C	onse	Casi. OC		Vesse		REEMAN	Proj. & Leg MF-94	n4	Eve	ent#	Vessel Sta. I.D.	Instr	uctions				Sta	. Designati	on	
Ca	onsec ast #	De	Latit	Min.	N or S	Longi Deg.	tude E or W	Date Day	Mo.	Yr.	Hr. Min.	Dry Bulb	Wet Bulb		Wind Dir.	Sp.	Weath.	Sottom epth, m	Sta. Nar or I.D	
Ту	C pe &	TD g	8 3 5 31220- <i>4</i> 26072	75	N	5305			Checks		e Dat				7265 e/Diskette	Data Loc	File N	Name/Hea	der	
Те	mp. S	5N_7 5N_3	701			Cond					Start Do at Bot Start at Sur	own tom : Up face		Rema	rks	-		01_1340	- X y	2 3
os.	Pot	T	Trip	Tim Depth		Other	Mon	itor Va			С		Values-CT			nple Bot.D		Sal.	Other Samp.	Ι×
a. I	BOL.	N	E. Hug	190720	111		Temp	. C	Cond.	Otl		Temp. 4, 52-3	Cond.	Sal. 32.162	Therm-P	Avg Tw	Sal. 3'3 ★		0.0	S 18 18
2			50	01072	<u> </u>	.,2						4.795		32.040			30		378	2
3		IX San	30									4.721	142 1 0	31.948			27		379	3
4		10 May 17	10				0%				10.759	4.430	30.254	31.849			26		380	4
5			10								10.471	4.424	30.248	31.848			35		38	5
6			10								10.909	4.522	30.352	31.873			32		382	6
7			3	=							3,757	4.402	30.223	31.843			28		383	7
8			3								3,898	4.407	30.228	31,844			34		384	8
9	F	13.	3								3.482	4.408	30,227	31.843		2	31	\	376	9
10			0								0.760	4,396	30.214	31.841			29		375	_
"	d		764																200	11
12			1							 , _							<u> </u>	Initials	PN	12

rg. 1 of ____

Со	nsec	.Cas		Vesse		DEEMAN	Proj. &	Leg F-94-	Ωlı	E	vent#	Vess	el Sta. I.D.	Instr	uctions						Sta. Des	ignatio	n	
	nsec. st #		Latit		N or	REEMAN Long Deg.	gitude	E [Date	JD =	Yr.		me MT Min.	Dry Bulb	Wet Bulb	Bar. mb	S. S.	Wind	Wind Pool	Type Weath.	194 Botton Depth,	m S1	ta. Nam or I.D	e
0	9/2	5	729	89	N	1544	7 5 6	W	3	PR	9 4	19	25.	1 3	- 2 8	05	3	8 29 5	146	8 1	25	2	940	3
Typ Pre	C7 e & S ess. S	D 2	1220-A 26072		-	Person	on De	eck			s t Surfac	e	Dar at Su	ta on rface			Таре	e/Diskette I	Data Lo	Fi	le Name	-		
	•	N_7 N_3			-	Press			3				I '	own ttom		_ -			147				<u> </u>	
===					-	Cond		·				1 22	Star at Su		34. A		emar	ks CTP,	LIGHTME	TER,	FLuopoi	1ETER,	, CHLAN	1 1
S.	Rot [®]	T	Trip	Tim Depth	e @		1	Monit	or Va		T 0:1				Values-CT	D Sal		Sam Therm-P	ple Bot. Avg Tw	_	Sal.	Sal.	Other Samp.	S.
1	JUL.	>					S. 1	emp.	+	Cond.	Oti	ner	Press.	Temp.	Cond.	-		i nerm-r	AAR 1 AA		oal.	09	133-N	4
2		-1-1-		192500	1930	808								3.680	30,108							7	che	2
3	5) (4)		60	r P				······	-		 			3,522									132/che	
	3		SO			_		<u> </u>	- 				50.007		29.768					 			177	1 . 1
4	N.		40			_				· _			·							 			Chl 131/	
5			30			_			+		_		30.069	3.569	 	31.7			· · · · · ·	ļ.—			131/cup	
4			20		<u>.</u>						ļ		19.692	3,543	29,476	31.79	91						Che	6
7			10	9					_				454.6	3.539	29.469	31.7	91			 			Clil	7
8			10	0									9,868	3,541	29,471	31.7	91						(he)	8
9			10	<u></u>								9	9.912	3,542	29.471	31,79	92		it				130/cr	9
0			0										-0.161	3.546	29.463	31.78	83	(i)			2		19/00	Jol
II												l										161		11
2																								12
		•									1			+		<u> </u>				3		nitials	(A)	

Initials _____

rg. _____

W/0 194

C	onse	.Cast	# 3	Vesse	el ER FRE		roj. & Leg MF-94		Event 55	# V	essel Sta. I.D.	Instr	ructions h	some 9	102		Sta. D	esignatio	n	
	onsec ast #	De	Latit		N or	Longito			JD = 107	2	Time GMT r. Min.	Dry Bulb	Wet Bulb	Bar.		Wind Book	Weath Deb	ኒኒ tom th, m	Sta. Nam or I.D	
9	4:	3 3	-3-	7 11	N j	5503	35 W	13/	APR9	4 2	154-	- 18	- 25	63	28280	1 1 1		45	940	2
Tv	C De &	TD 9	1220-A					nitor	Checks				JD/Time		(5)	Data Loc			-	
			6072		- _		on Deck		at Sur	face		a on face		<u> —</u> тар	e/Diskette	ו.ט.	Cast a	ne/Head		
		N_7 N_3			-	ress emp						own				-				
0 1 1	orid.	DIN2			_ <	Cond Other					Starr	Up face a off		Rema	arks clam		ta		w/o	_ગ ુપા
os.	Bot	T	Trip	Tim Depth	ie @	Descri		itor Va		Oeb ee		onv. Mon Temp.	. Values-CT Cond.	D Sai.	Flow Sar	nple Bot.D	ata Sal.	Sal.	Other Samp.	1 01
<u></u>	ВОС	Nack	255	21:54:32			Temp	-	Cond. C	Other	235.262	ц.635	31,202	32,637	, log	Avg Iv	Jai.	#23	NuT+	
2		10	50	50							50 022	и,277	30,195	31,908	182			#23	0.111	2
3		11 II	3.	30				+			30,033	3,637		30,633	295				CH136	3
4			13	15							13,223	3.585	29,426	31,694	255				CHL	4
5			13	19							13.224	3,588	29,434	31.696	152	9			CHL	5
6			13	300				23			13.054	3,586	29,427	31.693	.264	L			con	6
7			10	i Bar I							9.823	3,586	29,422	31,689	, 198		F		CHL	7
8			10	-						72	7.981	3.586	29.421	31.687	, 289				an	8
9			O	ju	-					37	10.005	3,589	19.423	3/ 688	, 202				CHYBS	9
10			0	(S							0,256	3,582	29,424	31.689	,159				CHY/3	10
II					4]		<u> </u>				E 8									11
12																				12
					ł							<u> </u>		<u> </u>			g	Initials	WR/0	X :

Initials JR/OK

rg. <u>3</u> of _

																		Pg.		of		
Co	nsec	.Cast	:# 4	Vesse		REEMAN	Proj.	& Leg MF-94		Eve	nt# Ves	sel Sta. I.D.	Instr	ructions More	my 9	4-01		<u> </u>	esignatio	on		e:
	nsec. st #		Latit	ude	N or S		itude			JD = / Mo.		ime GMT Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind B Sp. O	Negath Bott Dept		Sta. Nam or I.D	e	ai t
		5		57	N	1551	10	o W	14	PR	940	620-	19	- 3 6	0	28290	141	<u>~ 10</u>	16	940		ı
	C	ĹĎ °	, 1220-A					Мо	nitor (Checks		Ti	mes	JD/Time	-		Data Loc	cation				
				·	-		on [Deck		at S	urface		a on		Ta	pe/Diskette	I.D.	File Nam	-			
		200.45	6072		-	Press						1	rface		— <u> </u>			castoo	£ - 14Ap	r 0008		
	-	N_7			-								own	·····			91					İ
رد	na. S	N_3	<u> </u>		-	Temp							t Up									
			***		-	Cond				-			rface		Rem	narks ا	· //ww	meter		1 .	ľ	
			W		_	Other							a off			ligh	tuelo	8500	l Cil	Nuts		
Pos.	Pot	T	Trip	Tim				· ·	itor Va		Oshan	Press.	onv. Mon Temp.	. Values-CT Cond.	D Sai.	Therm-P			4	Other Samp	Pos.	
<u>а</u>	BOL.	Nack	Depth 250	Depth	Tr	rip Press	s.	Temp	. -	Cond.	Other	185,765	 	32.664	38.054	O'IOP	Avg IV	æai. U	#19	x 39	1	
2		2	60					-				59.886	3,475	29.600	31,778	0,228		×		3 .	2	Clil
3	100		50									50,247	3,796	29.762	31,797	0,213		×		OPIX	3	Clil
4	ACATION.		40									40,414	3.58(29, 473	31.739	0,255		*	<u> </u>	~	-	Chi
5			30				\bot	····				30,118	3,599	29.459	31.711	0.244		X	ļ	ોના	├─	Chil
6			2.					-	É		<u>. </u>	20.137	3,385	29.211	31:618	6,178		X		<u> </u>		Che
7			وا									10,386	3.327	19,142	31.607			×	 	-		Chil
8			۵۱									10.463	3,327	29,142	31.60न	0.197		× ×		X VE 4-		Chu
9		П	10								33	10,507	3.319	29,134	31,605	0.196	:	×		X142		
10			0									-0,446	3,345	19.153	31.609	0,135			ļ	143	+	Ol
<u> </u>							_								 -	-			<u> </u>	-	11	-
12																					12	

Initials WF/OK

																			rg. <u>5</u>		of	
Col	nsec.	Cast	# 60	S Vess	el FR F	REEMAN	Proj.	& Leg	i-04	Ev	ent# V	essel Sta. I.D.	Instr	uctions		2			Sta. Design	natio	n	
Con			Latit	ude Min.	N or S		itude			JD =	104	Time GMT Ir. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind Sp.	Type Weath.	2 & Bottom Depth, m	•	ta. Nam or I.D	
b	P 5	5	705	5 9 7	7 N	1560	0 1	4 w		A P R	940	5490	12	-05	00		0181	61	223	3	(1	4
			1220-A	\ 				Мо	nitor	Checks		Tin	nes	JD/Time			Data Lo		,			
			6072	•	-		on E	Deck		at:	Surface		on		— ¹	Tape/Diskette	I.D.		le Name/H			
		N_7			_	Press							face		_				1 - 200 tel	480	4 82 40	
	-	N_3			_	Temp						at Boti	om									
5		+	_		-	Cond Other						at Sur	Up face		Re	marks					NKT	
		T	Trip	Tim	- 1e @				itor Va	lues			off	Values-CT		Fluor Sar	nple Bot.	Data	S	al.	Other	S.
S E	Bot.	Rack	Depth	Depth	Ti	rip Press	s	Temp		Cond.	Other		Temp.	Cond.	Sal.	Therm-P			Sal. Bo		Samp.	8
ı	197	A	200	65: 49:20								214.176	4.150	30.462	32.262	2 0.104					151	1
2			120	٦								150.313	3.862	30,092	32.41	0/118	•		1	***	150	2
3	*		Jeo									99.711	3.645	29.807	32,043	3 0.183			#	-7	149	3
4	100		56									49.534	3.417	29.495	31.922	0.234					148	_
5			35									34.706	3.178	29.185	31.793	3 0,312					叶	
6			20						83			20.394	3,214	29.165	31,74	0 0325	[w				146	6
7			(D									9.712	3.378	29,270)	31.72	2 0.249					ļ	7
8			10						1			9.736	3, 199	29.216	31.72	4 0.258						8
9			10	W S				(e)			93	9.915	3,333	29.243	31,77	22 0.260	23				145	9
0			0									-0.054	3.369	29.268	31.77	12 0,247	100				144	10
11																						11
2																						12

																۲,	g. <u>6</u>	<u>of</u>		
Conse	c.Ca	st # ob	Vesse			Proj. &	Leg -94-		vent# V	'essel Sta. I.I	O. Instr	uctions			· · · · · · · · · · · · · · · · · · ·	Sta. [Designation	on		2
Conse	ιI	Latit		N or	<u>Longi</u> Deg.	tude	E C	Date JD = Day Mo.		Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Si Dir.	Wind Pao	Dep Dep	SE ttom oth, m	Sta. Nam or I.D	e	
00	65	626	6 4	N	5658	7 7	W	4 A P R		148	-32	-40	004	8341	0221	66	93	9 4 4	3	
	TD	91220-A				<u> </u>	Mon	itor Check	S		Times	JD/Time			Data Loc					
		26072		-		on Dec	ck	at	Surface		ata on		Тар	e/Diskette			me/Head	_		0
rress. Temp.				-	Press			<u> </u>			Surface Down					cestoo	6_144	1170	-	ł
Cond.				_	Temp					at I	Bottom	_								
īn ir		<u></u>		_	Cond					I	art Up Surface		Rema	irks LIGHT	METER, F	LUDROME	TER, CH	LAM	-	2
			10	_	Other					17	Data off			-	1	1		NVTS		W
8 5	T	Trip k Depth	Tim	e @				or Values	1 0 1			. Values-CT			nple Bot.D	ata Sal.	Sal.	Other Samp.	Pos.	1
Вот	A	150	Depth 114960	T	Press	. 16	emp.	Cond.	Othe	r Press		Cond. 24,507	Sal. 31.996	Therm-P		Jal.	1/	152	1	
		75	11 1100								24 3.331							153	2	
		60				1					71 3.310							154		
223		45								44.77	3 3.280	29.435	31.987	0.189				156	4	~ .
		30								29.6	3 3.261	29.408	31.981	0:220			=11	157	5	4871
		20									85 3.194		 					158	6	
ed.	1	10		104						_	12 3.143				aca.		1 3		7	- 30Q
		10	i								3 3,137					= M	-	-	8	-
<u> </u>		10								9.00	3.140	29.250	31,922	0.243				155	9	THE ST
0		0			I,					-0,14	7 3,119	29.228	31.921	0.234			25	158A		150
1				L								16		1					11	1
2								-								¥			12	
																	Initials	(A)		2.5

																				e P	'g. <u>Z</u>	of		
C	onse		ast		Vess		REEMAN	Pre	oj. & Le	g 94-04	E	vent#	Vessel S	ta. I.D.	Instru	ctions				Sta. I	Designati	on 3 H	tru	12
	nsec ast #		Deg	Latit		N or S		ngitu		Date	e JD =	106 Yr.	Time GMT Hr.		Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind Bo			Sta. Nam or I.D		
)	07	, 5	ร์ ร	5/4	0 4	N	169	10	4 W	16	APR	9 4	193	40	2 3	0 6 6	64	27276	038	4220	<u> </u>	13	1	
- `v	De &	TD SN	91	220-A			-				r Check				•	D/Time		pe/Diskette		cation 2	s 6 3 ame/Hea	dor		
	ress.					_	_		n Deck		at	: Surfac	e		a on face		la	pe/Diskette	ע.ו.	CAST 00				
	mp.			1 430	3		Press				00				own tom		- =		W					
्	ona.) / / / / / / / / / / / / / / / / / / /	70	- 50.			Temp Cond							Start	Up		- Rem	arks LIGHTM	ETER.	20 1 /1		33.		w/0300
_						_	Other_								face a off			CHLAM	4.5	Phyto/Luc		Nuts		Cht
S.	Rot	Pa		Trip	Tin Depth	ne @	. De				Values	Otl		C Press.	onv. Mon. Temp.	Values-CT Cond,	D Sal.	FLUOR Sar	nple Bot. Avg Tw		Sal.	Other Samp.	1 0 1	
<u> </u>	Вос						тр Рг	ess.	Tem	ip.	Cond.	Oti					33.586	0.078	7,16,111	Jai.	26	160	1	\
2		/			વિક્લ્યુલ						-				3.822	30.351		0.084				161	2	\
<u>-</u>	-		+	150		-											170.00					162	3	
<u> </u>			+	75													32.808					100 2	4.	Che
-		-	+	50		ļ	2				-				- 111	30.332		8	200		1	163		che
5			+	35		-							3	1.806		30.328				Lucols	-	+	2	Che
6	ļ	_	4	ro		_			ğ				9	862		30.318				phyto for	m	164	6	- The state of the
7		_	4	D		550			<u> </u>	-			0	\$20	3.546	30.320	32.804	0.283				165	+-	
8																						11/23	8	
9													ī									1	9	
10															8:								10	
															2							3	11	
		T	\neg			1			T										ČI.		-VI		12	1

consision on sensor end of Tempt Sal plags Should Be replaced. WF

																	Pg.	<u>8</u>	oí			
C	onse	c. Cas	t #	Vesse MILLE		~~~	Proj. & Le	g 94-04	Ev 2	rent# Vess	el Sta. I.D.	Instru	ıctions				Sta. De	signatic	าก			
í	onsec ast #	De	Latit	Min.	or S E	Longi Deg.	itude E	Dat Day	e JD =	107 Ti G Yr. Hr.	1 1 	Dry Bulb	Wet Bulb	Bar. mb vi	Wind Dir. 7 \ 3 c	Sp. Ö	- 1 I I I		or I.D	1		
_		5 TD		98	N I	6825	28 W	2.5	r Checks		2 0 d	1 7		0 3 1	1117		cation / 3 /		0 9	61 (23)		
			91220-A	<u> </u>	-	₩.	on Deck			Surface		mes J a on	D/Time	Тар	e/Diskette		File Name	e/Head				
ĭ			26072 701		-	Press						face own					Cast 008	1-164	PE 235	50		
Te	ond.	SN_3	304-3 <i>0</i>	3	-		·		*11		at Bot					70						
2	Ç			J.		Cond	S					t Up face		Rema	rks							
ı					-	Other					Dat	a off							nuts		Q.I	Alos
S.	Bot	T Rack	Trip	Time Depth	e @ Trip	Press			Values Cond.	Other	Press.	onv. Mon. Temp.	Values-CT Cond.	D Sal.	₹\‱ San	nple Bot.[Avg Tw	Data Sal.	Sal. Bot. #	Other Samp.	Pos.		
1	15	Α	300		ППР	17033		·P·	Cond.	0 0.1.01	301.076	3,860	31,305	33,563	0.076			A. Salar	171		/	/
2			150			-					149,645	3,869	30,794	33,026	0.082				170	2		
3	4	-2	75						<u> </u>		74 ,992	3.799	30.465	32,684	0.114	W			169	3		
4			50								49,973	3,543	30.079	32,493	०,२२५					4	Chil	
5	-		35								34,817	3,101	29.592	32,360	0,369	3:			168	5	CH	
6		=	10					8			9.711	3,303	19.718	32,334	0,290	25	Phyto-form	20	167	6	del	Abs
7			0		. /						1,862	3.379	29,728	32.335	0.219				ماها ا	7	all	Abs
8																			<u> </u>	8		
9										4										9		
10																	#55			10		
П												27								11		
12			- SS																	12		
		•				<u> </u>	85				PL	mbina	change	9 40 c	the "	nstn me	th	Initials				
												1 1 1 1	(a) 101	M								

																		Pg Pg	. <u> </u>	of			
C	onsec	. Cas	t # Փ մ	Vess	el ER FI	REEMAN	Proj. & Le	g)4-04	Ev	/ent# 238	Vesse	Sta. I.D.	Instru	uctions				Sta. D	esignation	on			
	nsec. ist #		Latit		N or		itude E	Date	JD = Mo.		Tin GM Hr.		Dry Bulb	Wet Bulb	Bar. mb	Wind	Wind B	Meath Dept	tom	Sta. Nan or I.D			
	g	-	531	ПТ	N	16863	7 7 7	 	APR	r 1	02	12	10	06	1	2713		1 1 1 1	45	1 6	į		
Ту	C pe & S	TD SN_	91220-A		_		M on Deck		Checks	s Surfac		1	mes a on	JD/Time	Tar	e/Diskette	Data Lo	ocation File Nar	5 O ne/Head	ler			
			26072		_		on Deck		at	. Sur IaC	. C	1	rface		'"	oci Diskecce		casto			5 2		
Те	mp. S	SN_	701		_	Press	<u> </u>						own										
C	ond. S	SN_	304 30	3	-	Temp	 					-	tom										
7					- 1	Cond							t Up rface		Rema	arks						la t	1.0
					-	Other			.551			- Dat	a off						29	atu	-	Chy	Ab.
os.	D - 4	T	Trip Depth	Tin	1e @	N			Values					Values-CT		€ Lor Sar			Sal.	Other Samp.	10	ĺ	
			114.5	00 113	Tri	ip Press	s. Tem	ip.	Cond.	Oth	ner	Press.	Temp.	Cond.	Sal.	Therm-P	AVEIW	Sal.		Janip.	+-		53:
1	28	A	习编	- 35								136328	3,949	30.812	32.913	0,089			58	X			
2			175									74.865	3.159	29.672	32.337	6.315				176	2		-
3	H A	ģij.	50									49.989	3.123	29.622	32.366	0.358		\	_	175	3	Chl	
4	1		35			r						34.875	2.706	29.381	32,299	0.413			\	174	4	Chl	
5			80									10,268	2.856	29.308	32,275	6,388	24	Lugo15 -form	, _	173	5	CH	Alb
6			10					24				1,032	3.009	29.425	32,268	0.302				172	6	Cul	Ab
7			0		-												ļ		<u> </u>	<u> </u>	7	_	
8		_									ŷ.		24.						<u> </u>	_	8	_	
9			ļ	ļ				N			Ÿ						ļ		<u> </u>	<u> </u>	9	-	
10								\perp				<u>.</u>				ļ		1:			10	4	
11			ļ		<u> </u>												ļ			<u> </u>	111	-	
12				25					8												12		
			·																Initials			19	

C	onsec.	Cast	# 010	Vesse		REEMAN	Proj.	& Leg MF-94	-04	Ev	vent#	Vessel	Sta. I.D.	Instr	uctions						Sta. D	esignatio	on 			
	nsec. st #	De	Latit		N or		ngitude		Date	JD =		Tim GM Hr.	Т	Dry Bulb	Wet Bulb	ရရွ္ 3 Bar. mb	S. S. Vis.	Wind Dir.	Wind Sp.	Cloud	Meat Dept		Sta. Nam or I.D		-	
0	10	5	5 0 e	16	N	1670	33	5 W	/ ୫	APR	9 4	03	3 5	1 9	4 3	96	46	292	22	37	5 1	58	300	1		
1		-	1220-A				<u></u>		nitor	Check			1	-	D/Time		- (D:		Data	_oca(/1.1			383	
P	ess. SI	N_2	6072		-			Deck		at	Surfac	:e		a on face			Γape/Di	iskette i	i.D.		File Nan			•		
Те	mp. Sl	N_Z	01	aD	-	Press			_							- -			24	-						
C	ond. Si	N <u></u> ≯	04 30	.	-	Temp						226		: Up			marks									
					-	Cond Other_						7 1	•	face a off		Re	marks				Phyto/w	(s.Lo: ls	n h s			
Š		Т	Trip	Tim	e @			Mon	itor V	alues		1-3/		onv. Mon.	Values-CT				nple Bo		ta	Sal.	Other	S.	Chl	INuts
8	Bot.	₹ack	Depth	Depth	Tri	p Pre	ess.	Temp	. (Cond.	Oth	her	Press.	Temp.	Cond.	Sal.	The	erm-P	Avg T	* 	Sal.	Bot. #	Samp.	1		181
44	Ý		150									11	49,568	3,886	30,825	321.98	5 6,0	6 78	-66							
2	- 12 12	Æ	145								Q I Intida	7	€0£,Z§	3,540	30,693	32.492	2 0,	206	•			18		2		180
3)))	50							Th.		2	49,853	3.583	30,692	32.469	0.	282						3	A	
4	THE S		35			8			T				35.278	3,486	29,873	132,310	7 0.	452						4	4	179
5	-0.5		10		X					E A	É	_	10,259	3,296	29,567	32,147	0	407	经		phytoforin	39	A	5	4	178
6			0						R			547	0,699	3.367	29.536	32,65	6	,328					A	6	X	1नन
7					1.6					ş			in :0			ļ <u>-</u>							ļ	7		1
8								74						Za		<u> </u>				4	·	ļ	<u> </u>	8		
9	1																							9		
10							3														Ē			10		
11				id)																				11		
12															4							اماداد		12		

