.758	31.779			31.7821	12		1
2	26	60								60.266	3.876	29.760	31.782					MS	2
3	21	50								50.422	3.953	29.813	31.774					Chl MS	3
4	28	40								40.297	4.050	29.883	31.767					Chl MS	4
5	28	30								30.802	4.103	29.904	31.746					Chl MS	5
6	6	20								20.492	4.277	30.035	31.736					Chl MS	6
7	20	10								10.007	4.280	30.033	31.737					Chl MS	7
8	27																		8
9	27																		9
10	20A																		10
11																			11
12																			12

Initials

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Consec. Cast # 018		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 199		Vessel Sta. I.D.		Instructions										Sta. Designation													
Consec. Cast #		Latitude N or S		Longitude E or W		Date JD = 126 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.		
018		55 56 86 N		156 26 07 W		05 MAY 92			07 18 01		11		-01		11		38		30		51		25		82		0205		G049A				
CTD Type & SN 91220-A SEABIRD		Monitor Checks on Deck at Surface								Times JD/Time Data on FOX at Surface 0710 Start Down 0711:30 at Bottom 0719 Start Up at Surface Data off				Data Location Tape/Diskette I.D. <u>cast 018</u> File Name/Header <u>Cast 018 - 05 May 0707</u> Remarks <u>FOX 156</u> <u>W/O 209</u>																			
Press. SN 25084		Temp. SN 701		Cond. SN 303		Press.		Temp.		Cond.		Other		Press.		Temp.		Cond.		Sal.		Therm-P		Avg Tw		Sal.		Sal. Bot. #		Other Samp.		Pos.	
1		26		196										196.161		5.065		31.466		32.540						32.5195		15		222		1	
2		21		150										150.241		4.726		30.919		32.263								221		2			
3		2		100										100.684		4.094		30.092		31.939								220		3			
4		28		75										75.000		3.952		29.902		31.868								219		4			
5		6		50										50.450		3.928		29.788		31.769								218		5			
6		20		30										30.341		4.203		29.961		31.717								217		6			
7		27		20										20.386		4.209		29.964		31.719								216		7			
8		22		10										9.679		4.196		29.946		31.717								215		8			
9		20A		10																										9			
10																														10			
11																														11			
12																														12			

Initials SM

Consec. Cast # 019		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 EOCI		Event # 200	Vessel Sta. I.D.		Instructions										Sta. Designation													
Consec. Cast #	Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 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.								
019	55	56	N	156	25	25	W	05	MAY	92	08	07	1	1	-	1	2	1	1	3	8	3	0	5	1	4	5	8	2	20	66	049B
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface				Times JD/Time Data on at Surface Start Down at Bottom Start Up at Surface Data off				Data Location Tape/Diskette I.D. File Name/Header 000 019 C:\019-05MAY\0750																				
Press. SN 25084				Press. _____				_____				Remarks FOX 156 w/o 60																				
Temp. SN 701				Temp. _____				_____																								
Cond. SN 303				Cond. _____				_____																								
_____				Other _____				_____																								
Pos.	Bot.	T Rack	Trip Depth	Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #	Other Samp.	Pos.													
1	26		60							60.643	3.829	29.754	31.820					M3	1													
2	21		50							50.039	3.846	29.733	31.785					Chl/mg	2													
3	2		40							39.929	4.171	29.977	31.761					Chl/mg	3													
4	28		30							29.944	4.281	30.017	31.742					Chl/mg	4													
5	6		20							19.844	4.287	30.040	31.733					Chl/mg	5													
6	20		10							9.826	4.271	30.021	31.731					Chl/mg	6													
7	27																		7													
8	22																		8													
9	20A																		9													
10																			10													
11																			11													
12																			12													

Initials HL  
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Consec. Cast # <b>020</b>		Vessel <b>MILLER FREEMAN</b>		Proj. & Leg <b>MF-92-05 FOCI</b>		Event # <b>202</b>		Vessel Sta. I.D.		Instructions										Sta. Designation <b>FOX 157</b> <b>G050A</b>															
Consec. Cast #		Latitude Deg. Min.		N or S		Longitude Deg.		E or W		Date JD = 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.	
020		555769		N		1563080		W		05 MAY 92		0858		11		-12		1138		305		10582		198		G050A									
CTD Type & SN <b>91220-A SEABIRD</b>		Monitor Checks on Deck at Surface										Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____										Data Location Tape/Diskette I.D. _____ File Name/Header <b>cast 020 - 05 May 0850</b>													
Press. SN <b>25084</b>		Press. _____										Remarks <b>FOX 157 chlor/mz</b>																							
Temp. SN <b>701</b>		Temp. _____																																	
Cond. SN <b>303</b>		Cond. _____																																	
Other _____		Other _____																																	

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		B	Bottom			191.828	5.299	31.893	32.801									1	
2			60			59.593	3.952	29.814	31.772								MZ	2	
3			50			50.735	4.206	29.989	31.736								chl/mz	3	
4			40			40.460	4.272	30.016	31.710								chl/mz	4	
5			30			30.788	4.259	29.999	31.707								chl/mz	5	
6			20			20.642	4.258	29.995	31.708								chl/mz	6	
7			10			10.485	4.253	29.986	31.708								chl/mz	7	
8																		8	
9																		9	
10		B	181	0859	0904	181.206	5.289	31.864	32.783							32.7730	34 sal	10	
11																		11	
12																		12	

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Consec. Cast #		Vessel		Proj. & Leg		Event #		Vessel Sta. I.D.		Instructions										Sta. Designation					
Consec. Cast #		Latitude		Longitude		Date		Time		Dry Bulb		Wet Bulb		Bar. mb		Wind Dir.		Wind Sp.		Cloud Type		Bottom Depth, m		Sta. Name or I.D.	
		Deg. Min. S		Deg. E or W		Day Mo. Yr.		Hr. Min.																	
021		555798 N		1563754 W		05 MAY 92		1009		11		-11		11		38		30510		582		1966051A			
CTD Type & SN		91220-A SEABIRD		Monitor Checks				Times				Data Location													
Press. SN		25084		on Deck				Data on				Tape/Diskette I.D.													
Temp. SN		701		at Surface				at Surface				File Name/Header													
Cond. SN		303		Press.				Start Down				Cast 021-05/may 955													
				Temp.				at Bottom																	
				Cond.				Start Up				Remarks													
				Other				at Surface				FOX 158													
								Data off				chla/mz													
Pos.		Bot. Rack		Trip Depth		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				10						9.798 4.316 30.021 31.689										MZ/chl		1			
2				20						19.763 4.320 30.028 31.688										MZ/chl		2			
3				30						30.121 3.980 29.802 31.746										MZ/chl		3			
4				40						39.886 3.992 29.840 31.773										MZ/chl		4			
5				50						49.928 4.020 29.882 31.791										MZ/chl		5			
6				60						60.933 4.067 29.950 31.819										MZ		6			
7																						7			
8				183						183.424 4.614 30.964 32.408				32.4022				29		sol		8			
9																						9			
10																						10			
11																						11			
12																						12			

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Consec. Cast # 022		Vessel MILLER FREEMAN		Proj. & Leg ME-92-05 FOCI		Event # 209		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 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.	
022		561801 N			1564776 W			05 MAY 92			1243		60		-10		1238		315		10482		108		60524									
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom 1243 Start Up _____ at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header cast022-05 May 1234 Remarks Fox 147 chl or n2 w/ 100																		
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						10				10.474 4.066 29.774 31.640										MZ/CHL		1												
2						20				20.433 3.857 29.636 31.675										MZ/CHL		2												
3				sal sample		30				30.791 3.714 29.549 31.702				31.7100				27		27		3												
4						30				30.754 3.707 29.542 31.703										MZ/CHL		4												
5						40				40.566 3.599 29.470 31.718										MZ/CHL		5												
6						50				50.555 3.516 29.414 31.728										MZ/CHL		6												
7						60				60.475 3.364 29.304 31.740										MZ		7												
8																								8										
9																								9										
10																								10										
11																								11										
12																								12										

Initials LL

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21  
29 or 21?

