STATION DESIGNATION CTD ool 1-1	CLOUD (amt) TYPE WEATHER DEPTH DEPTH NAME/ID	(E) -(	1-11 12821 150	REMARKS		8 =		MAX. DEPTH = 300 m		<del></del>	SAMPLE BOTTLE NUMBER	SAL. NUTRIENT CHLOR	25				>	\ 	>				5	
STATION DE	WIND	(kts)	_ 			<u> </u>				SAMPLE BOTTLE	DATA	SALINITY	Li C			ı	8				33.5304			
1.2101	SEA STATE VISIBILITY D W	* 0	1228VAN	TION	File Name/Header	CIBOOL		200	1	186		ChlAM	1.3034	1.4341		1,5191	1.6634	301E1	1.6601			20		
0)	WET WET	()	$\cup$	DATA LOCATION			÷		TAPS4			FLUOR	3.36Se-04	1.372 e-02	1.7650F.03	2.075e-02	33030,03	3-4802-03	3.383e-02					
	TIME DRY (GMT) BULB		077 3.		Tape/Diskette ID	CTD			TAPS6	=  -  -  -	D DATA	PAR	2.390	3.390	2.290	3.290	2,390	2.290	2.290			Į.		
PROJECT & LEG MF97-05, Leg 1	T   30   =0f	YR H	P R 9 7 1 0	-00	<u>Т</u> ар	9	2 2		XCHIAM		RD 9/11+ CID DAIA	SALINITY	33.5435	32.9158	33.8414	33.7819	32,6381	32,6165	33.6095				m	
M M	DATE	l I '	3.50 W 16 A	JD / TIME		12	=		Х птоя		SEA-BIH	SEC. TEMP	4.0393	4.1195	H.0978	H.ORER	4.1263	4.1996	4.2927		3		Ywy	
70	LONGITUDE			TIMES	DATA ON	START DOWN	АТ DEРТН	AT SURFACE	X PAR	i i		PRI. TEMP	4.0386	4.1188	H.0971	H.0855	4.13.2A	4,1991	H. 2931					
FREEMAN	LATITUDE	Z (	Z 0		TYPE / SN SBE 9+ 91660 D	4	2:701	2:303	- 8			PRESSURE	303.943	50.592	40.559	30.501	20,801	10.368	2.8M9			:	2	II
VESSEL NOAAS MILLER FREEMAN		DEG -	15336	Port Side CTD	E/SN SBE	PRESS SN 29772	TEMP SN 1:889	COND SN 1:480				TRIP DEPTH	300	50	40	30	20	07	d					
VESSE	CONSC CAST #		ii	П	TYPE	PRE	TEM	NO CO				POS.	ı -	7	က	4	ß	9	7	8	6	10	-	12

VESSEL	i. Milier	VESSEL NOAAS MILLEB EBEEMAN		<u> </u>	PROJECT & LEG	5	0	7.76	STATION	STATION DESIGNATION		2-1
					60, 60	2 2 2			5 0	8 0 0 1		
CONSC						-		<b>∃TAT</b>	tms) C		8	iëi
CAST #		LATITUDE	LONGITUDE	DATE	) 901=dc	TIME DRY (GMT) BULB	* WET BULB PRESS	VISIBIL VISIBIL D VIN	S WIND	TYPE TA3W	BOTTOM	STA. NAME/ID
	DEG	MIN	DEG MIN	DAY	<u> </u>	7	(၃)	, ; (q	(kts)	*	Œ	
'\	2533	31.06 N	16852	54 W 16 A	P R 9 7	336 3	10.1	28VA		3 / 1	8 3	2
	Port Side CTD		TIMES	JD / TIME	``		DATA LOCATION	TION	æ	REWARKS		ş
TYPE,	SN SBE	TYPE / SN SBE 9+ 91660	DATA ON	1336	Ta	Tape/Diskette ID		File Name/Header	V			ŕ
PRESS SN	S SN 29772	772	START DOWN	1336	<b>X</b>	HIF4705 CTD002	4	C12002	<u> </u>			
TEMP SN	SN 1:889	39 2:701	AT DEPTH	1347			364 =		<u>                                      </u>			ļ
COND SN	SN 1:480	2:303	AT SURFACE	1358		П			<u> </u>	MAX. DEPTH	1	ag m
			MPAR	Hour	ChlAM	TAPS6	se TAPS4	4			303	0
	,							II é	SAMPLE BOTTLE		\$3)	**
ŀ				SEA-BIL	SEA-BIRD 9/11+ CID DAIA	ID DAIA			DATA	SAMPLE	BOTTLE	SAMPLE BOTTLE NUMBER
S.	TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	ChIAM	SALINITY	SAL. NU	NUTRIENT	CHLOR
-	300	302.753	3 4.1223	4.1256	33.4 GT	239	3-368e-5	1.39.34	अत्र भव पम	13		
7	50	50.893	4114a	4.1144	32.7948	3.39	3.041e-2	1.6404		76		1
က	40	41,089	A 4,1041	4.1041	32.7651	$\exists$	2.915e-2	1.6413				<u> </u>
4	30	30.879	A 4.1038	4.1041	32.3090	80.60	3.496e-2	1.6503				\
2	20	30.546	4.1300	4.1202	32.6674	2,39	3.624e-2	1.6550	8			>
9	(O)	10.833	H.2318	H. 3313	33.6136	239	3.648e-2	1.1933				/
7	9	2959	F081.4	4.1930	32,5961	239	3.336c.3	1.7015		*		/
8				14-14-14 E-111		3:						
6	1				N. A.							
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1			ē1				32					<b>E</b>
12			Ŋ	#_				100				

CONSC CAST #	O L								(1	:: -:-		
# 0	_	fa ■ 30				TIME DRY	× ×	ESSURE A STATE YTURIE	MIND	Эч ЯЭНТА:	BOTTOM	ATS
0		LATITUDE		DATE	90	EN.	-	AIS	SPD.	ME	DEPTH	NAME/ID
)	5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	-	1 2 M N N N N N N N N N N N N N N N N N N	DAY	> 0		(	* 0	(kts)	· `	(E)	0
_	7 3 / 4	2			/ n		2. 2. 2.	007		70	181	*1
34	Port Side CTD	75	TIMES	JD / TIME			DATA LOCATION	ATION	<u>æ</u>	REMARKS		
TYPE	/ SN SBE	TYPE / SN SBE 9+ 91660	DATA ON	1549	Tag	Tape/Diskette ID		File Name/Header	3//			
PRES	PRESS SN 29772		START DOWN				0	615003				
TEMP SN	SN 1:889	2:701	АТ ДЕРТН	1600		- 1						!
COND SN	SN 1:480	2:303	AT SURFACE	16 5					Ž	MAX. DEPTH	"	970 m
		20	MPAR	Kruor	ChlAM	TAPS6	6 TAPS4	S4	-		€ ()	70C
				SEA-BIR	RD 9/11+ CTD DATA	D DATA	3		SAMPLE BOTTLE DATA	SAMP	SAMPLE BOTTLE NUMBER	NUMBER
Š	TRIP	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	ChiAM	SALINITY	SAL	NOTENE	<u>8</u> 0
-	300	303.470	0 H.0010	4,0013	33,3354	2.29	5.0526.5	5 1,4034	33.3617	30		i.
Ø	50	51.444		4.0000	33,7118	2.39	1.8536-3		I.A.		53	
က	40	41.14	4 H.OG54	4.0657	32.6978	2,29	2.47/6-3	1.6039				/
4	Service Contract	30.894	4.1089	4.1091	33.6580	2.29	2.6370-2					10.
ß	1,200	20:880	0 H.1181	4.1176	32.6393	2,39	273.6.2	1.6331		Ī		1
9	20	2.0.967	4.1138	H.1140	33.6451	3.39	2.5656-2	F2021				>
7	(3	1 0.13F	4 1438	4.1439	32.6135	3.995	3.025e-2					1
ω	0	2.073	H.1343	4.1418	32.5679	11.43	27486-2				5	>
თ				N. Co				2				
10				Hill N								ii:
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12												

PG 4 OF 31

CONSC   CAST   CANSTILLER FREEWAN   MFF97.05 Leg 1   Table   CONSC   CAST   C	Ņ	VESSEL		111		PROJECT & LEG	ပ္			1.71	STATIO	N DESIGN	IATION	
CANSC   CANSTITUDE   LANGTHLIDE   LANGTHLI	윈	AAS MILLER	FREEMAN		2	AF97-05, Leg	1				+	-		
	85		ттире	CONGITUDIO	DATE	9)0\=dr	TIME (GMT)	DRY BULB		SEA STATE YTLIBIEIV	WIND	MEATHER	SOTTOM DEPTH	STA. NAME/ID
			NIM	DEG MIN	DAY	МО		(၁ <sub>၀</sub> )		*	(kts)	-	(E)	
Port Side CTD	¥	4532	-5	16842	-	я 9		3.5	0.81	200	9		9	<u></u>
SS N 28T2   ST N 1889   ST N 1   ST N	<u></u>	Port Side	е СТО	TIMES	. 5	141		۵	ATA LOCA	NOIL		EMARKS	_10	20
SS S N 29772   STAFT DOWN   \$\(\chi_{\eti_{\chi_{\chi_{\eti_{\eti_{\chi_{\eti_{\eti}_{\chi_{\eti_{\eti_{\eti_{\eti_{\chi_{\chi_{\ti}_{\chi_{\ti}_{\chi_{\chi_{\ti}_{\chi_{\eti_{\chi_{\eti_{\chi_{\eti_{\eti_{\eti_{\eti_{\eti_{\chi_{\eti}\eti_{\eti}\eti_{\etii}\}\eti_{\eti}\eti_{\eti}\eti_{\eti_{\eti_{\eti}\eti_{\eti}\eti}\eti}\eti_{\eti}\eti}\eti_{\etii\eti_{\etii\eti_{\etii\eti}\eti}\eti_{\etii\eti}\eti_{\etii\eti_{\etii\eti_{\etii\eti_{\etiin\eti_{\etii\leti}\eti}\eti\etii\eti}\eti\eti\etin}\etin\eti\et	<u>F</u>	PE / SN SBE		DATA ON	1800		Tape/Diske	ette ID	File	Name/Heade	<u>_</u>			
P. SN. 1:889 2:701   AT DEPTH   ANALY   AT DEPTH   ANALY   AT DEPTH   ANALY   AT SEA   AT SURFACE   LC-3C   AT SURFACE   LC-3C   AT SURFACE   LC-3C   AT A SUAN	A.	ESS SN 297	772	START DOWN	108		W - W		5	HOOD				
NAME	<u> </u>			АТ ДЕРТН								ice	Ŋ	5
K   PAR   K   FLUCR   ChAM   TAPS6   TAPS4   SAWPLE     TRIP   PESSURE   PRI TEMP SEC.TEMP   SALINITY   PAR   FLUCR   ChIAM   SALINITY     304   303   S	8		2:303	AT SURFACE	1436		×				2	1AX. DEF	11	m OC
TRIP   SEA-BIRD 9/11+ CTD DATA   SAWPLE   BOTTLE     2002   200	_			X PAR	K FLUOR	ChIAN		APS6	TAPS	₩.			52	aMW b
TRIP   PRESSURE   PRI, TEMP   SEC, TEMP   SALINITY   PAR   RLUCR   Chiam   SALINITY   SALINITY   PAR   RLUCR   Chiam   SALINITY		N I	ı	l			CTD DAT	.<	) )		SAMPLE BOTTLE DATA	SAMP	FROTTIE	N HAR
300 303 202 202 202 202 202 202 202 202	\$		7			TIMITES		_	2	CHAM	VALINITA			5
202 202 150 202 150 161 75 76 75 31 70 10 100 10	- [		303	H						34.3197	90	į	7 78	_
150       152       150       1	8	-	202		3 3				:				644	
100       160       160       160       77         50       31       77         -40       41       77         50       31       77         50       20       77         10       70       77         0       7       76         0       7       76	ო	. 150	152	to .										
30       31       77         30       31       77         10       10       77         10       10       10         10       10       10         10       10       10         10       10       10         10       10       10         10       10       10         10       10       10         10       10       10	4	100	101					T.			M E		544	
50       '51       77         40       41       77         30       31       77         20       70         10       77         0       70         0       70         0       76         76       76	3	75	76		F									
40     41       30     31       30     31       30     20       (0     10       0     10       0     10       0     10       0     10       0     10       0     10       0     10       10 <th< td=""><th>9</th><td>50</td><td>18.</td><td></td><td></td><td></td><td></td><td></td><td>OF</td><td></td><td></td><td></td><td>844</td><td>À</td></th<>	9	50	18.						OF				844	À
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30     31       20     20       (0     70       0     2       0     7       0     7	60		3								8			1
10 70	<u>ග</u>	30	31										266	E /
(0 /0 )	10		2.0					25		<b>B</b> 0:			162	+
0 2	-	)	0/										042	×
	12		7										769	7