Initials _____

rg. <u>io</u> of ____

																rg.	<u> </u>	of	=
Con	sec.	Cast	# 51	Vesse	:l	Pr	oj. & Leg MF-94-		ent# Ves	sel Sta. I.D.	Instru	ictions				Sta. De	signatio	on 31	HV
Cons Cast	sec.	l	Latit	ude Min.	N or S De	Longitu	de E D	Date JD =	108 T	ime GMT Min.	Dry Bulb	Wet Bulb	৭৭ ৪ ব Bar. mb	Wind	Wind Pao	Botto Depth	m S	Sta. Nam or I.D	
01	1	5		11.	NΛ	4724	60W1	8 A P R	940	548	13	07		16300			38	3 1 0	
Tvoo	CŢ	D 9	1220-A	NL	*	<u>, jl., i</u>	Mon	itor Check		Ti	-	D/Time			Data Lo		•••	123	
			6072		<u>-</u>	o	on Deck	at	Surface		a on face		Taş	oe/Diskette	I.D.	File Name			7
Tem	p. S	N_7	01	2	-	ress			2	- Start D	own					<u></u>	- 101	4. 33	
Con	d. S	N_ -	104 30	3		emp ond				Stan	tom t Up								
						ther					rface a off		- Rem	ai KS					
S B		T	Trip	Tim	e @	8	Monito	or Values		С	onv. Mon.	Values-C			nple Bot.[Other Samp.	Pos.
- B	ot.	Kack	20	Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Iw	Sal.	BUL. #	Jamp.	
2		٨	30cs	5:52.	5:57:					Im- 005	2.022	3-000	33,059	450,0			12		2
		A	1000	00	20				1	150.285	3.773	30,792	23,057	0,044				-5	3
3			75	75		E 55												Che	4
4	20		50	55							.A. T							+	
5			35	34												1.1.ng/6/	-	Chl	
6		8	10	* * / ts									ļ			Lugors/Phyto	FORM	(h)	1.
7			0	6														Chl	T
8																			8
																		1	
9									.88								<u> </u>		9
9									.89							77.0			10
-									- 10		1					7v_			\vdash

															. 6. —	<u> </u>	of	
Consec	.Cast #	Vesse	el ER FRE		oj. & Leg MF-94-(rent# Ve	essel Sta. I.D.	Instru	ections					Sta. Desig	nation	n 	
Consec. Cast #	1	itude Min.	N or	Longitud	de E D	Pate JD =	80	Time GMT r. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind		Type Weath.	Bottom Depth, n		a. Nam or I.D	e
012	543	8 3 7	N	68094	+2W1	8 A P R	9 4 1	0320	0 5	- 1 0	064	731	0288	77	1760	ו	336	$\bar{\mathcal{V}}_i$
Type & S	D 91220	-A				itor Checks		l l	mes a on	D/Time	Tar	e/Diskette	Data Lo		n ile Name/l	Heade	sr	
Press. S Temp. S	N_26072		-	or Press emp	n Deck	la Transition	Surface	at Sui Start D at Bot	rface own tom			Jey Diskett			1012_18/			1
			_ <	Cond Other				at Su			Rema	arks LIGH	THETER,	LUOR	ome Ter,		AM	
			_ 1 _	/Lilei				1/21	a Oπ									
	T Tri	Tim			Monito	or Values			a off onv. Mon.	Values-CT	 D	FLUORS	mple Bot.	Data		Sal.	Other	_
S Bot.	T Tri _l Rack Dep	Tim		Press.	Monito	Cond.	Other			Values-CT Cond.	D Sal.	Therm-P				Sal.		Pos.
So Bot.	Rack Dep	h Depth	e @				Other	С	onv. Mon. Temp.	Cond.		Therm-P				Sal.	Other	_
Bot. 1 2	Rack Dep	h Depth	e @				Other	Press. 303.361	onv. Mon. Temp.	Cond.	Sal. 33.713	Therm-P	Avg Tw		Sal. Bo	Sal.	Other Samp.	_
l -	Rack Dep	h Depth 1037230	e @				Other	Press. 303.361	onv. Mon. Temp. 3,723	Cond. 31,366	Sal. 33.713 33.202	0.031 0.102	Avg Tw		Sal. Bo	Sal. ot. #	Other Samp.	- Pos.
2	Rack Dep	(h Depth (103/2-30	e @				Other	Press. 303.361 150.834 74.926	onv. Mon. Temp. 3.723 3.610 3.685	Cond. 31.366 30.773	Sal. 33.713 33.202 32.973	0.031 0.102 0.230	Avg Tw		Sal. Bo	Sal. ot. #	Other Samp.	- Pos.
2 3	Rack Dep	(h Depth (103/2-30	e @				Other	Press. 303.361 150.834 74.926 49.329	onv. Mon. Temp. 3.723 3.610 3.685 3.646	Cond. 31.366 30.773 30.612	Sal. 33.713 33.202 32.973 32.942	0.031 0.102 0.230 0.377	Avg Tw		Sal. Bo	Sal. ot. #	Other Samp.	- Pos.
1 2 3 4	30: 15 75	(h Depth (103/2-30	e @				Other	Press. 303.361 150.834 74.926 49.329 34.687	onv. Mon. Temp. 3.723 3.610 3.685 3.646 3.675	Cond. 31.366 30.773 30.612 30.541	Sal. 33.713 33.202 32.973 32.942 32.879	0.031 0.102 0.230 0.377 0.44	Avg Tw		Sal. Bo	Sal. ot. #	Other Samp.	3 4 5

nuls: 0,10,35,76,150,300 CHL: 0,10,35,50m

II

Initials P

																				ŀ	rg. <u>13</u>	of		
Cor	isec.	Cast		Vesse			Proj.	& Leg	<u> </u>	Ev	ent#	Vessel	Sta. I.D.	Instr	uctions			• • • • • • • • • • • • • • • • • • • •			Designati			
Con Cas		De	Latit g.		N or	REEMAN Lo Deg.	ngitude	or	Date	ID =		Tim GM Hr.		Dry Bulb	Wet Bulb	Bar. mb	1 .1 1	Vind Dir.	Wind BOO	Meath.	ottom epth, m	Sta. Nam or I.D	e	e e
D	3	10.1	440	11 1	N	1659	5 1 9	4 W		,	9 4	pq	04-	04	-10	1 5	1	T	5148		58	430	77	
Тур	CT & SI	D 9	1220-A		_	-1 ! -	on l	Mo Deck	onitor	Checks	Surfac	:e	Tim Data	nes .	D/Time	_ 1	Гаре/Disk	ette	Data Lo	File N	ame/Hea	der		
	ss. St 1p. St		6072 n1		-	Press								ace						CAST 01	3_19AC	ro657	-	£
Cor	19. St 1d. St	۱ <u></u> ۱ <u>-3</u>	04 3 <i>0</i>	3	_								at Bott	om		_ _								
8.					- -	Cond Other_					 	W	at Surf	Up face off		Re	marks	L16+	CHLA	R, FLUOR	OMETE	R, 18		ESTE
S,		Т	Trip	Tin Depth	ne @	23			itor V				Co	nv. Mon.	Values-CT				nple Bot.			Other Samp.	Pos.	
<u>~</u> '	SOT. I	Саск		Depth	Tri	p Pr	ess.	Temp). (Cond.	Otl		Press.	Temp.	Cond.	Sal.	.00	Alexandria.	Avg Tw	Sal	BOL. #			
<u>:</u>		^	150										150,179	3,810	30,584	32,776					19	1349	2	
2	33	A	75										75.011	157.6	F£0,08	32.450	_	63	_	ļ	0 1	12-18	├─┤	010
3			50		ļ	- 1					ļ		50,101	3,602	30,069	32.42			<u> </u>			10 10	┝╌┥	
4			35										35, 378	3,582	30.619	32.39	1 0.4	46		1.004		1347		and
5			10						57				9.547	3.522	29,818	32,22	5 6.4	17		Lugoly	n-MM.	1346	_	4
6			0					-	85				140.0-	3,491	29,751	32,18	0 0,4	18				1345	6	Che
7													0.792	3,488	19.745	32.17	6 0,4	34				130	7	1
8														10	15								8	_
9												(a)									Λ.		9	
10								Ē						2071 207							14		10	
П														10									11	
12																				e.			12	
				·····							<u></u>			 	<u> </u>	• • •			37	III	Initials	WF		30

																		Pg	14	of	
Cons	ec.C	ast #	Ves	sel LER	EDEE		Proj. & I	eg -94-0	100.00	ent# V	essel Sta. I.D.	Instr	uctions		······································	,		Sta. Des	ignatio	n	
Conse Cast	ec.		titude Min.	N or S		Longit	tude	E D	ate $JD = \frac{10}{10}$	9	Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind	Wind Sp.	Type Weath.	Bottor Depth,		sta. Nam or I.D	e
GI	4 5	544	17	/ N	16	614	6 7	W }	q A P R	9 4 0	923	07	-08	154	732	0158	77	28	0	446	1
Pres	s. SN.	91220 26072		_		·	on Dec		tor Checks at	Surface	Da at Su	ta on rface		Тар	e/Diskette	Data Lo	F	n ile Name 7014_11			
Temp		701 304 3	03		1	ess mp						own ttom				<u> </u>					
1000 1000					Co	ond :her					at Su	t Up rface ta off			rks LIGHT CHLA	- <u> </u>		ROMET		NUT	
S Bo	ot. Ra	r Tri	th Dept	me @	rin	Press.		onito mp.	r Values Cond.	Other		Conv. Mon. Temp.	. Values-CT Cond.	Sai.	FLUOR Sai	mple Bot. Avg Tw		Sal.		Other Samp.	Pos.
		B+	3						00110.				31,147							1350	1
2	7 Yes	15										3.617		33.058					33		2
3	****	7.	.0										30.473							1353	3
4		5	0			, ·							30.104								4
5	4	3.	5								35.090	3.607	30.059	32.414	0.726					1354	5
6		10)					-11					30.026							1355	6
7		0									0.185	3,587	30.018	52.402	0.700					1356	7
8																					8
9						atray .				Ħ										ļ	9
10																		17			10
11	_	<u> </u>						,					ļ		<u> </u>					1	11
12																					12

Initials ______

																					rg	15	of	
Co	nsec.			Vess				. & Leg			/ent#	Vessel S	Sta. I.D.	Instr	uctions		*				Sta. Des	ignatio	ก	
	isec.	De	Latit		N or S	REEMAN Lo	ngitud	MF-9 e E or W		JD =	۲r.	Time GM1 Hr.		Dry Bulb	Wet Bulb	Ba m	ır.	Wind Sizi Dir.	Wind Pno	Type Weath.	Bottor Depth,	-	ita. Nam or I.D	e
0	15	5	421	0	N	1676	003	8 W	19	Ă P R	9 4	14	24.	- 07	- 09		5 2	835	OYX	72	5,	6	460	1
_			1220-A	, ,	<u> </u>	· 1 0 10	<u> </u>	Mo	onitor	Check	\$ \$	<u></u>	Ti	mes	D/Time	- 1		1-1-1-1	Data Lo	cation			<u> </u>	
					-		on	Deck		at	Surfac	:e	Dat	ta on			Тар	e/Diskette	I.D.	Fil	e Name	/Head	er	
			6072		-	Press								rface						CAST	015-1	7APR	1413	
rer	12.qn	ソ <u>ー</u> 」 ユ	<u>01</u> 04 3 ε	3	-	Temp		•	(-)					own ttom					<u> </u>					
اب	iu. 31	<u></u>	<u> </u>		-	Ī					_			t Up		<u> </u>		1. 1.12.13	TMETE!) F.	u0004	ETE	R	
			-		-	Cond.				v.		y 11	at Su	rface		8	Kema	rks LIGH	CHLAI	7	NULLON	(iiii)		
		7 1	Trip	T:_	- ne @	Other_			itor V	alues			I	ta off	Values-CT	.D	1	FL40R Sar			1	Sal.	Other	,
<u>ଟ୍</u> ଧ	Bot. R	ack	Depth	Depth	ne @ Tr	ip Pr	ess.	Temp		Cond.	Otl	her	Press.	Temp.	Cond.		ai.	Therm-P			al.	3ot. #	Samp.	<u>a</u>
L				147555								3,	01.531	3.790	31.372	33.	593	ס.077				24	1357	ı
2		2	150									14	9.778	3.846	30.807	33.	004	0.080					1358	2
3			75			di *						7	5.785	3.677	30.315	32.	678	0.357					1359	3
1		111	50									4	9,655	3.642	30.176	32.	SII	0.431						4
5	5.2		35			12377						3	4.971	3,637	30.164	32.	610	0.478					1360	5
<u>5</u>		_	10		_			_	12			10	2005	3,496	29.453	32.	4n	0.439		ļ			1361	
1	5.5		0					1	8	3	(CE)	c	.247	3.453	29.863	32.	352	0.458					1362	
<u>}</u>							1897						T.											8
<u>'</u>									Lu.							<u> </u>	····					,		9
0									8							_			(I)		i)			10
1	\perp	4	-				10									100				×				11
2	\perp												<u> </u>			V2						nitials _		12

Initials _____

10303

	*															rg.	16_	of		
Consec. Ca	ost #	Vesse MILLE			Proj. & Leg		Event#	Vessel	Sta. I.D.	Instru	ctions	·		14		Sta. De	esignatio	on		
onsec.		tude	N or	Longit		1-0-1	=	Tim GM		Dry Bulb	Wet Bulb	Bar. mb	Wind ⊵i Dir.	Wind Sp.	Cloud	Botto Depti		Sta. Nam or I.D	ne	
165	141	196	N,	6743	7 / W	19AP	R 9 4	18	25 -	1 4	- 3/	142	8350		76	2 150	3	480	1	
CTD pe & SN_	91220-	Α		91.17.5	M	onitor Che	cks			_	D/Time				Locati			- 10	i	
pe & SN_ ress. SN_			-		on Deck		at Surfac	:e		on face		Тар	e/Diskette	I.D.		File Nam			-	
mp. SN_			F	Press						own				- 6	<u>C</u> 4	STO16	<u> </u>	<u>K/81</u> 3		
ond. SN_		03	. T	emp						tom										
			. 0	Cond						Up face		Rema	rks LIGH	TMET	GR, FL	UOROME	TER,	HLAN		2)
				Other				31	Data	a off				II =	4.5.4		l Cal	NuTS		W/0 3
Bot. Rac	Trip	Time Depth	e @	Press.	Mor Tem	itor Value Cond		her	Press.	Temp.	Values-CT Cond.	Sai.	FLUOR Sar Therm-P			Sal.	Bot. #	Other Samp.	Pos	
	300		*HP	11033.		Come				-57.0	30.907	==	4			0FF 37E33	1000	1363		
	150				3				148.616	3.956	.30.756	32.833	0.144	·	4			1364	2	- 1
	75	77							74.801	3.856	30,519	32,691	0.230					1365	3	
4400	50	444		1	111			L	19.690	3.852	30.400	32.568	0.338							Chl
	35							3	34.831	3.834	30.365	32.552	0.370			1024		1386	5	ue
	10			31					7.259	3.823	30.339	32.546	0.360	125	- PV	uty Lugat	71		- J	Cul 1
	D		78						0.242	3,888	30.392	32,548	0.315					1363		W.
																			8	
				1 35							<u></u>								9	
															3	1			10	
										1									11	
						- 1					1						1		12	

							A								= P	g. <u>17</u>	oí	
Conse		it #	Vessel			oj. & Leg MF-94-	04 Ev	/ent# 429	Vessel Sta. I.D.	Instru	ıctions				Sta. I	Designati	on	
Consec Cast #	c.	Latit	:ude	N or S De	Longitu	de E C	Date JD =		Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind B	Meath.	ttom oth, m	Sta. Nam or I.D	
01	75	3 5 8	8 9 3		67314	47W2	OAPR	9 4	1041-	06	- 24	09	28345		, , ,	9 4	560	> {
Press. Temp.	SN_ SN_	91220-4 26072 701 304 30		Те	ress	n Deck		s :Surfac	Dat at Sui Start D at Boi	mes a on rface tom t Up			pe/Diskette		File Na		21029	
									at Su	rface a off				CH-Lam			NUTS.	,
S Bot	T Racl	Trip Depth	Time Depth	@ Trip	Press.	Monitor Temp.	or Values Cond.	Oth		onv. Mon. Temp.	Values-CT Cond.	D Sal.	FLUOR San		ata Sal.	Sal. Bot. #	Other Samp.	Pos
1			104)10						301.609	3.769	31.236	33,485	0.073			27	1369	
2	×	150							150.565	3.637	30.624	32.997	0.086				1370	2
3		75							74.542	3,754	30.344	32.586	0.216				1371	3
4		50							50,215	3.749	30.289	32.539	0.307	225	lin.			4
5		35							35.332	3.717	30.185	32,459	0.405				1372	5
6	160	0	4						9.703	3.776	30.224	32,455	0.366				1373	
7		D		3		<u> </u>		~	0.046	3,774	30.219	32.456	0.336			1 10	1374	
8																		8
9														}				9
10										25.					3	9	-	10
11						-						229						11
12						<u> </u>										Initials	(60)	12

Initials ______

Sta. Designation Consec.Cast # Vessel Event# Vessel Sta. I.D. Proj. & Leg Instructions 018 MILLER FREEMAN MF-94-04 Latitude Longitude E Date JD = 110 Cloud Poil No. 4S Veath. Time Sta. Name Bottom Wind Wind Dry Wet Consec. Bar. **GMT** or I.D Depth, m Dir. Cast # Bulb Bulb mb Deg. Min. Deg. W Day Mo. Yr. Hr. Min. 580 17 0 CTD Type & SN 91220-A **Data Location Monitor Checks ID/Time** Times Tape/Diskette I.D. File Name/Header on Deck at Surface Data on Press. SN 26072 at Surface____ (AST 018 -20APR 1454 Temp. SN 701 Start Down____ Cond. SN 304 303 at Bottom____ Temp. _____ Remarks LIGHTMETER, FLUOROMETER, CHLAM Start Up_____ Cond._____ at Surface_____ Other_ Data off Sal. Other Samp. Sal. Other FLUOR Sample Bot. Data **Monitor Values** Conv. Mon. Values-CTD Trip Time @ Bot. Rack Depth Depth Trip Therm-P Avg Tw Temp. Cond. Sal. Sal. Temp. Cond. Other Press. Press. 300.323 3.808 31.300 33.548 0.076 300 1375 2 149.884 3.571 30.614 33.052 0.098 1376 150 13 77 3 76.457 3.788 30.483 32.716 0.136 75 50.076 3.644 30.177 32.510 0.256 50 22 13 70 35 35.131 3.697 30.179 32.467 0.301 3.419 29.718 32.206 0.563 9.881 6 10 1379 13 80 7 -0.555 3.415 24.709 32.205 0.586 0 8 8 9 10 10 Ш П 12

Initials _____

rg. <u>19</u> of ____

W/0 304

																	Pg.	19_	of		
Consec.C	ast # 019	Vesse			oj. & Leg MF-94-	04 E	vent#	Vessel Sta. I.	O. In	structions	11.00	7 10	3/8/2			= =	Sta. De	signatio	on		2
Consec.		titude	N or	Longitu eg.	de E I	Date JD =	ł	Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar.	S. S. Vis.	Wind Dir.	Wind Sp.	Cloud	ype Weath.	Botto Depth		Sta. Nam or I.D	ne	t.
019	542	890	N 1	6661	40 W 2	GAPR	9 4	1927	- 0	4 - 1 6	9	27	3 5 e		1	_1	5 3	3 7	606	H	
CTD Type & SN	91220	-A		_		itor Check	s t Surface		Times	JD/Time	<u></u>	/D	iskette	Data	Loc		n ile Nam	مرالامم	<u></u>		
Press. SN. Temp. SN.	26072		P	Press	n Deck			at	Surface		_ _'	ipe/ D	iskette				1019_	•		ļ	
Cond. SN		03		emp					Bottom tart Up						- ^						
				Cond Other				at			Ren	narks	LIGHT	CH			_40R0	Mete	NUTS		W10 305
ر ا ا	T Trip	Time	_	T		or Values			Conv. M	on. Values-C1			10RSan						Other	1 2 1	305
Bot. Ra	ck Dept	h Depth	Trip	Press.	Temp.	Cond.	Oth	er Press	Tem	p. Cond.	Sal.	14	erm-P	Avg T	w		Sal.	Bot. #	Samp.	<u>a</u>	
1	300) Professor						300.31	8 3.79	+ 31.152	33.387	0,0	073	4					1386		
2 P	15	0 143530						151.00	0 3.886	30715	32.854	.10	8	•		0.2		08	1385	\vdash	
3	75	#E \$1			ļ			75.39	8 3.674	+ 30.233	32.533	0.	245						1387	Н	=
4	50	#6 #6		72	ļ			49.81	0 3,64	1 30.143	32.47	3 0.	356				-				Ohl
5	35							35.18	4 3.67	6 30.154	32.459	0.	411			.	W- /				Clil
6	10							10.03	4 3,23	4 39.768	31,850	0.	394			Lugo	Play D		1382	6	Che Aps
7	0			<u> </u>				0.36	7 3,22	5 24.255	31.848	3 0.	383	WE		-			1381	1	Che AG
8				ļ							ļ	\bot					_			8	
9				<u> </u>								_						ļ <u>.</u>		9	
10	<u> </u>				ļ				in			\bot	ı				ñ			10	
11					ļ	ļ	 												ļ <u>.</u>	11	
12	ı																		1	12	

C	onsed	Cast	# 20	Vessel MILLER	FREEMAN	Proj. & Le	eg 94–04	Ev 4	ent# SS	Vessel	Sta. I.D.	Instr	ructions				Sta	a. Designati	on	
	nsec st #		Latitu g.	u de N or Min. S		n gitude E o V	r	JD = Mo.	Yr.	Tim GMT Hr.		Dry Bulb	Wet Bulb	Bar. mb	Wind Si ≥ Dir.	Wind p Sp. O	Type Weath.	Bottom Depth, m	Sta. Nan or I.D	
	2 0	5	434	98N	1654	1/384	20	APR	9 4	21	56	00	-06	093	4350	168	77	3606	611	e 1
			1220-A 6072		52	on Deck		Checks at	Surfac	:e	Data	nes a on face		Тар	e/Diskette	Data Loc I.D.	File I	Name/Hea		211141
Те	mp. S	N_7	01		Press			-			Start De	own						to20-7		
C	ond. S	N_3	04 30	3								tom : Up							w/o 3	308
					Cond Other_						at Sur Data	face a off		Rema					Nut.	
Pos.	Bot.	T Rack	Trip Depth	Time (nin Pre	Mo ess. Ten	nitor V	Talues Cond.	Otl	her	Press.	Temp.	. Values-CT Cond.	D Sal.	San Therm-P	nple Bot.D Avg Tw	ata Sal.	Sal. Bot. #	Other Samp.	Pos
1	State of the last		300	Ворен			·F'	Cond.			0,00	3,826	31.221	33,443	0.075				1392	
2			150							8	56.815		30.463	32,689	0.164				1391	2
3			75									3,538	29.897	32, 269	0.162				1390	1
4		- 	50		2. 77				// - 58	9	50.459	3.425	29.648	32.697	0,307					4
5	- 14		35				7		10-	4	34,964	3.428	29,615	32,062	6.376				1389	5
6			10								9,943	3,225	29.264	31,251	0.451			13	1386	6
7			0	18.							5,944	3.201	29, 226	31.837	6.321				1387	7
8										=										8
9																				9
10	I																	# E		10
Ш																				11
12						2					3 -									12
																			/	