Consec. Cast # 023		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event#		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 124 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.	
023		5621 50 N			15651 96 W			05 MAY 92			1333		-07		-22		12		38		300		12		36		135		6053A					
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header ca 023-05 May 1992																		
Press. SN 25084				Press. _____												Remarks NUTS 60148 60/129																		
Temp. SN 701				Temp. _____																														
Cond. SN 303				Cond. _____																														
Other _____				Other _____																														
St. Bot.		T Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #		Other Samp.		Pos.											
1		B		Bottom		33'50						125.558 3.040 29.075 31.748							31.7496 14				1											
2				100								100.458 3.040 29.064 31.748									228		2											
3				15								75.548 3.127 29.116 31.739									227		3											
4				50								50.700 3.306 29.246 31.732									226		4											
5				30								30.869 3.992 29.762 31.686									225		5											
6				20								20.929 4.008 29.769 31.685									224		6											
7				10								10.785 4.001 29.760 31.686									223		7											
8																							8											
9																							9											
10																							10											
11																							11											
12																							12											

Initials ll

Consec. Cast # 024		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event #		Vessel Sta. I.D.		Instructions										Sta. Designation									
Consec. Cast #	Latitude		N or S	Longitude		E or W	Date JD = 126			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.																		
024	5	6	21	34	N	156	52	11	W	05	MAY	9	2	14	12	-	05	-	22	1	23	83	00	08	3	6	1	29	6053B
CTD Type & SN 91220-A SEABIRD				Monitor Checks				Times JD/Time				Data Location																	
Press. SN 25084				on Deck				Data on				Tape/Diskette I.D.																	
Temp. SN 701				at Surface				at Surface				File Name/Header																	
Cond. SN 303				Press. _____				Start Down				_____																	
				Temp. _____				at Bottom 1412				_____																	
				Cond. _____				Start Up				Remarks chlor/mz																	
				Other _____				at Surface				Fax 148																	
								Data off				w/058																	
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			10							9.881	4.033	29.785	31.684				MZ/CHL	1											
2			20							19.682	4.026	29.783	31.685				MZ/CHL	2											
3			30							29.839	4.013	29.778	31.685				MZ/CHL	3											
4			40							40.047	3.985	29.759	31.686				MZ/CHL	4											
5			50							50.165	3.635	29.504	31.719				MZ/CHL	5											
6			60							60.780	3.408	29.332	31.730				MZ	6											
7																		7											
8																		8											
9																		9											
10																		10											
11																		11											
12																		12											

Initials LL





Consec. Cast # <u>025</u>		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # <u>012</u>		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 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.	
025		562402N			1545512W			05 MAY 92			1453		-10		-25		120		08		205		12		261		123		9054A					
CTD Type & SN <u>91220-A SEABIRD</u>				Monitor Checks on Deck at Surface				Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header <u>Cont 025-05 May 1445</u> Remarks <u>FOX 149</u> <u>NUTS</u> <u>40117</u>																						
Pos.		Bot. Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #		Other Samp.		Pos.											
1				100								100.491 3.039 29.067 31.753									234		1											
2				75								75.623 3.078 29.077 31.740									233		2											
3				50								50.999 3.533 29.427 31.726									232		3											
4				30								30.055 4.013 29.765 31.670									231		4											
5				20								19.904 4.026 29.751 31.642									230		5											
6				10								10.059 4.002 29.720 31.639									229		6											
7																							7											
8																							8											
9																							9											
10																							10											
11																							11											
12																							12											

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Consec. Cast #		Vessel		Proj. & Leg		Event #		Vessel Sta. I.D.		Instructions										Sta. Designation														
026		MILLER FREEMAN		MF-92-05 FOCI		213																												
Consec. Cast #		Latitude			Longitude			Date JD =			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. S			Deg. E or W			Day Mo. Yr.			Hr. Min.																							
026		562404 N			1565530 W			05 MAY 92			1517		-10		-25		1238		300		1236		1		1249054B									
CTD Type & SN				91220-A SEABIRD				Monitor Checks				Times JD/Time				Data Location																		
Press. SN				25084				on Deck				Data on				Tape/Diskette I.D.																		
Temp. SN				701				at Surface				at Surface				File Name/Header																		
Cond. SN				303				Press.				Start Down				Cant 026-05 May 1512																		
				Temp.				at Bottom				Remarks																						
				Cond.				Start Up				chlor/mg Fox 149																						
				Other				Data off																										
Pos.		Bot. Rack		Trip Depth		Time @		Monitor Values				Conv. Mon. Values-CTD				Sample Bot. Data				Sal. Bot. #		Other Samp.		Pos.										
				Depth		Depth Trip		Press.		Temp.		Cond.		Other		Press.		Temp.		Cond.		Sal.		Therm-P		Avg Tw		Sal.						
1				10																												1		
2				10												10.118		3.983		29.699		31.632								MZ/CHL 2				
3				20												19.898		3.996		29.714		31.632								MZ/CHL 3				
4				30												30.077		4.000		29.729		31.640								MZ/CHL 4				
5				40												40.040		3.944		29.701		31.657								MZ/CHL 5				
6				50												49.799		3.932		29.711		31.675								MZ/CHL 6				
7				60												60.490		3.626		29.499		31.716								MZ 7				
8		T		60		19:18										60.419		3.630		29.052		31.716				31.7156		24		8				
9																														9				
10																														10				
11																														11				
12																														12				

Initials LL

Consec. Cast # 027		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event# 217		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 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.	
027		562660 N			1565939 W			05 MAY 92			1601		15		-10		13		28		320		12		361		97		60554					
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom 1601 Start Up _____ at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header cast027-05 May 1992 Remarks 05 Seacat cal (Seacat on rosette) chl/mz Fox 150 w/o 93																		
Bot.		T Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		Pos										
1				10								9.644 3.867 29.636 31.669								31.6687 25				1										
2				10								9.626 3.868 29.636 31.668										MZ/CHL		2										
3				20								19.713 3.846 29.620 31.672										MZ/CHL		3										
4				30								29.865 3.844 29.628 31.672										MZ/CHL		4										
5				40								39.763 3.846 29.634 31.672										40m MZ sample lost due to faulty Niskin bottle		CHL		5								
6				50								49.674 3.846 29.642 31.677										MZ/CHL		6										
7				60								59.353 3.838 29.644 31.682										MZ		7										
8																								8										
9																								9										
10																								10										
11																								11										
12																								12										