78K tromps PG 5\_ OF 31

VESSEL	SEL				PROJECT & LEG				STATION	STATION DESIGNATION	ATION	
N N	NOAAS MILLER FREEMAN	FREEMAN		≥	MF97-05, Leg 1				5-1			
CONSC	SS TS							SOURE STATE VILITY		(smt) QU(		-
\$ #		LATITUDE	LONGITUDE	DATE	0) 27 C/=QC	(GMT) BULB	BULB BULB	SEA	WIND WIND C	WEV	BOLLOM DEPTH	STA. NAME/ID
1	<u>8</u> -	Z	DEG W	DAY	MO YR HR	WIIN (°C)	(00)	(mb) *   * (du)	(deg) (kts) *	*	(m)	-
1000	5533°	55336.36N	168459	13 W 16 A	PR9730	353.	6 1 8	122810	00100	7	950	5
	Port Side CTD		TIMES	JD / TIME			DATA LOCATION	ATION	, ,	REMARKS		
ΤYΡ	E/SN SBE	TYPE / SN SBE 9+ 91660	DATA ON		Tak	Tape/Diskette	٥	File Name/Header		Mesor ing	دِ و	
PRE	PRESS SN 29772	772	START DOWN		<u> </u>	CTO 605		CT0005				
TEM	TEMP SN 1:889	2:701	АТ БЕРТН					, 		°/∽	598	
ő	COND SN 1:480	2:303	AT SURFACE						2	MAX. DEPTH	49 = HT	m 0
			PAR	Ruor	ChiAM	TAPS6	se TAPS4	\$4			951	
		, ·	, ]				] ] ,		SAMPLE			
				SEA-BIF	SEA-BIRD 9/11+ CTD DATA	D DATA			DATA	SAMPL	SAMPLE BOTTLE NUMBER	NUMBER
S.	TRIP DEPTH	PPESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	ChIAM	SALINITY	SAL	NOTRIENT	G. F.O.
-	946	951.035	3.9431	2,9433	34.2581		A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		34.2844	0	7.89	
7	Soo	505.513	3.5655	3.5667	33.8556		A market of	1057 6			788	
က	300	303.450	M.CSER	4.0873	33.1830	2	# ·				£8£	
4	200	203.43	202-434 464.60E	4.0736	33 9756	3		<i>z</i>		,	786	1
ည	155	151.368	3 4.1080	4.1084	33.8393						785	
ဖ	100	100.730	4.11.34	H.1133	32.8071						784	
^	75	75,876	1.0891	H-0894	33.7636			=			783	
ω	S	50.37	50.375 4.0993	4.0996	33,7032						782	
တ	20	30.316	H.1339	4.1334	32,6419						781	
10	10	10.889		t+61.4	32.5839				-		780	-
Ξ	0		e oi	14. 01							779	
12	,									,		

PG OF AL

	VESSEL	VESSEL NOAAS MILLER FREEMAN		0. ≥	PROJECT & LEG MF97-05, Leg 1	ဖြူ <u>-</u>		8)	8:300	S	TATION	STATION DESIGNATION	ATION	
	CONSC	O		4 4 0 d d		4		_ ∃Hns	3TATE YTU	1:	(Jms) Ol	¥∃H.		
	CAST #	LATITUDE	LONGITUDE	J DATE	JD=107	TIME (GMT)	DRY BULB	WET BULB PRESS	SEA S	WIND W	SPD: CLOL	EATT TAENT TAENT TO B	BOTTOM DEPTH	STA. NAME/ID
	_   _	DEG MIN	DEG MIN	DAY	MO YR	HR MIN	(0)	(°C) (mb)	*	١,	tts) *	*	(E)	
¥	٥. ٥	5330.82N	16855.37WI7	7 W ! 7 A	P R 9 7	1 20	4 0	2.7074	7481	202	20 20	42/	0 0	18
2		Port Side CTD	TIMES	JD / TIME			DA	DATA LOCATION	NOI		2	REMARKS	,	
	TYPE,	TYPE / SN SBE 9+ 91660	DATA ON			Tape/Diskette ID	ette ID	File 1	File Name/Header	ader	2	tch.	he didaf A. Carated	sted o
	PRESS	PRESS SN 29772	START DOWN					5	CTROOL		3	Updates	by Sees	by Seesoft slowed
	TEMP	TEMP SN 1:889 2:701	AT DEPTH								4	by output	of to Comm	min part
	COND SN	SN 1:480 2:303	AT SURFACE								ΔA	MAX. DEPTH	TH= 1505	<b>E</b>
			PAR	- Hellon	ChiAM		TAPS6	TAPS4				4	(un processed	· (\p)====
1 320						)		]		\ <u>8</u> 8	SAMPLE			
				SEA-BIR	RD 9/11+ CTD DATA	CTD DA1	A			ם מ	DATA	SAMPL	SAMPLE BOTTLE NUMBER	NUMBER
	SO SO	TRIP PRESSURE	PRI TEMP SEC TEMP	SFC TEM		<	~1000db	- 9p	CO		SALINITY	SAL	NUTRIENT	BOIRD
			-	8-0 O.D	e pre	C					34.3254	1	800	
	2	5000	2002	3	0								799	
85	က	3001											798	
X-12-	4	2000	, Si						c.V				799	
	2	1504	Q						*	Jakes .	10.5		796	
	9	1001	S							'A'			795	
	7	75~							10	- 13			794	
	8	500	-1							- 1	5-3		793	
	o o	201										P	792	
_000	10	, 01											791	:
	-	Ō											790	
-	12	0				-					Λ2			

3BK Tripy Biring PG 7 OF F

VESSE	VESSEL NOAAS MILLER FREEMAN	FREEMAN			PROJECT & LEG MF97-05, Leg 1	g -		10	5.5001	S	STATION DESIGNATION	DESIGN	ATION	
CONSC CAST #		LATITUDE	LONGITUDE	E DATE	F0/=00	TIME (GMT)	DRY	WET PRESSURE	ATOIDICIA	W GNIND W	S WING (amt)	TYPE WEATHER © _	ВОТТОМ	STA. NAME/ID
* ,	DEG	MIN	DEG MIN		MO YR	HR MIN	(၁့)	(C) (m	* * (q	Н	*		(m)	
0	75346.8	Z ^	16962:3	15 W 17 A	A P R 9 7	1228	4 -	2.80	06481	202	48	42		(%)
<u>~</u>	Port Side CTD		TIMES	JD / TIME	Щ		O .	DATA LOCATION	NOI		<b>#</b>	MARKS	REMARKS Deta export	st to
TYP	TYPE / SN SBE	SBE 9+ 91660	DATA ON		612	Tape/Diskette ID	ette ID	File	File Name/Header	der	ථ .	Comm Port		- terterred
PRE	PRESS SN 29772	772	START DOWN					5	CTDOOT		13 <b>-23</b>	Seesoft	Sessit Underst men	nex
TEM	TEMP SN 1:889	2:701	AT DEPTH								3	Slo	Very Slow. May need	rue to
NO O	COND SN 1:480	2:303	AT SURFACE								Ψ	MAX. DEPTH =	TH= 1495	m S
			PAR	FLUOR	ChiAM		TAPS6	TAPS4	-		٥	05.77 Pag	backup t	tere /
	, .						<u> </u>			& 8 8	SAMPLE BOTTLE			
				OEA-D	SEA-BIND 9/11+ CID DAIA	AU DIO	_			<u>a</u>	DAIA	SAMP	SAMPLE BOTTLE NUMBER	NUMBER
POS	DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY		PAR	RUOR	ChlAM	SAL	SALINITY	SAL.	NUTRIENT	CHLOR
-	000	. 022			:		11/2			3.	34.3593	27	119	
2	500	456								_			1019	
က	300	400	7	\$00	May	1							800	Х
4	200	201		,	7	need			· ,				808	
2	150	150			•	backemp							5	
9	100	102.				tape			,		Г		903	
7	. 75	78											40%	
æ	50	53			游		\ . ·				,		404	
တ	20	.21	4									,	403	
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12			,											



PG & OF 31

VESSEL	VESSEL NOAAS MILLER FREEMAN	FREEMAN		PR	PROJECT & LEG MF97-05, Leg 1	g -		9)	183		STATION DESIGNATION	DESIGN	ATION	-
CONSC	0.					¥ F	è	30183	SSUPE STATE YTUB		(tms) QU	(jmg) QU( 3 HTHER		Ė
*	-	LATITUDE	8	DATE ,	FOI	(GMT)	BUB		<b>∀∃</b> S		SPO.	MEA	DEPTH	STA.
-		N	N W W	DAY	MO YR	HR MIN	$\alpha$	() ()	* (qm)	7	(kts) *	* 0	(E)	
<i>σ</i> υ	8 53 3	3C.01N	67/	04.25TW 12A	P R 9 7	1621	4.7	2.90	0358	125	308	421	895	9
	Port Side CTD	CTD ,	TIMES	JD / TIME			7Q	DATA LOCATION	NOIT		**	<b>EMARKS</b>	REMARKS FINST attempt	empt
TYPE	SN SBE	TYPE / SN SBE 9+ 91660	DATA ON	1500		Tape/Diskette ID	ette ID	File	File Name/Header	ader	6	bonked (	abouted @ 300 m due to	04 Sept 40
PRESS SN	S SN 29772	72	START DOWN						CT DOOR WSE	T WSE		Celled C	CTDOOSE	3 0
TEMP SN	SN 1:889	39 2:701	AT DEPTH	1620			æ	, 0	*CTDOORB*	* Q.				
COND SN		1:480 2:303	AT SURFACE								Ì	MAX. DEPTH =	TH= (500	E 0
			PAR	FLUOR	ChIAM		TAPS6	TAPS4	4	٠,	y0 1533	333		
		,					274		i	<b>့</b>	SAMPLE BOTTLE			
		i i		SEA-BIRI	D 9/11+ CTD DATA	CTD DAT	<u></u>		01		DATA	SAMP	SAMPLE BOTTLE NUMBER	NUMBER
POS	TRIP	PRESSURE	E PRI TEMP	SEC. TEMP	SALINITY	Y PAR		RUOR	ChIAM		SALINITY	SAL	NUTRIENT	SHOW.
-	(020)									TE.	34.3197	G 0	778	
8	500	Solo											128	
က	300	384			ì								820	
4	200	203					,	,					819	
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9	(80	101						f					817	-
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<b>©</b>	25	50											815	
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12								`		-				

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VESSEL NOAAS MILLER FREEMAN	FREEMAN		H 2	PROJECT & LEG MF97-05, Leg 1				STATION	STATION DESIGNATION	NOI	
CONSC CAST # LA	LATITUDE	TONGITUDE	DATE	T Of	TIME	DRY WET	PRESSURE SEA STATE VISIBILITY O W	W W W Colon (ams) QUOJO	MEATHER	BOTTOM N	STA.
99	Z Z	DEG	DAY	ΥR	닑	(၁့)	· · ·	(kts)	*	$\vdash$	
1009540	2.02N	16933.5	0 W 17 A	P R 9 7 2	317 4	1.4 2.6	025809	5 2 88	621	827	9
Port Side CTD		TIMES	JD / TIME	8		DATA LOCATION	ATION	<u>«</u>	REMARKS		
TYPE / SN SBE 9+ 91660		DATA ON	# #	<u>T</u>	Tape/Diskette ID		File Name/Header	· ·			
PRESS SN 29772		START DOWN			CID 029	J	CTD609		S/0/m	135	
TEMP SN 1:889	2:701	АТ DEРТН				-		,			
COND SN 1:480	2:303	AT SURFACE	st.			   		Σ_	MAX. DEPTH =	9/5/=1	E
		PAR	FLUOR	ChIAM	TAPS6	Se TAPS4	28				
		·	SEA-BIR	SEA-BIRD 9/11+ CTD DATA	TD DATA		·	SAMPLE BOTTLE DATA	SAMPLE	SAMPLE BOTTLE NUMBER	UMBER
TRIP POS. DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	RUOR	ChIAM	SALINITY	SAL. N	NOTRIENT	유명
-	1536.091	E1=1.6 1	3.17.5	eibh. he		-	Attender	34.5155	20		
2	9.		3		:						
3											
4					(2)						<i>,</i>
5			-								
9							:				
2											
- 8				3	,		,	2			
6											
10		,									
11											
12											

VESSEL NOAAS MILLER FREEMAN	PROJECT & LEG MF97-05, Leg 1	STATION DESIGNATION	5
CONSC CAST # LATITUDE	TIME DRY WET SEASTATE BULB BULB BULB	WIND WIND OLD (Amit) WIND WIND STA. DIRN. SPD. CLEATHER DIRN. SPD. CLEATHER DIRN. SPD. CLEATHER NAME/ID	. A. E/ID
DEG	DAY MO YR HR MIN (°C) (°C) (mb) * .	(kts) * * * (m)	
N 1 8 . 8 / K CO / O	149.3 2W / JAPIRIO 7 0248 14.2	7760	((
Port Side CTD	TIMES JD/TIME DATA LOCATION	REMARKS	
TYPE / SN SBE 9+ 91660	DATA ON Tape/Diskette ID File Name/Header	or all taken	
PRESS SN 29772	START DOWN CT0010 CT0010	G001 @	
TEMP SN 1:889 2:701	*		
COND SN 1:480 2:303	AT SURFACE	MAX. DEPTH = 1504	٤
	PAR HUOR CHAM TAPS6 TAPS4		
		SAMPLE ROTTI E	
	SEA-BIRD 9/11+ CTD DATA	DATA SAMPLE BOTTLE NUMBER	BER
POS. DEPTH PRESSURE	PRI. TEMP SEC. TEMP SALINITY PAR FLUOR CHIAM		CHLOR
166-6		S @ &	
2 800		34.0042 14 832	
3 300		831	
4 200	D/W	830	
5 / 25		829	
8 /00	Je Je	828	
7 7 5	Nowe	827	
8	Larger	826	
9 2-2	of to old	825	
10 10		824	
11 0		823	
12			
	t - 0001 (a) \$1 UV	FOCT - #\$ 1153 - 1162	

1000 - FOCT - #5 1153 -> 1162 Whitledge #\$ 578 -> 587

STATION DESIGNATION	WIND OUT STA. SPD. CLYPH BOTTOM STA. SPD. CLYPH DEPTH NAME/ID	(kts) * * * (m)	REMARKS		1831 0/c		MAX. DEPTH = $\int \zeta v \zeta$ m		SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	SALINITY SAL. NUTRIENT CHLOR	34.5037 OF										
	WET WET STATE STAT	(°C) (mb) (deg)	DATA LOCATION	File Name/Header	C+00/1			TAPS4		PLUOR ChIAM											
PROJECT & LEG MF97-05, Leg 1	TIME DRY JD=108 (GMT) BULB	AO P	. =	Tape/Diskette ID	CTDOIL			Chiam	RD 9/11+ CTD DATA	SALINITY PAR	34.4787								<i>y</i> :	,	
<u>A</u> W	LONGITUDE DATE	DEG MIN DAY N 18 A	TIMES JD/TIME	DATA ON	START DOWN	АТ DEРТН	AT SURFACE	PAR FLUOR	SEA-BIF	PRI. TEMP SEC. TEMP	28186 2815.61										
VESSEL NOAAS MILLER FREEMAN	CONSC CAST # LATITUDE	DEG MIN	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889 2:701	COND SN 1:480 2:303			POS. DEPTH PRESSURE	1531.129	2	3	4	5	9	 8	6	10	11	12