Initials DK/WK

. . 70

Со	nsec	Cas		Vesse MILLE		EEMANI	Proj. & L	.eg -94-04	Ε	vent#	Vessel Sta. I.D.	Instr	ructions				Sta. D	esignatio	on			
	nsec. st #		Lati	tude	N or		gitude	E Date	JD =		Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind في الكان كان الكان ال		Bott Meath Dept		Sta. Nan or I.D			
6	21	5	443	3 48			7 18					04	_ 0 2	208	3 6 3 5		7 7 1		620	2	:	
			1220-		-		on Dec	<mark>Monito</mark> r k		k s it Surfac	i i		JD/Time	Ta	pe/Diskette	Data Lo	cation File Nan	ne/Head	ier			
			26072 '01		:	Press								1		<u></u>	Cast 021	_21AF	v 0130	•		
			104 30				<u> </u>															
_						Cond Other					at Su	rface		Rem	arks				NUT	-<	Ch	J.
S.	Dat	T	Trip	Time Depth			M	onitor V			.0	onv. Mon	. Values-C			nple Bot.[Data	Sal. Bot. #				
1	BOL.	Nack	143	01:11:	Trip	Press	s. le	mp. (Cond.	Oth	16 40 VX or 5 1	Temp. 3,450	A Past Chin	Sal.	Therm-P	Avg Tw	Sal.	Bot. #	1393		P	
2		^	75	0) 'US'							116,546 75,495	ben signed		32,360	6,274			4	1394	1 1	P	
3			50	0-1							50.968	NAME OF STREET	29,177	31,813	0,353				- 1	3	Y	
4			35			1					35,145	3,122	NUMBER OF STREET		6.467				1395	4	P	
5		9/ S = 8	0			uite.					91667	3.128	29.136	31,796	6,450		Phytoforn Lugols		1396	5	p	
6			0		8						6,888	31139	29,146	31,795	0.326				1397	. 6	Y	1
7	F		a																	7		
8		= 0																		8		
9								X S		1 50										9		
0																	93			10		
-4			1	1 1										}	1					111		
11										-	<u> </u>			 	.			+		+	ł	

01 _____

Cor	isec.	Cast	#	Vesse		REEMAN	Pro	j. & Leg MF-9		Ev	ent#	Vesse	el Sta. I.D.	Instr	uctions						Sta	Designat	ion	
on: Cast	sec.	De	Latit		N or		gitud		Date	ID =		GI	me MT Min.	Dry Bulb	Wet Bulb	Bar. mb		Vind Dir.	Wind Sp.	Type	Weath.	ottom epth, m	Sta. Nan or I.D	
0 2	12	-	45	999	N	1680	8 2	a w	211	APR	9 4	17	40 -	26	-37	+	383	50	1 1	9		651	680	23
_	_	_	1220-A		1	· In Inla	lo llo	Me	onitor	Checks			Ti	nes	JD/Time	1		-	Data L	ocatio				
			6072		-		on	Deck		at	Surface	е	1	a on		Ta	pe/Disk	ette	I.D.			lame/Hea	_	
		N_7				Press							at Sur Start D	face own		_		VC.		CA	15T02	2-21AP	R 1733	
	•		04 30	3		Temp							_ at Bot								10 Mart 1 Mar			\Box
			<u></u>		U/d	Cond							at Sur	: Up face		Rem	arks L	GHT	METER	, FLV	IDR OF	ABTER,		185
_						Other_		1.0					_ Dat	a off	V.I. 6=		I	n C	mla Des	Det		Sal.	Other	
	ot.	T Rack	Trip Depth	Tim- Depth		p Pre	ss.	Temp	itor V	alues Cond.	Oth	er	Press.	Temp.	Values-CT Cond.	Sal.	Ther		nple Bot Avg Tw		Sal.		# Samp.	1 0 1
			70										70.112	3,634	30.562	32.968	0.1	82					1398	ı
2			50		400000							9	59.696	3.629	30.526	37.436	0.2	30						2
			40									7	50.331	3,596	30.477	32,916	0.2	31					1399	3
	4		30									6	40.684	3.575	30,449	32.909	0.7	80					1399	4
	19	Ш	20				900					1	29,834	3.581	30,449	32.908	0.7	89						5
			10									./	20.803	3,585	30,446	32,906	0.2	81				A I		6
			0								11.1	1	9,968	3,521	30,247	32.737	0.3	49	la .			05	140	7
			10.000									./	-0.092	3,509	30,725	30.775	0.3	16					140	8
																								9
			18.792																					10
1																								11
2			a - 0,5									14,002,004		25.0										12
					V-5200			- 3 43							sid.	- 3						Initials	(14)	

· 6 22 -- ___

C	onsec	.Cast	# 02	3 Vesse	l R FREI	Pro EMAN	oj. & Leg MF-9 ^L		Eve	nt#	Vessel S	ta. I.D). 	Instr	ructions					Sta. Desi	gnatio	on 	
Co	Consec. Cast # Deg. Min. S					Longitue eg.	de E or		JD =	Yr.	Time GMT Hr. I		Dry Bull		Wet Bulb	Bar. mb /ぁパ.を	Wind Dir.	Wind Sp.	Type Weath.	Botton Depth,		Sta. Nam or I.D	
0	23	5	45°	1 5	N I	6808	7 7 W	21	APR	9 4	195	0	- 3	٥	- 4 5	12	3835			154	2	684	5
Ty _l Pr	C pe & S ress. S	N 9	1220-A 6072		-	0			Checks	iurfac		T Da	Times ata on_ urface_		JD/Time	Ta	pe/Diskette	Data Local.D.	Fil	le Name/	Head	der Nov 19	43
	mp. S ond. S		01 04 3 <i>0</i>	3	T	ress emp Cond			5			at Bo				Ren	narks 2 bott	es Com	hune	d for	4 to	tal	
		-	Tuin		. 0	Other]	D:	ata off.		. Values-C1	M2	samples. Lugois	Remain nple Bot.	~5	bottle	50-11	MPEGLTI	<i>y</i>
Pos.	Bot.	l Rack	Trip Depth	Time Depth	e @ Trip	Press.	Temp	itor V	Cond.	Otl	her F	ress.		emp.	Cond.	Sal.		Avg Tw		al. B	ot. #	Other Samp.	å
1			10	J.,			8			2 -	טן	1207	3.5	lo	30,224	32,722	6.262						1
2		7	10								10	.115	3,5	10	34,123	32.721	0.249				3		2
3	B A	1 100	10		1				III,		lo	.183	3.	510	30,222	32.718	0,245					T R	3
4		Signal	10				\$5 111				16	,342	3,5	509	30,220	32,918	0,236						4
5			IP								lo	.197	3.	509	30,220	12,718	0.235	Will	E = T	22 E			5
6			10								10	>,195	3.9	510	30,221	32,718	0.247						6
7	c 1		D		E ø						1	831.4	3,4	569	30.217	32,715	6,246		E.				7
8			D								10	6,182	3.	569	30,216	32,713	0,242						8
9		A	10	19:52:	19157				47	Y.	. 1	0.142	3.	202	30,214	32,711	0,246				١		9
10																				14			10
II																							11
12																							12

C	onsec	Cast	(2)	Vesse MILL	el ER FR	REEMAN	Pro	j. & Leg MF-94		E	vent# 499	Ve ssel	Sta. I.D.	Ins	tructions		_		S	ta. Des	ignatio	nc	
Co	onsec.		Latit		N or S	Lo Deg.	ongitud	e E or W	Date	JD =	Yr.	Tim GM Hr.	т	Dry Bulb	Wet Bulb	Bar. mb । वसः ध	Wind Si Dir.	Wind Pio	Type Weath.	Bottor Depth,		Sta. Nam or I.D	
	2 4	5	458	2 2 2	N	168	989	1 W	21	APR	9 4	20	3 1	- 29	- 4 3	11	3835	2147	દ્વા	60	0	680	6
Ту	C pe & S	TD 9	1220-A	\	-	,	2.1		nitor	Check	s Surfac	·e		imes ta on	JD/Time	Ta	pe/Diskette	Data Lo		Name	/Heac	ler	
1					-								1	ırface					Cod	4034-	- 21 AF	w 2023	7
					-																		
C	ond. S	N_ -	44 36)3	-	•						201		ttom						. 2) 4			
-					-	Cond					-					Rem	arks 2 boths makes . R. for Lus	emalinu	ng bo	the 47	SOM	Flech	
Cast # I						Other.								ta off			for Lug	015				T	
os.	Bot	T	Trip	Tim	e @				itor V		1 0.1				n. Values-C	TD	fluor Sai	nple Bot.[Data		Sal.	Other Samp.	os.
٩	BUL.	Nack	Depth	Depth	Iri	p Pi	ress.	Temp		Cond.	Ot		Press.	Temp	Cond.	Sal.	Haerm-P	Avg Tw	Sa		30L. #	Samp.	-
1			20									!	9,462	3,554	30,907	32,775	0,343						-
2		##-XF	10									!	9.550	3,551	30.310	32.776	0.363						2
3		W.	20										19.654	3.556	10.327	32.793	6.347						3
4		20 30	20		ų.								19.738	3,558	30.330	32.795	0.345						4
5			20									1	9.765	3.559	30,330	32.794	0.354						5
6			20						30		2		A.776	3.561	30,325	32785	6,357						6
7			20		014								19.863	3, 545	30,332	32.790	0.358		9			L "	7
8			20	2 -		п							19,763	3.545	30.337	32,797	6,337	9			8 _		8
9		4	20										19,828	3.564	30,337	32.798	0.355		W.		3		9
10		8 =																					10
11																							11
12																							12

Initials <u>WF</u>

6 <u>24</u> .__

C	onsed	.Cast	#029	Vessel MILLER	FREEMAN	Proj	. & Leg MF-94		Ev	ent#	Vesse	el Sta. I.D.	Instr	uctions				1	Sta. Des	signatio	on 	
Co	nsec st #	De		ude N or Min. S		ngitude			JD = Mo.	Yr.	Tiı Gl Hr.	me MT Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Si Si Dir.	Wind ProjU	Type Weath.	Botto Depth		Sta. Nam or I.D	ie .
	25	5	450	56N	168	161	4 W	21	A P R	9 4	21	5 2 -	2 5	- 3 6	1/3	3 4 5			152		694	12
Pr Te	ess. S mp. S	SN_2 SN_7	1220-A 6072 01	<u> </u>	Press Temp		Deck			Surfac	e	Data at Sur Start Do at Bot	on face own tom		Тар	oe/Diskette	Data Loc	File	e Name	/Head	ler Apr 2	48
_					Cond							at Sur	Up face off		Rema	arks 2 botto	es comporte s	bine	UDUTOV	ح لـاسح	9(5	
os.	Bot	T	Trip	Time (@ P			itor V		Otl		Press.	onv. Mon Temp.	. Values-CT Cond.	D Sal.	San Therm-P	n ple Bot .D Avg Tw		al.	Sal. Bot.#	Other Samp.	Pos.
<u> Р</u>	DOL.	Nack	Jo	Depth	rip Pr	ress.	Temp	-	Cond.	Oti	ner	30,377	3,526	30,3180	32,882	0,341	AVE 144	3	al.	300. 1		1
2			3									H. H. H.	3,525	30.382	Harasan A	0,368						2
3		24	30									30,310	3,526	30 382	32,884 32,884						<u> </u>	3
4			30	7								30,286	3,526	30,382	32.884	0,422						4
5	D. Corr		30		- 200				5 0			30,299	3,525	30,363	32,886	0,336	30					5
6		10-	30						-			30,303	3,525	30,384	37.884	o,356		1				6
7			30						Λ.			30,352	3,526	30383	22,886							7
8			30									30.931	3,546	30,384			数 ————————————————————————————————————			7		8
9												30,917	3.525			1				35		9
			30	2)						-		30,217	3.345	75,754	32.886	0,361			8 8	33		10
10								-											+61			11
11																					-	-
12																<u> </u>				aitiale	WE	12

C	onsec	Casi	* 02 0	Vesse	l R FRI	EMAN	roj. & Leg MF-94	-04	Eveni 513	t# Ve: 3	ssel Sta. I.D.	Instr	uctions					Sta. De	esignati	on	
	nsec st #		Latit	ude Min.	N or	Longit Deg.	ude E or		JD = Mo. Y		Time GMT . Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind Pao	Type Weath.	Botto Depth		Sta. Nam or I.D	
	20	S	458	94	N /	८ १ ८ १	w 8 B	2 1 A	PR 9	4 2	224-	31	- 4 0	113	8345	147	8 1	15	74	694	, 3
Tv	C ne &	TD 9	1220-A	١				nitor (Checks				JD/Time		(D: 1	Data Lo			.		
P	ess.	SN_2	6072		_		on Deck		at Su	rtace		a on face		ap	e/Diskette	I.D.		ile Nam	-	der 21 flor 2	220
		SN_7			- [- Start D	own						-3.0			
C	ond. S	SN_3	36)3								tom t Up						11 A 10	-		
-											at Sui	face		Rema 2 box	irks them tes sampli te Same	editor 4+	du.t	HE F	Temai	nerg	-
_		T -	Trip	T:			Moni	tor Va	·luca			a off	. Values-CT	both	te Same	nple Bot.	huot Data	\$	Sal.	Other	
Pos.	Bot.	Rack	Depth	Tim Depth	e @ Trip	Press.	Temp.			Other	Press.	Temp.	Cond.	Sal.	Therm-P			Sal.	Bot. #	Other Samp.	å
ı			40	S 11		141					41.471	3.572	30,451	32,913	0.180	3					ı
2			收								41.137	3,573	30,450	32912	6.302						2
3		Mas :	40		il x						40,873	3.573	30,450	32.912	0.288						3
4		V = 10	40								40.773	3,573	30.450	32,912	0.292						4
5	100		Ho			12					41.035	3,573	30,450	32.912	0.305		8 2				5
6			40								40,837	3,573	30.450	32,912	0.194						6
7			40	1936							40.970	3,573	30.450	32,912	0.307				W		7
8			40								46.781	3,574	30.451	32,912	6.301						8
9			40	٦٤:50						3.4	40,819	3.574	30,451	12.911	6,272				32		9
10						77															10
II																					11
12			1																		12

Consec. Cast # Deg. Min. S Deg. Date JD = Time GMT Min. Pull Bulb Bulb Bulb Bulb Bulb Bulb Bulb B		Sta. Na or I.I	D	1 1						1				+-04	MF-94	REEMAN	ER FI	' IMILLE	-			C
CTD 91220-A Press. SN 26072 Press. Start Up Start Bottom Start Up Star	\$ 4 2			Weath.	Wind Po		ar.	'l n			MT	G	•	Date	itude E or	Long	N or	ude				
Type & SN 91220-A On Deck at Surface Data on at Surface Start Down Start Up at Surface Other		76	1565	811	5 1 2 7	9340	23	1	- 3 7	30	3 5 4 -	4 2 3	PR	3/1	3 5 W	1681	N	8 9	60	5 9	27	đ
Press. SN 26072						(D)	_		JD/Time					nitor				•	220-A	ID 9	C	Tv
Start Down Start Down Start Down Start Up Sta					I.D.	e/Diskette	Тар				1	face	at Si		on Deck		_					
Start Up at Surface Data off Sample Bot. Data Sal. Other Depth Trip Press. Temp. Cond. Other Conv. Mon. Values-CTD Sample Bot. Data Sal. Other Sal. Other Sal. Other O	_									оwп	- Start D						_					
Cond. Other Other Data off Conv. Mon. Values-CTD Sample Bot. Data Sal.																•	-	3	<u> 30.</u>	N_ -3	ond. S	C
T Trip Time @ Monitor Values Conv. Mon. Values-CTD Sample Bot. Data Sal. O Sal. Therm. Avg Tw Sal. Bot. # Sal. O Sal. Therm. Avg Tw Sal. O Sal. Therm. Avg Tw Sal. O Sal. Therm. Avg Tw Sal. O Sal.	wor-	plsticu	1215 + Eugo	NEL , MY	of with of	rks no &	Rema			face	at Sur			 .			-					_
2 Bot. Rack Depth Depth Trip Press. Temp. Cond. Other Press. Temp. Cond. Sal. Therm-P Avg Tw Sal. Bot. # Sal. 1 A 76 55:30	1 (1)			ata	nple Bot.D			D	. Values-CT				lues	itor V	Mon	Other	- ne @	Tim	Trip	Ť	ī	-
2 50 49.731 3.654 30.447 32.913 0.268 39.830 3.565 30.443 32.912 6.894 29.690 3.568 30.440 32.912 0.308 5 10 29.690 3.568 30.440 32.912 0.308 5 10 20.033 3.561 36.393 32.866 0.359 6 10 9.726 3.526 70.178 32.651 0.213 7 0.903 3.535 30.181 32.649 0.177	np. 🛋	# Samp	J. Bot. #	Sal	Avg Tw	Therm-P	Sal.		Cond.	Temp.	Press.	Other	ond.). (. Temp	ip Press	Tri	Depth	Depth	Rack	Bot.	Po
3 40 39.830 3.565 30.443 32.912 6.294 29.690 3.568 30.440 32.912 0.308 29.690 3.568 30.440 32.912 0.308 20.033 3.561 36.393 32.866 0.359 20.033 3.526 36.178 32.651 0.213 26.903 3.535 30.181 32.649 0.137			12			0.218	941	32,	30,533	3.627	70.302							55:30	76	A	4	1.
4 30 29.690 3.568 30,440 32,912 0.308 20.033 3.561 36.393 32.866 0.359 20.033 3.561 36.393 32.866 0.359 20.033 3.526 30.178 32.651 6.213 20.033 3.535 30.181 32.649 0.177	2					0.268	.913	32	30.447	3.654	49.731								50	S. American		2
5	3					6.294	912	32.	30,443	3.545	39.830								40			3
6 D 9.726 3.525 30.178 32.651 0.213 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4					0,308	712	32,	30,440	3,568	29.690								30			4
7 0 0,903 3,535 30,181 32,649 0,177	5					0,359	866	32.	36.393	3.561	20.033					18:			20			5
	6					0.213	લ્કા	32.	30,178	3.525	9.726								O			6
8	7		440			0,177	649	32.	30.181	3,535	0,903						77		0			7
	8																					8
	9	i.	1.7									55.55								A		9
10	10																					10
	11																					11
																						12

C	onsec	Cast	# \$29	Vessel MILLER	FRFFM	Pι	oj. & Leg MF-9 ^L		E	vent#	Vessel S	Sta. I.D.	Insti	ructions				St	a. Designat	ion	
Co	onsec. ast #	- [ude N O Min.	`	Longitu			JD =	Yr.	Time GMT Hr.	Г	Dry Bulb	Wet Bulb	Bar. mb /01/.3	Wind Dir.	Wind Pao	Weath.	Bottom Depth, m	Sta. Nan or I.D	
0	2 ક	5	566	3 6 1 1	1 16	8/6	2 8 W	22	APR	9 4	00	35 -	. 27	- 2 9		3 8 3 4 5	106	311	5 5 2	7 4 4	13
Ту	C pe & S	TD 9	1220-A				on Deck			Surfac	:e	Dat	mes a on rface	-	Ta _l	pe/Diskette	Data Loc I.D.	File	Name/He	ader 2 Apr- ^{©©}	>31
		SN_7 SN_ 3	01 04 3 <i>C</i>	3	Tem	np						at Bot	tom t Up								
_					Oth							at Sur Dat	rface a off		146	arks Combu	M REMA	NING.	BOTTLE		
Pos.	Bot.	T Rack	Trip	Time Depth	@ Trip	Press.	Mon Temp	itor V	alues Cond.	Otl	ner	C Press.	onv. Mon Temp.	. Values-CT Cond.	D Sal.	Therm-P	nple Bot.D Avg Tw	ata Sal.	Bot.	Other # Samp.	Pos.
1			50	Бери	ПР	11033.	Temp		JOHA.	0.	33 AM	0.320	850 II - II	30.471	32,920	0,251	4	Out.	17		1
2		A Salar	50			9					5	0.405	3.586	30.472	32,920	0,241					2
3		5 = 6	50								S	0.471	3,585	30.471	32.920	0.248					3
4			50			i.	-W				5	0.375	3,585	30.421	32.920	0,240					4
5	3		50			26-		īi Ü			5	0.512	3.586	30.471	32,920	01231		_			5
6			50								5	0.402	3.586	30.472	32.920	0.236					6
7			50								5	0,347	3,585	30.471	31.920	0.235					7
8			50	n of							5	474	3,586	30,471	32,919	0.234					8
9			50								5	6,494	3.585	30,471	32,920	0.246					9
10																			w I		10
11								_													11
12																					12

0 18 ----

																	Pg. <u>2</u>	<u>.9_</u>	<u> </u>	
Co	onsec	Cast	# 429	Vessel	FREEMAN	Proj. & Leg		Event	# Ve	ssel Sta. I.D.	Instr	uctions				S	ta. Desig	natio	1	
	nsec. st #	De	Latitu		Lon	gitude E or W	Date	JD = Mo. Yr		Time GMT . Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Si Dir.	Wind Bo	Weath.	Bottom Depth, n		a. Nam or I.D	e
6	29	5	459	94 N	1681	0 0 I W	22	APR9	4 0	108-	2 5	- 3 7	1 1 3	8345		-الــــــــــــــــــــــــــــــــــــ	149	á	706	4
Pr Te	ess. S mp. S	N_2 N_7			Cond	on Deck		Checks at Sur	face	Data at Surf Start Do at Boto Start at Surf	on			rks COMBII	Data Localida Localid	File	e Name/	-2'	Apre	
			T.:.		Other_		nitor V				off	Values-CT			nple Bot.D			Sal.	Other	·S
Pos.	ond. SN 303 T Trip Time Bot. Rack Depth Depth 74				@ Trip Pre				Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sa		ot. #	Other Samp.	8
-		-	VI. 198							70.565	3.616	30,552	32,974	6,193				1,0		1
2		WII S	76					120		70.637	3,601	30.542	32,978	0,184		 .				2
3		Test	74		= 1					70,727	3.600	30.542	32.979	0,174						3
4	1		74	=	ŧ	П			.=	70,906	3,595	30,539	32,980	6,176						4
5			74		75)					70.654	3.596	30,540	32,979	0.175						5
6		_	74	8			60			70,754	3.587	30.534	32,982	0,174			99			6
7			74	5						70.665	3,582	30,530	32,983	0,176					<u> </u>	7
8			74							70,781	3.580	30,529	32,983	0.164	= ×	<u>.</u>				8
9			74	= 8 ₽					35	70.907	3.576	30,526	32985	0,170					_	9
10											315			6.			11			10
11											본			 						11
12					1													<u>.</u>	WE	12

Consec.Cast # Vessel | Proj. Proj. & Leg MF-94-04 Sta. Designation Vessel Sta. I.D. Event# Instructions 527 Latitude Longitude E Date ID = Time Weath. Sta. Name **Bottom** Dry Wet Wind Bar. Consec. **GMT** mb S si Dir. or I.D Depth, m Bulb Bulb Cast # Deg. Min. S Deg. W Day Mo. Yr. Hr. Min. 7005 3 7 CTD Type & SN 91220-A **Data Location Monitor Checks** JD/Time Times Tape/Diskette I.D. File Name/Header Data on_____ at Surface on Deck Press. SN 26072 cost 030 - 22 Apr at Surface_____ Press. ______ Temp. SN _ 701 Start Down____ at Bottom____ Cond. SN 303 Temp. _____ Start Up_____ Remarks Cond. at Surface_____ Other________ Data off_____ Other Conv. Mon. Values-CTD Sample Bot. Data Sal. **Monitor Values** Trip Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Press. Temp. Cond. Sal. Therm-P Avg Tw Sal. Other Cond. Press. Temp. I 'HQ' 3,688 6,100 DI. 892 33,146 34771 100 25 Che CheoIs MOSED 2 70 3.596 30,482 32,922 3 50 0,243 49.940 30.467 39.879 182.8 32,915 0.257 4 BIO 6,330 3,580 30.450 32.911 5 300 30.131 30.429 32.867 0.361 6 19.642 3,604 20 0,237 30,214 32.637 3,581 9.965 10 6.159 8 3.636 30,254 32.636 8 0.209 0 9 9 10 10 12