Initials LL

Consec. Cast # <b>028</b>		Vessel <b>MILLER FREEMAN</b>		Proj. & Leg <b>MF-92-05 FOCI</b>		Event# <b>453</b>		Vessel Sta. I.D.		Instructions										Sta. Designation					
Consec. Cast #	Latitude			N or S	Longitude			E or W	Date JD = <b>131</b>			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.
	Deg.	Min.			Deg.		Day		Mo.	Yr.	Hr.	Min.													
<b>028</b>	<b>5</b>	<b>6</b>	<b>52</b>	<b>11</b>	<b>N</b>	<b>156</b>	<b>24</b>	<b>56</b>	<b>W</b>	<b>10</b>	<b>MAY</b>	<b>92</b>	<b>13</b>	<b>27</b>	<b>18</b>	<b>00</b>	<b>28</b>	<b>48</b>	<b>330</b>	<b>18</b>	<b>58</b>	<b>1</b>	<b>155</b>	<b>6140A</b>	
CTD Type & SN <b>91220-A SEABIRD</b>				Monitor Checks				Times JD/Time				Data Location													
Press. SN <b>25084</b>				on Deck				Data on _____				Tape/Diskette I.D. _____													
Temp. SN <b>701</b>				at Surface				at Surface _____				File Name/Header <b>cast 028 - 10 May 1315</b>													
Cond. SN <b>303</b>				Press. _____				Start Down _____				_____													
_____				Temp. _____				at Bottom _____				_____													
_____				Cond. _____				Start Up _____				Remarks <b>CTD was used to monitor depth for Calvet tow. Data again was started at 10m, as usual, but CTD was not brought back to surface, as this would interfere w/ Cal Vet tow. Fluorometer was not warmed up. This cast shouldn't go on data base.</b>													
_____				Other _____				Data off _____				_____													

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																		1	
2																		2	
3																		3	
4																		4	
5																		5	
6																		6	
7																		7	
8																		8	
9																		9	
10																		10	
11																		11	
12																		12	

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Consec. Cast # <u>029</u>		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 454		Vessel Sta. I.D.		Instructions										Sta. Designation										
Consec. Cast #		Latitude Deg. Min. N or S		Longitude Deg. E or W		Date JD = 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.	
029		565250 N		1562476 W		10 MAY 92			1355		18		00		28		48		330		17		58		1		1546140		B	
CTD Type & SN 91220-A SEABIRD		Monitor Checks on Deck at Surface				Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header <u>Cast 029-10 May 1993</u>																				
Press. SN 25084		Press. _____				Start Down _____				Remarks <u>chl/mz</u> One bottle leaked, one didn't trip. Repeating cast to 60m to get chl/mz samples. 14640																				
Temp. SN 701		Temp. _____				Start Up _____																								
Cond. SN 303		Cond. _____				Data off _____																								
Other _____		Other _____																												
SOS		Bot. Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #		Other Samp.		SOS							
1				10								10.181 4.314 29.947 31.603											1							
2				20								20.147 4.315 29.951 31.602											2							
3				30								29.749 4.188 29.863 31.616											3							
4				40								39.793 4.184 29.869 31.622											4							
5				50								50.558 4.197 29.893 31.633											5							
6				60								60.463 4.178 29.881 31.632											6							
7		B		55.00								136.608 4.014 29.944 31.826									16 sal		7							
8																							8							
9																							9							
10																							10							
11																							11							
12																							12							

Initials LAL

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Consec. Cast # <u>030</u>		Vessel <u>MILLER FREEMAN</u>		Proj. & Leg <u>ME-92-05 FOCI</u>		Event # <u>455</u>		Vessel Sta. I.D.		Instructions										Sta. Designation																																
Consec. Cast #	Latitude			N or S	Longitude			E or W	Date JD = <u>131</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.																																								
0	3	0	5	6	5	2	7	1	N	1	5	6	2	4	6	9	W	1	0	M	A	Y	9	2	1	4	3	4	2	0	0	2	2	8	4	8	3	3	0	1	8	5	8	1	1	5	1	6	1	4	0	6
CTD Type & SN <u>91220-A SEABIRD</u>				Monitor Checks				Times JD/Time				Data Location																																								
Press. SN <u>25084</u>				on Deck				Data on _____				Tape/Diskette I.D.				File Name/Header																																				
Temp. SN <u>701</u>				at Surface				at Surface _____				Start Down _____				_____																																				
Cond. SN <u>303</u>				Press. _____				at Bottom _____				_____				_____																																				
_____				Temp. _____				Start Up _____				Remarks				_____																																				
_____				Cond. _____				at Surface _____				_____				_____																																				
_____				Other _____				Data off _____				_____				_____																																				

  

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			10							10.447	4.327	29.959	31.605					1	
2			20							19.308	4.331	29.966	31.605					2	
3			30							29.223	4.331	29.970	31.605					3	
4			40							39.621	4.308	29.957	31.606					4	
5			50							49.981	4.222	29.909	31.627					5	
6			60							60.358	4.074	29.782	31.616					6	
7																		7	
8																		8	
9																		9	
10																		10	
11																		11	
12																		12	

Initials KAL

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2350

Consec. Cast # 031		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 456		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 131 Day Mo. Yr.			Time GMT Hr. Min.		Dry Bulb		Wet Bulb		Bar. mb		SS		Vis		Wind Dir.		Wind Sp.		Cloud Type		Weath.		Bottom Depth, m		Sta. Name or I.D.	
031		565216 N			1562163 W			10 MAY 92			1515		20		08		2848		210		20581		176		4141A									
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on _____ at Surface _____ Start Down _____ at Bottom _____ Start Up _____ at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header C031-10 May 1504																		
Press. SN 25084				Press. _____												Remarks chl/mg w/o 168																		
Temp. SN 701				Temp. _____																														
Cond. SN 303				Cond. _____																														
				Other _____																														
St. No.		T Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		Pos.										
1				10								9.793 4.317 29.955 31.610										Sal		1										
2				10								9.647 4.306 29.945 31.609												2										
3				20								26.099 4.209 29.885 31.626												3										
4				30								30.207 4.189 29.876 31.631												4										
5				40								40.444 4.159 29.861 31.636												5										
6				50								50.199 4.550 30.245 31.703												6										
7				60								60.072 4.681 30.385 31.735												7										
8																								8										
9																								9										
10																								10										
11																								11										
12																								12										

Initials LAL



1500

Consec. Cast # 032		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 459		Vessel Sta. I.D.		Instructions										Sta. Designation								
Consec. Cast #	Latitude			N or S	Longitude			E or W	Date JD =			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.			
	Deg.	Min.			Deg.		Day		Mo.	Yr.	Hr.	Min.																
032	5	6	49	91	N	15	6	21	57	W	10	MAY	92	17	56	1	9	0	3	30	48	2	90	27	58	1	190	G142A
CTD Type & SN 91220-A SEABIRD				Monitor Checks										Times JD/Time				Data Location										
Press. SN 25084				on Deck										Data on				Tape/Diskette I.D.										
Temp. SN 701				at Surface										at Surface				File Name/Header										
Cond. SN 303				Press. _____										Start Down				_____										
				Temp. _____										at Bottom				_____										
				Cond. _____										Start Up				_____										
				Other _____										at Surface				Remarks chl/mz										
														Data off				w/o 186										

  