STATION DESIGNATION	WIND OF HER SPD. CLORE STA. STA. STA.	(m) - 27 (m) - 27 (m)	REMARKS		Wo = 1593		MAX. DEPTH = 1500 m		SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	SALINITY SAL. NUTRIENT CHLOR	17 OH8H 46											
	WET SEA STATE SEA STATE SEA STATE SEA STATE SIBILITY SEA STATE SEA	(°C) (mb) (deg)	DATA LOCATION	File Name/Header				TAPS4	), H	FLUOR ChIAM S	3											
PROJECT & LEG MF97-05, Leg 1	TIME DRY (GMT) BULB	YR HR MIN (°C) R9712072		Tape/Diskette ID		S		ChiaM TAPS6	SEA-BIRD 9/11+ CTD DATA	SALINITY PAR	34,4604							,				
PROJE MF97-	LONGITUDE DATE JD=\0,8	MIN DAY MO	JD / TIME	7	OWN 1127	1205	ACE	HUOR	18.00	PRI. TEMP SEC. TEMP	2,3056											
VESSEL NOAAS MILLER FREEMAN	LATITUDE	5457.33N/684	CTD A - Port Side TIMES	TYPE / SN SBE 9+ 91660 DATA ON	START DOWN	1:889 2:701 AT DEPTH	1:480 2:303 AT SURFACE	PAR	*	TRIP PRESSURE PRI.	5 (8,84 3,3057					er care						
VESSEL NOAAS MII	CONSC CAST	1 254	СТО	TYPE / SN	PRESS SN 29772	TEMP SN	COND SN			POS. DE	1 (500	2	က	4	rs	9	7	80	6	10	1	12

STATION DESIGNATION	PRESSURE STATE WIND WIND CLOUD (amt) TPE SPECIAL STATE OIRN. STA. DIRN. STA.	(m) 2 2 1.2	DATA LOCATION REMARKS	File Name/Header			MAX. DEPTH = 150   m	TAPS4	SAMPLE BOTTLE BOTTLE NUMBER	Chiam Salinity Sal. Nutrient Chlor	34,4880 09											
PROJECT & LEG MF97-05, Leg 1	DATE	9 W 1 8 A P R 9 7 1 5 0 W 3 9 1 6	lut.	Tape/Diskette ID	0628		Shto	FLUOR ChIAM TAPS6 TV	SEA-BIRD 9/11+ CTD DATA	SEC. TEMP SALINITY PAR PLUOR	759HH2 H68CC			- to the state of								
VESSEL NOAAS MILLER FREEMAN	CONSC CAST LATITUDE LONGITUDE	OF 35506.43N16828.6	CTD A - Port Side TIMES	TYPE / SN SBE 9+ 91660 DATA ON	PRESS SN 29772 START DOWN	TEMP SN 1:889 2:701 AT DEPTH	COND SN 1:480 2:303 AT SURFACE	PAR		POS. DEPTH PRESSURE PRI, TEMP	1 1500 1591,410 2.2902	2	3	4	2	9	2	8	6	10	11	C

PG 14 OF 31

VESSEL	VESSEL NOAAS MILLER FREEMAN	FREEMAN			PROJECT & LEG MF97-05, Leg 1	LEG eg 1				STATIO	STATION DESIGNATION	VATION /S-/	
CONSC CAST		LATITUDE	LONGITUDE	DATE	TE JD=\QS	TIME (GMT)	DRY BULB	WET BUSSER	SEA STATE VISIBILITY	WIND SPD.	CLOUD (amt) TYPE TYPE	ВОТТОМ	STA. NAME/ID
-	元 (1 (4) (4) (4) (4) (4) (4) (4) (4) (4) (4)	N 22	DEG MIN	/Q	MO G	HR G	<u>ي</u> ا	(°C) (mb)	(dm) * * (dm)	(kts)	* 0	N	1
2	A - A G	ort Side	TIMES		» C	-		SI X	=	\ \ -	9 4	- j	2
₹	TYPE / SN SBE 9+ 91660		DATAON			Tape/Di	Tape/Diskette ID	File N	File Name/Header				·
Ä	PRESS SN 29772	772	START DOWN								,		
Ψ	TEMP SN 1:889	89 2:701	АТ ОЕРТН			4		   		·	a)	,	
Š	COND SN 1:480	80 2:303	AT SURFACE								MAX. DEPTH	100/ = HI	Ε
			PAR	FLUOR	ChIAM	AM	TAPS6	TAPS4		-	e		
				SEA-	SEA-BIRD 9/11+ CTD DATA	+ CTD D	ATA	<i>s</i>		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	NUMBER
POS.	TRIP	PRESSURE	E PRI. TEMP	SEC. TEMP	IP SALINITY	ĮĮ.	PAR	FLUOR	ChIAM	SALINITY	SAL.	NUTRIENT	GHC9
1	5060	507.1.45	=				•			33.8163		1772	
2	300	302,600					.					47.7	
3	200	203-579										1176	
4	15.0	182, 8841	•									6911	
5	100	308 101					. ~					89/1	
9	50	51.195	}				:					1167	>
7	40	41,325						-				1166	Y
8	300	31, 416		·		,							>
6	20	26.413		-								1165	Y
10	10	10.045										1164	
11	Q	1.543										1163	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \
12													, ,

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VESSEL				PROJECT & LEG	   <u>ဗ</u> ု		1		STATIO	STATION DESIGNATION	ATION	
DAAS MILLE	NOAAS MILLER FREEMAN			MF97-05, Leg 1	_		-			1-91		
CONSC	ATH IDE		A T	2	I ENE	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ENUSSER ENUSCOURE	SEA STATE VISIBILITY SEA STATE SEA STATE SEA STATE SEA STATE SEA STATE	ONIM	LOUD (amt) YPE VEATHER  M - THER	BOTTOM	STA.
DEC	NIM	DEG MIN	DAY	NO M	HR MIN	(၁)	1	\	(kts)	۸.	(E)	
01555	22.31 N	68 0	3 8W J 8/A	P R 9 7	2019	٦.۶	1 3 0	470	22	त १८	5/0	16
CTD A -	CTD A - Port Side	TIMES	JD / TIME	. 111		DA	DATA LOCATION	NO		REMARKS		
YPE / SN S	TYPE / SN SBE 9+ 91660	DATA ON			Tape/Diskette ID	tte ID	File N	File Name/Header	- L			
PRESS SN 2	29772	START DOWN		22	,	Ü			=	5/5=0/m	13	
TEMP SN 1	1:889 2:701	АТ ОЕРТН	el <sub>je</sub>					t		,		
COND SN 1	1:480 2:303	AT SURFACE			8	1				MAX. DEPTH	TH = 49	E
		PAR	XFLUOR	ChiAM		TAPS6	TAPS4					
Ū. ≅	-			SEA BIBD 8/11. CID DAIA	TAGGET				SAMPLE			
			מיירטים	+1160	בלים מוס	ς			2 2 2	J. I		A TIGINION
TRIP POS. DEPTH	H PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	Y PAR		FLUOR	ChiAM	SALINITY	SAL.	NUTRIENT	CHLOR
1 500									33.1913	35	1182	
2 300								29		,	11811	•
3 20											1180	
4 150											1139	
5 100		:			-		,				1178	
e   { = 3											1177	
7 40											1/76	
8 30									,			
9 20				÷							1351	
10,											1174	-
0									1		1173	
12	,						-			-		

PG 16 OF 31

	STA. NAME/ID		1 7					m it			NUMBER	G.C.B.												
ATION	ВОТТОМ РЕРТН 1	(m)	215	Ş		210		TH = 20%		Seg. 8	SAMPLE BOTTLE NUMBER	NUTRIENT	0611	1189	1188	1187	1186	( )	_58//	1184	1183			
STATION DESIGNATION	HEATHER WEATHER	*	862	REMARKS		1/0 ×	_	MAX. DEPTH	_		SAMPI	SAL.												
STATION /7	SPD WIND (amt)	3	∞ ~	<u>æ</u>				<u> </u>		SAMPLE BOTTLE	DATA	SALINITY	32.9847			4								
	YIJIBISIV QNW DNW DNW DNW	* (deg)	7075		File Name/Header	316			,		54	ChIAM	2252	3345	38-40	P1F4.	3058	8930	SHIO	3705	3000			
	HRESSURE SEA STATE	* (q m)	684	ATION	le Name	CADO		,	.S4		S	0	1		4	4	3	4	(4	~	æ			
	WET	(၃) ၂	2.3	DATA LOCATION					TAPS4			FLUOR	8.674e-18	8.6746-18	.408e-2	3.47/e-	3.8650-	5.49ae-3	7.953e-2	7,980e-2	H. R. W. De T. A.			
	DRY	္ရ	7 4.2		kette ID				TAPS6	D.	۱TA	PAR	39 8	8	1 68	5 435	П	13.30 5	00	× 0.	216.04			
g -	TIME (GMT)		223		Tape/Diskette					:	CTD D/		C	<i>(</i> 1	~	G	5 6.59	$\dashv$	29	·				
PROJECT & LEG MF97-05, Leg 1	108	MO	P R 9 7		·				X CHIAM	1	RD 9/11+ CTD DATA	SALINITY	32.9595	32.8943	32.6349	33.5120	33.4815	33.3415	32,2596	32.25.ES	SHZE. CE			
PRC	- 111		⋖	JD / TIME					FLUOR		SEA-BIRE	SEC. TEMP	4.0473	H.OREO.	$\rightarrow$	3.6191	3.5443	3.1961	3.0541	3.0583	3.0%69			
	H	z	04.29W18						X	'	တ		-	$\neg$				$\neg$			-		-	
	NO.	DEG WIN	16804	ES	DATA ON	START DOWN	АТ ОЕРТН	AT SURFACE	N PAR		Š	PRI. TEMP	4.0468	4.0 245	3,5699	3.6188	3.5759	3.1953	S.0873	3.0545	3,0573			
NA NA			Z	e TTIMES		ST/	2:701 AT	2:303 AT				PRESSURE	150.006	-	$\overline{}$	355	HI.367	30.634	20 993		101.5			7
FREEM	LATITUDE	Z Z Z	25.74	ort Sid	3E 9+ 91	3772	1:889 2:7	1:480 2:					200	18	9	Ŋ	4	8	0	9	0,1			
VESSEL. NOAAS MILLER FREEMAN		<u> </u>	16550	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:8	COND SN 13	,		·	TRIP DEPTH	750	1/2	100	K	C 75	200	20	01	0			
VESSEI	CAST #	, .	0		ΤΥΡ	PRE	TEM	00				SO.	-	7	ო	4	S	ဖ	2	<sub>2</sub> &	တ	10	=	12

STATION DESIGNATION	CLOUD (amt)	ı <b>—</b>	661137 118	REMARKS	wb=136			MAX. DEPTH = 131 m	<i>8</i>	SAMPIFBOTTIFNIMBER	+	Y SAL. NUTRIENT CHLOR	3 19			•								
STATIC	WIND SPD.	) (kts)	20							SAMPLE BOTTLE DATA		SALINITY	SAMOS								,			
	SEA STATE YISIBILITY D WIN	(mb) * * (deg)	9670	NOI	File Name/Header	CT0017		,				CHIAM	1.3144							,				
	WET WET	(°C)	3.11 0	DATA LOCATION		CT			TAPS4			FLUOR	2.139e-3	3						,				
. =	IE DRY TT) BULB	(°C)	5 t S		Tape/Diskette ID	4100			TAPS6	DATA		PAR	9.39				a							
PROJECT & LEG MF97-05, Leg 1	TIME JD=109 (GMT)	MO YR HR	A P R 9 7 OO		Tape,	CTO			CHIAM	RD 9/11+ CTD DATA		SALINITY	32.9156								`			
PR	DATE	DAY	9 w P	JD / TIME					N FLUOR	SEA-BIRI		SEC. TEMP	4.0995									1		
	LONGITUDE	DEG MIN	8.5449	TIMES	DATA ON	START DOWN	АТ DEРТН	AT SURFACE	X PAR			PRI. TEMP	4.0993				,							
FREEMAN	LATITUDE	Z	3. 2. N	50	TYPE / SN SBE 9+ 91660 D		2:701	2:303		- 3		PRESSURE	130,498						I	,				·
VESSEL NOAAS MILLER FREEMAN		<u>5</u>	<b>4</b> 553	CTD A - Port Side	SN SBE	PRESS SN 29772	TEMP SN 1:889	COND SN 1:480		-	TRIP	DEPTH											,	
VESSEL	CONSC CAST #	84	D	3	TYPE	PRE	TEM	SON				S	•	0	က	4	2	9	7	80	6	10	11	12

STATION DESIGNATION	SEA STATE VISIBILITY V	(m) * * (deg) (kts) * * * (m)	REMARKS	File Name/Header	CTROIS W/0=130		MAX. DEPTH = 132 m		SAMPLE BOTTLE BOTTLE NUMBER	ChIAM	1.3810 33.8388 04											
PROJECT & LEG MF97-05, Leg 1	DATE JD= \QQ\qquad (GMT) BULB BULB &	NAMES A PERSTONING CO. CC. (mb)	TIME DATA LOC	Tape/Diskette ID File N	TO			HUOR CHIAM TAPS6 TAPS4	SEA-BIRD 9/11+ CTD DATA	RUOR	4.0861 32.8534 2.29 3.065-3											
BFREEMAN	LATITUDE	MIN DEG MIN	Port Side TIMES	TYPE / SN SBE 9+ 91660 DATA ON	29772 START DOWN	1:889 2:701 AT DEPTH	1:480 2:303 AT SURFACE	HV X		PRESSURE PRI, TEMP	4.0857											
VESSEL NOAAS MILLER FREEMAN	CONSC CAST	10 PSG		TYPE / SN	PRESS SN 29772	TEMP SN	COND SN 1:480			POS. DEPTH	-	2	3	4	5	9	7	æ	6	10	11	