Initials WF

6 30

rg. 31 ol ____ Consec.Cast # 031 Vessel MILLER FREEMAN Event# 579 Sta. Designation Proj. & Leg Vessel Sta. I.D. Instructions MF-94-04 Longitude E Date JD = 112 Latitude Time Wind Wind Pind High Sta. Name Bottom Dry Wet Consec. Bar. **GMT** or GMT W Day Mo. Yr. Hr. Min. or I.D Depth, m mb Cast # Bulb Bulb Deg. Min. S Deg. CTD Type & SN 91220-A **Data Location** ID/Time **Monitor Checks** Times Tape/Diskette I.D. on Deck at Surface Data on_ File Name/Header Press. SN 26072 at Surface..... CAST 031 - 22 April 17 Press. ______ Temp. SN 701 Start Down_____ Cond. SN 303 Temp. _____ at Bottom_____ Start Up____ Remarks LIGHTHETER, FLUOROMETER, CHLAM Cond._____ at Surface Other____ Data off __ FL40@ Sample Bot. Data Bot. # Samp. Conv. Mon. Values-CTD **Monitor Values** T Trip Time @ Bot. Rack Depth Depth Trip Therm-P Avg Tw Press. Temp. Cond. Sal. Sal. Temp. Cond. Other Press. 1402 70.811 3.586 30.541 32.942 0.168 70 50.663 3,549 30.437 32.916 0.296 2 50 41.181 3,548 30.432 32.916 0.289 ELOP 3 40 30 29.967 3.554 30.478 32.910 0.342 4 20.669 3.542 30.385 32.876 0.367 20 5 10.982 3.577 30.222 32.652 0.338 1404 6 6 08 10 0.369 3.567 30.183 32.619 0.311 Mos 7 0 8 8 9 9 10 10 II 12

Initials _____

ı

rg. 032 oi

C	onsec	.Cast		Vesse MILLE		Pi	roj. & Leg MF-9 ¹	06	Ev	rent# \ 59 \	Vessel Sta.	I.D.	Instr	ructions				Sta	. Designati	on		
	nsec.		Latit	ude	N or		de E or		JD =		Time GMT Hr. Min	Dr Bu		Wet Bulb	Bar. mb /013.2	Si Wind Dir.		Type Weath.	ottom epth, m	Sta. Nan or I.D		8
0	32	5	5 0	3 0	N I	6818	7 0 W	2 2 A	PR	9 4	7 3	7 - 2	9	- 4 3		2835	0086	811	840	784	1 4	le .
			1220-4					onitor (Check			Times		JD/Time	Ta	pe/Diskette	Data Loc		Vame/Hea	der		
			6072	• •	-							t Surface	·——						32_22A		1	
	-					Press.											W.					
C	ond. S	SN_3	03		-	Temp																
-				2		Cond					a	t Surface Data of			Ren	narks LIGHT	METER,	FLUORI	DMETER	, CHLa		W0100
Š	Γ	Т	Trip	Tim	e @			itor Va						. Values-C1	rD		nple Bot.D	ata	Sal.	Other Samp.	os.	100
	Bot.	Rack	Depth	Depth	Tri	Press.	Temp). C	ond.	Othe	r Pres	s.	Temp.	Cond.	Sal.	Iberm-P	Avg Tw	Sal.	Bot, #	Samp.	۵	-
1			/io o	737.00						EW	101.0	41 3.	598	30.581	33.011	0.157			12		1	
2	1074				76					00											2	
3			8		香		e s	70													3	
4															0						4	
5	T st				10.560																5	
6																			-W		6	
7		12 g																			7	
8								. 5					80								8	
9														00				1			9	
10				=:											E 30						10	
[]																					11	
12																				P D)	12]

Initials ______

rg. 33 or _____

													 	<u> </u>		
st #	Vessel	P FRFFN	MAN Pro	oj. & Leg MF-94-0			ssel Sta. I.D.	Instr	uctions				Sta. I	Designation -	on	
Latit	: ude 1 :	N or	Longitud	le E D	ate JD =		GMT	Dry Bulb	Wet Bulb	Bar.	Wind ≝ Dir.	Wind Pno	Neath Del			
500	131	116	3 19 8	0 W 2	2 A P R	9 4	9 16 -	26	- 4 3	1 1 - 8	1 1 1 1	1 1 1 1		7 ¢	79	02
		2.29		Moni	tor Check	S	Ti									
26072			O	n Deck	a	Surface	Dat at Su	a on rface								
701		Pre	ess				- Start D	own	<u>`</u>				CAST 0 5	7-17		
303													<u> </u>			
						N	at Sui	rface		Rema	rks					
I Tain			her						Values CT		San	onle Bot D	ata.	l Sal	Other	
	Depth	@ Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.			Sal.			1 0 1
10							10.202	3.569	30.136	32,611	0,243			49		ı
		100					10,246	3.509	30,129	32.609	0,252				- <u> </u>	2
		4					10,242	3,500	30,129	32.609	0,238			U . 8		3
		- 8					10.243	3,569	30.129	32.609	0.243		8 -			4
		LEXAGE.		AU 8	Хшк		10.294	3,508	30,128	32,608	0.259					5
				3+0			10,224	3,569	30.130	32,410	6.256					6
							16.277	3.509	30.136	32,610	0.257					7
							10,238	3,54	30,128	35,608	6,260					8
							10.228	3.5-9	30,128	32.608	0.269					9
2							10									10
																11
											1 %					12
	91220-A 26072 701 303	Min. Section Min. M	Columbia	Min. S Deg.	Name	MILLER FREEMAN MF-94-04	Material Material	Name	Name	No. Cond. Cond.	Miller Freeman MF-94-04 Col	No. Cond. Cond.	Name	Name Name	No. Cond. Cond.	Color Cond. Cond

11

12

Initials WF

11

Co	nsec.	Cast	# 635	Vessel	D EDE	EMAN	Proj. & I	eg -94-04		Event#	Vessel	Sta. I.D	. Ir	nstru	ctions	-			St	a. Designat	ion	
•	nsec. st #	Deg	Latit	ude	N or	Long	itude	E Dat	e JD Mo		Tim GM Hr.	т	Dry Bulb		Wet Bulb	Bar. mb	Wind Dir.	Wind Pio	Type Weath.	IC39 Bottom Depth, m	Sta. Nar or I.D	1
d	35	5 5	00	22	N)	6821	22	w 2 z	АР	R 9 4	2 l	35	- 2	5 -	- 3 6	132	2802	7010	511	639	800	>2
Pro Ter	ess. Si np. SI	N_26 N_70	01			Press	on Dec	Monito k	<u></u>	at Surfa	ce	Da at St Start I	imes ata on urface Down			Tap	e/Diskette	Data Loc	File	Name/Hea		.122
Co 	nd. SI	N_30	3		.	Cond	***					Sta at Si Da	rt Up urface ata off			Rema						
Pos.	Bot.	T Rack	Trip Depth	Time Depth		Press		onitor mp.	Value: Cond		her	Press.	Conv. M Tem		Values-CT Cond.	D Sal.	San Therm-P	nple Bot. D Avg Tw	Data Sal	Sal. Bot. :	Other Samp.	
	140		30								(57 0.0	36.635	3,72		30.560	32,900	0.293			18		L
2			30									30,611	3,71	8	30.559	32,900	0.295					2
3			30		= 8		si ^V					30,578	3.71	5	30.556	32,900	0.280					3
4			30		1							30.689)	3,71	5	30.556	32,900	0.271					4
5			30								U	30.623	3,71	6	30.557	32,900	0,292				30	5
6			30									30,624	3,71	3	30,555	32,901	6.286					6
7			30	,				8 -				30.650	3.7	4	30,555	32,900	0.279	3 ::				7
8			36					88				30.460	3,7	3	30,554	32.900	0,188					8
9			30				1				V	30,657	3.7	12	30.554	32.901	6,286		1945			9
10																		15-				10
11			到	, W																		11
12	ä																				WF	12

C	onse	c.Cas	t # 03	Vesse	el FR F	REEMAN	Proj. 8	& Leg MF-9 ^L	+-04	E	vent#	Vess	el Sta. I.E).	Instr	uctions								Sta. D	esignati	on	
Co	nsec ast #	:.		ude Min.	N or S	Lo n	ngitude		Date	-	= Yr.	G	me MT Min.	Dr) Bull		We Bul		Bar. mb	s. s. Vis.	Wind Dir.	Wind Sp.	Cloud	Type Weath.	Bott Dept	1	Sta. Nan or I.D	
0	3	5	508	3 3 1	N	1682	1 4 4	ł W	22	APR	9 4	22	00	- 2	3	- 3	4	\ 3	28	63				16	75	800	5 3
Ty Pi Te	pe & ress. emp.	TD SN_	91220-A 26072 701_		-	Press Temp		eck	onitor	a	t Surfac	e	D at S Start at B	Down_ ottom_		JD/Tim				iskette		Loc		le Nan	ne/Hea _ 22 A	der pr 215	4
					-	Cond Other							at S	•				Rem	narks						2	9	
S.	D. 4	T	Trip	Tim Depth	e @				itor V							. Value				سر San					Sal.	Other	
<u>a</u>	Bot	. Каск	- 89	Depth	Tr	ip Pre	ess.	Temp	· (Cond.	Otl	ner	Press.	///	emp.	Cor		Sal.		A FIRST	Avg	IW		al	BOL. #	Samp.	+
	The same of	24.70	40		2								40.337	3.5	594	30.4	tZ	32,917	0	,252							<u> </u>
2		7 120	40	- 12	-	합니	п		1			W	40.36	2 3.	593	30,4	70	72.917	٥	.267							2
3	900	1156.0	40		8	8							40.353	3 3.	59)	30.	469	32,917	0	,259						VI	3
4	de la constantina		40			4	122						40,419	3.	591	30,	ଧ୍ୟ	32.917	0	.269						L	4
5			40						1			3	40.40	7 3.	591	30.	469	72.917	0	.254	f	11	8				5
6			40									- 1	40.37	9 3.	593	30.	470	32,917	0	.453							6
7			40										40.443	3.	591	30.	469	32.917	0	,256			8				7
8			HO										40,418	3.	596	30.	468	32.916	0	,329							8
9		A	40	78:03!	5900								46,430	7 3.	584	70.	46{	32.914	0	.250	(A)	V			33		9
10	٥			127																			ō.				10
!!																											II
12																									Initials		12

rg. 37 of ____ Sta. Designation Bottom Sta. Name Wind or I.D Depth, m Dir. Sp. **Data Location** Tape/Diskette I.D. File Name/Header CAST 637 _ 22 Apr 2335

-					_ Ot	:her					a off				•		- N		
S		T	Trip	Tim	e @		Monito	r Values		Co	onv. Mon.	Values-CT	D	San	ple Bot.D	ata 🌁	Sal.	Other Samp.	S
Pos	Bot.	Rack	Depth	Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.	Bot. #	Samp.	9
1	Ping.	A	106	23:40:						100,603	3,765	30,775	33,134	0.107			21		1
2	S NO EA	2/8/4	70		- 4			168 3	y.— -	69.590	3.632	30.538	32,943	0.186				# =	2
3			50	HW	1	Y I	1200 100			50,429	3.553	30.439	32,914	0.271		V65/	10		3
4			40					E 30		40,083	3.527	30,457	32,906	0,106					4
5			30		Service.					30,563	3.442	30,484	32.888	6,344		U 8 33			5
6			20		=			36		20.437	3,571	30.382	32,843	0.329			3		6
7		1001	10	a v			_ 4 1	011 8	M	10,438	3.5%7	30,198	32.613	0,193	Y				7
8			0							0.460	3.593	30,199	32.612	0.159					8
9	P _æ		T _{at} X	S	w = 1					EE 000 I									9
10															— <u> </u>	DX			10
11															L				П
12																			12

Consec.Cast # 637

Deg.

CTD Type & SN 91220-A

Press. SN 26072

Temp. SN __701

Cond. SN 303

Consec.

Cast #

Vessel

Latitude

Min.

MILLER FREEMAN

Deg.

Press.__

Temp._

Cond._

Ν

Proj. & Leg

on Deck

Longitude

MF-94-04

Date |D =

Monitor Checks

Day Mo. Yr.

Event#

at Surface

Vessel Sta. I.D.

Time

GMT

Hr. Min.

Instructions

Wet

Bulb

JD/Time

3 0

Bar.

mp \(\cdot\) \(\cdot\) \(\cdot\)

Remarks

Dry

Bulb

Times

Data on_

at Surface_

at Bottom___

Start Up_

at Surface_

Start Down_

rg. 38 01 _____Sta. Designation

C	onsec	.Cast	# 030	Vessel MILLER	FREEMAN	Pro	oj. & Leg MF-94-	.04	Event#	Vessel S	a. I.D.	Inst	ructions			=			Sta. De	signati	ion	
	nsec. ist #		Latit g.] L	ongitud.	e E I	Date Day		Time GMT Hr. 1	1in.	Dry Bulb	Wet Bulb	Bar. mb	S. S.	Wind Dir.	Wind Sp.	Type Weath.	Botto Depth		Sta. Nar or I.D	
0	3 &	5	500) 1 9 N	168	231	0 W 3	2 3 A	P R 9 4	0	5 -	2 1	- 38		280	30		581	1. 1. 1.	3 3	818	03
Ту	C pe & S	TD 9	1220-A					itor C				nes	JD/Time		/=.		Data L					
Pr	ess. S	N_{-2}	6072				n Deck		at Surfac	e		a on face		Ta	ape/Dis	kette l	.D.		le Name			
	mp. S ond. S				Press.							own									<u> </u>	
	J. 1. G J				1						Start	Up		Ren	narks							
_					Other						Data	face off	W									
Pos.	Bot.	T Rack	Trip Depth	Time (nip F	Press.	Monit Temp.		ues ond. Oth	ner P	Ceress.	Temp.	. Values-CT Cond.	D Sal.	The	Sam rm-P	ple Bot Avg Tw		Sal.	Sai. Bot. #	Other Samp.	Pos.
1	i Carlo		50			=======================================					756	3.546	30,433	32,915	0,2					27		
2	incom!	sarbiri	50							49	.921	3.546	30,434	32,9 15	0,2							2
3	1-26	terania.	56		3		=			50	.135	3.547	30.434	32,914	0,2	•						3
4	iosa Iosa	-1162	50		12					50	.199	3.547	30,435	32,915	0,2					П		4
5			50		Selection of the select					50	×.411	3,546	30.434	32,915	0,2							5
6		1 1	50							54	0.505	3,548	30,435	32,915	6.2							6
7			50							50	1.650	3.547	30,435	32.915	0.2	.63						7
8			50							So	1632	3,547	30,435	32,914	0.7	164				00		8
9			50							50	700	3,547	30.435	32,915	0.2	56						9
10				33.0																		10
IJ																	28					П
12																						12
 12																					WF	i

rg. 39 01 Consec.Cast # Vessel MILLER FREEMAN Proj. & Leg Event# Vessel Sta. I.D. Sta. Designation Instructions 630 MF-94-04 Latitude N Longitude E Date ID = Time Wind Wind Dir. Sp. Q Consec. Bottom Sta. Name Dry Wet Bar. or GMT W Day Mo. Yr. Hr. Min. mb S S S Cast # Deg. Min. S Deg. Bulb Bulb Depth, m or I.D 682366W23APR940049 3 28030165011683 8104 - 3 1 CTD Type & SN 91220-A **Monitor Checks** Times **Data Location** JD/Time on Deck at Surface Data on_____ Tape/Diskette I.D. File Name/Header Press. SN 26072 at Surface_____ CAST639 - 23 Apr 0044 Press. ______ Temp. SN 701 Start Down Cond. SN 303 at Bottom____ Temp. _____ Start Up_____ Cond._____ Remarks at Surface_____ Other____ Data off _____ Sal. Other & Samp. Trip **Monitor Values** Fluor Sample Bot. Data Time @ Conv. Mon. Values-CTD Bot. Rack Depth Depth Trip Temp. Press. Temp. Cond. Other Press. Cond. Therm-P Avg Tw Sal. 70 70,397 3640 24 30,576 32,979 0.166 70,007 6,170 3.638 32,979 30.574 70 32.980 0,174 70,544 3,635 30.573 32.980 74 0.169 70.540 3,636 30,573 6,167 5 70,557 3,695 32.981 30.573 5 74 30.573 70 6 3,636 32,980 0.162 6 70.550 3.435 30,573 0,160 70:554 32,981 70 3,635 70,564 30.573 32.980 8 0.168 78 70.550 0.179 9 3.635 30.573 32.980 10 10 H

12

initials	WF
V	

12

rg. <u>46</u> of _____ Sta. Designation

Co	onsec	Cast	# \$HP	Vesse		REEMAN	Proj. & Le	g 4-04	Even	t#	Vessel S	Sta. I.D.	Inst	ructions					Sta. D	esignatio	on .	
	nsec. st #	De	Latit		N or		itude E or W	Date	JD =	7	Time GMT Hr.		Dry Bulb	Wet Bulb	Bar. mb	Wind	Wind Sp. O	Type Weath.	Bott Dept		Sta. Nam or I.D	
Ф	4 4	5	5 0 8	3 6 7	N !	16821	t06W	23	APR9	4 (31'	27.	- 1 7	- 2 4		2802		81		3 9	810	5 د
Pr Te	ess. S mp. S	N_2 N_7			-	Press	on Deck		Checks at Su	rface		Da at Su Start D	mes ta on rface Down		Tap	e/Diskette	Data Lo	Fi	le Nam	ne/Head _ 23A	ler 2 0127	۷
Cc	ond. S	SN_3				Cond						Star at Su Da	ttom rt Up rface ta off			irks 3al						
Pos.	Bot.	T Rack	Trip Depth	Tim Depth	e @ Trij	o Press		nitor Va		Othe	er I	Press.	Temp.	. Values-CT Cond.	Sal.	HEART P	nple Bot.I Avg Tw		Sal.	Bot. #	Other Samp.	Pos
		A	70	1:29:							68	3,984	3.643	30.569	32,968	0.190				2.2		I
2			70								6	9.090	3,645	10.576	32,974	0,200		-8		818		2
3	1100	阿萨	56		12			-36			ц	9.864	3,583	30.469	32,920	6.289	WY J					3
4			40					Ÿ,			3	9,618	3,566	30,442	32,910	0.336						4
5		87	345								3	0.167	3.532	30,393	32.891	0.364						5
6			20								2	0,075	3.509	30.344	31.861	0,394						6
7	- k		19									9.599	3,576	30,228	32.660	01157					Ť	7
8			4									2,0 <i>61</i> 4	3,606	30,224	32.630	0.118						8
9			18%								3											9
10																						10
ĮĮ																						П
12																						12
		-			-83								•							Initials	WE	

																											rg.	41	ot	
Cor	sec.		# 241	Vess			AN		MF-9	4-04		vent# 6 76		el Sta. I.D.	Ir	str	uctions									S		esignat		
Con Cas		De	Latit	tude Min.	N or S			itude	e or W			= 113 Yr.	G	me MT Min.	Dry Bulb		Wet Bulb		Bar. nb	S. S.	Vis.	Wind Dir.	1	nd E	Type	Weath.	Botte Depti		Sta. Nar or I.D	
0/4	- 1	5	44	7 8 6	N	16	835	8	l W	23	APR	9 4	15	02-	- 1	6	- 3 3	1	2	4	8	53	1 1				23	7	87	32
_	CT	D o	1220-4	۱						onitor	Checl	ks		Т	imes		JD/Time						Dat	a Lo	ocat	ion				Ťin
					_			on l	Deck		а	it Surfac	ce		ta on				ד	ape	/Dis	kette	I.D.			File	Nam	e/Hea	der	
			6072		_	Pres	ss.			<u> </u>														_	<u></u>	AST	041	_23/	PR94	435
	ip. SN id. SN				_										own			100				-		•		-				
Coi	iu. Ji	V			_		, E ₀ =							_					_	-					_					***
		88		W	-										ırface	_			Kei	marı	KS L	-16H	TME	7 12	K					
	-	_	Trin	-		100	er			itor V			·····		ta off		Values-CT	<u> </u>	<u> </u>			Sa	mple l	D a t	Dat			Sal.	Other	
S E	ot. R	l ack	Trip Depth	Depth	ne @	rip	Press	i.	Temp		Cond.	Otl	her	Press.	Tem		Cond.		Sal.	30	The		Avg			Sa	l	1	Samp.	
12	201	2	150240						8 =	22			XVIII = 1	696.205	= 0.07±0		31.479		111	31	W (¥				23		ı
2	2			400		m											31.469											06		2
3				306			W-	88						300.745	3,77	12	31.409	33.	.71	6							. 75	19	e il	3
4		e e sa		200	9	2000								198.178	3.82	0	31.184	33.	45	3		W			9 0)		311	14		4
5			400	100			288 =				WEW.		= 1	99.431	3.42	2	30.501	33	.04	6								25		5
6			77	50						335				48.385	3.55	0	30.4/4	32,	88	7	Ğ							30		6
7				Ü								lar				300								UF.						7
8			K							- 88	8	X								l i									Пχ	8
9	9		100	×																										9
0			-	33,						-		0		I 3			8													10
11		•																												11
12					1.0		18																		l)					12

Salinity increased with depth smoothly & seems to be very high.