Stn. No.	Bot.	T Rack	Trip Depth	Time @		Monitor Values				Conv. Mon. Values-CTD				Sample Bot. Data			Sal. Bot. #	Other Samp.	Pos. No.
				Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.			
1			B							185.814	4.462	30.654	32.175				sal	1	
2			60							60.318	4.559	30.958	31.821					2	
3			50							50.623	4.771	30.438	31.715					3	
4			40							40.612	4.776	30.440	31.716					4	
5			30							30.643	4.777	30.435	31.715					5	
6			20							20.515	4.759	30.413	31.712					6	
7			10							10.720	4.752	30.403	31.712					7	
8																		8	
9																		9	
10																		10	
11																		11	
12																		12	

Initials LAL  
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Consec. Cast # <u>033</u>		Vessel <u>MILLER FREEMAN</u>		Proj. & Leg <u>MF-92-05 FOCI</u>		Event # <u>460</u>		Vessel Sta. I.D.		Instructions										Sta. Designation					
Consec. Cast #	Latitude			N or S	Longitude			E or W	Date JD = <u>131</u>			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.
	Deg.	Min.			Deg.		Day		Mo.	Yr.	Hr.	Min.													
033	56	49	87	N	156	25	89	W	10	MAY	92	18	43	022	004	30	48	27	51	2	58	10	150	G1143A	
CTD Type & SN <u>91220-A SEABIRD</u>				Monitor Checks								Times JD/Time				Data Location									
Press. SN <u>25084</u>				on Deck								Data on				Tape/Diskette I.D.									
Temp. SN <u>701</u>				at Surface								at Surface				File Name/Header									
Cond. SN <u>303</u>				Press. _____								Start Down				_____									
				Temp. _____								at Bottom				_____									
				Cond. _____								Start Up				_____									
				Other _____								at Surface				_____									
												Data off				Remarks									
St. 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		B	Bottom	44:25						125.567	3.957	29.894	31.828				22	Sal	1						
2			60							60.508	4.431	30.172	31.729						2						
3			50							50.963	4.614	30.304	31.710						3						
4			40							39.734	4.640	30.274	31.656						4						
5			30							29.685	4.622	30.246	31.646						5						
6			20							19.645	4.620	30.241	31.647						6						
7			10							9.797	4.583	30.202	31.642						7						
8																			8						
9																			9						
10																			10						
11																			11						
12																			12						

Initials LAL  
✓

17:30

Pg. 34 of

Consec. Cast # 834		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 461		Vessel Sta. I.D.		Instructions										Sta. Designation												
Consec. Cast #		Latitude N or S		Longitude E or W		Date JD = 131			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.	
634		565056 N		1562475 W		10 MAY 92			192702		300		530		48		28		520		581		0158		4144		A					
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface				Times JD/Time Data on at Surface Start Down at Bottom Start Up at Surface Data off				Data Location Tape/Diskette I.D. File Name/Header cast034_10May1919																				
Press. SN 25084				Press. _____				_____				Remarks Lost power on the way up; program bombed at ~65 m. Went ahead to take water samples, indy gey w/o 155																				
Temp. SN 701				Temp. _____				_____																								
Cond. SN 303				Cond. _____				_____																								
Other _____				Other _____				_____																								
g. Bot.		T Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		Pos.								
1				60																				1								
2		✓		60																				2								
3		✓		50																				3								
4		✓		40																				4								
5		✓		30																				5								
6		✓		20																				6								
7				10																				7								
8																								8								
9																								9								
10																								10								
11																								11								
12																								12								

→ depth  
from wire  
out  
batteries  
didn't  
trip

Initials LAL

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Consec. Cast # 035		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event# 462		Vessel Sta. I.D.		Instructions <i>repeat memory station for water only</i>										Sta. Designation			
Consec. Cast #	Latitude		N or S	Longitude		E or W	Date JD =			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.
	Deg.	Min.		Deg.			Day	Mo.	Yr.	Hr.	Min.												
035	56	50	N	156	24	75	W	10	MAY	92	19	30	03	20	10	30	48	250	10	68	10	160	G144B
CTD Type & SN 91220-A SEABIRD			Monitor Checks								Times JD/Time				Data Location								
Press. SN 25084			on Deck				at Surface				Data on				Tape/Diskette I.D.		File Name/Header						
Temp. SN 701			Press. _____				_____				at Surface _____				no data		no data						
Cond. SN 303			Temp. _____				_____				Start Down _____				_____		_____						
_____			Cond. _____				_____				at Bottom _____				_____		_____						
_____			Other _____				_____				Start Up _____				_____		_____						
_____			_____				_____				at Surface _____				_____		_____						
_____			_____				_____				Data off _____				_____		_____						
Remarks			For water samples only w/59 tripped by wire-out depth																				
St. #	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	21		60														MZ	1					
2	6		58														MZ/CHL	2					
3	26		40														MZ/CHL	3					
4	2		30														MZ/CHL	4					
5	20		20														MZ/CHL	5					
6	27		10														MZ/CHL	6					
7																		7					
8																		8					
9																		9					
10																		10					
11																		11					
12																		12					

Initials SKM

Consec. Cast # 036		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 517		Vessel Sta. I.D.		Instructions										Sta. Designation															
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 132 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.				
036		562185 N			1565567 W			11 MAY 92			2017		068		049		3438		235		066		11		137		6162A								
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on 201230 at Surface Start Down 2013 at Bottom 201735 Start Up at Surface Data off				Data Location Tape/Diskette I.D. File Name/Header C036 Cast 036-11 May 2012 Remarks SeaCat on Rosette																			
CTD Type & SN		Press. SN		Temp. SN		Cond. SN		Press.		Temp.		Cond.		Other		Press.		Temp.		Cond.		Sal.		Therm-P		Avg Tw		Sal.		Sal. Bot. #		Other Samp.		Pos.	
91220-A		25084		701		303										120.517		3.189		29.191		31.744								30		1			
2		21		60												59.945		3.486		29.382		31.714								M2		2			
3		6		50												49.676		3.599		29.465		31.707								M2		3			
4		26		40												39.449		3.671		29.515		31.702								M2		4			
5		2		30												29.717		3.877		29.671		31.691								M2		5			
6		20		20												19.605		3.923		29.702		31.688								M2		6			
7		27		10												9.317		3.949		29.718		31.687								M2		7			
8																																8			
9																																9			
10																																10			
11																																11			
12																																12			

Initials SSM



Consec. Cast # 037		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 EOCI		Event # 520		Vessel Sta. I.D.		Instructions										Sta. Designation																
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 132 Day Mo. Yr.			Time GMT Hr. Min.		Dry Bulb		Wet Bulb		Bar. mb		SS		Vis.		Wind Dir.		Wind Sp.		Cloud		Type		Weath.		Bottom Depth, m		Sta. Name or I.D.	
037		56 18 88 N			157 01 11 W			11 MAY 92			21 17		06 8		04 9		34		38		19		51		46		11		12		16		3A			
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on at Surface 2113:30 Start Down at Bottom 2117:42 Start Up at Surface Data off				Data Location Tape/Diskette I.D. File Name/Header																				
Press. SN 25084				Press. _____								_____				_____				_____				_____				_____				_____				
Temp. SN 701				Temp. _____								_____				_____				_____				_____				_____				_____				
Cond. SN 303				Cond. _____								_____				_____				_____				_____				_____				_____				
_____				Other _____								_____				_____				_____				_____				_____				_____				
Remarks SeaCat on Ruxette				w/0115																																