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VESSEI	1			100	PROJECT & LEG					CTATION	MOLEVIACIONO INCITATO	T CITY	
NO NO	NOAAS MILLER FREEMAN	FREEMAN	1 22	×	MF97-05, Leg 1		M	8				20 -	
CONSC CAST		ATITUDE	HONDI	DATE	PC1=01	TIME (GMT)	DRY	36/08384 	SEA STATE	WIND	ASHTASV	BOTTOM	STA.
	92	NΙΣ	DEG MIN	DAY	æ	7	-	•	١ .	(kts)	۸ .	+	
0	0195545,98	5.98 N	0 H9 1	9.84W19A	A P R 9 7	0350	10	3.20	096707	10	- 9	1361	0
	CTD A - Port Side		TIMES	JD/TIME			DA.	DATA LOCATION	NOI	<u>æ</u>	REMARKS		
TYPI	E/SN SB	TYPE / SN SBE 9+ 91660	DATA ON	1	<u> </u>	Tape/Diskette ID	te ID	File I	File Name/Header	<u> </u>			
PAË	PRESS SN 29772	772	START DOWN			CTD 019		5	CT0 019	-3	1-9/0	33	
TEM	TEMP SN 1:889	89 2:701	АТ DEРТН							2	,		
CON	COND SN 1:4	1:480 2:303	AT SURFACE							Σ_	MAX. DEPTH	TH= 133	E
		25	PAR	K RUOR	ChlAM		TAPS6	TAPS4		21			,
0.00			<sup>30</sup> 80	SEA-BIF	RD 9/11+ CTD DATA	TD DATA	€		۰	SAMPLE BOTTLE DATA	SAMPI	SAMPLE BOTTLE NUMBER	NUMBER
Š.	TRIP	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR		FLUOR	ChlAM	SALINITY	SAL	NETRIENT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
-	130	131.850	4.319 h	4.2198	33.668	PE.E 1		9.768e-4	1.3418	33.6940	05		
2			// 							4			
ဗ		83	SY			0.43							
4								53		:			
2		1				¥		100 401 10				83	
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10			140										
=													
12	S.F										;		

VESSEL NOAAS MILLER FREEMAN	FREEMAN		PF M	PROJECT & LEG MF97-05, Leg 1			eā.	STATION	STATION DESIGNATION	NOF	
CONSC CAST #	LATITUDE	LONGITUDE	DATE	PO/=0c	TIME DRY (GMT) BULB	38083888 Fi 95 Fi	SEA STATE  YTUSIBILITY  SEA STATE	S S S S S S S S S S S S S S S S S S S	WEATHER	BOTTOM N HEIGH	STA. NAME/ID
DBG 6	70	DEG M1	DAY		Z .	္မွာ -	(q	) (kts)		<b>,</b>	
04 19 19 19 19 19 19 19 19 19 19 19 19 19	<u>N</u>	16653.8	5	P R 9 7	05 18 3	10:1 C	90800	1	~ (e)	<u>U</u>	100
CTD A - Port Side		TIMES	JD / TIME			DATA LOCATION	NOIL	<u>æ</u> _	REMARKS		
TYPE / SN SBE 9+ 91660		DATA ON		<u> </u>	Tape/Diskette ID		File Name/Header				
PRESS SN 29772	772	START DOWN		/2		S	CIDORO	3	N=138	λ.	
TEMP SN 1:889	2:701	АТ ДЕРТН			1 S 11		96,005		25 		
COND SN 1:480	2:303	AT SURFACE		=			23	¥2	MAX. DEPTH	H=129	Ε
		VFAR	VFLUOR	Chiam	TAPS6	6 TAPS4	4				
#:S		2	SEA-BIR	SEA-BIRD 9/11+ CTD DATA	тр рата	l W		SAMPLE BOTTLE DATA	SAMPLE	SAMPLE BOTTLE NUMBER	UMBER
TRIP POS. DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	ChIAM	SALINITY	SAL. N	NUTRIENT	RICH
1.28	130,307	H.3145	4. गमा	33,7350	3.39	6.00/802	1,3758	33.7608	52		
2						1 A					
က						/					
4	ix.								n		
S.				SIII	×						35
9		our.				<u> </u>	I				
7				\$3							
8		(d)	333	E1 -	×						
6							Tal	155			
10										1/2	
11		39		W			8				
12									\/\		

	STA. NAME/ID	2	- -	<b>7</b>			E			UMBER	CHLOR					1	1	>	>	1	1		
NO	BOTTOM DEPTH N	M	-	Stations			1= 15	0	8,5	SAMPLE BOTTLE NUMBER	NUTRIENT	/ <del>+</del> 51	196 1	v 2p1	1 hbl	1193 1		7 251			1191		
STATION DESIGNATION	<b>R</b> 3HTA3W	. 7	REMARKS	M3 X			MAX. DEPTH	1170	1	SAMPLE	SAL. N		16		*	-				***			
STATION 2 2	W WIN CLOUD (amt) TYPE	(kts)		-		2	ž		SAMPLE BOTTLE	DATA	SALINITY										319985		
i di	STATS A38 VISIBILITY VISIBILITY ON WEIGHT OF THE STATE OF	* (deg)		File Name/Header	100	100					ChiAM				:						67		-
	WET SENSORE	(°C) (mb).	DATA LOCATION	File Nam			## ## ## ## ## ## ## ## ## ## ## ## ##	TA-S4		ez .	FLUOR			33								EN.	
	DRY W	10		tte ID			FE 7/488	TAPS6		Δ				1									
. T	TIME (GMT)	HR MIN		Tape/Diskette ID				11 01 11		RD 9/11+ CTD DATA	PAR			Zi									
PROJECT & LEG MF97-05, Leg 1	PO = OC	MO YR	3				E X	CHAM		0 9/11+ (	SALINITY							M					
PR	DATE J	M DAY	JD / TIME	0748	1 2 3816	P5+0	2080	FLUOR		SEA-BIRI	SEC. TEMP												
10.	LONGITUDE	Z			NMOQ	75	0	3			PRI. TEMP SE			22		fá							. <u>-</u>
	01	DEG 0 9 M	TIMES	DATAON	START DOWN	АТ DEРТН	AT SURFACE	PAR	I _										×	The second		3	
FREEMAN	LATITUDE	DEG MIN  S S S 4 .8 3	ort Side	TYPE / SN SBE 9+ 91660	772	89 2:701	80 2:303				PRESSURE	9)!	98	76	66	5	41	31	20	10	(i)		
VESSEL NOAAS MILLER FREEMAN			CTD A - Port Side	S NS/E	PRESS SN 29772	TEMP SN 1:889	COND SN 1:480				TRIP DEPTH	115	85	92	65	50	40	08	07	0	8	-	
VESSEL	CONSC CAST #	70		TYP	PRE	TEM	NO O				POS.	-	2	3	4	2	9	7	8	6	10	11	12

STATION DESIGNATION	WIND WIND OPE BOTTOM STA. DIEN. SPD. CLEAN DEPTH NAME/ID	(kts) · · · (m)	REMARKS	der	₩		MAX. DEPTH = 125 m	127.0%	SAMPLE	BOTTLE SAMPLE BOTTLE NUMBER	SALINITY SAL. NUTRIENT CHLOB	1204	(103)	12021	/ / / /	>	1200/		, bo11	72.01010/24 1198		100		- 3
	SEASURE SEASURE TATE ASSURE YILIBISIV	(°C) (mb) .	DATA LOCATION	r.;₃ Name/Header		2.50	6. (I)	TAPS4			FLUOR ChIAM									100				
& LEG Leg 1	TIME DRY (GMT) BULB	7 0 9 3 7 2.	5 =	Tape/Diskette ID	1 N N N			ChlAM TAPS6		D 9/11+ CTD DATA	SALINITY PAR			1.00		55		20	***()					
PROJECT & LEG MF97-05, Leg 1	DATE	OW / G A P R	w	0931	0931		60	HOUR K		SEA-BIRD 9/1	SEC. TEMP SAL		(4)											
7	TONGITUDE	3 N 1 6 6 3 5 .C	TIMES	60 DATA ON	START DOWN	1 AT DEPTH	3 AT SURFACE	PAR	2		SUPE PRI. TEMP							6	_	7				
VESSEL NOAAS MILER FREEMAN	ISC ST LATITUDE	O225559.03	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889 2:701	COND SN 1:480 2:303			-	TRIP PRESSURE	120	98 58	.59 59.	15 05	40 40	30 31	20 20	10	0				
VESSEL	CONSC CAST #	02		Σ	PRE	TEM	ő				స్ట	_	N	က	4	ည	9	7	∞	တ	10	1.	12	l

55-67 . . 64-64 . . .

COND	VESSEL NOAAS MILLER FREEMAN	FREEMAN		PROJE MF97-	PROJECT & LEG MF97-05, Leg 1			Z. 🔳	STATION	STATION DESIGNATION	NOIT	
DESIGN   No.   DESIGN   DESIGN   NO.   DESIGN   DEFENDENCE	8	NTTUDE	LONGITUDE	DATE JD= '	P 0 0		WET	SEA STATE VISIBILITY	WIND	79PE MEATHER		STA.
Table   Times   Data	DEG 356	N 0	DEG MIN	Sw / G A B	Y R 7	Z W	2 - - -	- d	(kts)			72
13   Tape/Diskette   D   File Name/Header   M3 × SS N 29772   START DOWN	CTD A - P	ort Side	TIMES	JD/TIME	9	7	-	)	-	EMARKS		/
SS SN 2972   STAFF DOWN   TAPE   TA	TYPE / SN SB	E 9+ 91660	DATA ON	137	Tag	be/Diskette		Name/Header		M3 X		-
P. SN 1:889 2:701   AT DEPTH	PRESS SN 29	772	START DOWN									
No. 1.480 2:303   ATSURFACE   Chlank   Tapes   Tapes   Tapes   Tapes   Chlank   Tapes   Tapes   Chlank   Chla			AT DEPTH	141			1002					
Mean   Mean   Tapes   Tapes   Tapes   Sample			AT SURFACE							IAX. DEPT	# E	E
TRIP   PRESSURE   PRI TEMP   SEC. TEMP   SALINITY   PAR   PLUCR   ChIAM   SALINITY   SAL   NUTRIENT   CHLOR   CALON			*		CHAM	TAPS				0	9 W	
TRIP   PRESSIME   PRI TEMP   SEC TEMP   SALINITY   PAR   R.LOR   ChIAM   SALINITY   CALOR				SEA-BIRD 6	9/11+ CT	D DATA			SAMPLE BOTTLE DATA	SAMPL	EBOTILE	NUMBER
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50-       51       12.097         45       41       12.097         30       36       12.074         10       10       12.057         2       2       2         2       2       2         2       2       2         3       2       2         4       10       12.057         10       10       10         10       10       10		76				L					2101	
45 .47   1208/ 40 41   1209/ 30 336   1206/ 10 10   10   1205/ 2 2 2 2   10   10   1205/	<u> </u>	15				8				ı	12-09/	
46       41       1207         30       36       1207         10       10       1205         10       10       1205         2       2       32.034       10       1205         2       2       10       10       10		- 47 Z			Ļ					39	1208/	/
30 36 20 20 10 10 2 2 2 2 2 2 32.0340   0   12.05/	d	4							-	<u>.</u>	12091	^
1007   10   120.55   22   25.021   10   120.57   10   10   10   10   10   10   10   1		38	*		20							>
22 2 32.034   b 12.05/		20									1206/	^
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		7							FEO.EC		1205/	/
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VESSEL	VESSEL. NOAAS MILLER FREEMAN	REEMAN			PRO	PROJECT & LEG MF97-05, Leg 1	g <u>_</u>					STATION	STATION DESIGNATION	ATION	
CONSC		8					TIME	OR?	ESSONAE T. Š	A STATE YTIBIS	QNIM	(fms) QUO	(tms) QUO 3- A3HTA: \$\overline{\text{\$\pi\$}}\$		STA
*	2	LATITUDE		-	$m \vdash$	0	~-	BULB		SIA BE		SPD.	<u>-</u> M	DEPTH	NAME/ID
02	024561	Z 2	166295	8	VAY MO	2 ×	H	0 0		(mp) -	(deg)	(kts) /	. r	(Y)	0
_	CTD A - Port Side		IMES					177	DATALOCATION	)		_	DEMADES	1	
	TYPE / SN SBE 9+ 91660	9+ 91660		4151	4		Tape/Diskette ID		File	File Name/Header	ader	<b>.</b>		•	
PRE	PRESS SN 29772	72										35			
<u>∓</u>	TEMP SN 1:889 2:701	9 2:701	АТ DEРТН	1 6			l		XXIIII			<u> </u>			
Ó	COND SN 1:480	30 2:303	AT SURFACE	133	8						==	≥	MAX. DEPTH =	TH = //	E >>
			PAR	Euon Fuon		CHAM		TAPS6	TAPS4	1 2 1			112/	0/0	) =
				SEA		9/11+	SEA-BIRD 9/11+ CTD DATA	<u></u> 4	3		<u>σα</u> -	SAMPLE BOTTLE	SAMP	SAMPI F ROTTI F NI IMBER	N.
Š	TRIP PHPTA	70 S	PRI TEMP	SEC TEMP	<u></u>	YHNI IAR	d	AAG	a C	MAIAO		VALUE OF A		TABIOTI IIA	2
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7	75	46												1821	
က	300	19												1216	
4	.50	50							as Na					12151	7
വ	40	40	5%				C)		4					12141	`
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(23)

