

Consec. Cast # 0		Vessel 021 MF		Proj. & Leg MF89-2		Event #		Vessel Sta. I.D.		Instructions Test cast Malina Bay										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.	
05812		74N		1530236W		81 MAR 89		0709																							
CTD Type & SN 2				Monitor Checks				Times JD/Time				Data Location																			
Press. SN 2				on Deck at Surface				Data on 0720				Tape/Diskette I.D.				File Name/Header															
Temp. SN 2				Press. 8.825 / 0.002				at Surface 0721								22 mar 0709															
Cond. SN 2				Temp. - 0.18				Start Down 0722																							
				Cond. 0.00				at Bottom 0725																							
				Other				Start Up 0725																							
								at Surface 0731																							
								Data off 0725 End 0729																							
																Remarks															

Stn.	Bot.	T Rack	Trip Depth	Time @		Monitor Values				Conv. Mon. Values-CTD				Sample Bot. Data			Sal. Bot. #	Other Samp.	Pos.
				Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.			
1	507	-	72.2	72.2	0728	72.2	22.06	31.714									31/32	1	
2																		2	
3																		3	
4																		4	
5																		5	
6																		6	
7																		7	
8																		8	
9																		9	
10																		10	
11																		11	
12																		12	

Initials ✓

Consec. Cast # 0			Vessel MF		Proj. & Leg ME 89-02		Event #	Vessel Sta. I.D. malina Bay		Instructions Test cast										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.	
0	0	0																							
CTD Type & SN ②				Monitor Checks								Times JD/Time				Data Location									
Press. SN 2/26072				on Deck				at Surface				Data on 0531				Tape/Diskette I.D.					File Name/Header				
Temp. SN 2/710				Press. _____				_____				at Surface 0533				_____					22 Mar 0528.Dat				
Cond. SN 2/304				Temp. _____				_____				Start Down 0533				_____					_____				
_____				Cond. _____				_____				at Bottom 0535				_____					_____				
_____				Other _____				_____				Start Up 0535				_____					_____				
_____				_____				_____				at Surface 0536				Remarks					_____				
_____				_____				_____				Data off 0537				_____					_____				

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

Initials ✓

Malina Bay TEST Deep on DECK

Consec. Cast # 0		Vessel 021 MF		Proj. & Leg 89-02 TEST		Event#		Vessel Sta. I.D. 0		Instructions										Sta. Designation			
Consec. Cast #	Latitude		N or S	Longitude		E or W	Date JD = 80			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.													
	058	12		72	N		153	02		44	W	21	Mar	89									

CTD Type & SN (2)		Monitor Checks				Times JD/Time				Data Location			
Press. SN 2/26072		on Deck		at Surface		Data on 0453 0459		Tape/Diskette I.D.		File Name/Header			
Temp. SN 2 710		Press. 9.047 / 8.955				at Surface 0459				output date 22mar 0458 Dat			
Cond. SN 2/304		Temp. _____				Start Down 0500				21 Mar 2105 HDR			
		Cond. _____				at Bottom 0501							
		Other _____				Start Up 0503							
						at Surface _____							
						Data off _____							
Remarks													

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

Initials _____
✓ _____

AVERAGE SAL CORR = +0.001

Pg. 1 of 7

Consec. Cast # 01		Vessel 021 MF		Proj. & Leg MF 89-02		Event # 1		Vessel Sta. I.D. Fox 55 Line 8		Instructions										Sta. Designation Fox 55	
Consec. Cast #	Latitude Deg. Min.	N or S	Longitude Deg.	E or W	Date JD = 81 Day Mo. Yr.			Time GMT Hr. Min.		Dry Bulb	Wet Bulb	Bar. mb 1004.0	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud Type	Weath.	Bottom Depth, m	Sta. Name or I.D.	
001	5728	N	15442	W	22	Mar	89	23	02	05	00	35	04	27	03	92	48	73	63	FOX 55	
CTD Type & SN 91220-B			Monitor Checks					Times JD/Time					Data Location								
Press. SN 26072			on Deck at Surface					Data on 2258					Tape/Diskette I.D. File Name/Header								
Temp. SN 2710			Press. 2.249					at Surface 2258					Jan 89? 22 Mar 2254								
Cond. SN 2304			Temp. 2.164					Start Down 2259													
			Cond. 31.845					at Bottom 2302													
			Other 2.228					Start Up 2303													
								at Surface 2307													
								Data off 2306					Remarks Inverted sig-t @ 58 m CAST DEPTH 61 m								

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	502	50.5	2304	2304	50.502	2.210	31.969	50.030								31.973	1/2	1	
2																		2	
3																		3	
4																		4	
5																		5	
6																		6	
7																		7	
8																		8	
9																		9	
10																		10	
11																		11	
12																		12	