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	56		B							60.546	3.431	29.340	31.717				5		1
2	21		60							60.588	3.436	29.343	31.716						2
3	6		50							50.124	3.456	29.355	31.715					chl	3
4	26		40							40.108	3.508	29.389	31.710					chl	4
5	2		30							30.311	3.646	29.491	31.702					chl	5
6	20		20							19.971	3.806	29.608	31.690					chl	6
7	27		10							10.048	3.916	29.609	31.684					chl	7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials 804



Consec. Cast # 038			Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 522		Vessel Sta. I.D.		Instructions										Sta. Designation													
Consec. Cast #		Latitude Deg. Min. N or S			Longitude Deg. E or W			Date JD = 132 Day Mo. Yr.			Time GMT Hr. Min.		Dry Bulb		Wet Bulb		Bar. mb		SS		Vis.		Wind Dir.		Wind Sp.		Cloud Type		Weath.		Bottom Depth, m		Sta. Name or I.D.	
038		561594 N			1570640 W			11 MAY 92			2205		059		035		34		38		195		14		61		10		104		G164A			
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on at Surface 220200 Start Down at Bottom 220535 Start Up at Surface Data off				Data Location Tape/Diskette I.D. File Name/Header 038 038-11 MAY 2158																		
Press. SN 25084				Press. _____								_____				Remarks																		
Temp. SN 701				Temp. _____								_____				w/o 100																		
Cond. SN 303				Cond. _____								_____																						
Other _____				Other _____								_____																						

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	38	B	B-f	2206:15						91.044	3.266	29.252	31.757				8		1
2	21	60	60							40.290	3.580	29.396	31.716					Mr	2
3	6		50							49.861	3.532	29.416	31.714					cll me	3
4	26		40							40.029	3.639	29.496	31.710					cll me	4
5	2		30							30.230	3.683	29.524	31.706					cll me	5
6	20		20							20.119	3.702	29.534	31.704					cll me	6
7	27		10							10.110	3.815	29.620	31.702					cll me	7
8																		cll me	8
9																			9
10																			10
11																			11
12																			12

Initials SAH

Consec. Cast # 039		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 524		Vessel Sta. I.D.		Instructions										Sta. Designation					
Consec. Cast #	Latitude			N or S	Longitude			E or W	Date JD = 132			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.													
039	56	18	07	N	157	10	14	W	11	MAY	92	22	51	05	9	03	5	34	38	19	51	46	11	156	G165A
CTD Type & SN 91220-A SEABIRD				Monitor Checks								Times JD/Time				Data Location									
Press. SN 25084				on Deck				at Surface				Data on				Tape/Diskette I.D.				File Name/Header					
Temp. SN 701				Press. _____				_____				at Surface 224600				cast 039				C_039-11May2242					
Cond. SN 303				Temp. _____				_____				Start Down 224610				_____				_____					
_____				Cond. _____				_____				at Bottom 225117				_____				_____					
_____				Other _____				_____				Start Up 225125				Remarks lost power at bottom				_____					
_____				_____				_____				at Surface 225740				no salinity sample taken				u/o					
_____				_____				_____				Data off _____				_____				_____					
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	5		But															1							
2	21		50															2							
3	6		40															3							
4	26		30															4							
5	2		20															5							
6	20		10															6							
7	27		10															7							
8																		8							
9																		9							
10																		10							
11																		11							
12																		12							

Initials SAW

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Consec. Cast # 040		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 527		Vessel Sta. I.D.		Instructions										Sta. Designation					
Consec. Cast #	Latitude		N or S	Longitude		E or W	Date JD = 133			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.															
040	56	21	N	157	05	45	W	12	MAY	92	00	20	05	16	03	23	33	38	200	14	61	11	16	16	64
CTD Type & SN 91220-A SEABIRD		Monitor Checks				Times JD/Time				Data Location															
Press. SN 25084		on Deck				Data on				Tape/Diskette I.D.															
Temp. SN 701		at Surface				at Surface				File Name/Header															
Cond. SN 303		Press. _____				Start Down 001535				_____															
_____		Temp. _____				at Bottom _____				_____															
_____		Cond. _____				Start Up _____				Remarks cable re-terminated before cost															
_____		Other _____				Data off _____				w/0152															
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	28	B	Bot	0021	0026					152.784	3.068	29.107	31.745				11		1						
2	21		60							59.726	3.780	29.543	31.697					M3	2						
3	6		50							58.520	3.863	29.657	31.678					ms/cbl	3						
4	26		40							40.629	3.862	29.652	31.677					ms/cbl	4						
5	2		30							30.311	3.871	29.655	31.678					ms/cbl	5						
6	80		20							20.376	3.882	29.659	31.678					ms/cbl	6						
7	28		10							10.353	4.055	29.797	31.677					ms/cbl	7						
8																			8						
9																			9						
10																			10						
11																			11						
12																			12						

Initials SAM





Consec. Cast # 041		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 528		Vessel Sta. I.D.		Instructions										Sta. Designation						
Consec. Cast #	Latitude			N or S	Longitude			E or W	Date JD = 133			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.	S		Deg.		Day		Mo.	Yr.	Hr.	Min.														
041	56	23	85	N	156	59	87	W	12	MAY	92	01	19	07	0	05	03	3	38	20	5	14	6	11	160	G167A
CTD Type & SN 91220-A SEABIRD				Monitor Checks				Times JD/Time				Data Location														
Press. SN 25084				on Deck				Data on				Tape/Diskette I.D.				File Name/Header										
Temp. SN 701				at Surface				at Surface 011340				C-041				CAS-041-BM13112										
Cond. SN 303				Press. _____				Start Down _____				_____				_____										
_____				Temp. _____				at Bottom _____				_____				_____										
_____				Cond. _____				Start Up _____				_____				Remarks										
_____				Other _____				at Surface _____				_____				W/S 150										
_____				Data off _____				_____				_____				_____										

  

St. No.	Bot. Rack	T	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	5		Bot							151.604	3.123	29.154	31.750				7		1
2	21		50							49.728	3.880	29.672	31.679					chl	2
3	6		40							39.760	3.893	29.678	31.679					chl	3
4	26		30							29.728	3.904	29.683	31.679					chl	4
5	2		20							19.578	4.031	29.781	31.677					chl	5
6	20		10							9.627	4.121	29.851	31.677					chl	6
7	27																		7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials STM  
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Consec. Cast # 042		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 529		Vessel Sta. I.D.		Instructions										Sta. Designation									
Consec. Cast #		Latitude N or S		Longitude E or W		Date JD = 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.	
042		56 25 90 N		157 03 08 W		12 MAY 92		01 59		05 8		04 0		32 48		21 02 37 11								80		G168A			
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface				Times JD/Time Data on at Surface Start Down at Bottom Start Up at Surface Data off				Data Location Tape/Diskette I.D. File Name/Header Remarks																	
Press. SN 25084				Press. _____				Data on 015645				Tape/Diskette I.D. Cast 042																	
Temp. SN 701				Temp. _____				Start Down 015650				File Name/Header 002 042-12 MAY 92 0153																	
Cond. SN 303				Cond. _____				at Bottom 015930																					
				Other _____				Start Up 015940																					
								at Surface _____																					
								Data off _____				w/o 74																	