VESSEL NOAAS M	VESSEL. NOAAS MILLER FREEMAN		a. ≥	PROJECT & LEG MF97-05, Leg 1	9 T			3	STATIO	STATION DESIGNATION		200-1
CONSC CAST #	LATITUDE	LONGITUDE	DATE	,00√=dL	TIME (GMT)	DRY BULB	WET WET	SEA STATE STATS A38 VISIBILITY SEA STATE S	WIND SPD.	CLOUD (amt) TYPE WEATHER	ВОТТОМ DEPTH	STA. NAME/ID
		DEG MIN	DAY	MO YR			티 -	• (	) (kts)	-		
025	5603.44N	N 66 9 9	29 W 19 A	APR97	6 4 4 1	2.2	11.0	33805	დ ~-	731	12	7
СТБ	CTD A - Port Side	TIMES	JD / TIME	1432		DA	DATA LOCATION	NO	<u></u>	REMARKS		
TYPE / S	TYPE / SN SBE 9+ 91660	DATA ON	1435		Tape/Diskette ID	ofte ID	File N	File Name/Header	_	M3 before	zpec	
PRESS S	PRESS SN 29772	START DOWN	1435	A. C. C.	Mary Mary	77 H		2012		- 5	The state of the s	
TEMP SN	N 1:889 2:701	АТ DEРТН	Mex.				3		2			4
COND SN	N 1:480 2:303	AT SURFACE	1450	2		Ť _			<u> </u>	MAX. DEPTH	- 11	£ \$2
		PAR	RELIOR	CHIAM	=	TAPS6	1.534	ш	=		10 (2)	Y
92	II	3		7					SAMPLE			
			SEA-BII	SEA-BIRD 9/11+ CTD DATA	CTD DAT	Ą		· ×	DATA		SAMPLE BOTTLE NUMBER	NUMBER
POS.	TRIP PRESSURE	E PRI. TEMP	SEC. TEMP	SALINITY	Y PAR		FLUOR	CHIAM	SALINITY	SAL.	NCTRIENT	SHOR SHOR
	111 011				2.4%						12901	
. 2	18						10				1289 >	
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9	35			80							12851	N
7	20 20	20										1
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NOAAS MILLER FREEMAN	FREEMAN		MF9.	MF97-05, Leg 1					5	SI DES		4	
CONSC CAST #	LATITUDE	LONGITUDE	DATE	90 = G	TIME (GMT)	DRY BULB	WET WET	SEA STATE VISIBILITY	WIND WIND DIRN. SPD.	CLOUD (amt)	желнея Воттом РЕТОМ		STA. NAME/ID
DEC	Z	DES MIN	DAY MO	Ϋ́	HR MIN	(၃)	(اس) (اس	(mb) *   * (dm)	(deg) (kts)	*	1 1		
265603.10	3.10 N	1991	9.09W19AP	R 9 7	523	2 2	101	338056	5619	73	8		N
CTD A - Port Side	ort Side	TIMES	JD / TIME	55		۵	DATA LOCATION	TION		REMARKS	3KS		
TYPE / SN SBE 9+ 91660	E 9+ 91660	DATA ON	1511	<u> </u>	Tape/Diskette ID	ette ID	Sit	हाँ Name/Header	er	Gar	Games truth somples	~ 30m	ples
PRESS SN 29772	772	START DOWN	54:3	100		((				6	M3		
TEMP SN 1:889	89 2:701	АТ DEРТН					######################################		245				
COND SN 1:480	80 2:303	AT SURFACE	152	<		10.				MAX. [	MAX. DEPTH =	N	E
	***	PAR	У ноп	ChIAM		TAPS6	TAPS4	4			170	0/0	
			SEA-BIRD 9/11+ CTD DATA	9/11+ C	TD DAT	4			SAMPLE BOTTLE		GAMPI E TORE E MIMBER		MAEB
<u> </u>	33						6.			<del> </del>			
POS DEPTH	PESSER.	PRI. TEMP	SEC. TEMP	SALINITY	PAR	اي	FLUOR	ChIAM	SALINITY	ıγ SAL:	IL. NUTRIENT		된
1	711								SS. 2HIS		47		
2 18	61 13												
3 8	18				98								6
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8													1,0
6									Jacobs St.				
10		11									1		
11													=
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CONSC CAST	LONGITUD DEG MIN TIMES DATA ON START DOWN AT DEPTH AT SURFACE  X  PAR	MH-97-05, Leg 1   TIME   DATE JD= \\ \( \cup \)   CMT   BU   DAY   MO   YR   HR   MIN   CM   PIN   PAR   MIN   CMT   DATA   MIN   MIN	TIME DRY  (GMT) BULB  HR MIN (°C)  CTO 027  CTO DATA  Y PAR	PATA LOCATION FILE Nam File Na	TINISIN 6 H		SAMPLE BOTTLE NUMBER  SAMPLE BOTTLE NUMBER  SAMPLE BOTTLE NUMBER  SAMPLE BOTTLE NUMBER	STA. NAME/ID m m CHLOR
n 0							305	
00							below	84
	=	##   						
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12					W			

- Nats # 1891-1300 for FOCT # 588-597 for whitledge

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VESSEL
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VESSEL NOAAS MILLER FREEMAN	PROJECT & LEG MF97-05, Leg 1	STATION DESIGNATION 34-1
CONSC CAST # LATITUDE	TIME DRY WET SO SHE SHIP SHIP SHIP SHIP SHIP SHIP SHIP SHIP	WIND OUR BOTTOM STA. SPD. CLEMENT STA. SPD. CLEMENT STA.
	1 W 2 O A P R 9 7 1 2 4 5 - 1 . 9 - 1 4 4 8 3 5 0	(E) (C)
CTD A - Port Side	TIMES JD / TIME DATA LOCATION	REMARKS
TYPE / SN SBE 9+ 91660	DATA ON File Name/Header	Hit beton
PRESS SN 29772	START DOWN 1238	
TEMP SN 1:889 2:701	AT DEРТH 12 4 (	
COND SN 1:480 2:303	AT SURFACE BY A 44	MAX. DEPTH ≈ 80 m
	PAR KELUOR KICHIAM TAPS6 TAPS4	84 O/m
	SEA-BIRD 9/11+ CTD DATA	SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER
POS. DEPTH PRESSURE	PRI TEMP SEC. TEMP SALINITY PAR RUOR CHIAM	SALINITY SAL. NUTRIENT CHLOR
1 38 18 1	1 36.5470 Da. 29 0.03341 1.9424	31.9867 29
က	bad Citm hatting	DO OCCUPANO
4	56C 5AL 31.9419	
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1-0	STA. NAME/ID	m	-			-	ستود		SAMPLE BOTTLE NUMBER	CHLOR					,						ñ	·	
ION 35	ВОТТОМ DEPTH	4 (3)					+ =		ВОТПЕ	NUTRIENT													
STATION DESIGNATION	ABHTABW	. ~	SHKS	10.69 m			MAX. DEPTH	-	SAMPLE	SAL. NI	88							,					
ON DE	CLOUD (amt)		REMARKS	3	/		MAX.															_	
ЅТАТІ	WIND				1		1		SAMPLE BOTTLE DATA	SALINITY	31.7951												
	WIND DIRN.	(deg)		eader						Σ									:				
	SEA STATE VISIBILITY	. & . ∑	NO	File Name/Header						ChIAM	9354	į											
	3HUSS3H4		CATI	Eile Z				TAPS4		-	1 61											٨	
	WET	() () () () ()	DATA LOCATION	_	I		' 	É		FUGR	0.03619			2.									
	DRY	°C)		te ID				TAPS6						8					100			-	
		N G		Tape/Diskette ID		•		Ě	DAT/	PAR	2.29					4							
9 T G	TIME (GMT)	HH 6		Tape/				5	СТБ	<b>\</b>	53												
PROJECT & LEG MF97-05, Leg 1	O/\ =0r	Α Υ R 9 7						ChlAM	)/11+	SALINITY	20951	100											
PROJE MF97-		M P	ш				'		IRD 8		31											(Y)	
	DATE	4.06 W2 O A	JD / TIME	1450	1451			HOUL	SEA-BIRD 9/11+ CTD DATA	SEC. TEMP	-0.0366		13								4		
	Щ	7 0						K	S														
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	07	DEG   6 4	TIMES	DATA ON	START DOWN	АТ ОЕРТН	AT SURFACE	E V		P.B.	0-	1									,		
3		Z 08			<u> </u>					PRESSURE	71.582								,				
VESSEL NOAAS MILLER FREEMAN	LATITUDE	DEG MIN	CTD A - Port Side	TYPE / SN SBE 9+ 91660	72	TEMP SN 1:889 2:701	COND SN 1:480 2:303			&	4												
LERF	K	DEG S 6 3	A - Po	N SBE	N 297	1:88	1:48			TRIP	0												
VESSEL NOAAS MI	CONSC CAST #	3 0	СТБ	PE / SI	PRESS SN 29772	MP SN	ND SN				4			-							_		
N S	89			<u></u>	<u>R</u>	Ä	8			<u>გ</u>	_	7	3	4	2	9	_	<b>00</b>	6	10	11	12	

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Š.	LONGITUDE DATE JD=	0	TIME (GMT) B	DRY BULB	WET WET	PRESSURE  VOVO, 6  SEA STATE  VISIBILITY  DI WIND  THE STATE  VISIBILITY  DI WIND  THE STATE  THE S	SPO Gent	ASHTASW	ВОТТОМ	STA. NAME/ID
MIN		ΥR	HR MIN	(00)	(°C) (mb)		(kts)	*	(m)	
92.6/N/69	01.92WAOAP	R 9 7 /	-9/8	2.0-	2.3	15834	۲ /	298	7	
CTD A - Port Side TIMES	JD / TIME	W		DA	DATA LOCATION	NO	<u>«</u>	REMARKS		•
TYPE / SN SBE 9+ 91660 DATA ON	608)	Ta Ta	Tape/Diskette	<u>O</u> e	File N	File Name/Header		J. Baund	Graund Truth, P	زد
PRESS SN 29772 START DOWN	OWN  812		12	8	5 3 5		4	has workin	King ~	31 psu
1:889 2:701 AT DEPTH		111 111	11			W	<u>@</u>	D sufect	ોુ	
1:480 2:303 AT SURFACE	ACE						<u>  ≥</u> 	MAX. DEPTH =		<b>1</b> S
PAP	HUOR FLUOR	ChlAM	TA	TAPS6	TAPS4		=	% %	63	
					î	2	SAMPLE BOTTLE			
	SEA-BIRD 9/11+ CID DAIA	5 + 1 / 8 /	ח טאוא				DATA	SAMP	SAMPLE BOTTLE NUMBER	NUMBER
PRESSURE PRI.	PRI. TEMP SEC. TEMP	SALINITY	PAR	ш	FLUOR	ChIAM	SALINITY	SAL.	NUTRIENT	CHLOR
43							31.5660	05		<del>&lt;</del>
43									U	
43				=		×				18
26				i i	V	y				200
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1.1	41		14		Ĭ	W =				
7	2						31.3833	D		<b>→</b>
					<b>=</b>		II			
	G.			_						

PG 34 OF 31

z	OM STA. H NAME/ID	2 7 3 7 3 7 3 7 3 7 5 5 7 5 7 5 7 5 7 5 7					w 289	**	CANAIN S CECASION OF MANAGED		NUTRIENT CHLOR	1310	1309	0.66	30 <b>B</b>	1.3	رد	306			\$26		
STATION DESIGNATION	CLOUD (amt) TYPE WEATHER D D D T T T T T T T T T T T T T T T T	. 7	MARKS	XXX	1(=0/0	Sec. 175	MAX. DEPTH =	:	Ja Ji kawa	SAWITE D	SAL. NUT	04 13		18	21		1307	13-			_		
STATION 3	WIND SPD.	(kts) *			<u>.</u> .3 		W		SAMPLE BOTTLE	¥   ¥	SALINITY	31.1828	1 24										
	PPESSURE SEASTRE VISIBILITY ON WIND	b) * * (deg)		File Name/Header	CT9034						ChlAM		- 0				tv.						
	WET SOURE	(°C) (mb)	DATA LOCATION	File N	070			TAPS4			FLUOR							•		985			
	DRY	3 Z	į	Tape/Diskette ID	>34		9 33	TAPS6	TATA		PAR									2.73			
& LEG Leg 1	TIME	YR HR MIN 9 7 2 2 5 9		Tape/Di	CTO 034		æ.	PIAM	SEA-BIBD 9/11+ CID DAIA		SALINITY												
PROJECT & LEG MF97-05, Leg 1	TE JD= \\O	о <u>п</u>		11 41	Y I	9.	110	ChlAM	BIRD 9/1	- 10 C						87	-						
	= = = ,	DAY OAY	JD / TIME					N FLUOR	SEA.	בל לבן	SEC. TEMP				**								
	LONGITUDE	0ES MIN	TIMES	DATA ON	START DOWN	АТ ОЕРТН	AT SURFACE	PAR			PRI. TEMP	<i>(</i> 3					**			:	i		
ZEEMAN	LATITUDE	M N N N N N N N N N N N N N N N N N N N	-		ĺ.	2:701	2:303		7, W 10 W		PRESSURE				V.		100						
VESSEL NOAAS MILLER FREEMAN		034 5 4 4 C	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889	COND SN 1:480				DEPTH	29	13	40	25	30	20	01	0				
VESSE	CONSC CAST #	0	)	TYPE	PRE	TEM	CON		Ŷ	5	POS	1	2	3	4	5	9	7	80	6	10	11	

PG 35 OF 31

	STA. NAME/ID	3					ε		JMBER	CHOR		\	1	× 13	\	)	7	7				
NOIL	BOTTOM DEPTH NA	75					Ъ9=н		SAMPLE BOTTLE NUMBER	NCTRIENT		1314		1313		1362	1311					
DESIGNA {	* CLOUD (amt)  * TYPE  * WEATHER  * O	2	REMARKS	M2-X	8) =9/	rozen	MAX. DEPTH		SAMPL	SAL												
STATION DESIGNATION $38 - l$	WIND WIND (amt) *	0 0	<u></u>	٤	3	7	W		SAMPLE BOTTLE DATA	SALINITY	31.6157											
	YTUIBISIV *	8320	, dife	Header	35	ļu			ω ш	Chiam	(,	7.00										
	SEASTATE SEASTATE	N	ATION	File Name/Header	CT003			75		ចី 												
7	WET BULB	do	DATA LOCATION	Ë				TAPS4		FUOR								٠				
	DRY BULB	-2.5		ette ID	2	,		TAPS6	∠	PAR											1	
45 T	TIME (GMT)	~		Tape/Diskette ID	CT:003 S				TD DA	2												
PROJECT & LEG MF97-05, Leg 1	χ.	R 9 7	7	<u> </u>				CHIAM	9/11+ C	SALINITY				-	The state of the s	NO.	) **	Fax				
PROJ MF97	DATE JD=	AIAP	JD / TIME			,	8.	&	SEA-BIRD 9/11+ CTD DATA	d Ma												
		/7 w	9				, ,	J FLUOR	SE/	SEC. TEMP				4.67		Wir-Whate g						
	LONGITUDE	3 5 2	S	A ON	START DOWN	АТ ОЕРТН	AT SURFACE	X PAR		PRI TEMP												
_	88	10 To 10 To 10	TIMES	00 DATA ON	STAF		-	X						,								
FREEMAN	LATITUDE	43.96N	ort Side	39+ 9166	72	39 2:701	80 2:30			HESSA PE									50	L	10	
VESSEL NOAAS MILLER FREEMAN	920	_	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889	COND SN 1:480 2:303			JE PE	89	50	a h	35	30	B	0	D				
VESSEL	CONSC CAST #	03		TYPE	PRES	TEMP	CONE			S	-	7	က	4	2	9	2	۵	တ	10	-	12