Initials

rg. 42 oi ____ Proj. & Leg Event# Consec.Cast # Vessel Sta. Designation Vessel Sta. I.D. Instructions 042 MILLER FREEMAN MF-94-04 Longitude E Date JD = 113Latitude N Time Wind Wind Sp. O Sp Sta. Name Consec. Dry Wet Bar. or GMT W Day Mo. Yr. Hr. Min. Cast # Deg. Min. S Deg. or I.D mb Bulb Bulb 68399 3 2 54703022862 890 CTD Type & SN <u>91220-A</u> **Data Location Monitor Checks** JD/Time Times Tape/Diskette I.D. on Deck at Surface Data on____ File Name/Header Press. SN 26072 at Surface_____ CAST 042 - 23Apr 2258 Press. _____ Temp. SN _ 701 Start Down_____ Cond. SN_303_ at Bottom____ Temp. ______ Start Up____ Cond._____ Remarks Davis at Surface_____ Abs Other ______ NUTS CHI Data off_____ Sal. Other vi Bot. # Samp. Conv. Mon. Values-CTD Sample Bot. Data **Monitor Values** Trip Time @ Bot. Rack Depth Depth Trip Temp. Therm-P Avg Tw Press. Cond. Sal. Temp. Cond. Sal. Press. Other 99,570 22 518 106 3.672 33,148 0.081 38,578 2 32.817 39.885 3.359 30,190 40 0,350 X 3 3.371 0.362 25 25,279 36,182 32.864 3.361 0,270 Phyto 519 30.171 10,186 32.809 10 M 5 5 32.807 0,231 520 3.360 1.469 30.165 0 8 8 9 10 10 н 11 12

3 25 3.364 30.146 32.361 0.393 3 4 10.804 3.365 30.136 32.362 0.311 516 4 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5 0 5																													rg	<u>43</u>	01		_
Constant Deg	Col	nsec	.Cas	# \$ 43	Vess MILL	el ER	FREEMAN	Pr	oj. & M	Leg	1-04		Event#	Ves	ssel St	a. I.D).	Instr	uctio	ons									Sta. D	esignation	on		
1 3 5 4 5 5 3 1 N 16 2 3 2 3 N N 2 3 A P 8 9 4 2 3 N 6 - 3 3 - 4 7 1 5 4 7 0 3 0 2 3 6 2 2 3 6 9 0 0 1	Con	sec.	1			or	-	ongitu	de	or		-			GMT	lin.	•						S. S.	Vis.		Wind Sp.	Cloud	Type Weath.	Bott Dept				
Press. SN 26072	φI	1 3	5	459	3	N	168	383	9	W	2 3	АР	9 4	2	3 4	6	- 3	3	_	4 7	7]	5	4	7	030	1 1	1 1	- 1		76	901) [
Press. SN 26072	Tun	CI	ΓD G	1220-4	4					Mo	nitor	Chec	ks			1	imes		JD/1	Гime						Data	Loc	atio	n				
Press Temp Press Temp Start Down at Bottom Start Up							0	n De	eck			at Surfa	ice								. 1	Гаре	/Di	skette	.D.		F	ile Nan	ne/Heac	ler			
Temp. Start Up S						_	Press.													•		-						CAS	_उ ०५३	_ 23Apv	- 2342		
Cond. Other Start Up Star		-				_									3							. —											
Other			· -			_	,								- 69							- 0-											-
T Trip Time @ Depth Press Temp Cond Other Press Temp Cond Sai Temp Avg Tw Sai Bot # Sample Bot.Data Sai Sample Bot Page Sample Bot Sampl					E 11	_	1									at S	urface_					- Re	marı	ΚS							Nut	5	a
1 4 100 20 20 100.955 3.519 20.659 33.185 0.089 28 517 1 40	Š		Т	Trip	Tin	ne @										****				ues-C	ΓD	- 1.,		۴h	San	ple B	ot.D	ata		Sal.			
1 4 100 20 20 100.955 3.519 20.659 33.185 0.089 28 517 1 40	<u> 유</u>	3ot.	Rack	Depth		T	rip P	ress.	T	emp		Cond.	0	ther	Pı	ess.	Те	mp.		Cond.		Sal.		THE.	PHT-P	Avg	Γw		Sal.	Bot. #	Samp.	٩	
3 25 3.364 30.146 31.761 0.393 3 3 4 10.864 3.365 30.136 31.761 0.393 3 3 6 5 10.864 3.365 30.136 31.761 0.311 516 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1		A	106											100	.9 5	3,5	519	3,	0.659	2	3,18	5	٥.	689					28	517	I.	
10 10,804 3.365 30,136 32,322 0.311 516 4 5 0 0,656 3.365 30,131 32,461 0.224 555 5 6 0 7 7 8 8 8 9 9 9 10 10	2		SAS.	40	<u> </u>		5 V					·	и		ų	o LL'	2 3.3	90	3	0,178	3	2,27		0.1	343							2	1
5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3	46% 1		25		1	A.F	,							2	5,554	1 3.3	4	3	30.146	3	2.761		o.:	393							3	7
6	4	9.0		10											-10	o, 801	3.3	65		30.136	3	2.76	2_	0,1	311						516	4	
7	5		8	0		1628										5,65	3.3	45		30,131	3	2,76	(٥,'	224				= 1		515	5)
9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6								4					·																		6	
9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7						-																									7	
	8																			70												8	S
	9			Tr.																			T								11	9	
1	0					ž.							1										寸									10	1
2	1					Γ					\top	-									T		7									11	1
	2							•																								12	

Initials	WF
\checkmark	

							- • ••																	44			
Con	isec.	. Cas	t # 04	INTEL	ER E	REEMAN	Proj.		g 4-04	E	vent# その ろ	Ves	sel Sta. I.D.	Instr	uctions							1	Sta. C	Designati	ou /27	¥	
Cons Cast		De		tude Min.	N or S	Long Deg.	gitude	e or W		•			ime GMT Min.	Dry Bulb	Wet Bulb	Bar mt		Win.	d V	Vind Sp.	Cloud	lype Weath.	Bot Dep	tom th, m	Sta. Nar or I.D		
64	4	5	451	L 5 2	N	1683	76	(W	24	PR	9 4	0	024-	22	- 3 3	1.	5 4	7702		20		62		68	91)0	31	
Type	CT & S	TD 9)1220- <i>A</i>	١					onitor (Check	(S		Ti	mes	JD/Time						Loc	atio	n				1
			26072		_		on [)eck		a	t Surfac	ce		a on			Ta	pe/Diskette	e I.D.	•				ne/Head			
Tem					_	Press	• • • • • • • • • • • • • • • • • • • •	<u>.</u>						face own								CAS	Teyv	- 24 AQ			
Con	d. S	N_3	03	<u> </u>	_	Temp							at Bot	tom				锰									
	_				-	Cond	_							t Up face		F	Rem	arks				10	1				
					-	Other							Dat	a off		1											
S B	05	T Rack	Trip	Tim Depth	e @				itor Va		1 0.0				Values-CT		8		mpl					Sal.	Other	os.	W
				Depth	- "	ip Pres	3.	Temp	,	ond.	Otl	ner	Press.	Temp.	Cond.	Sa		Therm-P	A	vg i	<u> </u>		Sal.	Bot. #		<u>-</u>	
			100		-8-								101,265	3,345	30.441	33,1	70	0.087							521	1	
2			40			0 K = 2							40.540	3,581	30,448	32,96	ÞI 💮	6,204						8		2	X
3			25		1			_				1	25,168	3.437	30,240	32.80	67	6.316						W		3	X
4	g (eq)	- John	10										10.168	3,376	30,122	32.73	3	0.284						15	514	4	X
5		- 12	Ö		sm\$1-								0.123	3,372	30,070	32.69	30	0.233							513	5	x
6								£0.7																		6	
7																			8							7	
8			_			*														•			·			8	
9																							_			9	
10				ş*					==																	10	
11								•														·				11	
12						T																				12	

Initials	WF_
\checkmark	

																					16. 45		
C	onsec	.Cas	^t	ら Vess	el ER (REEMAN	Proj	. & Le g MF-9	4-04	E	vent#	Vess	sel Sta. I.D.	Instr	uctions						Sta. Designa	tion	
Co	nsec. st #	De		ude Min.	N or S	Long Deg.	gitude =	e E or W		•	Υr.		ime MT Min.	Dry Bulb	Wet Bulb		ar. nb	Wind	Wind Sp.	Type Weath.	Bottom Depth, m	Sta. Na or I.E	
G	49	5	451	ЧΙ	N	1683	72	2 w	24	APR	9 4	6	51-	-20	- 3 7	7 1	6	4702			2372	92	61
т.,	C	TD c	91220-A					Mo	onitor	Check	s		Ti	mes	JD/Time				Data Lo	cation			
			26072				on	Deck		at	Surfac	е		a on			Ta	ape/Diskette	I.D.		e Name/He		
		N_7			_	Press							1	rface own	•					CAST	645 - 24 F	.०८००५(•
	•	N_3				Temp								tom				9					
						Cond						1		t Up			Rem	narks					
_						Other								rface a off				14113				NW 9	
خ		Т	Trip	Tin	ne @				itor Va	alues				· · · · · · · · · · · · · · · · · · ·	Values-CT	D		Sai	nple Bot.I	Data	Sal.		
Pos.	Bot.	Rack	Depth	Depth			ss.	Temp	· C	Cond.	Oth	er	Press.	Temp.	Cond.		Sal.	Therm-P	Avg Tw	Sa	l. Bot.	# Samp.	<u>م</u>
l		A	160	51130					11) //=		101.614	3.480	30,593	33	,146	6.082			26	524	1
2	704		40										40,895	3.5%5	30.448	32	3 69.	0,226				ed i	2
3		-	25		7.	1						ß	25,392	3,426	30,020	32.	OFF	0.367					3
4		50177 (10	10		- 07 16 76	ķ					<u> </u>		10.586	3.415	30,180	32.	764	0.302				923	4
5		8	0	×		100 (0.415	3.419	30,180	32	766	0.233			=	522	5
6								44															6
7																			ä				7
8						91		•															8
9			ii																				9
0				83	20								-							1		2	10
11																			<u> </u>				11
2	Ī																						12

Con	sec. Ca	st # 041	Vesse MILLE		EMAN	Proj. & Leg MF-94	-04	Event# Ves	sel Sta. I.D.	Insti	ructions					Designati		
Cons Cast		Latin	ude	N or	Longit leg.	ude E or	Date JD :	= 1	Time GMT Min,	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind Sp.	Weath.	ottom epth, m	Sta. Nai	
	Ů,	45	_#	_	6837		2 4 A P R		124-	-20	- 3 8		4702			3 3 1	930	3 1
Туре	CTD & SN_	91220-4					nitor Chec				JD/Time			Data Lo		——————————————————————————————————————	 	
		260 <u>7</u> 2				on Deck		at Surface	Dat at Su	rface		Ta	pe/Diskette	I.D.		ame/Head		
	. SN_			F	ress					own				-12	CASTE	6 - 24 Apr	0120	
Cond	I. SN_3	303		Т	emp				at Bot	ttom			(34)	W				
						 ,			Star	t Up rface		Rem	arks				De	vt.
		1 7			ther				— Dat	a off						NUT		
S Bo	t. Rack	Trip Depth	Time Depth	@ Trip	Press.	Monit Temp.	or Values Cond.	Other	Press.		Values-CT			nple Bot.[Sał. Bot. #	Other	S.
		100		1110	11.000.	Tomp.	Cond.	Other	8=875	Temp.	Cond.	Sal.	Therm-P	Avg Iw	Sal.	N 45	Samp.	-
2		E							100,478		30.523	33,118	0.087			527		'
F 1888	-	40						#1 HI	40.949	3.504	30,368	32.812	0,335				X	2
3		25		1					25,123	3,502	30,296	32,807	0.354		ф2	s T		3
		10		1.05		le my			10.436	3.495	30,178	32,801	0.304		Phyto From	524	X	4
	1	0	3, 3						0.762	3,489	30,274	32,863	0.233			525		5
						3905									#		0	6
-																		7
																		8
																		9
			,															10
																		11
2																		12

																							UI	_
Con	ec.C			IMITE	I R FI	<u>REEMAN</u>		oj. & L MF-	eg 94-04	E	vent#	Ves	sel Sta. I.D.	Instr	ructions]	Sta. Des	signatio	on	
Cons Cast	ш	Deg.	Latituc M		or S	Lo Deg.	ongitu	o	r	e JD = Mo.	: Yr.		ime GMT Min.	Dry Bulb	Wet Bulb		ar. nb	Wind		Type Weath.	Botto Depth		Sta. Nan or I.D	
				70	N	168	36	431	174	APR	9 4	٥	153-	- 2 1	- 3 7	1	64	702	10		218	3 (940	5 1
Туре	CTD	912	20-A		Ì			1	Monito	r Check	s		Ti	mes	JD/Time			-	Data Le	ocation				
		260			·		0	n Decl	<	at	: Surfa	ce					Тар	e/Diskette	I.D.		e Name			
Tem						Press.								rface						CAST	047.	24 Ap	r 0149	
Cond						Temp.								ttom				2.6		_				
- 00					-	Cond.							at Su	rface			Rema	ırks			Nos	-211		
	Τ.	r I i	rip	Time					nitor \					a off	Values-CT	TD.		Sau	nple Bot.		Kri S	Sal	Other	٥.
S B	t. Ra	ick D	rip epth D	Pepth	Tri	p P	ress.	Ten		Cond.	Ot	her	Press.	Temp.	Cond.		Sal.	Therm-P			il. E	3ot. #	Other Samp.	P.
J.		100 8	00										101,726	3.296	30.394	37	,114	460.0					530	1
2		1	10										40.663	3,420	30.216	31	,787	0.783		4		29		2
3	44 重	600000 100000	25		19								24.800	3,413	30.196	32	778	0,341						3
4	(1) 22	1000	10		3								10,685	3.410	30.188	32.	२२१	0.300		N			529	4
5		- b	0				ng (Sex)						0,866	3.40%	30.182	32.	779	0.234					528	5
6								29																6
7									Eq.															7
8							2																	8
9		- 1-1																						9
10																						13		10
11																								П
12							40		35															12

C	onsec	Cast	# 044	Vesse	el FR F	REEMAN	Proj. 8	& Leg	ı-04		ent#	Vessel	Sta. I.D.	Inst	ructions				S	ta. Designai	ion	
	nsec. st #		Latit	ude Min.	N or S	Lon Deg.	gitude			JD =	Yr.	Tim GM Hr.	т	Dry Bulb	Wet Bulb	Bar. mb	Wind		Type Weath.	Bottom Depth, m	Sta. Nai or I.D	
				7 3 3	Ν	1683	60 1	2 W	24	APR	9 4	02	18	- 1 8	- 2 4	7 1 6	4702	0208	62	2256	95	6 1
Pr Te	ess. S mp. S	N_2 N_7	01220-A		-	Press	on D	eck			Surfac	ce	Dar at Su Start D	rface Oown	JD/Time		pe/Diskette	Data Lo	cation File	Name/Hea		
	ona. 3	SN_3			-	Other_							Star at Su Dar	t Up rface ta off		Rem			8	l cal	Othor	
Pos	Bot.	T Rack	Trip Depth	Tim Depth	e @			Moni Temp	itor Va	alues Cond.	Otl	ner	Press.	Temp.	n. Values-C Cond.	Sal.	Therm-P	mple Bot. Avg Tw		Bot. a	Other \$ Samp.	
a lan		A	loo	62:18.	E PORTO							1	00.619	3.203	30.327	33.46	6,089			24	533	1
2			40							10			4D.87°	3.522	30.348	32.842	0.300				3	2
3		100	75		100		S .					18=	24.793	3.503	30.311	32.825	0,383					3
4			0		SHEET.	ă.							9,409	3,499	30.30(38.824	6,354				532	4
5		0	0	250									1.056	3,494	30.293	32.825	0.772				531	5
6								59											8	ă		6
7																						7
8						Tati																8
9												= 0 0 =										9
10											£9											10
11																311				==		II
12																						12

Initials <u>WF</u>

19. 48 OI

			1			T									_					16 49		
Cons	ec.Cas	st # 64	Yesse MILLE	l <u>R</u> FR	EEMAN	Proj.	& Leg MF-9 ¹		Ev 1	ent#	Vesse	Sta. I.D	. Instr	uctions					S	ta. Designat	ion	
Conse Cast	.c.	Latit eg.	ude Min.	N or	Long Deg.	gitude		Date	JD =	Yr.	Tir GN Hr.		Dry Bulb	Wet Bulb		ar.	Wind	Wind Sp.	Type Weath.	Bottom Depth, m	Sta. Nai	
GH	95	441	76	N)	683	59	3 W	24	A P R	9 4	62	5 5	- 18	- 3 0	2 1		+802		621	173	96	0
Type	CTD S	91220-A	\					nitor	Checks			1		JD/Time				Data Lo	cation			
		26072				on D	eck		at	Surfac	е		ita on irface			Тар	pe/Diskette	I.D.		Name/Hea		
Temp	.SN_	701			Press						-		Down	•					CAST	e 43 - 511 46	r	
Cond	.SN_3	303			Тетр		-	<u> </u>					ottom				15					
					Cond Other							at Su	rt Up irface ta off			Rema	arks			Dairy) Abs		
S.	T	Trip	Time	e @			Mon	itor Va	alues			_	Conv. Mon.	Values-C7	ΓD		Sar	nple Bot.l		Sal.	Other Samp.	, s
S Bo	t. Rack	250	Depth	Trip	Pres	s.	Temp		Cond.	Oth	er	Press.	Temp.	Cond.	S	al.	Therm-P	Avg Tw	Sal	. Bot. #	F Samp.	1 N
I g	4 124	100										79.986	3.647	30,791	33.1	213	850,0				536	ı
2		46		Test.								40.641	3.565	30.463	31.	935	0.306		4	,	3 5	2
3	3 75 4	25		30							ž.	25,689	3.458	30,342	32.	908	0.481					3
4		10		100								10.313	3,445	30.319	32.	906	0.459	181			535	4
5		Ф	Tilsani	-7650	100	-8						1.626	3,444	30,316	32.9	Ea	0.442	h.	4	· II	534	5
6						123	e III															6
7									E													7
8				iš -								81			N:							8
9						3																9
10													ĕ									10
11																				B		11
12																						12

																				<u>56</u>		
Cons	ec.Ca	st # 05	Vesse MILL	el ER FI	REEMAN		4F-9L	1-04	E _v	rent# イタ	Vesse	Sta. I.D.	Instr	uctions	_				Sta. [Designat	on	
Conse Cast	ec.	Latit Deg.	tude Min.	or	Lon Deg.	gitude	E or W	Date Day	JD = Mo.	Yr.	Tin GM Hr.		Dry Bulb	Wet Bulb	r	Bar.	Wind Dir.	Wind Sp.	Neath Deb	tom th, m	Sta. Nar or I.D	
45	4 5	434	3 9	N	1683	349) W	24	APR	9 4	03	45-	- 2 7	- 4 2			48010	T		46	97)6	١١
Type	CTD	91220-4			•		Mo	nitor	Checks	5		Ti	imes	JD/Time				Data Lo	cation			
		26072		-		on D	eck		at	Surfac	:e		ta on			Ta	pe/Diskette	l.D.		ne/Hea		
Temp					Press			20					rface Own					=	CAST 65	> - 5H	Apr	
Cond			<u> </u>		Temp								ttom			-	2.2					
				-	Cond							at Su	t Up rface ta off			Rem	arks		DAVIS	fam	- a 4	
y	Т	Trip	Tim	e @				tor V	alues					Values-CT	D		Sam	ple Bot.I	Data	Sal.	Other Samp.	si si
S Bo	t. Rac	k Depth	Depth	Tri	Pres	ss.	Гетр	. (Cond.	Oth	ner	Press.	Temp.	Cond.	700 \$	Sal.	Therm-P	Avg Tw	Sal.	Bot. #	Samp.	8
ı		100						14				99.938	2.961	30.030	33.	058	6.177				539	1
2		40			7			-3				40,262	3.265	36,211	32.	938	०.५६५		p			2
3		25		35.								25.423	3.405	30.217	32	118.	0.427			\$7	538	3
4	84	10		100		Jan Jan			X.E			10,942	3.416	30,203	32.	792	0,446	1	Phytofo	าก	538	4
5	A	0		-0.00								-0.531	3,415	30,038	92	ادى	0.562				537	5
6						34									Same							6
7					1											55						7
8		X																		115 //		8
9																						9
10			ļ																			10
11																						Ш
12																						12

																			<u>6. 51</u>	<u> </u>	_
Co	nsec	. Cast	* 4 5	Vess	el ER F	REEMAN		oj. & Leg MF-9	3 4-04	E	vent#	Vessel Sta. I.C). Inst	ructions	-	·		Sta.	Designat	ion	5
	nsec. st #	De	Latit	ude Min.	N or S			le E or W	Date	JD =		Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind Sp.	Type Weath.	ttom pth, m	Sta. Nai or I.D	
đ	5 1	5	440	> 1 3	2 N	168	284	7 W	24	APR	9 4 (3432	- 2 9	3 3 5	191	4801			25	98	>
-	C	ΓD ₉	1220-A					M	onitor	Check	s			JD/Time			Data Lo	cation			
			6072	-			or	n Deck		at	: Surface	D	ata on		Tap	pe/Diskette	I.D.	File Na	me/Hea	der	
		N_7		-		Press							urface Down	•				CAST 05	1-24 AC		
		N_3			_	Temp.						at B	ottom			=_:					
			25									Sta	art Up		Rema	arks			85		
													urface ata off					Richa	r2B	NUT	S
'n		Т	Trip	Tim	ie @	a III.			itor V	alues				. Values-CT	ΓD	Sar	nple Bot.[
Pos.	Bot.	Rack	Depth	Depth	Ti	ip Pr	ess.	Tem). (Cond.	Othe	er Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.	Bot. #	Other Samp.	9
ı		А	100	41321 55								101.053	3,602	30.152	33.102	0,104	X==		69	542	
2			40		Į.							38.961	3.157	30,137	32.959	0.311		P			2
3	Sec.		25		ě							25,671	3.387	30.249	32,867	6.368				=	3
4	100		10		á	1						9.886	3.385	30,240	32.867	0.354		p		541	4
5		8	0		3188							_0.040	3.392	30,242	32.868	0.373			_ = 4	540	5
6						-	138	33%											ñ		6
7	_																				7
8																					8
9									1			l l									9
10	-		10	ļ					12.												10
Ш																					11
12																6					12

Cor	isec.	Cast	# 52	Vesse MILLE	l R FRF	FMAN	Proj. & Leg MF-9		Event# Ves	isel Sta. I.D.	Instr	uctions				Sta.	Designati	ion	
Con Cas		De		ude Min.	N or S D	Longi eg.	tude E or W	Date JD Day Mo	= 1	Fime GMT . Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Dir.	Wind PnolO	Type Weath.	ottom pth, m	Sta. Nai or I.D	–
\$	52	5.	५ ५ ४	57	N	6824	5 1 w	2 4 A P	940	569-	29	- 3 s	19	1084	0 20 7	6220	25	99	5
Type	CT & S	D 9	1220-A					onitor Chec				JD/Time			Data Lo	cation			
			6072				on Deck		at Surface	Da at Su	ta on rface			oe/Diskette			ame/Head		
	ıp. SI				P	ress				- Start D	own					CAST 05	2 _ 24 16	(0) 1	
Cor	ıd. Si	V 30	03								ttom			N					
						Cond Other				at Su	rface ta off	8	Kema	arks		Mail s			#8
S	Sot. F	T Rack	Trip	Time Depth	e @	Press.	Mon Temp	itor Values Cond.	Other	Press.	Temp.	Values-CT Cond.	D Sal.	Sar Therm-P	nple Bot.D Avg Tw	Data Sal.	Sal.	Other Samp.	Sos
1			100	Бери	пр	11633.	Temp	. Cona.	Other	99,905	2,984	30.142	33,109	0,106	VAR I M	Sal.	BOL. #	545	
2			40							40.191	3.474	30.375	32,923	0.235		1	65	3 413	2
3	Aug	and the same of	25							24.809	3.433	30.304	32.887						3
4		America .	10							10.955	3.461	34.217	32,622	0.373		у		544	4
5		- 1	0		0.001					-0,114	3.408	30.218	32,823	0.397				543	5
6							595												6
7					П														7
8																			8
9						1 8													9
10																			10
11													23,						11
																		1	

16.52 UI___

																								·	
Cons	ec.Ca	st # \$53	Vesse MILLE	l R FRE	EMAN	Proj. 8	Leg	ı-04	Ev	ent#	Vess	el Sta. I.D.	Instr	uctions				10000	70.00		3		signation		
Conse Cast	ec.			or	Long	itude	e or W	Date Day		Yr.		me MT Min.	Dry Bulb	Wet Bulb	1	Sar. nb	S. S. Ķ	Wind Dir.	Win Sp.	Cloud	Type Weath.	Botto Depth		Sta. Nar or I.D	
φ 5	35	440	93	NA	6820	50	w	24/	A P R	9 4	05	41.	- 2 7	-38				01				200	041	60	01
Tuna	CTD	91220-A					Mo	nitor	Checks	5		Ti	mes	JD/Time					Data	a Loc	ation				
		26072		•		on D	eck		at	Surfac	e		ta on					Diskette					e/Heac		5
		701		F	ress								rface own				55			- 200	CAST	053	_24A	pr 053	, ,
Cond				Т	emp							at Bo	ttom					ω =					·		
				. 0	Cond							Star	t Up rface		=	Rem	narks				6				
		 -		. C	Other								a off								Dav	is			
S D a	T	Trip k Depth	Tim	e @				tor Va						Values-CT	_				mple E				Sal.	Other Samp.	os.
	L. Raci	- E	Depth	Trip	Press	i. I	emp	. C	ond.	Oth	ier	Press.	Temp.	Cond.		Sal.		nerm-P	Avg	IW	Sa	J	Bot. #		-
ala sa		100		(()		_						101.043	2.937	30,071	33	.072	0	.146						348	
2		40										41.152	3.398	30.330	32	,945	٥	222	1000		×				2
3	i sensi	25		1.40							*	25,309	3,495	30,328	32.	853	6	356							3
4	w with	16		1								9,819	3,513	30,327	32,	842	0	366		ı	×		77	547	4
5		ф		yes.					3			-0.252	3.569	30.320	32.	843	0	,363						546	5
6																									6
7					N																		H		7
8																									8
9																								a.	9
10												V				20									10
11		(Ш
12		36																							12