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	38	B		0201	0206					60.144	3.867	29.657	31.669				6		1
2	21		60							60.259	3.864	29.655	31.670					M3	2
3	6		50							50.152	3.883	29.664	31.667					M3 cal	3
4	26		40							40.241	3.919	29.687	31.665					M3 cal	4
5	2		30							29.725	3.938	29.698	31.664					M3 cal	5
6	20		20							20.588	4.019	29.761	31.665					M3 cal	6
7	27		10							9.525	4.083	29.808	31.664					M3 cal	7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials SSM  
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Consec. Cast # 043			Vessel MILLER FREEMAN			Proj. & Leg MF-92-05 FOCI			Event# 531			Vessel Sta. I.D.			Instructions										Sta. Designation							
Consec. Cast #		Latitude N or S Deg. Min.			Longitude E or W Deg.			Date JD = 133 Day Mo. Yr.			Time GMT Hr. Min.		Dry Bulb		Wet Bulb		Bar. mb		SS Vis.		Wind Dir.		Wind Sp.		Cloud Type		Weath.		Bottom Depth, m		Sta. Name or I.D.	
043		56 23 18 N			157 08 99 W			12 MAY 92			02 53		04 50		3 1		3 2		4 8		2 10		20 7		21		116 7		616 9A			
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on _____ at Surface 024800 Start Down 024810 at Bottom 025330 Start Up 025420 at Surface _____ Data off _____				Data Location Tape/Diskette I.D. _____ File Name/Header 043-12 MAY 0244 Remarks 4/0159																
Pos		Bot. Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #		Other Samp.		Pos									
1	5		100										100.222	3.208	29.188	31.732								1								
2	21		50										50.344	3.855	29.646	31.672					18	chl		2								
3	6		40										39.504	3.856	29.641	31.672						chl		3								
4	24		30										30.469	3.861	29.642	31.672						chl		4								
5	2		20										20.758	3.954	29.713	31.672						chl		5								
6	20		10										10.560	4.038	29.778	31.672						chl		6								
7	27																							7								
8																								8								
9																								9								
10																								10								
11																								11								
12																								12								

Initials SPM  
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Consec. Cast # <u>044</u>				Vessel <u>MILLER FREEMAN</u>				Proj. & Leg <u>MF-92-05 FOCI</u>				Event# <u>533</u>		Vessel Sta. I.D.				Instructions								Sta. Designation																																																																																																																																																																																																																																																																																						
Consec. Cast #		Latitude Deg. Min.		N or S		Longitude Deg. Min.		E or W		Date JD = Day Mo. Yr. <u>133</u>			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>144</u>		<u>5620</u>		<u>46</u>		<u>N</u>		<u>15713</u>		<u>91</u>		<u>W</u>			<u>12</u>			<u>MAY</u>			<u>92</u>			<u>0403</u>		<u>052</u>		<u>03</u>		<u>931</u>		<u>48200</u>		<u>20721</u>		<u>16761704</u>																																																																																																																																																																																																																																																																												
CTD Type & SN <u>91220-A SEABIRD</u>				Press. SN <u>25084</u>				Temp. SN <u>701</u>				Cond. SN <u>303</u>				<div style="display: flex; justify-content: space-between;"> <div> <b>Monitor Checks</b>  on Deck                      at Surface  Press. _____  Temp. _____  Cond. _____  Other _____ </div> <div> <b>Times JD/Time</b>  Data on _____  at Surface <u>0400</u>  Start Down _____  at Bottom _____  Start Up _____  at Surface _____  Data off _____ </div> <div> <b>Data Location</b>  Tape/Diskette I.D. _____  File Name/Header <u>CG 044-12 May 92</u>  <u>(alvin. delia)</u>  Remarks <u>no power</u> </div> </div>																																																																																																																																																																																																																																																																																																
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">Pos</th> <th rowspan="2">Bot.</th> <th rowspan="2">T Rack</th> <th rowspan="2">Trip Depth</th> <th colspan="2">Time @</th> <th colspan="4">Monitor Values</th> <th colspan="4">Conv. Mon. Values-CTD</th> <th colspan="3">Sample Bot. Data</th> <th rowspan="2">Sal. Bot. #</th> <th rowspan="2">Other Samp.</th> <th rowspan="2">Pos</th> </tr> <tr> <th>Depth</th> <th>Trip</th> <th>Press.</th> <th>Temp.</th> <th>Cond.</th> <th>Other</th> <th>Press.</th> <th>Temp.</th> <th>Cond.</th> <th>Sal.</th> <th>Therm-P</th> <th>Avg Tw</th> <th>Sal.</th> </tr> </thead> <tbody> <tr> <td><u>1</u></td> <td><u>98</u></td> <td><u>B</u></td> <td><u>20</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>01</u></td> <td></td> <td><u>1</u></td> </tr> <tr> <td><u>2</u></td> <td><u>21</u></td> <td></td> <td><u>60</u></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>M3</u></td> <td><u>2</u></td> </tr> <tr> <td><u>3</u></td> <td><u>6</u></td> <td></td> <td><u>50</u></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>M3</u></td> <td><u>3</u></td> </tr> <tr> <td><u>4</u></td> <td><u>24</u></td> <td></td> <td><u>40</u></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>M3</u></td> <td><u>4</u></td> </tr> <tr> <td><u>5</u></td> <td><u>2</u></td> <td></td> <td><u>30</u></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>M3</u></td> <td><u>5</u></td> </tr> <tr> <td><u>6</u></td> <td><u>20</u></td> <td></td> <td><u>20</u></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>M3</u></td> <td><u>6</u></td> </tr> <tr> <td><u>7</u></td> <td><u>27</u></td> <td></td> <td><u>10</u></td> <td></td> <td>✓</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td><u>M3</u></td> <td><u>7</u></td> </tr> <tr><td><u>8</u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u>8</u></td></tr> <tr><td><u>9</u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u>9</u></td></tr> <tr><td><u>10</u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u>10</u></td></tr> <tr><td><u>11</u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u>11</u></td></tr> <tr><td><u>12</u></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td><u>12</u></td></tr> </tbody> </table>																				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.	<u>1</u>	<u>98</u>	<u>B</u>	<u>20</u>															<u>01</u>		<u>1</u>	<u>2</u>	<u>21</u>		<u>60</u>		✓														<u>M3</u>	<u>2</u>	<u>3</u>	<u>6</u>		<u>50</u>		✓														<u>M3</u>	<u>3</u>	<u>4</u>	<u>24</u>		<u>40</u>		✓														<u>M3</u>	<u>4</u>	<u>5</u>	<u>2</u>		<u>30</u>		✓														<u>M3</u>	<u>5</u>	<u>6</u>	<u>20</u>		<u>20</u>		✓														<u>M3</u>	<u>6</u>	<u>7</u>	<u>27</u>		<u>10</u>		✓														<u>M3</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>
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Initials SAW  
✓