STATION DESIGNATION	CLOUD (amt) TYPE WEATHER DEPTH NAME/ID	(m) / 2	REMARKS	w/0=62	MIX	Frozen	MAX. DEPTH = 6 4 m		'LE SAMPLE BOTTLE NUMBER	ITY SAL. NUTRIENT CHLOR	27 1320	1319	\	1318	13/7	12/6 -	3/6					
STA	PRESSURE SEA STATE VISIBILITY DINN SPD. WIND SPD. OF WIND	b) (deg)	ATION	File Name/Header	C-0036		38	84	SAMPLE BOTTLE DATA	ChIAM SALINITY	S1.4743						8					
(Magazi	DRY WET BULB BULB	7	DATA LOCATION	Tape/Diskette ID File				TAPS6 TAPS4	DATA	PAR FLUOR			- A	П								
PROJECT & LEG MF97-05, Leg 1	DATE JD= \ \\ (GMT)	MO YR HR APR9703	TIME	Tape/I	CT0036			ChlAM	8	AP SALINITY				6					33		);=	
	LONGITUDE	63 49.5 0 WAL	TIMES JD/TIME	DATA ON	START DOWN	АТ ДЕРТН	AT SURFACE	HAMP NAMP	SEA-BII	PRI, TEMP SEC. TEMP				186						5		
VESSEL. NOAAS MILLER FREEMAN	LATITUDE	MIN E	CTD A - Port Side TIM	TYPE / SN SBE 9+ 91660 DA		1:889 2:701	COND SN 1:480 2:303 AT			TRIP PRESSURE							- 4					
VESSEL NOAAS MIL	CONSC CAST #	0EG	CTD 4	TYPE / SN	PRESS SN 29772	TEMP SN	COND SN		_	TRIP POS. DEPTH	1 63	2 50	3 40	4 35	5 20	6 ) 0	7 8	. °	6	10	11	-

STATION DESIGNATION	WIND OD STA. SPD. CLORE BOTTOM STA. SPD. DEPTH NAME/ID	ts) * * * (m)	20864 71 40	REMARKS	mark 63	Frození	,	MAX. DEPTH = 64, 8 m		SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	SALINITY SAL. NUTRIENT CHLOR	314834 32 1325	1324	1323	7	1322	13a1 /	\ 					
3	WET SEASTRE STATE VISIBILITY VIND DIRN.	(mb) * * (deg)	1833	DATA LOCATION	File Name/Header	CT0037			TAPS4	Ø <b>6</b>	FLUOR ChIAM SA	3/				<i>&gt;</i>	1					9	
k LEG Leg 1	TIME DRY (GMT) BULB	R HR MIN (°C)	70541-12.8	Ď	Tape/Diskette ID	CT0037		No. of the last of	IAM TAPS6	RD 9/11+ CTD DATA	SALINITY PAR					12							
PROJECT & LEG MF97-05, Leg 1	DE DATE JD= \\\	DAY MO	A. TO WALAPRO	JD / TIME				· ·	ARLUOR CHIAM	SEA-BIRD 9/11	SEC. TEMP	S		VI									
EMAN	DE LONGITUDE	DEG	N 1 6 7	ide TIMES	91660 DATA ON	START DOWN	2:701 AT DEPTH	2:303 AT SURFACE	Y PAR		PRESSURE PRI. TEMP					_							
VESSEL NOAAS MILLER FREEMAN	CONSC CAST # LATITUDE	N M M	65 + 5 / 21.	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889	COND SN 1:480 2:303	S		POS. DEPTH P	1 64.	2 50	8 40	67 4	2 70	0 - 9	7 0	8	6	10	-	12

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STATION DESIGNATION	WIND OD (SIMIT)  WIND OD BEDTH  SPD. CLOUD STA.	(kts) * * * (m)	REMARKS	~ 0/3	rete down 20 m/min	M2 moring cost 2	MAX. DEPTH = 166.1 m		SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	SALINITY SAL. NUTRIENT CHLOR	30, 2902, 18		3									
EG 1	TIME DRY WET SS O STATE SIBILITY SIGN. SELS SIBILITY SIGN. SELS SIGN. SIGN. SIGN. SIGN. SIGN. SIGN.	HR MIN (°C) (°C) (mb), , (deg)	DATA LOCATION	Tape/Diskette ID File Name/Header	CT0039 CT0039			M TAPS6 TAPS4	CTD DATA	Y PAR FLUOR CHIAM				Z.		ALC:		-72	2.			*
PROJECT & LEG MF97-05, Leg 1	LONGITUDE DATE JD=113	DEG MIN DAY MO YR	TIMES JD/TIME	DATAON	START DOWN	АТ DEРТН	AT SURFACE	PAR KIRUOR RCHIAM	SEA-BIRD 9/11+ CTD DATA	PRI. TEMP SEC. TEMP SALINITY		1.00 m	(A)	<i>p</i>					87			The second second
VESSEL NOAAS MILLER FREEMAN	CONSC CAST # LATITUDE	DEG MIN 0 29 5 6 5 2 6 7 N	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889 2:701	COND SN 1:480 2:303		e e	POS. DEPTH PRESSURE	1 24	2 24	3 2 1	4 12	5 (2-	6 77	7 5	8 5	ر و	10	11	12

VESSEL NOAAS N	MILERF	VESSEL NOAAS MILER FREEMAN		PR W	PROJECT & LEG MF97-05, Leg 1	6		e	STATION	STATION DESIGNATION	-ct	
CONSC CAST	ጟ	LATITUDE	LONGITUDE	DATE	€/\=dr	TIME DRY (GMT) BULB	WET	PRESSURE \ 0.12.5° SEA STATE SEA STATE VISIBILITY ON NO.	SPO SPO SPO SPO SPO SPO SPO SPO SPO SPO	PATHER WEATHER	BOTTOM ST DEPTH NAW	STA. NAME/ID
3	<u> </u>	NΙΨ	=	DAY	YR		(၃)	*	(kts)	*		2
0405707.1	570		6 N = 6 4 5 9 . 9	99 W22A	P R 9 7	0947-10	1211-6	33801	4141	0 0	70	7
CTI	CTD A - Port Side		TIMES	JD / TIME			DATA LOCATION	NOI	<u>~</u>	REMARKS		-
TYPE / (	SN SBE	TYPE / SN SBE 9+ 91660	DATA ON	944	<u>F</u> 	Tape/Diskette ID	_	File Name/Header				
PRESS (	PRESS SN 29772		ST'ART DOWN									
TEMP SN	1:889	2:701	AT DEPTH	10.			95				,	·
COND SN	3N 1:480	2:303	AT SURFACE	ا ا	<u></u>				<u>Σ</u>	MAX. DEPTH	99=	ε
00		Ι	PAR	Mg-uon	ChlAM	TAPS6	6 TAPS4			49	5/2	
				SEA-BIR	D 9/11+ CTD DATA	TD DATA			SAMPLE BOTTLE DATA	SAMPLE	SAMPLE BOTTLE NUMBER	ABER
SO O	TRIP	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	ChIAM	SALINITY	SAL. NL	NUTRIENT	SHLOR
	65	081.99	PH2H-1-	-1.4348	31.3488	3.39	0.2349	45821	31.4136	$\Box$		
7				P-(1)	-	20	190	2		):		±
က												
4									λ			
လ	33											
9						5					··	
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8					×							
6			N	122	=		ņ					
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<del>-</del>								-				
12			au									

VESSEL				H	PROJECT & LEG		_			STATION	STATION DESIGNATION	ATION	
NOAAS	NOAAS MILLER FREEMAN	REEMAN		Σ	MF97-05, Leg 1							43-1	
CAST #		LATITUDE	LONGITUDE	DATI	ا =DL	TIME (GMT)	DRY	WET WET	PRESSURE 1012.8 SEASTATE VISIBILITY ON WIND	WIND SPD.	CLOUD (amt) TYPE WEATHER	ВОТТОМ	STA. NAME/ID
	930	Z	_≥	DAY	~		္မ	()°()	-	(kts)		(E)	
1 40	0415725.	5.12N	12N/6551.9	.96W22A	P R 9 7 1	30 6-	<u>o</u>	-11.21	338040	0 8 1	00	00	43
	CTD A - Port Side	Đ	TIMES	JD / TIME			۵	DATA LOCATION	NOI	<u> </u>	REMARKS		
TYPE /	SN SBE	TYPE / SN SBE 9+ 91660 DATA ON	DATA ON	13:02		Tape/Diskette	te ID	File	File Name/Header	<u> </u>			
PRESS	PRESS SN 29772		START DOWN	13:03			f?) .			<u> </u>			
TEMP S	TEMP SN 1:889	2:701	АТ DEРТН		] 						i	*	
COND SN		1:480 2:303	AT SURFACE						.55	<u>  2</u> 	MAX. DEPTH	TH = C	7
		<b></b>	PAR	Hamon	CHIAM	T.A	TAPS6	TAPS4		,		61 W/0	
				SEA-BIR	SEA-BIRD 9/11+ CTD DATA	TD DATA	_			SAMPLE BOTTLE DATA	SAMF	SAMPLE BOTTLE NUMBER	NUMBER
8	TIRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR		RUOR	ChlAM	SALINITY	SAL	NUTRIENT	SHLOR CHLOR
-		H16.69	-1.3075 -1.3071	-1.3071	31.3931	PE.E 1	0	SHEE.	EOSE'H	31.3338			<u> </u>
2										·			
က							25	, ,					
4					3								
2							_						
9			٥		. "		<u>.</u>						
7						4							
8								*				,	
6													
10													
-													
12											,		
					,		020	0,4					

VESSEL NOAAS MILLER FREEMAN	FREEMAN		PRO MF9	PROJECT & LEG MF97-05, Leg 1					STATION	STATION DESIGNATION	T T T	
— <u> </u>	ATITUDE	NO NO	DATE	6	GMT)	DRY	WET SOURE	SEA STATE VISIBILITY  O MAN	WIND SPD.	CLOUD (amt) TYPE WEATHER WEATHER	ВОТТОМ DEPTH	STA. NAME/ID
4257 4257	425732.02N	16643.812W22A	2 W 2 2 A P	A 7 6 A	16 2 %	(°) (°) (°)	(°C) (mb)	(deb) (deg)	) (kts) *	. 9	(m)	7
CTD A - Port Side	ort Side	TIMES	JD / TIME			DA	DATA LOCATION	NOI	<u>æ</u>	REMARKS		
TYPE / SN SBE 9+ 91660	3E 9+ 91660	DATA ON	1625	H	Tape/Diskette ID	te ID	File	File Name/Header				. 108
PRESS SN 29772	9772	START DOWN	1626			``.	5	CTOOYL				
TEMP SN 1:889	889 2:701	АТ ОЕРТН	1628				8	,	<u>                                       </u>			
COND SN 1:	1:480 2:303	ATSURFACE			ø			27	<u>S</u>	MAX. DEPTH =	Э = H	E
		HA G	NF.LIOR /	ChlAM	TA	TAPS6	TAPS4		,	9/2	64	
	5		SEA-BIRD 9/11+ CTD DATA	9/11+ C	TD DAT		]		SAMPLE BOTTLE DATA	SAMPI	SAMPLE BOTTLE NUMBER	NUMBER
TRIP POS. DEPTH	PRESSURE	E PRI. TEMP	SEC. TEMP	SALINITY	PAR		FUOR	ChIAM	SALINITY	SAL.	NOTRIENT	G-LOR
1 65									31.5569	0.3		
2 65						_				)		
3 65							,					
4 65				-			-			-		
တ						$\dashv$						
ဖ							l					
7	:	2			- ,							XI.
8												
6												
10		<b>*</b>										
11												
12												

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STATION DESIGNATION	SEA STATE SEA WIND WIND OF THE STA. SPD. C. PRE BOTTOM STA. STA. STA. NAME/ID	(mb) (deg) (kts) * · · (m)	REMARKS	File Name/Header	CT0 043		MAX. DEPTH = (°C m	1 m/0 - 2	SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	Chlam SALINITY SAL. NUTRIENT CHLOR	31.3195											
PROJECT & LEG MF97-05, Leg 1	TIME DRY WET 88 BUJB BY	MO YR HR MIN (°C) (°C) (°C) (°C) (°C) (°C) (°C) (°C)	DATA LOCA	Tape/Diskette ID File	<u> </u>			KRUOR Chiam TAPS6 TAPS4	SEA-BIRD 9/11+ CTD DATA	SEC. TEMP SALINITY PAR FLUOR												
VESSEL NOAAS MILLER FREEMAN	LATITUDE	425737.93 NIK 726.73 W 22A	CTD A - Port Side TIMES	TYPE / SN SBE 9+ 91660 DATA ON	PRESS SN 29772 START DOWN	TEMP SN 1:889 2:701 AT DEPTH	COND SN 1:480 2:303 ATSURFACE	PAR		TRIP PRESSURE PRI.TEMP S	59	(05	50)	65	65							
VESSEL NOAAS N	CAST #	7	IJ.	TYPE / §	PRESS (	TEMP S	CONDS			S 0	-	2	3	4	သ	9	1	8	6	10	11	