Initials WF

✓

Consec. Cast # 002		Vessel MF 021		Proj. & Leg MF 89-02		Event# 2		Vessel Sta. I.D. 56 Line 8 Fox		Instructions		Sta. Designation 56 Line 8 Fox											
Consec. Cast #	Latitude Deg. Min.		N or S	Longitude Deg.		E or W	Date JD = 82 Day Mo. Yr.			Time GMT Hr. Min.		Dry Bulb	Wet Bulb	Bar. mb 1003.8	S.S.	Vis.	Wind Dir.	Wind Sp.	Cloud	Type	Weath.	Bottom Depth, m	Sta. Name or I.D.
002	57	30	79 N	154	47	06 W	23	MAR	89	00	06	04	18	04	0		04	3	18	8	72	223	FOX 56
CTD Type & SN 91220-B			Monitor Checks			Times JD/Time			Data Location														
Press. SN 226072			8.809 on Deck at Surface			Data on 2356			Tape/Diskette I.D. Jan 89 2			File Name/Header 22 MAR 2350											
Temp. SN 2710			Press. 0.05 2.369			at Surface 2358																	
Cond. SN 2304			Temp. 3.37 2.402			Start Down 2359																	
			Cond. 0.00 SAL 31.851			at Bottom 0006																	
			Other D 2.347			Start Up 0009																	
						at Surface																	
						Data off																	
Remarks (L) mark for Bottle trip hit after start up From Trip depth																							

Pos.	Bot.	T Rack	Trip Depth	Time @		Monitor Values SAL DEPTH				Conv. Mon. Values-CTD				Sample Bot. Data			Sal. Bot. #	Other Samp.	S.D.	
				Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.				
1	252	A	200	0008	0009	193.855	2.124	32.285	191.976								32.294	3/4		1
2																				2
3																				3
4																				4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12

changed
Depth Sal
(m) (‰)

0	31.873	31.873
1	31.873	"
2	31.873	"
3	31.855	"

check 28 m
52 m

Initials WF



Consec. Cast # 003		Vessel MF 021		Proj. & Leg MF 88-02		Event # 3		Vessel Sta. I.D. S7 Line 8		Instructions										Sta. Designation S7 Line 8					
Consec. Cast #	Latitude			N or S	Longitude			E or W	Date JD = 82			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.													
003	57	33	07	N	154	52	62	W	23	MAR	89	01	05	03	20	30	04	48	04	52	28	71		240	FOX 57
CTD Type & SN 91220-B				Monitor Checks								Times JD/Time				Data Location									
Press. SN 26072				on Deck at Surface								Data on 0054				Tape/Diskette I.D. File Name/Header									
Temp. SN 710				Press. 8.915								at Surface 0056				23 Mar 0047									
Cond. SN 354				Temp.								Start Down 0057													
				Cond.								at Bottom 0105													
				Other								Start Up 0105				Remarks									
												at Surface				(1MA file)									
												Data off				Cast Depth 220 m									

St. #	Bot. Rack	Trip Depth	Time @		Monitor Values				Conv. Mon. Values-CTD				Sample Bot. Data			Sal. Bot. #	Other Samp.	St. #		
			Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.					
1	252	A	176m	0107	0112	175.270	2.762	32.452	173.578						183.68	2.98	32.482	5/6		1
2																				2
3																				3
4																				4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12

CHANGED
 0 31.795 31.720
 1 " "
 2 " "
 3 31.727 "
 4 " "

check
 temp @ surface
 48:49m T 1/5
 80m S
 163-164m
 177-178m
 210m

Initials WF

✓

Consec. Cast # 004		Vessel MF 021		Proj. & Leg MF 89-02		Event # 4		Vessel Sta. I.D. 58 Line 8		Instructions										Sta. Designation 58 Line 8						
Consec. Cast #	Latitude N or S			Longitude E or W			Date JD = 82			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.		W	Day	Mo.	Yr.	Hr.	Min.															
004	57	36	09 N	155	00	56 W	23	MAR	89	02	21	06	0	05	0	04	48	05	71	47	71	246	FOX 58			
CTD Type & SN 91220-B			Monitor Checks						Times JD/Time						Data Location (233) moA											
Press. SN 26072			on Deck at Surface						Data on 0209						Tape/Diskette I.D.						File Name/Header					
Temp. SN 710			Press. 8.855 2.945						at Surface 0212												23 Mar 0207					
Cond. SN 304			Temp. 2.412						Start Down 0213																	
			Cond. SAL 31.727						at Bottom 0221																	
			Other D 2.918						Start Up 0222																	
									at Surface 0231																	
									Data off 0238																	
															Remarks											
															(1 m9 full)						CAST DEPTH 236 m					

Pos	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	502		100m	0226	0227	99.985	2.349	31.806	99.038								31.810	7/8		1
2																				2
3																				3
4																				4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12

check 72 m
109-110 m
113-114 m
120-121 m
142 m
188 m
195 m
197 m
200 m
202 m
205 m
224-225 m
230 m