Consec. Cast # <u>045</u>			Vessel <u>MILLER FREEMAN</u>			Proj. & Leg <u>ME-92-05 FOCI</u>			Event# <u>585</u>			Vessel Sta. I.D.			Instructions					Sta. Designation							
Consec. Cast #		Latitude Deg. Min.		N or S	Longitude Deg.		E or W	Date JD = <u>134</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.	
045		565000		N	1562585		W	13 MAY 92			0331		080		070		25	37	23	51	56	21	150		C177A		
CTD Type & SN <u>91220-A SEABIRD</u>					Monitor Checks on Deck at Surface					Times JD/Time Data on _____ at Surface <u>0319</u> Start Down <u>031940</u> at Bottom _____ Start Up _____ at Surface _____ Data off _____					Data Location Tape/Diskette I.D. _____ File Name/Header _____ <u>cast 045</u> <u>cast 045-BMAY03B</u>												
Press. SN <u>25084</u>					Press. _____																						
Temp. SN <u>701</u>					Temp. _____																						
Cond. SN <u>303</u>					Cond. _____																						
_____					Other _____										Remarks <u>CTD w/ vertical tow *; water samples</u> <u>(net stored up at 82 m) w/o = 143</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	38	B	60	0322	0328					61.456	4.283	30.120	31.809				19		1
2	21		10							10.528	5.119	30.709	31.714						2
3	6		10							10.612	5.133	30.717	31.710						3
4	26																		4
5	2																		5
6	20																		6
7	29																		7
8																			8
9																			9
10																			10
11																			11
12																			12

\* descend to 60m; therm. soak & attach net; descend to ~140m; up  
Bot was 143m

Initials SKM  
✓

Consec. Cast #			Vessel		Proj. & Leg		Event#		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #			Latitude			Longitude			Date JD =			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.	N or S	Deg.	Min.	E or W	Day	Mo.	Yr.	Hr.	Min.																						
046			56	50	72 N	156	26	03 W	13	MAY	92	04	26	08	6	07	4	25	37	23	51	56	21												
CTD Type & SN			91220-A SEABIRD			Monitor Checks						Times JD/Time				Data Location																			
Press. SN			25084			on Deck						Data on				Tape/Diskette I.D.																			
Temp. SN			701			at Surface						at Surface				File Name/Header																			
Cond. SN			303			Press.						Start Down				(no second)																			
						Temp.						at Bottom																							
						Cond.						Start Up																							
						Other						at Surface				Remarks w/ CALVET, [red] at surface rose to																			
												Data off				w/ 123																			

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	18		123							123.558	4.152	30.131	31.918				25		1
2	21		60							none									2
3	6		50							none									3
4	26		40							none									4
5	2		30							cast aborted @	60 m	depth on							5
6	20		20							none									6
7	29		10							none									7
8																			8
9																			9
10																			10
11																			11
12																			12

Initials SPM  
✓

Consec. Cast # 047		Vessel MILLER FREEMAN		Proj. & Leg ME-92-05 FOCI		Event# 588		Vessel Sta. I.D.		Instructions										Sta. Designation							
Consec. Cast #	Latitude Deg. Min. N or S		Longitude Deg. E or W		Date JD = 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.	
047	565111 N		1562601 W		13 MAY 92			0454		058		054		2638		23016621						150		G17AC			
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface				Times JD/Time Data on 044730 @ 60m				Data Location Tape/Diskette I.D. File Name/Header															
Press. SN 25084				Press. _____				at Surface _____				047															
Temp. SN 701				Temp. _____				Start Down from 60m 0453				(started @ 60m)															
Cond. SN 303				Cond. _____				at Bottom _____																			
				Other _____				Start Up _____																			
								at Surface _____				Remarks CTD w/ Calvet, started w/ rosette @ ~60m w/o 123															
								Data off _____																			
Pos.		Bot.	T Rack	Trip Depth	Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #	Other Samp.	Pos.							
1	18'																			1							
2	21			60																2							
3	6			50																3							
4	26			40																4							
5	2			30																5							
6	20			20																6							
7	22			10																7							
8																				8							
9																				9							
10																				10							
11																				11							
12																				12							

62.1 w/ net @ surface

Initials SAH  
✓



Consec. Cast # 048			Vessel MILLER FREEMAN			Proj. & Leg MF-92-05 FOCI			Event # 590			Vessel Sta. I.D.			Instructions										Sta. Designation									
Consec. Cast #		Latitude Deg. Min. S			Longitude Deg. E or W			Date JD = 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.	
048		565182 N			1562639 W			13 MAY 92			0552		058		052		226		38		230		15621		1436		177D							
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on 053840 at Surface Start Down from 60m 055050 at Bottom @ 40m/min 055250 Start Up at Surface 0612 Data off				Data Location Tape/Diskette I.D. cal 048 File Name/Header cast 048-13MAY0535																		
Press. SN 25084				Press. _____												Remarks CTD w/ Calvet, attach net w/ 60m w/o, then discard another 60 m w/o 126																		
Temp. SN 701				Temp. _____																														
Cond. SN 303				Cond. _____																														
_____				Other _____																														
Pos.		Bot. Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.			Sal. Bot. #		Other Samp.		Pos.											
1		18-20		120								126.429 4.134 30.091 31.888							04				1											
2		21		60								60.676 4.649 30.448 31.838									MZ		2											
3		6		50								50.776 4.807 30.536 31.794									MZ		3											
4		26		40								39.823 4.840 30.528 31.758									MZ		4											
5		2		30								35.012 4.847 30.521 31.748									MZ		5											
6		20		20								19.849 4.948 30.534 31.672									MZ		6											
7		22		10								9.700 4.865 30.447 31.655									MZ		7											
8																							8											
9																							9											
10																							10											
11																							11											
12																							12											

65.5 m

Initials SAW  
✓



Consec. Cast # 049		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event# 591		Vessel Sta. I.D.		Instructions										Sta. Designation															
Consec. Cast #		Latitude Deg. Min.		N or S		Longitude Deg. Min.		E or W		Date JD = 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.	
049		565		111		N		156		2540		W		13 MAY 92		0652		0660		058		26		28		245		106		21		153		6172E	
CTD Type & SN 91220-A SEABIRD				Press. SN 25084				Temp. SN 701				Cond. SN 303				Monitor Checks on Deck at Surface								Times JD/Time Data on 064100 at Surface Start Down 064100 at Bottom 0653 Start Up 0654 at Surface 0710 Data off				Data Location Tape/Diskette I.D. File Name/Header 049 049-13mm-0637							
				Press. _____				Temp. _____				Cond. _____				Other _____				Remarks CTD w/ CALVET (missed logging first 5m of cast) w/o 125															
Pos		Bot.		T Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		Pos									
1		1820				125 0653						125.813 4.099 30.063 31.889								01				1											
2		21		60								60.138 3.820 29.626 31.737										M2		2											
3		6		50								50.378 4.030 29.853 31.748										M2		3											
4		26		40								40.045 4.485 30.192 31.710										M2		4											
5		2		30								30.096 4.817 30.473 31.720										M2		5											
6		20		20								20.149 5.029 30.653 31.731										M2		6											
7		27		10								10.005 5.131 30.705 31.698										M2		7											
8																								8											
9																								9											
10																								10											
11																								11											
12																								12											

net up @ 0700  
net off @ 0703:30

0643 @ 60m ↓, continue ↓ @ 0651, rate = 40m/min; up @ 10m/min (64.6) Initials SAM  
30m/min (124.6) stop ✓