PG 44 OF 31	STATION DESIGNATION 46-1	(smt) C	COUNTY STA. STA. NAME/ID	(m)	481 12 40	REMARKS	10/0 = 86			MAX. DEPTH=70 m		SAMPLE BOTTLE NUMBER	SAI NITBIENT	32											
	STATIC		WIND SPD.	(kts)	2 19	• ,	<b>`</b>					SAMPLE BOTTLE DATA	YEN IAC	31.223									,		
1+ De Tree		STATE THE	VISIBIL VAV (	(mb) * * (deg)	1648012	TION	File Name/Header	CT DO44	-		4		ChlAM	2.6433											
Constant Con			WET	(၁့)	-1.5	DATA LOCATION		5			TAPS4	0;	2 2 1	0.06955									-		
			IE DRY	(SC)	20 7.b		Tape/Diskette ID	.,			TAPS6	DATA	PAR	800		:								Š	:
	PROJECT & LEG MF97-05, Leg 1	8.	TIME (GMT)	H H	PR9722		Tape				Chlam	SEA-BIRD 9/11+ CTD DATA	SALINITY	31.1839				·							
	PR MF	<u> </u>	DATE	DAY	8.05W22A	JD / TIME	-	6	٠		NE MOR	SEA-BIR	SEC. TEMP	-	-			-	,						
#			LONGITUDE	DEG MIN	168280	TIMES	DATA ON	START DOWN	АТ DEРТН	AT SURFACE	X  PAR		PRI TEMP	-1.330h				ır.				`	:K0		
	REEMAN		LATITUDE		Z				2:701	2:303			dd Ssadd	058.F3											
	VESSEL NOAAS MILLER FREEMAN			<u> </u>	044/5746.11	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889	COND SN 1:480			TRIP					to the state of th							
	VESSEL NOAAS	SNOO	CAST #		104		T₹P	PRE	TEM	00 00			Š	-	2	3	4	2	ý	7	∞	6	9	Ξ	12

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STATION DESIGNATION	WIND OD (AME) SPD. CLOPE WIND STA. SPD. STA. SPD. STA.	(E) (1	$\neg$	w/0=63		55.	MAX. DEPTH = <b>66</b> m		SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	SALINITY SAL INUTBIENT CHLOB	3 30 1336	1335	1334	7	1333	1	1332	1331				
	SEA STATE VISIBILITY ON WIND	• 0	TION	File Name/Header	CT0045	PEII		4	<u> </u>	ChIAM	3.6514 3	3.5398	3.4933	3.996.3	3.5152	3.5981	3.6928	4916°E				
	PRESSURE B V B E FI	(°C)	ATAL		5		1.5	6 TAPS4	2	FLUOR	1151.0	0,1365	0.1039	0.09522	0.1400	0.1588	892600	346900				16
	TIME DRY (GMT) BULB	R MIN (°(		Tape/Diskette ID	1 20	84	İ	TAPS6	TD DATA	PAR	2,29	3.39	3.39	3.238	5 5.393	E98.F	5 30.81					
PROJECT & LEG MF97-05, Leg 1	د// =dr	MO YR	D C			181 181		X CHIAM	SEA-BIRD 9/11+ CTD DATA	SALINITY	91.0349	31,0330	31.0225	31.0311	31.0305	51.0213	31.0315	-	50.11 1972:1		18.	0.66
<u>a</u> x	DATE	N DAY	JD/TIME					M FLUOR	SEA-BII	SEC. TEMP	-1.3053	1-1.3061	-1.3036	F1.2917	-1.2756	-1.285H	-1.3808				3	e I
	LONGITUDE	DEG MII	TIMES	DATA ON	START DOWN	АТ ОЕРТН	AT SURFACE	X PAR	v 	PRI. TEMP	-1.3060	-1.3065	JE05.1-	-1.3933	-1.2763	-1.3848	-1.3811	-1.25.1-	•			
FREEMAN	LATITUDE	ارا ح	2		29772	2:701	1:480 2:303 /			PRESSUPE	61.038	50.933	39.923	30.644	35.569	שבביספ	16.01	3.659				
VESSEL NOAAS MILLER FREEMAN	CONSC CAST #	DEG MIN	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29	TEMP SN 1:889	COND SN 1:4			TRIP POS. DEPTH	1 60	2 50	3 40	4 30	5 25	6 22	7 /0	0	6	10		12

LER	NOAAS MILLER FREEMAN		I W	PRWECI & LEG MF97-05, Leg 1				STATION	STATION DESIGNATION $98-1$	ATION	
ځ	LATITUDE	LONGITUDE	DATE	() =Qr	TIME DRY (GMT) BULB	WET BULB	SEA STATE YTIJIBISIV N S S S S S S S S S S S S S S S S S S S	WIND SPD.	CLOUD (amt) TYPE WEATHER GRADE	ВОТТОМ	STA. NAME/ID
		DEG MIN	DAY	YRH	) NIW	(C) (C)	(deg) * * (deg	(kts)		$\vdash \vdash$	
5/5	Z 7		S C	P R 9 7 0	425-11	1 7 - 1 0	200	5 10	1/18	8	4 8
- A		LIMES	JU / IIME			DAIAL	20	<u>T</u>	HEMAHKS	1	
SN SBE	TYPE / SN SBE 9+ 91660	DATA ON		<u>ਜ</u> 	Tape/Diskette ID		File Name/Header	-3	w/0= SA	ટ્ક	
PRESS SN 29772		START DOWN				5	CT0046				
TEMP SN 1:889	2:701	АТ DEРТН								*	
COND SN 1:4	1:480 2:303	AT SURFACE						Σ ;	MAX. DEPTH	тн= 62	E
		PAR PAR	A FLUOR	ChlAM	TAPS6	3 TAPS4					
		,	SEA-BIR	SEA-BIRD 9/11+ CTD DATA	D DATA			SAMPLE BOTTLE DATA	SAMPL	SAMPLE BOTTLE NUMBER	NUMBER
TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	ChIAM	SALINITY	SAL.	NUTRIENT	GHLOR
62	62.500	-1.1330	SEE1.1-	31.0603	2.29	815900	2.7079	31.1016	74	332	
											:
				·							115
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	,										
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						q:					

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STATION DESIGNATION		(kts) * * * (m)	REMARKS	1 6/0= 67			MAX. DEPTH = 69.7 m		SAMPLE BOTTLE NUMBER  BATA SAMPLE BOTTLE NUMBER	SALINITY SAL. NUTRIENT CHLOR	20 1337	2.										
	WET VOLES SURE SEA STATE VISIBILITY  VISIBILITY  DIRIND	(°)	DATA LOCATION	File Name/Header	CT9 047		- 12 N 3	TAPS4	¥8	FLUOR CHAM	SEEL 8 1112,0											
k LEG Leg 1	TIME DRY (GMT) BULB	YR HR MIN (°C)		Tape/Diskette ID	CT0047			TAPS6	RD 9/11+ CTD DATA	SALINITY PAR	2.634											
PROJECT & LEG MF97-05, Leg 1	E DATE JD= 1\3	SW 23 A P R	JD / TIME					A PLUOR CHIAM	SEA-BIRD 9/11	SEC. TEMP SALI	0.9093 32.053E	for			. 1					1		
Ŋ	LONGITUDE	/ DEG MIN		660 DATA ON	START DOWN	01 AT DEPTH	2:303 AT SURFACE	PAR		PRESSURE PRI. TEMP	0016.0 811								,			
VESSEL NOAAS MILLER FREEMAN	CONSC CAST # LATITUDE	0FG MIN	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889 2:701	COND SN 1:480 2:3			유툰	1 5 5.118	2	3	4	25	9	7	8	6	10	<b>1.</b>	12