Consec. Latitude N Longitude E Date JD = Time GMT Bulb Bulb Bar. Wind Wind Depth Trip Press. Temp. Cond. Other Press. Temp. Cond. Other Press. Temp. Cond. Sal. Therm-P Avg Tw Sal. Deg. Min. S Deg. W Day Mo. Yr. Hr. Min. Bulb Bulb Bulb Bulb Bulb Bulb Bulb Bulb	epth, m 1541 lame/Head 54-24 A	Sta. Norl	I.D	1
Consec. Cast # Deg. Min. S Deg. W Day Mo. Yr. Hr. Min. Bulb Bulb Bulb Bulb Bulb Bulb Bulb Bulb	epth, m 1 5 4 1 lame/Head 54 - 24 A Sal. Bot. #	der Othe Samp	I.D	8
CTD 1220-A Press. SN 26072 Temp. SN 701 Cond. SN 303 Temp. Cond. Coher	Sal. Bot. #	der Apr O	er er	8
Press. SN 26072 Temp. SN 701 Cond. SN 303 Temp. Cond.	54 - 24 A S Aus Sal. Bot. #	Othe Sami	er	_2221
Press. SN 26072 Temp. SN 701 Cond. SN 303 Temp. Cond.	54 - 24 A S Aus Sal. Bot. #	Othe Sami	er	_2221
Temp. SN 701	S <i>Ados</i> , Sal. Bot. #	Othe Samj	er	_2221
Cond. Start Up	Sal. Bot. #	Sam		Pos.
Cond. Start Up at Surface Data off Conv. Mon. Values-CTD Sample Bot. Data	Sal. Bot. #	Sam		Pos.
Other	Sal. Bot. #	Sam		Pos.
Bot. Rack Depth Depth Trip Press. Temp. Cond. Other Press. Temp. Cond. Sal. Therm-P Avg Tw Sal. 1 A 100 48 0.095	Sal. Bot. #	Sam		Pos.
Bot. Rack Depth Depth Trip Press. Temp. Cond. Other Press. Temp. Cond. Sal. Therm-P Avg Tw Sal. 1 A 100 48 33.184 0.095	Bot. #	Sam		S S
1 A 100 06:13: 100.320 3.562 30.695 33.124 0.095			—	—
	16	55	5	1
2 40 39.270 3.395 30.350 32.974 0.249 V			;	2
3 25 25.721 3.521 30.379 32.888 0.382		55	3	3
4 10 938 3.562 30,379 32.884 0.368 Phyto porm		550	0 4	4
5 -0.239 3.563 30.375 71.854 0.373		540	7	5
6				6
7		<u> </u>	7	7
8		14	8	8
9			ç	9
			11	0
			Ti	ı
	1 1			_

																			<u>. 6 . 5.5</u>	UI	
Conse	c.Cas	^{t #}	5 Vesse			Proj. 8			Eve	ent#	Vessel	Sta. I.D.	Instr	ructions				Sta	Designat	ion	
		Latit	ude IMILLE	R FRE	EMAN			1-04		+15				<u> </u>				72	T	4 ** *	
Consec		Latit		or	Long	gitude	ori	Date	lo =		Tim GM		Dry	Wet	Bar.	Wind	Wind g	a La B		Sta. Nai	
Cast #	De	eg.	Min.		eg.			Day	Mo.	Yr.			Bulb	Bulb	mb 1419.73	S = S Dir.	Wind PnoO		epth, m	or I.D)
	5	ulu i	10	g	1 1 2 7	م ا ا	-	a single-same	-	<u>, , , , , , , , , , , , , , , , , , , </u>					19		1 1 1				
			78	NI	681	כן כן ט	W	7	APR	9 4	06	70	- 2 9	- 40	1 7	4802	0147	641	593	020	2 1
C Type &	TD SN ⁹	91220-A		İ				nitor	Checks					JD/Time			Data Lo	cation			
Press.				·		on D	eck		at S	Surfac	e	,	ta on		Ta	pe/Diskette	I.D.		lame/Hea		
Temp. S				· F	Press								irface	-				CAST o	55-24A	64 66	પમ્
Cond. S				` _T	emp								ttom			1				200	1
					Cond							Star	τ Up						-		
				- 1								at Su	rface		Rem	arks		ALC:			
	T ==	Trip	T:		Other			itor V					ta off	Values-CT		Con	nple Bot.[Days.	l Cal	TOshan	
Bot.	Rack		Time Depth	Trin	Pres		Femp		Cond.	Oth	ner	Press.	Temp.	Cond.	Sal.		Avg Tw		Sal.	Other Samp.	S
		100	Ээри	11111	1				Jona.		-	- 23					7.18 1.11	Jai.	, Dot. 11		
		700										99.371	3,580	30.727	33,205	0.091				555	11
2		40										39.627	3,33%	30,289	32,958	0.337		P			2
3	- 1	25										25.493	3,592	30.340	32,774	0,441					3
4	14	10		용.								10.578	3,584	30,324	32,764	0.417		P		553	4
5		0					П					0,323	1	30.321					66	554	7
6													3.321		76,13					/3.	6
7					-		<u> </u>			-	-+		2.40							 	7
8															1.00					83.	
8																		.=			8
9																				8	9
10																					10
11				-,						Ŷ		-									11
12					1											1				†	12

Initials <u>WF</u>

				T			<u></u> .		11.00																	UI		_
Со	nsec	Cas	· # 05	Vesse MILL	el <u>ER F</u>	REEMAN	Proj	. & Leg MF-9	4-04	Ε·	vent#	Vesso	el Sta. I.D.	lnstr	ructions		7,211.0					200		Sta. D	esignat _	ion		
Cor	nsec. st #		Latin	tude Min,	N or	Deg.	ongitude	e E or W		· ·	Yr.	GI	me MT Min.	Dry Bulb	Wet Bulb		Bar. nb	S. S.	W N	ind ir.	Win Sp.	Cloud	Type Weath.	Boti Depi		Sta. Nar or I.D	_	
0	5 6	5	44	2 2 2	N	168	666	2 W	24	APR	9 4	07	. 19 -	- 2 9	- 40		9	4	30		1 1	47		T	26	6 3 6	à 4	
Тур	C e & S	TD SN_	1220-	Α	_				onitor						JD/Time							a Lo	cation				_	
1			26072		_		on	Deck		at	Surfac	:e	1				T	ape/	Diske	te I.	.D.				ne/Hea			Ì
l		N_7				Press.								rface				_					CAS	T 054	- 24A	or \$714		
	•	N_3				Temp.								tom				2000			h							
													Stan	t Up			Pos	nark				-						1
			,		_						·			face			IVE	iiai K	•				-	- 1				
		T	Trip	Tim					itor Va					a off	Values-CT	<u>D</u>	l			am	ple B	ot F	Day	NSKE	Sal.	Other		
S I	3ot.	Rack	Depth	Depth	Tri	P P	ress.	Temp		Cond.	Oth	ner	Press.	Temp.	Cond.		Sal.	1	herm		Avg			al.	Bot. #	Other Samp.	So	a
1		ns.	160										100,410	3,755	30,902	33	239	5	0.05			,, ,, ,		v		557	1	
2			44		I								39,349	3.662	30.438	32	80	8	0.42	3			p				2	P
3	J		25				= =						25,056	3,617	30.366	32	976	4	>.45						83		3	×
4		E	[de		.,								500.01	3.603	30.346	32	,773	, (>,474	>	.,					556	4	X
5			d										-0.255	3.632	30.365	32	97	3	0.47	2			P	0		555	5	70
6																					'à						6	
7											_																7	
8																											8	
9																											9	
10																											10	
11																						•	■ · }				Ш	
12																							===				12	

						Collection .			200			57.65					100		<u>ь 57</u>	UI	
C	onse	c. Cas	t # 65	Vess	el <u>ER F</u>	REEMAN	Proj. & Le _i MF-9	3 4-04	Ever	۲# ^۱	essel Sta. I.D.	Inst	ructions					St	a. Designat	ion	
i	onsec ast #		Lati eg.	tude Min.	N or S	Longi Deg.	t ude E or W			Yr. I	Time GMT Ir. Min.	Dry Bulb	Wet Bulb		ar. nb	Wind Dir.	Wind Page Sp. Sp.	Type Weath.	Bottom Depth, m	Sta. Nar or I.D	
			44		N	16861	17 w	2 4	APR9	46	753	- 2 1	- 3 2		7	702		621	376	1040	ا د
T	C	TD SN	91220-/	Δ			M	onitor	Checks		Ti	mes	JD/Time				Data Lo	cation			
			26072		-		on Deck		at Su	ırface					Tap	oe/Diskette	I.D.	File I	Name/Hea	der	
1		SN_			-	Press						rface	040					CAST	57- 24 A	0×6749)
		SN_3			-																
-	Jild	JI N			-	Temp															
-					-	Cond					at Su	rface	W T		Rema	rks					
_					-	Other						a off								nuts	å
Pos.	Bot	Rack	Trip	Tim Depth	e @	ip Press.		itor Va		0.1			. Values-CT				nple Bot.E		Sal.	Other Samp.	S.
former 1		A	-11	Q7:53·	1171	p Press.	Temp). C	Cond.	Other	99,585	Temp.	Cond.		ial.		Avg Tw	Sal.	Bot. #	558	
2				57								3,748	30.827		896	a. 092				336	
990			40					-			39.571	3,728	30.567			0,316					2
3			25		1						25,873	3,508		37,	813	0.422				559	
4	12	- 12	14		- 1						10.806	3,476	30,265	32.	804	0.365				559	4
5			0								2.745	3.477	30,262	32.	403	0.356				560	5
6														15 =							6
7																					7
8	1	<u>. </u>						H		·						*2					8
9		L																			9
10																					10
11										85											11
12																					12

		~		1,7				_ ·	1,000,00			Y											
_	onse	c.Cas	ot # 05	8 Vesse	el ER FI	REEMAN	Pro	oj. & Leg MF-9	4-04	Eve	ent#		el Sta. I.D	. In:	struc	ctions				Sta. E	esignati	ion	
C	onsec ast #		Latit eg.	t ude Min.	Or or	Lo : Deg.	ngitud	de E or,	Date	lp =	Yr.		me MT Min,	Dry Bulb		Wet Bulb	Bar. mb	Wind Si Si Dir.		Meath Deb	tom th, m	Sta. Na or I.E	
$\overline{}$				4 2	N	1675	56 4	7 W	24	APR	9 4	D 8	3 3	- 2 3	3 .	-32	17	4702			49/	65,	0/1
Tv	C Sen	TD SNI	91220-4	4				Mo	onitor	Checks			Т	imes	JD)/Time			Data Lo	cation			
1			26072		-		10	n Deck		at S	Surfac	ce					T	ape/Diskette	I.D.	File Nan	ne/Hea	der	
		SN_7				Press			 -					irface						CASTOS	- 244	6.08	19
,		5N_3		<u> </u>		Temp							_ at Bo	ttom									
_						Cond	·						Star	rt Up			Rer	narks					
_					_]	Other_								ırtace ta off				That NO				NOS	
Š		T	Trip	Tim	e @	1			itor Va							alues-CT	D	Sai	nple Bot.[) Data	Sal.	Other	l si
Pos.	Bot.	Rack	Depth	Depth	Tri	p Pre	ess.	Temp	. (Cond.	Otl	ner	Press.	Temp).	Cond.	Sal.	Therm-P	Avg Tw	Sal.	Bot. #	Samp.	Pos.
L	Perce		106										101.090	2.87	6	30.006	33,65	5 0.194		WE		561	1
2			40										40.592	3,152	2_	30.136	32.963	0.526		1)			2
3		2	25			1					-		26.060	3,42	2	30,749	32,951	0.376					3
4	# 0	2	6										10,746	3.392	-	30,026	32.602	0.404		200		562	4
5			0										0.749	3.391		30.624	32.603	0.370		9		563	5
6				=																			6
7																							7
8																							8
9								W															9
10																				Ved -			10
11																							11
12																							12

5-527.2-1																- P	0 57	·	
Cons	ec.Ca	st # 059	Vess MILL		EEMAN	Proj. & Leg MF-9 ^t		Event#	Vessel	Sta. I.D.	Instr	uctions				Sta.	Designati	on	
Conse Cast		Lation	ude Min.	N or S	Long Deg.	or	Date Day	JD = //5	Tin GM Hr.	IT .	Dry Bulb	Wet Bulb	Bar. mb /6/3.9	Wind Si Si Dir.	Wind Pao	Neath.	ttom oth, m	Sta, Nar or I.D	
		55		N)	633.	658W	25	A P R 9 4	19	28-	a 7	- 13	14-	27040	0128		86	1 3	01
Type	CTD	91220-	A.				nitor	Checks				JD/Time	10		Data Loc	cation			
1		26072		-		on Deck		at Surfa	ce	1			Tap	oe/Diskette	I.D.	File Na	me/Head	der	
Temp				-	Press						rface own	•	 -			CAST 059 .	_ 25APR	1923	
Cond				- }						4	tom	1.7							
					•						t Up			arks UGHT A	4F=F0	ORCHETE O	2 LI 200	Ans.	
										at Sur	rface		Kema	arks C16H1	TEN BRY FL	THE TON THE T	CHEAN	h	3.7
	1 -	Trin			Other			1			a off	V I CT		- C				VIEW	1
o Bo	t. Rac	Trip k Depth	Depth	ie @ I Trin	Pres		tor Va		her	Press.	Temp.	Values-CT Cond.	Sal.	Therm=P	nple Bot.D Avg Tw	Sal.	Sal.	Other Samp.	Pos.
ı	A	15-79	1928					ond.	TI -		2,621			0.235	, 1, 6, 1, 1	Jai.	28	564	1
2		50	/		l W				4	9.563	2.593	38.757	1	0.280				565	2
3		30	/				H		2	9.478	2.574	28.729	31.840	0.297		35			3
4		20	/						2	0.240	2.574	28.725	31.841	0.303				566	4
5		10	/						0	1.680	2.575	28.721	31,840	0.249			1 3	567	5
6		0	/		ļ				-6	0.141	2,576	28.496	31,569	0.172				568	6
7		2																	7
8				350														=	8
9																			9
10													-6						10
11								20											11
12																			12
												į) l					Initials _	(A)	

Initials _____

_	(<u>9)</u>						61820								110000		0 60	· 니	_
C	onse	c.Cas	060	<u> </u>		EMAN	oj. & Leg MF-94-(188	essel Sta. LD	. Instr	ructions					Designati		
- 1	nsec ist #		Lati	tude Min.	or S D	Longitu Deg.	de E D or W D	ate JD =		Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind Significant Significant	Wind Pack	Weath.	pth, m	Sta. Nar or I.D	
				0 7 5	N /	6523	76W2	6 A P R	9 4 2	218	2 4	। डि		3763	1 1 1	5.00 84 100.00 00	76	366	5 2
T.,,	C	TD (91220-	4	İ		Moni	tor Checks	i	Т Т	imes	JD/Time	}		Data Lo	cation			
			26072		-	c	n Deck	at	Surface	Da	ita on		Ta	pe/Diskette	I.D.	File Na	ame/Head	der	
1			701		- F	Press			- 8		irface					CAST 06	0 - 26 A	be 5502	
	-				_	emp				i	ottom		_						
				1.0		Cond										<u> </u>			-
-					- `					at Su	ırface		110111	arks Fluor	remater s	ing cl	randig	four c	1.33
		T	Trip			Other		r Values			ta off				anda Dat D		<u> </u>	l Oak au	
Pos	Bot.	Rack	Depth	Depth	le @	Press.	Temp.	Cond.	Other		Temp.	Values-CT Cond.	Sal.		nple Bot.D Avg Tw		Sal.	Other Samp.	Pos
1		A	10	22:26						10,214	3,259	29,213	31,759	1,485		Jai.	00		1
2	48		10							10.157	3,264	29,212	31.754	1,738			1 5 =		2
3	(A)		10							9.984	3,264	29,215	31.757	1.352					3
4	=		10							10.164	3,264	29,214	31.756	1.353					4
5			10							9,961	3,261	29,218	31,764	1.539					5
6			10							9.965	3,258	29,219	31.768	1.492					6
7			lo							10.170	3,258	29.220	31.769	1.459					7
8			10							10.207	3,258	29.221	31.769	1.427	V===				8
9			10							10.156	3.259	29,223	31.771	1.374	Willi	88			9
10																			10
Н		_							0:										Ш
12								_						=					12

Initials	
\checkmark	

14.05

				 					30-01		,									10 61	<u>υι</u>	
С	onsed —	.Cas	96	Vesse MILLE	I Er Fr	<u>EEMAN</u>		j. & Leg MF-9 ^L	+-04		/ent# ୧୫୮		l Sta. I.D.	Insti	ructions			144.55151	Sta	a. Designat		
Co	nsec		Latit	tude	N	Lo	ngitud	e E	Date	JD =	116			Dry	Wet	Bar.	Wind	Wind	ا جا	/83 Bottom	Sta. Na	me
	ist #	1	g.	Min.	or S [Deg.		or W		Mo.	Yr.	GN Hr.	1T Min.	Bulb	Bulb	mb	Wind	Wind BOO	Type Weat	epth, m	or I.[
ф	61	5	4 4	20	N /	6 5	2 لو 4	\ W	26	APR	9 4	2 3	O 4	2 5	1 9	02	3763	1 1 1		182	130	03
Ту	C De & 3	TD SN_9)1220-A	Α		-			nitor	Checks		-			JD/Time			Data Lo		•		
			6072				on	Deck		at	Surfac	ce	Da	ta on		Ta	pe/Diskette	I.D.		Vame/Hea		
1						Press									•		·		CASTO	61 - 26 Apr	2259	
1	-			19.0	' I												- 			·		
				1.0									Star	t Up		Rem						
													at Su	rface		Kem	arks					
_		T .	Trip	Time					itor V					ta off	. Values-CT		<u> </u>	nala Dat F		T C-1	Tosts	
Pos	Bot.	Rack	Depth	Depth	Trip	Pr	ess.	Temp		Cond.	Oth	ner	Press.	Temp.	Cond.	Sal.		nple Bot.E Avg Tw		Sal.	Other Samp.	Pos
1		= 174	100										v2.73B	3.691	30,180	32,559	0.194		Jai.	20	Juni 1	1
2		ARTE	20										20,599	3.343	29.399	31.895	1.232					2
3			20						1				20,601	3.336	29,388	31,888	1.348					3
4	12		20	1									20,609	3.336	29.389	31.668	(.455					4
5			20							5=			20.792	3.337	29,391	31.890	1.262					5
6			20				18						20,849	3,337	29.389	31.888	1.376					6
7			20							=			20,918	3.337	29,390	31.689	1.256	·				7
8			20										20,861	3,340	29,394	31.891	1.156	***				8
9			20	-									14.973	3.839	29:393	31.891	1.053		155			9
10																						10
11											33											11
12																						12

Initials	
\checkmark	

				1.7							7																	UI	
	onse	c Ca	ist # 06	Vess MILL	el <u>ER f</u>	FREEN	1 <u>4N</u>	Pro	oj. & Leg MF-9	g 4-04	E	vent#	Ve	ssel S	sta. I.D.	Inst	ructions								S	ta. D	esignat	ion	AC 1880 BI
C	onsec ast #	2.	Lati	Min.	N or S		LOI	ngitud	le E or W				l	Time GMT r. 1		Dry Bulb	Wet Bulb		Bar. mb 1041.5	S. S. Vis.	Wind Dir.	w s	ind 7	Type	Weath.	Bott	om ch, m	Sta. Na or I.	
-				0 1 4	N	16	5 2	3 7	3 W	27	APR	9 4	G	0	3 2	2 3	١	5	02				T - T	1		1	70	131	02
Ту	pe&	CTD SN_	91220-	Α	_					onitor							JD/Time			(5)			ata L	oca					
			26072		_				n Deck			Surfa	ce			a on rface				-	iskette						ne/Hea 4∓4	der pro69	ر _
•	•		701		-										Start D	own			I))				-	CAST		, _ ~ (10	P1 00.	ح
ı		SN_		1.0	_		ı i									tom t Up						4:	_	_					
-	716	<u>ντ 0</u>	mul(z		-										at Sur	face a off			— Rem	arks	max t	-pth	163						
-i		ΙT	Trip	Tim	ie @					itor Va							. Values-C	CTD		FIG	San	nple	Bot	.Da	ta		Sal.	Othe	r
8	Bot	. Raci	k Depth	Tim Depth	Tr	ip	Pre	ess.	Temp). C	ond.	Ot	her	Р	ress.	Temp.	Cond.		Sal.		erm-P		g Tw		Sal		Bot. #	Othe Samp	. 6
1		100	100	156					1 132					14	9,725	3.702	30,805		33.148	0	०१	(E.S.					16		
2	va-	WE.	V-51970	30										3	6.519	3.345	29.442	2	31.919	1.	112								2
3	341		8.00	30										3	10.305	3,364	29,440		31,918	1.	। १५				- 1				3
4			in the second	36		eres							[-]	3	30,170	3.361	29,436	00	31,916	١.	५०५							570	4
5				36				8				X .			30,106	3,342	29.438	3	31.913	ι.	137			22			D.		5
6				30		#II							8	3	30.258	3,362	29.439	,	31919	1	.137								6
7				36										3	30.626	3,367	29,445	;	31,921	1.	193					_			7
8			H	30										3	429.0	3.368	29.449	Miles.	31,924	1,	129	100 L						:	8
9			<u>g</u>	30										3	328,0	3.369	29.449) 	31.924.	de la	195		1112						9
10																													10
H												0.	-																II
12																													12

Initials	
\checkmark	

rg. <u>63</u> 01____ Consec.Cast # Vessel Proj. & Leg Event # Vessel Sta. I.D.