Initials WF

✓

Consec. Cast # 005		Vessel MF 021		Proj. & Leg MF 89-02		Event # 5		Vessel Sta. I.D. 59 Line 8		Instructions										Sta. Designation 59 Line 8														
Consec. Cast #	Latitude		N or S	Longitude		E or W	Date JD = 82			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.																								
005	57	38	N	155	04	49	W	23	Mar	89	03	31	05	2	03	9	04	3	8	0	6	5	14	6	6	1	2	4	9	F	O	X	5	9
CTD Type & SN 91220-B		Monitor Checks										Times JD/Time				Data Location																		
Press. SN 26072		on Deck					at Surface					Data on 0319				Tape/Diskette I.D.				File Name/Header														
Temp. SN 710		Press. 2.774										at Surface 0321				23 Mar 0310																		
Cond. SN 304		Temp. 2.421										Start Down 0323																						
		Cond. SAL 31.776										at Bottom 0331																						
		Other 2.748										Start Up 0332																						
												at Surface 0346																						
												Data off 0341																						
																Remarks at Surface winch operator went up instead of down pulling the CTD out of the water. CAST DEPTH 252 m																		

Pos.	Bot.	T Rack	Trip Depth	Time @		Monitor Values				Conv. Mon. Values-CTD				Sample Bot. Data				Sal. Bot. #	Other Samp.	Pos.
				Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.				
1	252	A	229	0333	0339	229.076	5.057	33.134	226.834						236	4.87	31.105	9/10		1
2																				2
3																				3
4																				4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12

changed

2 31.755 31.717
3 31.753 31.717

check

122 m
124 m

Initials WF



Consec. Cast # 006		Vessel MF 021		Proj. & Leg MF 89-02		Event # 6		Vessel Sta. I.D. 60 Line 8		Instructions										Sta. Designation 60 Line 8						
Consec. Cast #	Latitude			N or S	Longitude			E or W	Date JD = 082			Time GMT		Dry Bulb	Wet Bulb	Bar. mb 1004.5	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.														
006	57	41	07	N	155	10	05	W	23	MAR	89	04	53	05	5	04	5	04	38	07	3	12	66	1	286	F0X60
CTD Type & SN 91220-B				Monitor Checks				Times JD/Time				Data Location														
Press. SN 26072				on Deck at Surface				Data on 0439				Tape/Diskette I.D.										File Name/Header				
Temp. SN 710				Press. 3.604				at Surface 0442														23 MAR 0436				
Cond. SN 304				Temp. 2.430				Start Down 0442														(1 MA file)				
				Cond. SAL 31.760				at Bottom 0453														CAST DEPTH: 288 m				
				Other D 3.570				Start Up ?														Remarks no water Sample; Thought we had				
								at Surface 0504														Stopped cast at 0454 Bottom winch didn't stop				
								Data off 0454																		

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	500					—	—	—										1	
2																		2	
3																		3	
4																		4	
5																		5	
6																		6	
7																		7	
8																		8	
9																		9	
10																		10	
11																		11	
12																		12	

Initials WF

✓

changed

0 31.759 31.732

2 31.759 31.732

3 31.759 "

4 31.757 "

Consec. Cast # 007		Vessel MF 021		Proj. & Leg MF 89-02		Event # 7		Vessel Sta. I.D. 61 Line 8		Instructions										Sta. Designation 61 Line 8											
Consec. Cast #	Latitude			N or S	Longitude			E or W	Date JD = 82			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.																			
007	57	43	18	N	155	15	57	W	23	MAR	89	05	56	06	00	58	04	38	07	50	9	6	6	2	273	FOX 61					
CTD Type & SN 91220-B				Monitor Checks								Times JD/Time				Data Location															
Press. SN 26072				8.83° on Deck at Surface								Data on 0547				Tape/Diskette I.D.								File Name/Header							
Temp. SN 710				Press. 2.760								at Surface 0549												23 MAR 0543							
Cond. SN 304				Temp. 2.031								Start Down 0550																			
				Cond. SAL 31.706								at Bottom 0556																			
				Other D 2.735								Start Up 0556																			
												at Surface																			
												Data off																			
Remarks				CUT P late some guy almost hit the bottom again CAST DEPTH 176m																											

Stn. No.	Bot. Rack	Trip Depth	Time @		Monitor Values SAL DEPTH				Conv. Mon. Values-CTD				Sample Bot. Data				Sal. Bot. #	Other Samp.	Stn. No.	
			Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.					
1	252	A	130m	0558	0603	129.889	2.833	31.922	128.647						129	2.80	31.913	11/12		1
2																				2
3																				3
4																				4
5																				5
6																				6
7																				7
8																				8
9																				9
10																				10
11																				11
12																				12

changed 0-3m

 0 31.60 30.28
 2 " "
 3 " "

 Check
 89m
 95m
 146m

Initials LIF

✓