Consec. Cast # 050			Vessel MILLER FREEMAN			Proj. & Leg MF-92-05 FOCI			Event# 592			Vessel Sta. I.D.			Instructions										Sta. Designation										
Consec. Cast #		Latitude Deg. Min. S			Longitude Deg. E or W			Date JD = 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.	
050		565151 N			1562512 W			13 MAY 92			0740			66		58		26		28		245		10		621		154		G177E					
CTD Type & SN 91220-A SEABIRD					Monitor Checks on Deck at Surface					Times JD/Time Data on at Surface 073040 Start Down 073140 at Bottom 074050 Start Up 074120 at Surface Data off					Data Location Tape/Diskette I.D. File Name/Header c05050 c05050-13 MAY 0730																				
Press. SN 25084					Press. _____																														
Temp. SN 701					Temp. _____																														
Cond. SN 303					Cond. _____																														
_____					Other _____																														
Pos.		Bot. Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		Pos.											
1		18-20		~126								126.342 4.064 30.024 31.876								20				1											
2		21		60								60.478 4.037 29.866 31.750										MZ		2											
3		6		50								50.350 4.312 30.074 31.733										MZ		3											
4		26		40								40.307 4.571 30.264 31.711										MZ		4											
5		2		30								30.345 4.854 30.512 31.731										MZ		5											
6		20		20								20.380 5.025 30.653 31.734										MZ		6											
7		27		10								10.219 5.114 30.694 31.701										MZ		7											
8																								8											
9																								9											
10																								10											
11																								11											
12																								12											

072640 base deck 073340 @ 60m  
075727 on deck 073915 @ 60m

074750 - net @ surface  
075200 - net off

64.8  
124.8

Initials SKM  
✓

Consec. Cast # 051		Vessel MILLER FREEMAN		Proj. & Leg MF-92-05 FOCI		Event # 632		Vessel Sta. I.D.		Instructions										Sta. Designation														
Consec. Cast #		Latitude N or S			Longitude E or W			Date JD = 135 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.	
051		56 52 04 N			156 26 38 W			14 MAY 92			05 43		07 80		6 02		29		08		00		00		06		31		143		G209A			
CTD Type & SN 91220-A SEABIRD				Monitor Checks on Deck at Surface								Times JD/Time Data on 0537 at Surface 0538 Start Down 0539 at Bottom 054330 Start Up at Surface Data off				Data Location Tape/Diskette I.D. File Name/Header Cand 051 Cand 051-14 MAY 0536																		
Press. SN 25084				Press. _____								Start Down 0539				Remarks SeaCat on rosette, carbon? chlorophyll																		
Temp. SN 701				Temp. _____								Start Up				Samples w/ 139																		
Cond. SN 303				Cond. _____								at Surface																						
Other _____				Other _____								Data off																						
Pos.		Bot. Rack		Trip Depth		Time @ Depth Trip		Monitor Values Press. Temp. Cond. Other				Conv. Mon. Values-CTD Press. Temp. Cond. Sal.				Sample Bot. Data Therm-P Avg Tw Sal.				Sal. Bot. #		Other Samp.		Log										
1		38 B		0541:30 0549:30						129.706 4.301 30.250 31.910								29				1												
2		18-20		100						60.202 4.080 29.886 31.733										Cant		2												
3		21		50						49.818 4.315 30.079 31.736										Cant		3												
4		6		40						40.104 4.817 30.497 31.744										Cant		4												
5		20		30						29.793 4.890 30.523 31.710										Cant		5												
6		2		20						19.778 4.973 30.576 31.696										Cant		6												
7		20		10						9.873 5.198 30.754 31.691										Cant		7												
8		27		SFC						0.830 5.442 30.956 31.693										Cant		8												
9																						9												
10																						10												
11																						11												
12																						12												

\* moved from cast location somewhat to avoid surface oil slick in surface water sample

Initials SKM  
✓

\* moved a little from cast area to avoid surface oil slick  
in surface samples

Initials SAW  
✓

Consec. Cast #			Vessel			Proj. & Leg			Event#	Vessel Sta. I.D.			Instructions										Sta. Designation										
Consec. Cast #			Latitude			Longitude			Date JD =			Time GMT		Dry Bulb		Wet Bulb		Bar. mb		S.S.		Wind Dir.		Wind Sp.		Cloud Type		Weath.		Bottom Depth, m		Sta. Name or I.D.	
			Deg. Min. S			Deg. E or W			Day Mo. Yr.			Hr. Min.								S.S.													
053			565057 N			1562918 W			14 MAY 92			0739		70		5230		08		---		---		631		121		G211A					
CTD Type & SN 91220-A SEABIRD			Monitor Checks										Times JD/Time				Data Location																
Press. SN 25084			on Deck at Surface										Data on 073400				Tape/Diskette I.D. File Name/Header																
Temp. SN 701			Press. _____										at Surface 073430				Cast 053-14 MAY 0734																
Cond. SN 303			Temp. _____										Start Down 073500				_____																
_____			Cond. _____										at Bottom _____				_____																
_____			Other _____										Start Up _____				Remarks CTD to bottom with carbon & chlorophyll samples w/o 124																
_____			Data off _____										_____				_____																
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	29									114.541	4.271	30.187	31.872				09		1														
2	18-20		60							59.860	4.374	30.135	31.740					Carbon	2														
3	21		50							49.908	4.609	30.331	31.748					Carbon	3														
4	6		40							39.828	4.778	30.479	31.760					Carbon	4														
5	26		30							29.948	4.882	30.550	31.748					Carbon	5														
6	2		20							20.066	5.070	30.683	31.725					Carbon	6														
7	20		10							9.880	5.522	31.040	31.708					Carbon	7														
8	27		Sfc							1.058	5.519	31.024	31.698					Carbon	8														
9																			9														
10																			10														
11																			11														
12																			12														

Initials CLL  
 ✓

Consec. Cast #		Vessel		Proj. & Leg		Event#	Vessel Sta. I.D.		Instructions										Sta. Designation											
Consec. Cast #		Latitude N or S		Longitude E or W		Date JD =			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.	
054		56 52 16 N		156 29 12 W		14 MAY 92			08 38		69		51		30		08		—		—		631		123		6212A			
CTD Type & SN 91220-A SEABIRD				Monitor Checks				Times JD/Time				Data Location																		
Press. SN 25084				on Deck at Surface				Data on				Tape/Diskette I.D. File Name/Header																		
Temp. SN 701				Press. _____				at Surface _____				054 054-14MAY																		
Cond. SN 303				Temp. _____				Start Down _____				_____																		
_____				Cond. _____				at Bottom _____				_____																		
_____				Other _____				Start Up _____				Remarks CTD to bottom with microzooplankton and chlorophyll samples & therm. cal.																		
_____				_____				Data off _____				_____																		
Pos		T		Trip		Time @		Monitor Values				Conv. Mon. Values-CTD				Sample Bot. Data			Sal.		Other		Pos							
Bot. Rack		Depth		Depth Trip		Press. Temp. Cond. Other		Press. Temp. Cond. Sal.				Therm-P Avg Tw Sal.			Bot. #		Samp.		Pos											
1 38 B										111.064 4.605 30.465 31.875							08		therm sal		1									
2 18 20		60								60.445 4.667 30.380 31.743									m3		2									
3 21		50								50.405 4.715 30.409 31.735									m3/chl		3									
4 6		40								40.281 4.957 30.605 31.734									m3/chl		4									
5 26		30								30.195 5.033 30.660 31.731									m3/chl		5									
6 2		20								20.226 5.018 30.629 31.713									m3/chl		6									
7 20		10								10.131 5.009 30.598 31.692									m3/chl		7									
8 22		surf.								0.870 5.064 30.631 31.682									m3/chl		8									
9																					9									
10																					10									
11																					11									
12																					12									

Initials LH  
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