MILLER FREEMAN MF-94-04 Sta. Designation Instructions Latitude N Longitude E Date JD = 117 Bar. Wind Wind Pool Bottom Sp. OIL Sp. Depth, m Time Bottom Sta. Name Consec. Dry Wet or W Day Mo. Yr. Hr. Min. Cast # Deg. Min. S Deg. or I.D Bulb Bulb 613702018862 15613103 063543947N1652392W27APR946164019013 CTD Type & SN <u>91220-A</u> Monitor Checks **Data Location** JD/Time Times on Deck at Surface Data on____ Tape/Diskette I.D. File Name/Header Press. SN 26072 at Surface_____ CAST 663_ 270px 6657 Press. ______ Temp. SN 701 Start Down_____ Cond. SN 303 Temp._____ at Bottom____ Start Up_____ Floor unult = 1.0 Cond._____ Remarks 153 max dapth at Surface_____ bette# 9 broke and fell offer rosette Data off Other______ Sal. Other vi **Monitor Values** Conv. Mon. Values-CTD Sample Bot.Data Trip Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Temp. Therm-P Avg Tw Press. Cond. Press. Temp. Cond. Other Sal. Sal. 01:06 125 23 126.512 3.684 30,427 32,728 0,252 39,594 40 29.766 3.501 4.573 32.167 3 3.499 29,763 32.166 114.0 39,601 4 40.386 3,503 0,669 29,771 32,171 5 40.876 3,567 5 40 29,478 32.174 0.586 3508 6 40.773 29,777 32.173 46 6 0,622 41.005 29,776 3.507 32.173 0.510 40 8 40.850 3,506 0.579 29,776 32,173 9 3,506 32.173 19,775 a.572 41.105 lost at see 10 10 Н П 12 12

Initials	
\checkmark	

						Na. 20070034																		rg	<u> </u>	01	of the constitution
Сс	nsec	c.Cası	# day	Vessel MILLE	R FRE	EMAN	Proj.	& Leg			vent# 392	Vesse	el Sta. I.D.	Inst	ructions								5	Sta. D	esignati	on	
Co	nsec st #		Latitu	ide (or	Lon	gitude	or		JD =		G1	me MT Min.	Dry Bulb	Wet Bulb	Ba m	ir.	Vis.	Wind Dir.	Wi Si	ind 3	Type	Weath.	Bot Dep	tom th, m	Sta. Na or I.	
ф	6 4	5	441	77	N J	452	5 4	OW	27	APR	9 4	02	5 5	2 2	. ()				615			- 1	1 1	2	471	32	ф 2
T	C	TD 9	1220-A					Me	onitor	Check	s		Tir	nes	JD/Time					Da	ita L	oca	tion				
			26072				on	Deck		at	Surfac	e		a on			Tap	oe/Di	iskette	I.D.					ne/Head		
			01		- 1	Press															_		CAST	<u>८५</u>	- 27 Apr	054	7
		SN 3				Гетр								tom							-	-					
			umult =	: 1.6		Cond							Start	: Up			Rema	arks									
ī						Other_								face a off			IXCITI	21 1/2									
	-7	Т	Trip	Time	_				itor V			1			. Values-C	TD			San	nple	Bot	.Da	ta		Sal.	Othe	rs
Pos	Bot.	Rack	Depth	Depth	Trip	Pre	ss.	Temp		Cond.	Ot	her	Press.	Temp.	Cond.		al.	The	erm-P		g Tw		Sa	1.	Bot. #		. <u>&</u>
	Ji ji		200								-		202,994	3,781	31,054	33,	334	0	ill .						33		1
2			70										70,414	3.636	30.180	32.	510	0.	260								2
3			55			-A-I							50.922	3.549	29.872	32.7	241	٥,	521								3
4	30-15	N/A	40			13.							Ho. 657	3.489	29,707	32,	801	0.	596								4
5			30								4		30.569	3,451	29.668	32,	633	0,	774								5
6			20								1		20.467	3,395	29,503	31,9	ૠહ	1.	136							= 25	6
7			10										10,846	3,439	29.498	31.9	23	1.	300		F <u>I</u>						7
8			0										6.927	3,449	29.499	31.9	719	١,	269								8
9		4																									9
10																											10
11																											13
12								В																			12

Initials _____

rs <u>45</u> 01 ____ Consec.Cast # Vessel | Proj. & Leg | Event # Vessel Sta. I.D. | MILLER FREEMAN | MF-94-04 | 893 Instructions Sta. Designation Latitude N Longitude E Date JD = 117 Bar. Wind Wind P Bottom S

mb S Si Dir. Sp. O D Depth, m Time Consec. Dry Bottom | Sta. Name Wet or I.D Bulb Bulb 3 6 013706018862 21613243 # 6 5 5 4 4 1 6 1 N 1 6 5 2 5 5 2 W 2 7 A P R 9 4 Q 3 3 5 2 5 CTD Type & SN 91220-A **Data Location** Times |D/Time **Monitor Checks** on Deck Data on_____ Tape/Diskette I.D. at Surface File Name/Header Press. SN 26072 at Surface_____ CASTO(5_27Apr 0327 Press. _____ Temp. SN 701 Start Down____ Cond. SN 303 at Bottom_____ Temp. _____ Start Up____at Surface_____ Floor vmult = 1.0 Cond._____ Remarks Other____ Data off _____ Sample Bot.Data Sal. Other Sal. Other So Samp. T Trip Time @ **Monitor Values** Conv. Mon. Values-CTD Bot. Rack Depth Depth Trip Press. Temp. Therm-P Avg Tw Temp. Cond. Other Cond. Sal. Sal. Press. 3:36: 31,025 173,957 3,778 33-319 6,089 35 50 49,728 3,557 29.950 0.413 32,327 56 49.887 29,950 32,326 0.451 3.557 0.518 3,555 29,950 32,328 50 49.841 5 49.951 0,443 29,950 32,327 3.556 50 6 50,161 29,950 32,328 0.469 6 3.556 50 7 49.882 29,950 3,556 32,327 50 804,0 8 8 3.557 32,327 50,104 29,950 0.372 50 9 3.556 0,486 50 50,023 32:327 9 29,950 10 10 П 11 12 12

Initials	
\checkmark	

rg. 66 01 Consec.Cast # 66 Vessel Proj. & Leg Event # Vessel Sta. I.D. MF-94-04 Sta. Designation Instructions Latitude N Longitude E Date JD = 117

 Bar.
 Sylventrian
 Wind Wind Sp. Of Sp. Time Consec. Dry Wet or GMT W Day Mo. Yr. Hr. Min. Cast # Deg. Min. S Deg. Bulb Bulb 466544033N 1652541W 27APR 946417 2 5 3 6 CTD Type & SN 91220-A **Data Location Monitor Checks** Times |D/Time on Deck Tape/Diskette I.D. at Surface Data on _____ File Name/Header Press. SN 26072 at Surface_____ CAST 667 - 27 A 0-0409 Press. ______ Temp. SN __701 Start Down_____ Cond. SN 303 at Bottom____ Temp. _____ Start Up_____ Floor vmult = 1.0 Cond._____ Remarks at Surface Other____ Data off Sal. Other Sonp. Sample Bot.Data **Monitor Values** Conv. Mon. Values-CTD Trip Time @ Bot. Rack Depth Depth Trip Therm-P Avg Tw Temp. Press. Temp. Cond. Sal. Sal. Press. Cond. Other 203,347 3,757 30,994 33,288 0.161 2 6,298 32,459 30,122 3.619 70 69.576 3 32.460 0,298 49.639 3,620 30,123 70 69.411 3,623 32.466 0.316 30.130 40 5 32,468 69,369 3,623 30,132 6,289 30,128 6 69.266 0.318 3.622 32.464 70 7 70 69.386 3.621 30.128 32.465 6,289 8 30.131 32,467 0,289 76 69.484 3.622 32,464 9 3.622 30.130 69,315 0,374 9 70 10 10 H 12

Initials _____

rg. <u>67</u> 01____ Consec.Cast # Vessel Proj. & Leg Event # Vessel Sta. I.D. MF-94-04 895 Sta. Designation Instructions 190 Latitude N Longitude E Date JD = 117 Time Bar. Wind Wind Phologram Arganian Sp. On Pho Bottom | Sta. Name Consec. Dry Wet Cast # Deg. Min. S Deg. W Day Mo. Yr. Hr. Min. GMT Depth, m or I.D Bulb Bulb 16 6 5 124700018862 19013205 CTD Type & SN 91220-A **Data Location** ID/Time **Monitor Checks** Times Tape/Diskette I.D. on Deck at Surface Data on_____ File Name/Header Press. SN 26072 at Surface_____ CAST -67 - 27 Apr \$447 Press. ______ Temp. SN __701 Start Down_____ Cond. SN 303 at Bottom_____ Temp. _____ Start Up_____ Floor unult = 1.0 Cond._____ Remarks 136 was at Surface Vute Other____ Data off Sal. Other vi Bot. # Samp. Sample Bot.Data **Monitor Values** Conv. Mon. Values-CTD T Trip Time @ Bot. Rack Depth Depth Trip Therm-P Avg Tw Press. Temp. Cond. Sal. Sal. Temp. Cond. Other Press. 5:49: 95 95.200 3.723 30,515 0.156 32.810 3/ 569 2 2 30,163 0.321 70 32.494 71.638 3,632 570 3 3 29,909 56 49.628 3.549 32,285 0.438 571(?)4 3.483 32,34 0,437 HA 19.713 40,540 5 3.445 30 30 045 19.622 1,046 32,056 572 6 3,257 6 20 29,184 20.452 1.831 31.72 573 7 10.461 29,121 10 3.278 31.630 1,972 574 8 3285 29.103 8 1.583 -0.040 31.607 0 10 10 H 11 12 12

Initials	
√ .	

rg. 68 01

Sta. Name

or I.D

3807

Sta. Designation

Bottom

Depth, m

91

Wind

Dir.

3 5 5

Tape/Diskette I.D.

Sp.

Data Location

	Floor vmult = 1.6 Cond. Other								Start Upat SurfaceData offConv. Mon. Values-CTD					Remarks						
SS.		T	Trip	Tim Depth	e @ \			r Values							nple Bot.D		Sal. Bot. #	Other	T	
<u>م</u>	Bot.	Kack	Depth	Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.	Bot. #	Samp.	10	
غاند	4	- 19.5	60							59.679	3.535	29.752	32.106	0.342				al		
2			45		/					44.364	3.369	29.509	31.985	0.842				are	2	
3	y q		ንወ							29,595	3.213	29.238	31.826	1.810	II.		4	che	3	
4	-21		20							20.834	3.215	29,229	31,816	1.718				Oul	4	
5			10							9.938	3.215	29,222	31.814	1.805			25	Clul	5	
6			0									29.225	31.815	1.853				Chr	6	
7																			7	
8																			8	
9																			9	
10													7						10	
Ш								·											11	
12																			12	
_			L				L	ĺ			·	/					Initials _	(A)		

Consec.Cast # 668 Vessel MILLER FREEMAN

Latitude

Min.

S Deg.

Consec

Cast #

Deg.

CTD Type & SN 91220-A

Press. SN 26072

Temp. SN 701

Cond. SN 303

068545276N

Proj. & Leg

on Deck

Press. _____

Temp. _____

MF-94-04

Longitude E Date ID = 117

Event#

at Surface

Day Mo. Yr.

Monitor Checks

Vessel Sta. I.D.

Time

GMT

Hr. Min.

Instructions

Wet

Bulb

JD/Time

Bar.

mb

1403.5

04

Dry

Bulb

Times

Data on_

at Surface____

at Bottom__

Start Down____

01

18 69 01 Consec.Cast # Vessel Proj. & Leg
MILLER FREEMAN MF-94-04 Proj. & Leg Event # Vessel Sta. I.D. Sta. Designation Instructions Latitude N Longitude E Date JD = 117 Time Bar. | Wind | Wind | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Photo | Bottom Sta. Name Consec. Dry Wet Consec. Or Or Or GMT
Cast # Deg. Min. S Deg. W Day Mo. Yr. Hr. Min. or I.D Depth, m Bulb Bulb 6695446 18N 1656 48 (W 27 APR 942 6 16 - 01 - 6 7113947 CTD Type & SN <u>91220-A</u> Monitor Checks
on Deck at Surface **Data Location** Times ID/Time Data on_____ Tape/Diskette I.D. File Name/Header Press. SN 26072 at Surface_____ CAST 069_ 27 Apr 2012 Temp. SN _ 701 Start Down_____ Cond. SN 303 at Bottom_____ Temp. ______ Start Up_____ Floor vmult = 1.0 Cond._____ Remarks at Surface Other_____ Data off _____ Sal. Other Samp. **Monitor Values** Sample Bot.Data T Trip Conv. Mon. Values-CTD Time @ Bot. Rack Depth Depth Trip Temp. Therm-P Avg Tw Sal. Temp. Press. Cond. Sal. Press. Cond. Other 29,481 0.445 31.959 60 61.139 3.355 Onl 2 45 44,933 29.462 31.953 3.347 0,463 Che 3 3 31,877 0.467 3,267 30 29.326 30,181 31.894 4 0.512 20 20.139 3,230 19.268 Che 5 10,269 29.262 402.0 FH8.1E 3,229 10 20,21 (20 6 29,279 3.254 FH4.0 P48.18 0980 0 07 8 10 10 11 П 12 12

Initials			
\checkmark	_		

																						16	34	01		
Cor	isec	.Cast	¢7	Vess	el .ER :	FREEMAN	Proj.	Proj. & Leg MF-94-04		E	vent#	Vessel Sta. I.D.		Instr	Instructions							Sta. D	on			
Con Cas				tude Min,	N or S		ngitude	or	Date	-	= Yr.	Tin GM Hr.	1T	Dry Bulb	Wet Bulb	Bar. mb	ج ج s.</td <td>Wind Dir.</td> <td>Wind Sp.</td> <td>Cloud</td> <td>Type Weath.</td> <td>Bott Dept</td> <td>h, m</td> <td>Sta. Nai or I.D</td> <td>)</td>	Wind Dir.	Wind Sp.	Cloud	Type Weath.	Bott Dept	h, m	Sta. Nai or I.D)	
4-	7 6	s	4 4 6	, 3 4	Ν	1645	5 2	S W	2 7	APR	9 4	2 3	41	00	- 16 7		2 7	3 3	5 0 7	8	62		611	4 0	F 4	
	C.	TD o	1220-	Δ				Mo	onitor	Chec	ks		Ti	mes .	JD/Time				Data	Loc	ation				\mid	
			6072	•	_		on	Deck		ā	at Surfac	:e)	a on			pe/D	iskette	I.D.				re/Head		1	
					_	Press							1	face own	<u> </u>						CAST	IST - 27 Apr 2236				
	-					Temp							1	tom												
				= 1.6		Cond							· 1			- Po-										
					-								at Surface Remarks													
		Т	Trip	Tin		Other_			itor V	alues				a off	. Values-CT	.D	Sample Bot.Data						Sal	Other	ان ا	
Pos	3ot.	Rack	Depth	Depth	T	rip Pre	ess.	Temp		Cond.	Oti	ner	Press.	Temp.	Cond.	Sal.	Th	erm-P				al.	Bot. #	Other Samp.	Po	
-1		i de la comp	۵				tracherlasser derhalt drassharassa finn		teratrosator salari		uha sandan - In sahasilifina histori silanasilandahin	Market Andrew Sell Service - Add	61.286	3,269	29.237	31,811	د	C49	and received a received in these block	anala dilandrahar di	Sido ribberhall sanha air mann - d	the transfer of the same and the same		Che		
2			45										44.796	3,206	29,226	31.869	0	.598	*					Che	2	
3	e i-	40.56	36										29.639	3,207	29.218	31.806	0	,630	,					Che	3	
4		5 t = 1	26										19,243	3,264	29.40	31.806	0	.632						Chl	4	
5			اه		-								9.607	3,215	29.216	31.807	٥	.564					30	che	5	
6			٥										0.171	3.236	29.229	31.867		.377					475	Che	6	
7			'n																						7	
8													<u></u>				┸								8	
9																									9	
10																									10	
11									,																II	
12																									12	

Initials	
\checkmark	

18. 71 01 ____ Consec.Cast # \$71 Vessel Proj. & Leg Event# Vessel Sta. I.D. Sta. Designation Instructions 967 MILLER FREEMAN MF-94-04 Latitude N Longitude E Date JD = 118 Time Bar. Wind Wind Back Sp. OF Sp. OF Sp. Consec. Bottom Sta, Name Dry Wet or GM1 W Day Mo. Yr. Hr. Min. Cast # Deg. Min. S Deg. or I.D Bulb Bulb Depth, m 9715432 19N 1652484 W 28APR 940206 -05 052731012862 CTD Type & SN 91220-A **Data Location Monitor Checks** Times ID/Time on Deck at Surface Data on_____ Tape/Diskette I.D. File Name/Header Press. SN 26072 at Surface_____ CAST 671 - 28 Apr 4241 Press. Temp. SN 701 Start Down_____ Cond. SN 303 Temp. _____ at Bottom_____ Start Up_____at Surface_____ Floor vmult = 1.0 Remarks 29 max depth Cond._____ Other____ Data off NLTS Sal. Other So Bot. # Samp. **Monitor Values** Conv. Mon. Values-CTD Sample Bot. Data T Trip Time @ Bot. Rack Depth Depth Trip Temp. Therm-P Avg Tw Sal. Temp. Cond. Press. Cond. Sal. Press. Other 62'07: 75 75.096 29,994 574 3,586 32,336 0.576 30 29,506 31,950 0.873 2 3,396 60 59.941 29.345 31.830 3 44,795 45 3 329 1.187 29,260 31,769 3.297 4 30,036 1,400 30 3,178 5 29,003 31,581 2,040 20.186 20 10.240 1,746 3.169 29,891 31,460 6 10 28,890 31.460 0.961 3173 0.524 575 0 8 9 9 10 10 П 11 12

Initials _____

Con	sec.	Cast	# \$7	Vesse MILL	el <u>ER FRI</u>	EEMAN	Proj. & Leg MF-9		E	vent#	Vesse	Sta. I.D.	Instr	uctions				Sta.	Designati	ion	
Cons Cast	#	De	-	Min.	or S [Longit Deg.	or W	Day	-	Yr.	т	1T Min.	Dry Bulb	Wet Bulb	Bar. mb 1004;5		Sp. 8		epth, m	Sta. Nar or I.D)
07				92	N /	6529			APR		۵ 6		08	-03	05	17310			190	1 4 2	\$ 7
Type & SN 91220-A Type & SN 91220-A Monitor Checks on Deck									Times JD/Time Data Location Data on Tape/Diskette I.D. File Name/Header												
Press. SN 26072 On Deck at Sylface								Le		face						2-28 Re					
Tem	•				- I	Press							own					<u> </u>			
Cone			mults:			Гетр							tom								
		C	MUSES	= 1.0		Cond Start Up Remarks max better 185															
		- 1	Trip	-		Other			. 1				off	V.I. CT		Co.	nula Dat D				
S B	ot. R	lack	Trip Depth	Time Depth	e @ Trip	Press.	Temp	itor V	Zond.	Oth	ner	Press.	Temp.	Values-CT Cond.	Sal.	Therm-P	nple Bot.D Avg Tw	Sal.	Sal. Bot. #	Other Samp.	Pos
th is	7		185									185.618	3,708	30.960	33.188	0,424			2	706	$\overline{}$
2	ari.	a j	60									40.74	3.543	29.830	32,192	0,884			Che		2
3	64		45									44,462	3,410	29.499	31.936	1.312			Che		3
4	3		30		3							29.511	3.332	29,329	F18.15	1.269			Che		4
5			20			West						19.364	3.304	29,265	31.773	1.440		<u> </u>	Che		5
6			10		- N							10.826	3,279	29.207	31.733	ા,પમુરુ			Che		6
7		\perp	0		01		-					-0.337	3, 724	28.976	31.515	1.489			Cho	705	7
8																					8
9																					9
0																					10
П												3							8 8		11
2																			= 47		12

Initials	
√	

'0 _____

					omi																	٥ '	73.	٧٠,	
Сс	nse	. Cas			el <u>ER FRE</u>	<u>EMAN</u>	Proj	j. & Leg MF-9		E	vent# 982	Vesse	l Sta. I.D.	Ins	tructions					<u> </u>		Sta. D	esignati	on	
	nsec st #	De	Latit eg.	tude Min.	or S D	Lon eg.	gitude	e E or W		JD =		Tir GN Hr.	1T	Dry Bulb	Wet Bulb	Ba mi		Win Si Si Dir	d W	/ind 3	Type Weath.	Bott Dept		Sta. Nai or I.D	
6	7 3	5	44	3 5 1	N 1	653	38	5 W	28	APR	9 4	09	40	05	00		- 1	3 7 3 2			362	1	5 p 1	430	Þ 7
Tyr	C	TD S	1220-A	١				M	onitor	Check	(\$		Ti	mes	JD/Time						ocatio	n			
			26072		_		on	Deck		a	t Surfac	e					Tap	oe/Diskett	e I.D.			ile Nam			
		5N_7			_ P	ress								rface	•						CAS	ST073_	28APR	1930	
	-	$\frac{1}{3}$			_ T	emp							at Bo	tom											
_					_ c	ond							Star	t Up			Rema	arks LIGH	TME	TER	NUI E. J.	IDROM	ETER	CHLAM	
_					_ c	ther								rface a off						424	. ,	(Alexania		Note	
· i		Т	Trip	Tim	1e @			Mon	itor V	'alues					n. Values-C	TD		FLUORSE	mple	Bot.	Data	ð:	Sal.	Other	
Pos	Bot.	Rack	Depth	Depth	Trip	Pre	ss.	Temp).	Cond.	Oth	er	Press.	Temp	Cond.	Sa	l	Therm.P	Av	g Tw		Sal.	Bot. #	Samp.	Pos
1		÷.,,,,	240	41									236.776	3.794	31, 123	33.3	86	0.121					32	707	1
2	(describe	grand.	60										0.823	3,428	29.733	32,	90	0.628							2
3	GREEN	Pog. 1815 v.	45									4	5.776	3.427	29.703	32.1	62	0.438							3
4	Port	7	30		700								30,843	3,428	24.680	32.1	¥1	1.149	W =						4
5			20				8					6	20.711	3,434	29.650	32.1	06	1.449					2		5
6			10									,	10.941	3,481	29.627	32.0	37	1.953							6
7			0										0.430	3,489	29.573	31.9	69	1.440						700	7
8																									8
9			383																I						9
0																									10
11											igi														11
2		<u></u>	jii		4																			_	12
	1	1									I	_							1		= =	1	nitials	(A)	

_=				-1															0.74	U)	
	onse	c.Cas	074	Vesse MILLE		REEMAN_	Proj. & L	2g 94-04	Eve 90		Vessel Sta. I.D.	Instr	uctions					St	a. Designati	ion	
ŀ	onsec ast #		Latit		N or	1000000	gitude E	Date	JD =	Yr.	Time GMT Hr. Min.	Dry Bulb	Wet Bulb	Ba m	ar.	Wind	Wind Sp.	Type Weath.	Bottom Depth, m	Sta. Nai or I.D	
				23	N 1	655	9 6 3 V	28	A P R	4	1444	0 2	_ 6 5	0	ų l	3 2 6	1 1 1	67	4851	44	57
T	ne &	TD (91220-4		ļ		1	1onitor	Checks		Ti	mes	JD/Time				Data Lo	ocation			
			26072	,	-		on Deck		at S	ırface	- 1				Tap	e/Diskette	I.D.	File	Name/Head	der	
1		SN_			-	Press						rface own	•	— I				CAST	74_28A	<u>PR142</u>	7
(SN_3		· · · · · · · · ·	-	Temp			_		1	ttom									
						•					Star	t Up		}	D	arks LIGHT		Ti unD	METHOR	Land Trees	*24.6-72
-												rface			Kema	ITKS LIGHT	FIELEK/	, track	Note: IEK		
-	Т	T +	Trip	Tim		Other _		nitor V	alues			a off	Values-CT			FLUOR San	nnle Rot I	Data	Sal	Other	— N
Pos.	Bot.	Rack		Depth	Trip	Pre:			Cond.	Oth		Temp.	Cond.		al.	Therm-P				Samp.	%
1		3.4	B+10			= 50 0-					477.369	3,532	31.490	33,	967	0.234			19	709	
2	La Co	6.4	60				■ V			-	61.212	3,603	30.095	32.	446	0.361			-	11 87	2
3		54	45		1		ΕĒ				45.361	3,590	30.072	32.4	42	0.377					3
4	54.5	2.8	30		(A)						30.378	3.497	29.427	32.	369	0,418					4
5	<u> </u>		20								20.483	3.401	29.804	32.	323	0.452		_		12	5
6			10				VI					î -	29.796							13 1	6
7			0								0.632	3.363	29.720	32,7	171	0.514				710	7
8																					8
9										<u>. </u>											9
10																					10
11																					11
12																					12
						-	•		•					1	,	_	ا مالام		Initials _	(DN)	

CHLam exceeded max depth! But values on log file look reasonable.

				94	6-Tall							·									٠ 6	1 5	<u> </u>	
Consec.	Cast		<u> </u>	I <u>R F</u> f	REEMAN	MF-	-94-04	1-	ent#		Sta. I.D.	Inst	ructions		· <u> </u>						Sta. Des	ignatio	o n	
Consec. Cast #	Deg	Latit		Or S	Long Deg.		or [JD = Mo.	·	GM	Ţ	Dry Bulb	Wet Bulb	Ba m [50	r. اه د	Vis.	Wind Dir.	Wind Sp.	Cloud	lype Weath.	Bottoi Depth,		Sta. Na or I.E	
075				N	16550	11	w 28	APR	9 4	18	22	08	02				2 (1	386		1 4	81	45	\$
CT Type & Si	D 93	1220-A				ı	Monitor	Checks			Ti	mes	JD/Time				*	Data	Loc	ation				
Press. SN	<u> </u>	072	· · · · ·	-	Press	on Dec			Surfac	e	at Su	rface	•	1	•			I.D.			e Name			
Femp. SN Cond. SN					Temp							own ttom												
	\				Cond.						Star	t Up rface			Rema	ırks								
		-			Other							a off												_
Bot. F	T Rack	Trip Depth	Time Depth	e @	p Press		onitor V	alues Cond.	Oth	ner .	Press.	onv. Mon Temp.	. Values-C7 Cond.	Γ D Sa			ը San m-P	nple B Avg			al. B		Other Samp.	
	A .	B+10			7 11 (633			CONG.				3.731		1						30	11. ·	10t. #	08	
2	(A)	60										3.601												
A State of S		45						-		4	5.579	3,486	29.761	32.	173	0.3	88							
	No.	30		9						3	0.205	3.208	24.334	31.9	45	0.4	128	-						
		70								2	0.366	3.121	29.209				-							1
,	_	10								10	2.571	3.118	29.201	31.8	84	0,5	87							
		0								0	1082	3.132	29,208	31.88	23	0.5	73							
3	\perp																							1
																								1
D	\perp					_																		1
1	\perp								· · .															l
2																						tials	CHINA .	12

Pg. **76** of _____

														75		P	g. 70	of	<u> </u>
Cor	nsec	Cas	t # ७२।	Vesse MILLE	I R FRE	EMANPr	oj. & Leg MF-94-0		vent# Vess	sel Sta. I.D.	Instr	uctions				Sta. I	Designati	on	
Con Cas	isec.	De	Latit	ude	or S D	Longitu eg.	or W D:	ay Mo.	Yr. Hr.	ime MT Min.	Dry Bulb	Wet Bulb	Bar. mb hoolho	Wind Dir. 2 5 2 5 5	Wind pno		ttom oth, m	Sta. Nar or I.D	
Гуре Pre Ten Cor	e & S ess. S np. S nd. S	TD 5 N 2 SN 2 SN 3	01220-A 26072 701 03		- P	ress.		or Check	s : Surface	Til Dat at Sur Start D at Bot	mes a on face own tom	ID/Time	Тар	pe/Diskette	Data Loc	cation	me/Head	der	-1 -,
	. 10	bvr '	vmult:	= 1.0	- `					at Sur	: Up face a off		Rema	irks Max de	epth = 7	5		NU	13
20	_	T	Trip	Tim	e @		Monitor	Values		# C	onv. Mon.	Values-CT	D	San	nple Bot.D	ata	Sal.		
<u>ج</u> او	3ot.	Rack	Depth	Depth	Trip	Press.	Temp.	Cond.	Other	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tw	Sal.	Sal. Bot. #	Samp.	12
1			73							7487	3,724	30,376	32,654	0.348				714	1
2			40						1.2	59.894	3,706	30.190	32,578	6.537					2
3	PER S		45							45.257	3.649	30.135	32.458	0.546					3
4		<u> </u>	30		88	Ä			16	30,166	3,569	29.845	32. ² 59	0.532					4
5			10				_ =			19,918	3,462	29.763	32.212	0.577			17		5
6			10				v			10,334	3,411	29.682	32.172	0,548					6
7			0			:1				0.674	3,360	19.582	32,108	0.357				713	7
В										:					×				8
9			19						W										9
0																			10
1	_																		11
2												}							12
2																			-

									a = u = = =												0 T	†	
Cons	ec.Cas	st # b 7	7 Vesso	el ER F	<u>REEMAN</u>		MF-9	4-04		vent#	Vesse	l Sta. I.D.	lnstr	ructions	·		•			5	ita. Desigi	nation	
Conse		Latit eg.		N or	Lo Deg.	ongitude	e or W	Date	J D =		Tin GN Hr.	1T	Dry Bulb	Wet Bulb		Bar. mb		ind W ir. S	/ind piol	Type Weath.	Bottom Depth, m	Sta. N	
47	75	406	03	N	166	145	Z W	28	APR	9 4	23	5 4	08	0			153		48		8 2	147	6
Typo	CTD ,	91220-A	\ <u>-</u>				Me	onitor	Check	S		Ti		JD/Time				D	ata Lo	cation			
1		26072		-		on	Deck		at	t Surfac	e	1	ta on			1	Tape/Diske	tte I.D.			Name/H		a
l	. SN <u></u>				Press						···		rface own	•						CAST	677_7	SApr 2	550
	. SN_3			_	Temp								ttom		<u> </u>	-			_				- -
				-						-		at Su	t Up rface ta off		II.	Rei	marks				0)	Nv	T5
vi	Т	Trip	Tim	e @	_			itor V	alues				onv. Mon.		TD	• 1	Floor	Sample	Bot.D	ata	Sa	il. Otk	er so
& Bo	t. Rack	Depth	Depth	Tr	ip Pr	ress.	Temp). (Cond.	Otl	ner	Press.	Temp.	Cond.		Sal.	Lberm	₽ Av	vg Tw	Sa		. # Sam	p. a
L		80			-							80,169	3,674	30,725	3	3.120	0.395				11	715	0 1
2	a aleg	60										59.49g	3.688	30,712	3	3.090	0.380	>				i	2
3	*	45										45,262	3,740	30,78	3	2.54	5 0.58	8					3
4	1	30	8.	夫						ļ		29.784	3,719	30,112	3	2,369	8 0.60				52		4
5		20										20,236	3,715	30.089	3	2,350	0.63	7					5
6		0										9.649	3.745	30.676	3	2.311	0.539	,		K			6
7		Ó										0.069	3.575	30,08	3	2,308	8 0.45	3			111	715	7
8																							8
9		=							<u> </u>														9
10			0																				10
П				ħ						W	17.												11
12										ì					}		ŀ						12

Co	nsec. (Cast # e	ન્ક Ve MI	essel LLER I	FREEMA		Pro	oj. & Le MF-9	g 14-04		Eve	ent#	Vess	el Sta. I.D),	Instr	ructions						•				Sta	. Desi	ignatio	on	
1	nsec. st #	La Deg.	titude Min.	N or v		Long	gitud		Dat	e JI		Yr.	G	ime MT Min.	Dr Bul	,	Wet Bulb	B	ar. nb	5. 5.	/is.	Wind	1	Vind Sp.	pnol	Type	B D	otton epth,		Sta. Nar or I.D	•
a	78	541	1 11	8 N	164	11	7 (1	•			 	- 56	1	ч	0 8		3		-	20			1			17	4 1	480	38
Тур	CTI e & SN	D 91220	I-A	<u> </u>	<u> </u>				onito	r Ch		Surfac	re	- 1	Fimes ata on		JD/Time	•	T	ape		kette	C	ata		atio	n	Jame/	/Heac	ler	
1		1 26072 1 701			Pres	ss								at S	urface.		·			-F -										pr 62	પક
Co	nd. SN	303			1									Sta	art Up				Rer	narl	<s< td=""><td>172</td><td>Y-4</td><td>- d</td><td>aatt</td><td></td><td></td><td></td><td></td><td><u> </u></td><td></td></s<>	172	Y-4	- d	aatt					<u> </u>	
_	<u>-</u>	T Tri	n 1	ime @	Othe									D	ata off		. Values-CT					√ Sa							Sal	Other	1.2
Pos	Bot. R	ack Dep	th Dep	th T	rip	Pres	s.	Tem		Con		Ot	her	Press.		emp.	Cond.		Sal.			m=R					Sal.	В	ot. #	Other Samp.	S.
1							150							172,139	3.	823	30,718	32.	910		0.7	حاد	-		F					718	1
2	V-10-10	60	>				×							60,121	3.	.631	30.112	32.	441		0.1	72									2
3	92 E	49			g i i			A.					= 1	45,248	3.	663	30.066	32,	367	-	0.1	83									3
4	A	3.	د	ä										30,127	3,6	986	30.063	32.	343		0,6	154				4			15		4
5		2	5		03									20,122	3.	653	30,015	32	321		٥,٥	63									5
6		14	,					\$5,50						10.054	1 3.	619	29.964	91	,367	4	0.	93 8				,	ħ				6
7			၁	=										-0.05	5 3.	526	29,438	32.	134	<u>\</u>	D.5	23						\perp	-	717-	7
8					_																							\bot		<u> </u>	8
9		63													X															<u> </u>	9
10				020				93												1			ļ								10
į	24	11 22						<u>.</u>				- 54				···													·····		Ш
12												**												_					tials		12

Pg. <u>17</u> of _____ Sta. Designation 1 654 02

																			Pg. 17	<u> </u>	
C	onse	.Cas	t # Φ7	9 Vesse	el ER FR	REEMAN	Pro	j. & Leg MF-94-	-04		ent# Ves	sel Sta. I.D.	Instr	uctions				St	ta. Designat	ion	
Ca	onsectist #	De			N or S		ongitud	e E or W	Date Day	Mo.	Yr. Hr	Time GMT Min.	Dry Bulb	Wet Bulb		Wind Si Dir. A R C C C C C C C C C		√ Weg	Bottom Depth, m	Sta. Nar or I.C)
)1220-/		1	1010				Checks				JD/Time			Data Loc			1.1.1.	
Pı Te	ess. S mp. S	SN_2 SN_2	26072 701		- 1	Press.	on	Deck			Surface	Dat at Su	a on rface own		Ta	pe/Diskette	I.D.	File CAST t	Name/Hea > 79 _ 296	der Apr 06	53
				= 1.0	-							Stan	tom t Up rface a off		Rem	arks					
Pos.	Bat	T	Trip	Tim	e @			Monit				С	onv. Mon.	Values-CT		Fluer Sar	_*			Other	. S.
<u>a</u>	BOL.			Depth	Trip		Press.	Temp.	C	Cond.	Other	Press.	Temp.	Cond. 30.762	Sal.		Avg Tw	Sal.		Samp.	4
_		A	200	50								201,791	3.655 3.69%	30,262	33.116	0,257			29		
2			60									60.123			(30						2
3			30									45.30		30.03	32,453						3
4			70									29,734	3.482	29,921	32,377	0,696					4
5			20	1								19.973	3.561	29.967	32.359	0.614					5
6			10									10.060	3.630	30.04	32.351	0,594					6
7			0									-1,004	3.692	30,014	32.295	0.504					7
8																					8
9			11111																		9
0									<u> </u>												10
Ш						1															11
2																					12
		<u>.</u>			L														Initials		لــــــــــــــــــــــــــــــــــــــ

Pg. **80** of ___ Sta. Designation Bar. Wind Wind Page High Bottom Depth, m Sta. Name or I.D

								<u>`</u>	<u>" </u>				03.1																						
Consec.		Latit		N or	l	Longi	itud	је	E or	Da	ate	JD =	119		Tir GN			Dry		W			lar.	ای	w	ind	Wii Sp	nd ·	و و	žath.	Вс	ttom		a. Nan	
Cast #	De	g.	Min.		Deg.					I		Mo.			⊣r.	Mir		Bulb	1	Bu	lb		nb	S S S		ir.	Sp	·	္ပိုင်	- ≥	De	pth, m		or I.D	
980	5	3 5 4	262	1 N	6 7	729	1 3	3 8	W	2	9	A P R	9 4	+	4	2	3 0		6	0 0	0	0	1	15	0	0 0	O	0	8 6	7	1/3	28	1	500	B
		1220-A										Check						mes		JD/Tin	ne						Dat	ta L	.oca	tio	n				
ress. SI							or	n D	eck			at	Surf	ace				a on_					Т	ape/E	Diske	tte l	.D.			F	ile Na	ıme/H	eade	er	
		01			Press	S						7 44	· ·			1											···	-		ÇA:	ST <i>080</i>	7-29	APR	1414	
					Temp). <u> </u>				4						_ a	t Bot	tom_										-							
7100	× /	umult	= 1.0		Conc	1.										- ,	Start Sur	: Up_ face_					Ren	narks	LIG	HTP	ETE	۵,	FLU	OR	OMETE	ER, CH	Lam		
					Othe	r										- `	Dat	a off_															_	SIVE	
Bot. F	T Rack	Trip	Time Depth	e @	_	Press.			Mor Temi			alues Cond.	1 0	ther	_	Pre			Mon.	Value Co			Sal.		er TII		<u> </u>				Cal			Other Samp.	
		- 35		тпр		1 1 633.		Ë	CIII	<i>J</i> .	_	zoria.		uiei	11				•								Avg	; I V			Sal.			720	
		200	10		1															30.7		$\Gamma^{}$		1	170	-						1	6	721	
15:501	A CALLY	60										= 1				60.	232	3.6	65	30	412	32	52	6 C	.40	4	ī"		\perp						2
31070000	44.4	45			- 1										_ (45.6	77	3,54	+7	30.	251	32	45	0	,616										3
10112		30			1000									_	3	30.7	29	3.5	25	30.0	19	32	45	0	,69	1									4
		20														19.6	50	3,4	192	29.	973	32	.43	10	.57	4									5
		10			1					393					1					29.		I			58)							,	122	6
		0		==												0.2	03	3,4	96	29.	148	32	411	0	52	5	П								7
																					Т														8
		9			1	'n				·																									9
											•														6					5					10
					1																		9.,	A		\neg			1						11
															T		1					W	•												12

Vessel Sta. I.D.

Instructions

Event#

1054

Consec.Cast #

Vessel

080 MILLER FREEMAN

Proj. & Leg MF-94-04

Pg. 81 of ____ Consec.Cast # & Vessel Proj. & Leg Event# Vessel Sta. I.D. Instructions Sta. Designation MILLER FREEMAN MF-94-04 Longitude E Date JD = [14 Latitude Time Weath. Consec. Dry Wind Bottom Sta. Name Wet Bar. **GMT** Cast # Bulb Bulb Dir. Depth, m or I.D Deg. Min. S Deg. W Day Mo. Yr. Hr. Min. 1001510 2 1 1637 01 CTD Type & SN 91220-A **Monitor Checks JD/Time Data Location** Times Tape/Diskette I.D. on Deck at Surface Data on..... File Name/Header Press. SN 26072 at Surface_____ GAST081_29APR1632 Temp. SN 701 Start Down Cond. SN 303 Temp. _____ at Bottom Start Up_____ Floor vmult = 1.0 Cond.______ Remarks LIGHTMETER, FLUOROMETER, CHLAM at Surface____ Other____ Data off FLMOR Sample Bot. Data **Monitor Values** Conv. Mon. Values-CTD Sal. Other Time @ Bot. Rack Depth Depth Trip Bot. # Samp. Chl Therm-P Avg Tw Press. Temp. Press. Temp. Cond. Other Cond. Sal. 90 37:20 91,902 3.837 30,595 32,792 0.173 007 723 2 60 60.629 3.749 30.330 32.581 0.261 3 45 44.835 3.707 30.242 32.528 0.320 4 30 30.370 3.695 30.063 32.433 0.492 5 20,218 3,654 30,052 32,367 0.988 20 6 10,101 3,686 30.055 32,344 1.068 10 724 -0.542 3.691 30.034 32.320 1.140 725 8 9 10 11 12 N.B. Surface bottle may be contaminated by engine room discharge Initials

Pg. <u>82</u> of ____ Consec.Cast # Vessel Proj. & Leg
MILLER FREEMAN MF-94-04 Event# Vessel Sta. I.D. Sta. Designation Instructions 1073 Latitude Longitude E Date ID = Time Wind Wind Dir. Sp. Oned Arthur Sp. Sp. Oned Arthur Sp. Oned Ar Consec. Dry Wet Bar. Bottom Sta. Name GMT S Deg. Cast # Deg. Min. Bulb Bulb Depth, m or I.D W Day Mo. Yr. Hr. Min, 82533218N1671841W29APR942009 81 15208 0217 0867 CTD Type & SN 91220-A **Monitor Checks** Times ID/Time **Data Location** on Deck Tape/Diskette I.D. at Surface Data on_____ File Name/Header Press. SN 26072 at Surface____ CAST 082_29Ap 2005 Press. _______ Temp. SN __701 Start Down_____ Cond. SN 303 Temp. _____ at Bottom_____ Start Up____ Floor vmult = 1.0 Cond._____ Remarks at Surface_____ Other_____ Data off NUTS Trip **Monitor Values** Conv. Mon. Values-CTD Sample Bot.Data Sal. Other Time @ Sal. Other Sonp. Bot. Rack Depth Depth Trip Temp. Press. Temp. Cond. Other Press. Cond. Sal. Therm-P Avg Tw 79 6.277 30,465 32.645 727 79,505 3.836 2 30,319 60 60.233 32.491 0,327 3.827 3 30,272 0.323 45,173 3,808 32,462 30.188 0.365 30,237 3.811 32,426 19.951 5 3,810 20 0.410 30,180 32,364 35 3.817 10,157 3016 32,340 0341 3,801 30.127 32.324 0,239 70,480 726 8 10 10 11 12

<u>-</u>			·	 .		 -														Pg.	83	of	
Cor	nsec.	Cast	t # ∞€	¥3 Vess		REEMAN		MF-9	4-04		Event#		sel Sta. I.D.	Instr	uctions					Sta. Des	signati	on	
Con	sec.		Latit	Min.	N or	Long Deg.	gitude	e or W	l	e JD : / Mo.			ime GMT Min.	Dry Bulb	Wet Bulb	Bar. mb	Wind	Wind Sp.	Cloud Type Weath.	Botto Depth,	m , m	Sta. Nar or I.D	
ę	3	5	3 4 3	378	N	1674	3 6	6 W	3 2	APF	₹ 9 4	0 1	033	2 1	1 1	03		1 1 1	661	135	31	5 3	1/1
Туре	CT & SI	D 9	1220-A	λ				M	onito	r Chec	ks		Ti		JD/Time				Location	n .			
			6072		_		on [Deck		;	at Surfa	ice	4	rface			ape/Diskette			ile Name			C
	•		01		_	Press				•	-			own					CAS	T ○83 .	30 Pp	- 00 2	.
			03		-	Temp								ttom									
	100	ME /	mult	= 1.0	_	Cond Other							at Su	t Up rface ta off		Ren	narks made	pth=20	2				
S, L		T	Trip	Tin	1e @					Values			C		Values-CT	D		nple Bot			Sal.	Other Samp.	8
	Ot. H	каск		Depth		ip Press	s	Temp). 	Cond.	01	ther	Press.	Temp.	Cond.	Sal.	Therm-P	Avg Tv	v	Sal. E	Bot. #		
		4	150	20	d distribution due to					and the State of	The stage of Australia		149,148	3,833	30,750	32,951	0.182	-about the reference on the file	shahadha d	hangarilla	10	729	1
2			60										59,767	3.975	30.642	32,727	०.५०।						2
3			45										ध्य,७५2	3802	30,347	32,557	6.492				\ \ \.		3
4			30			=							19.864	3,696	30,122	32,414	0,170						4
5			20										19,959	3,765	30,173	32,401	ଚ ୍ଚ୍ଚର						5
6			10		_				,	-			10.164	3,901	30,279	32,397	0.629						6
7	_		0				_				_		-0.188	3,960	30,359	32.399	6.450				_	128	7
В		_			-						-												8
ו מ																							9
-	_	_															-						${f -}$
0	_																	8	5			53	10
-																		5				23	10

																										۲۶	84	01	
Con	sec.	Cast	* 68	Vess MILL ude	el ER [REEM	AN	Proj	. & Le	g 34-0	+	Ev	ent# 096	Vess	el Sta. I.D.	Instru	ıctions						,			Sta. D	esignati	on	
Con: Cast	sec.	l		ude Min.	N or S			gitude	or	- -	,			G	me MT Min.	Dry Bulb	Wet Bulb	- 4	Bar. mb	S. S.	Vis.	Wind Dir.	Win Sp.	Cloud	Type Weath.	Bot Dep	tom th, m	Sta. Nai or I.D	
09	\$ 4	5	3 3 7	7 8	N	16	73	6 5	6 W	3	A A	PR	9 4	03	17	22	1 4	, 0	3	1		5 5		1 1	61		901	5 4	47
Type	CT	D 9	1220-A						~	lonit	or Cl	necks	•		Ti	nes	D/Time							a Lo	catio	n			
			6072		_			on	Deck			at	Surfac	:e	F	a on			1	ape/	/Dis	kette	I.D.				ne/Hea		
					_	Pres	ss								1	face own									CAS	380 T	1 - 30 A	WO3	11
		N_30				Tem	ıp								1	tom			_										
			Humi	= 1.0			•								1	Up			Re	mark	(S	M ==	Dopt	&	911		:		
		4			_										_ I	face a off			.			, - ş			,				
<i>i</i>		T	Trip	Tim	ne @						· Valu	ıes				onv. Mon.		TD	<u>: </u>	Т		San	nple E	ot.C	ata		Sal.	Other	. S
& B	ot.	Rack	Depth	Tim Depth	T	rip	Pres	s.	Tem	ip.	Coi	nd.	Otl	ner	Press.	Temp.	Cond.		Sal.		Ther	m-P	Avg	Tw		Sal.	Bot. #	Samp.	Pos.
.1.		J	કુલ				المحمد المحمد		- print	supplied to the section of the					87.909	3.933	30.649	31	1.76	2	0.3	49	Familie was regarded to the second			antikala 1 minin nagati ngga naglalajindin		73	
2			60												60,273	3,988	30,645	3	2.71		۵,1	भु3							2
3		2.	45												44,920	3.898	30.492	3:	2.63	2	0,3	৩ ৭८					21		3
4	. 6		30		<u></u>										30,000	3,744	30,211	3	_{૮.} 46	1	ه. د	-44	,						4
5			20	_								٠.		i	19,847	3,753	30,173	3	2.41	2	6,1	24							5
6			16									_		2.	9,686	3,890	30,248	3	2,37	2	٥.٥	२ ८६		•					6
7			0												-0.05B	3,&99	30.251	3	2.35	0	۵,٤	-46						730	7
8																													8
9									-																				9
10																													10
11															-														11
12																													12

																			. 20	e 191			٣	g. GS	OI	
C	onsec.	Cast	# \$3	Vesse	el ER F	REEMAN	Proj. &	Leg 94	04	Event 1164		'essel S	sta. I.D.	In	struc	ctions							Sta. [Designat	ion	
Co	nsec. ist #		Latit	ude	N or	Lon Deg.	gitude	or		JD = 120 Mo. Yr		Time GMT dr.	.	Dry Bulb		Wet Bulb	Bar. mb	S. S. Vis.	Wind Dir.	Win Sp.	Cloud	Type	Bot Dep	ttom oth, m	Sta. Na or I.I	
0	જ 5	5	335	56	N	1673	458	w 3	S CO A	P R 9	40	5	12	3 4		19			03	5 1 1	6	6		71	5 5	47
	CT	D o	1220-A			-		Mon	itor (Checks			Tin	nes	JC	D/Time				Data	a Lo	catio	n			
				<u> </u>	-		on De	ck		at Sur	face			on			_ 1	Tape/D	iskette	I.D.				me/Hea		
			6072		-	Press	.							face			$- _{-}$					CA	STOS	35_30	Apr 0	505
	mp. S ond. Si				-		· · · · ·						Start Do	own tom			-									
				= 1.6	-	•								Up			_ -		Max	T at	/9	<u></u>				
•-			10000		-									face			Ke	marks	Max	secher.	ii .	- N				
_						Other_		4						off		/			C	nala P	-4.5	\		Cal	Otho	r] .
os.	Bot.	T Rack	Trip Depth	Tim Depth	e @	ip Pre		1onit o			Other		Press.	Tem		/alues-CTI Cond.	Sal.	Th	erm-P	nple B			Sal.	Bot. 3	Othe # Samp	Pos
			68	Depart		ip 110	.33.	сп.р.	┼~	ond.	201101			3, 84		30.506	32.68			7 110	,		Jan.		732	
			60			und different medium in de de		Part after the say a subjective			g digger statestings gay groups		ક. ઉપ્			20.300	32,60	4 0	.233	1.4/2.1/2018.04.24.24.24.2	Armed sond one for all			appetition that have been a		A
2		-	60	Ģ =								6	0.550	3,76	ч	30,223	32,44	0 0	.623						· ·	2
3	1, 1,	. .	45									4	5.604	3,80	4	30,214	32,39) 0	.662							3
4		,	30			2						2	9.743	3,861	4	30,212	32,34	4 0	598							4
5	i i		10										9.589	3.86	ol	30,201	32,336	3 0	,516						,	5
6			10										0.601	3.98	2	30,255	32,28	8 6	,571							6
7			0									-	0,127	4,00	0	30,265	31,28	, 1 C	,u87						733	7
8																			,							8
9																										9
10									1			1														10
Ш												\top						十		<u> </u>						II
12																										12