CONGRIUDE   DATE D= 1/3   Think   DRY   WET	VESSEL NOAAS M	VESSEL.	NA		4 2	PROJECT & LEG				STATION	STATION DESIGNATION	TION	
CT   CT   CT   CT   CT   CT   CT   CT	CONSC								STATE YTIJIE		% я∋нт		
SE 70 21,94   N 1 7   0 0   0   9   7   W   2   3   P   P   9   7 0   9   12   0   0   15   9   0   9   1   0   0   0   1   0   0   0   1   0   0				LONGITUDE DEG MIN	DATE	6 ×		BULB	VISIE	SPD.	. WEA	EPTH (%)	STA. NAME/ID
CTD A - Port Side   TMES   JD / TIME   Tape/Diskette ID   File Name/Header   JC / C / C / C / C / C / C / C / C / C	20	5702.9	z	700899	W 2 3 A	P R 9 7	. 0	2-0.6	1 54802	- Q	- 9	7	N N
SS N 2972   START DOWN   Tape/Diskette   D File Name/Header   Label Start Down   Tape/Diskette   D File Name/Header   Label Start Down   Tape   Tap	СТБ	A - Port Side	41	MES	JD / TIME	2.	B) SS	DATA LOC	ATION	<b>E</b>	<b>EMARKS</b>		
SS N 2972   STAFT DOWN   PSN 1:889 2:701   ATDEPTH   PSN 1:889 2:701   ATDEPTH   PSN 1:880 2:303   ATSURFACE   MAX. DEPTH   STATE   MAX. DEPTH   MAX. D	TYPE / S	N SBE 9+ 91		ATA ON		ا	ape/Diskett	Q	e Name/Header	_3	in	ي	
P. SN 1889 2:701   ATDEPTH   ACCOUNTS   ATSURFACE   MAX. DEPTH = 5-7	PRESS S	IN 29772	<u>છ</u>	TART DOWN			STEW I	)	840 OT				
MAX. DEPTH = 5-1   MAX. DEPTH	TEMP SN	1:889	-	ТОЕРТН	21 -8		78	>= 10 = 10 = 10 = 10 = 10 = 10 = 10 = 10			ŀ		
Method   M	COND SI	1:480		T SURFACE	188			11 S		Σ	AX. DEPT	11	E
TRIP   PRESSURE   PRI TEMP   SEC.TEMP   SALINITY   PAR   PLUCK   Chiam   SALINITY   SA	ì			PAR	MELLOR	ACHIAM	TA	100 M	184				
THP   PRESSURE   PRI TEMP   SEC TEMP   SALINITY   PAR   FLUCR   ChIAM   SALINITY   SAL. NUTRIENT			25	£9	SEA-BIF	(D 9/11+ C	TD DATA			SAMPLE BOTTLE DATA	SAMPLI	E BOTTLE	NUMBER
50 50.348 -0.4105 31.583.3 a.39 0.3168 5.03168 10  10 10.348 -0.4495 -0.4548 31.5904 a.39 0.394 4.8588  20 20.686 -0.4952 -0.4948 31.5499 a.39 0.3961 4.3948  20 20.686 -0.4952 -0.4948 31.5459 a.39 0.3943 4.4348  20 20.696 -0.4952 -0.5345 31.5353 a.39 0.3843 4.5318  20 20.601 -0.5431 31.5335 a.39 0.3840 4.1534			SSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	RUOR	ChiAM	SALINITY		NOTEN	
50 50.378 -0.4495 -04512 31.5321 2.39 0.3144 4.8584 30 30.496 -0.4952 -0.4948 31.5349 9.29 0.1961 4.310 30 20.332 -0.5133 -0.5139 31.5439 9.39 0.1961 4.5353 -0.5139 4.4948 50 3.601 -0.5431 -0.5431 31.5335 3.39 0.1860 41.5374			250	-0.4112	-0.410E		C	0,3168	5.0316	31.6168			
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### CASE  ### CA	VESSEL NOAAS MILLER FREEMAN	REEMAN		5	PROJECT & LEG MF97-05, Leg 1	EG 9 1		<u>u</u>		STATION	STATION DESIGNATION	ATION	
DEG   MIN   DAY   MO   VR   HR   MN   CC)   CC)   CMD   CO   CMD	- Q <b>⊢</b>		LÍ			E H	) DBC	3HUUSS3	P. 61 C STATE SPILITY	Š	A∃HTA	T C	V
16 9   5 8  0 9   W   2 3 A   P   B   A   P   C   C   C   C   C   C   C   C   C		TITUDE	LONGITUDE	DATE	JD=113	(GMT)	BULB	384	AIS SEV	SPD.	/AME		JAME/ID
Tabe/Diskette   Data Location   Penarics	DEG 7	Z	DEG M	_	0		= (	(C)	• 6	1) (kts)			
TIMES	4760	Z -	0	_	Р В	1 2 1	<u>;</u>		0 1	7		73	2
START DOWN  AT DEPTH  AT DEPTH  AT SURFACE  AT DEPTH	CTD A - Po	rt Side	TIMES	JD / TIM	ш		٥	ATA LOCAT	NO.	<u> </u>	EMARKS	>	
2:701 AT DEPTH  2:303 AT SURFACE  2:303 AT SURFACE  SEA-BIRD 9/11+ CTD DATA  SEALINITY PAR FLUCK CHAM SALINITY PAR FLUCK CHAM SALINITY CHOOL CHOOL CHAP CHAP CHAP CHAP CHAP CHAP CHAP CHAP	E/SN SBE	9+ 91660	DATA ON			Tape/Dist	cette ID	File	Vame/Heade	<u>_</u>			
P SN 1:899 2:701 AT DEPTH  D SN 1:480 2:303 AT SUFFACE    MAX DEPTH = L/g   MAX DEPTH = L/g	SS SN 297	72	START DOWN	000		Ţ _:		1	POHO	=	1		
A   1,480   2:303   AT SURFACE		9 2:701	АТ DEРТН	2   	4	E .	8			-		. 11	اما
Mean   Mean   Mean   Tapse   Tapsa   Sample   Sample   Sample   Seather   Seather   Sample			AT SURFACE							2	AX. DEF		٤
TRIP DEPTH         SEA-BIRD 9/11+ CTD DATA         SAMPLE BOTTLE DATA           CO         HO         SALINITY         PAR         FLLOCK         ChAM         SALINITY         SALINITY <t< td=""><td></td><td>23</td><td></td><td>RUOR</td><td>ChiA</td><td></td><td>TAPS6</td><td>TAPS4</td><td></td><td></td><td></td><td></td><td></td></t<>		23		RUOR	ChiA		TAPS6	TAPS4					
TRIP         PRESSURE         PRI. TBAP         SEC. TEMP         SALINITY         PAR         FLIDS         COLAM         SALINITY         SALINITY         SALINITY         SALINITY         SALINITY         SALINITY         NUTRIENT           5.0         HO         13 AU         13 AU <td< td=""><td></td><td></td><td>409</td><td>SEA-BI</td><td>RD 9/11+</td><td>СТБ DA</td><td>AT.</td><td></td><td></td><td>SAMPLE BOTTLE DATA</td><td>SAME</td><td>LEBOTTLE</td><td>UMBER</td></td<>			409	SEA-BI	RD 9/11+	СТБ DA	AT.			SAMPLE BOTTLE DATA	SAME	LEBOTTLE	UMBER
Conc.   Conc		PRESSURE	PRI. TEMP	EC. TEMP	SALINI		AR.	FLIOR	ChIAM	SALINITY	SAL.	NUTRIENT	<u>8</u>
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VESSEL NOAAS MILLER FREEMAN	FEEMAN			PROJECT & LEG MF97-05, Leg 1	න <u>_</u>	70	:	:	STA	ATION D	STATION DESIGNATION	NOL	
CONSC CAST # LA	LATITUDE	LONGITUDE	DATE	JD= \\3	TIME (GMT)	DRY BULB	WET BULB	PRESSURE 1013.0 SEASTATE VISIBILITY	WIND WIND DIRN. SPD.	Ö Ğ CLOUD (amt) TYPE	MEATHER	ВОТТОМ	STA. NAME/ID
DEG MIN	NIN		DAY DAY	MO YR	HR MIN	0	(°C)	. 8	y) (k				52
CTD A - Port Side	ort Side			ב		<u> </u>	DATA LOCATION	2	2		DEMADIVE	36	)
TYPE / SN SBE 9+ 91660	9+ 91660	DATAON		71	Tape/Diskette ID		File	File Name/Header	der				
PRESS SN 29772	72	START DOWN						0800.70					
TEMP SN 1:889	39 2:701	АТ DEРТН		77 = 11						55	13	= 0/11	76
COND SN 1:4	1:480 2:303	AT SURFACE	\$ I	38			25		15	MA	MAX. DEPTH	'   "	₩ 75
		√ PAR	/ RUOR	CHIAM		TAPS6	TAPS4	4					)
	-		SEA-BIR	RD 9/11+	D 9/11+ CTD DATA	₹			SAMPLE BOTTLE DATA	크로 코로	SAMPLE	SAMPLE BOTTLE NUMBER	VUMBER
TRIP POS. DEPTH	PRESSURE	E PRI. TEMP	SEC. TEMP	SALINITY	Y PAR	g	FLUOR	ChIAM	SALINITY	<u></u>	SAL. N	NUTRIENT	GHLOR
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<b>¥</b> 0	VESSEL NOAAS MILLER FREEMAN	FEEMAN		a. ≥	PROJECT & LEG MF97-05, Leg 1	<sub>Ф</sub> –		,	,	S	STATION DESIGNATION	DESIGNA	ATION	
CONSC CAST #		LATITUDE	LONGITUDE	DATE	C// =0r	TIME (GMT)	DRY	WET WET BULB	SEA STATE YTURISIV	WIND	S S S S S S S S S S S S S S S S S S S	MEATHER	воттом рертн	STA. NAME/ID
	930	Z Z	DEG MIN	DAY	MO YR	HR MIN	(၁့)		• • (q	╂╾┤			H	
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	CTD A - Port Side	ort Side	TIMES	JD / TIME	111			DATA LOCATION	TION			REMARKS		
TYPE	/ SN SBE	TYPE / SN SBE 9+ 91660	DATA ON			Tape/Diskette ID	cette ID	File	File Name/Header	der			٠	
PRES	PRESS SN 29772	72	START DOWN					્ધ ા	CT D051					
TEMP SN	SN 1:889	39 2:701	АТ DEРТН										o=olox	95
COND SN	SN 1:480	80 2:303	AT SURFACE								ΔM	MAX. DEPTH	U	Ε
				AFLUOR	CHIAM		TAPS6	TAPS4	4					
				SEA-BIR	RD 9/11+ CTD DATA	TD DA	TA			S M	SAMPLE BOTTLE DATA	SAMPL	SAMPLE BOTTLE NUMBER	VUMBER
S.	TRIP DEPTH	PRESSURE	E PRI. TEMP	SEC. TEMP	SALINITY		PAR	FLUOR	ChIAM	<b>V</b> S	SALINITY	SAL.	NUTRIENT	CHLOR
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VESSEL NOAAS MILLER FREEMAN	IILER F	REMAN		,	PRO. MF97	PROJECT & LEG MF97-05, Leg 1	(E +					STATIO	STATION DESIGNATION	MATION	
CONSC CAST #	LAT	LATITUDE	LONGITUDE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	DATE JD=	8	TIME (GMT)	DRY	WET	PRESSURE SEA STATE		WIND SPD.	ABHTABW	ВОТТОМ	STA.
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CTE	CTD A - Port Side	rt Side	TIMES	/ QS	JD / TIME				DATA LOCATION	ATION			REMARKS		
TYPE / §	N SBE	TYPE / SN SBE 9+ 91660	DATA ON				Tape/Diskette ID	cette ID	Ĭ	Nam	File Name/Header				
PRESS SN	SN 29772	72	START DOWN						્ય ો	4	CT. D052				
TEMP SN	1:889	9 2:701	АТ DEРТН								;	l		y = oky	50
COND SN	N 1:480	0 2:303	AT SURFACE	,					1	i			MAX. DEPTH	27 =	E
			PAR	Phuor		CHIAM		TAPS6	TAPS4	22					94
				SE/	SEA-BIRD	D 9/11+ CTD DATA	AD OT	TA				SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER	NUMBER
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	∃MP	SALINITY		PAR	F.UOR		ChlAM	SALINITY	SAL.	NUTRIENT	GHLOR
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CAST #	_	LATITUDE	LONGITUDE	DATE	C/ = Of	TIME DRY (GMT) BULB	WET	PRESSURE  SEA STATE  VISIBILITY  O W	W W C	WEATHER	BOTTOM NEPTH	STA.
	} I	<del>                                     </del>	DEG	DAY	γ π -	Z.	(၃)	+	(kts)		+	
0 5	053561	<u>Z</u>	1694	19 / W23A	PR972	2029 3.8	ر الا الا	34801	5148	7 %	238	55
	CTD A - Port Side		TIMES	JD / TIME			DATA LOCATION	NOI	<u> </u>	REMARKS		
TYPE	TYPE / SN SBE	SBE 9+ 91660	DATA ON			Tape/Diskette ID		File Name/Header		W6=236	36	
PRE	PRESS SN 29772	72	START DOWN		;		0.3	CTDOSO				
TEMI	TEMP SN 1:889	2:701	АТ DEРТН					4 [4] pr 4	<u> </u>			
NO NO NO	COND SN 1:480	2:303	AT SURFACE						Ž	MAX. DEPTH	H= 233	E
	,		PAR	V FLUOR	Chiam	TAPS6	5 TAPS4					
		,		SEA-BIF	SEA-BIRD 9/11+ CTD DATA	TD DATA	]		SAMPLE BOTTLE DATA	SAMPL	SAMPLE BOTTLE NUMBER	JMBER
POS	TRIP DEPTH	adrissadd -	PRI. TEMP	SEC. TEMP	SALINITY	PAR	PLUGR	ChIAM	SALINITY	SAL.	NUTRIENT	유용
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PG SHOF 31

VESSEL NOAAS MILLER FREEMAN	FREEMAN			PROJECT & LEG MF97-05, Leg 1	9 1				STATION	STATION DESIGNATION	IATION	
S 1.				- = !	TIME	DRY	HENSSE M	STATE SIBILITY	WIND	PE RATHER	ВОТТОМ	STA.
	LATITUDE	ੋ਼⊢	DATE	<u></u>	(GMT)			ΙΛ IS	SPD.	M ,	DEPTH	NAME/ID
054560	5663.35 N	3 9 1	A W W A Y A	A P R 9 7	7 W	2 6	5 2	(mb) * * (deg)	% (Kts)		0 (E	<i>N</i>
CTD A - Port Side	ort Side	TIMES	JD / TIME	Ē	Si		DATA LOCATION	<b>N</b>		REMARKS	7	
TYPE / SN SBE 9+ 91660	E 9+ 91660	DATA ON			Tape/Dis	Tape/Diskette ID	File	File Name/Header		ari	CAR CAR	
PRESS SN 29772	772	START DOWN					5	CT DOSH	  	SCA. SOL	(e) 35	MOSASESS (2) 3 METHOT
TEMP SN 1:889	89 2:701	АТ ОЕРТН						,		\$ 14 ¢	@_F9785m-3	40
COND SN 1:480	180 2:303	AT SURFACE							_ ≥	MAX. DEPTH =	TH=	E
		PAR	FLUOR	ChIAM	5	TAPS6	TAPS4				0/33	122
1							]		SAMPLE BOTTLE	*		
			SEA-BIR	IRD 9/11+ CID DAIA	A CID	<u>ح</u>			DATA	SAMP	SAMPLE BOTTLE NUMBER	NUMBER
POS. DEPTH	PRESSURE	E PRI. TEMP	SEC. TEMP	SALINITY		PAR	FLUOR	ChIAM	SALINITY	SAL.	NUTRIENT	CHLOR
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VESSEL NOAAS MILLER FREEMAN	FREEMAN		PF	PROJECT & LEG MF97-05, Leg 1	5 1		Œ		ST	STATION DESIGNATION	ESIGNA.	NOIL	
CONSC CAST # L	LATITUDE	HONGITUDE	DATE	3// =OL	TIME (GMT)	DRY BULB	WET G	PRESSURE  VOD 1. 2  SEA STATE  VISIBILITY  S O	WIND WIND DIRN. SPD.	CLOUD (amt)	мелтнея В <u>с</u>		STA. NAME/ID
DEC	NIM	DEG MIN	DAY	MO YR	HR MIN	(၁့)		*	(deg) (kt	(kts) * *	*	(m)	
055556	03.21N	16505.2	28W25A	P R 9 7	0209	0	1 0 0	01583	502	1/5 2:	2	13	28
CTD A - Port Side	ort Side	TIMES	JD/TIME			70	DATA LOCATION	NOIL		REM	REMARKS	\	
TYPE / SN SBE 9+ 91660	E 9+ 91660	DATA ON			Tape/Diskette ID	tte ID	File	File Name/Header	Jer	3	1 = 0/0	10/	¥.
PRESS SN 29772	772	START DOWN			CT() 05 5	14	5	CT0055					
TEMP SN 1:889 2:701	189 2:701	AT DEPTH						in					
COND SN 1;	1:480 2:303	AT SURFACE								MAX	MAX. DEPTH =	4= /06	E
		X PAR	MELLOR	Chiam		TAPS6	TAPS4	4					,
,			SEA-BIR	D 9/11+ (	SEA-BIRD 9/11+ CTD DATA	.<			SAMPLE BOTTLE DATA		SAMPLE	SAMPLE BOTTLE NUMBER	UMBER
TRIP POS. DEPTH	PRESSURE	E PRI. TEMP	SEC. TEMP	SALINITY	Y PAR		FLUOR	ChIAM	SALINITY	",	SAL.	NUTRIENT	CHLOR
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and cells musel with tutor X-100 solution.

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	PROJECT & LEG  MF97-05, Leg 1	TIME DRY WET SPD. CIP SPD. CIP STA.  LONGITUDE DATE JD= \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DEG MIN DAY MO YR HR MIN (°C) (°C) (mb)*. (deg) (kts)*. (m) 1 6 9 5 8. 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	ATION	DATA ON Tape/Diskette ID File Name/Header	START DOWN	АТ DEРТН	AT SURFACE m	A PAR A HUOR LICHAM TAPS6 TAPS4	SEA-BIRD 9/11+ CTD DATA  SAMPLE BOTTLE NUMBER	PRI. TEMP SEC. TEMP	1 JUE 10.0 PE.S PSSP 12. 0803 LE 12.						
CONSC CAST			S M.		TYPE / SN SBE 9+ 91660 DATA ON	START DOWN	2:701 AT DEPTH	COND SN 1:480 2:303 AT SURFACE					ń		- 6			

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STATION DESIGNATION	C PETTOM STA. DEPTH NAME/ID	(m)	REMARKS	11/20/0	/		MAX. DEPTH = 7 ℃ m		SAMPLE BOTTLE NUMBER	Y SAL. NUTRIENT CHLOR			35	>	7	7						
STATI	D WIND	(kts) (ts)	<i>i</i> .				l		SAMPLE BOTTLE DATA	SALINITY												
	PRESSURE 10/1/5 5 TE SEA STATE VISIBILITY DIRIND	(mb) * * (deg)	NOIT	File Name/Header	CTOOS 7			4		ChIAM										-		
	WET BULB	(°C)	DATA LOCATION	File	5		   	TAPS4	]	FLUOR												
	DRY BULB	MIN (°C)		Tape/Diskette ID				TAPS6	DATA	PAR					ĨĨ.							1
PROJECT & LEG MF97-05, Leg 1	TIME (GMT)	YR HR R9 7 0 4		Tape/I				ChlAM	SEA-BIRD 9/11+ CTD DATA	SALINITY									5			
PROJ MF97	DATE JD=	3 W 2 S A P	JD / TIME					FLUOR	SEA-BIRD	SEC. TEMP	:							-				
	LONGITUDE	DEG MIN	TIMES	DATA ON	START DOWN	АТ ДЕРТН	AT SURFACE	X RAG		PRI.TEMP SI												
REEMAN	LATITUDE	Z				2:701		•		BRESSIFE				,					,	i		
VESSEL NOAAS MILLER FREEMAN		OS 7 5 4 4 9 9 5	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889	COND SN 1:480 2:303			TRIP DEPTH	N	6.5	30	20	01	0				-		
VESSEL	CONSC CAST #	0 5		TYPE	PRE	TEM	NO O			POS.	-	2	3	4	5	9	7	8	6	10	11	12

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						36.4					ľ
VESSEL			<u> </u>	PROJECT & LEG		5.4		STATION DESIGNATION	DESIGNA	NOIL	
NOAAS MILLER FREEMAN	FREEMAN		<u>M</u>	MF97-05, Leg 1				- 9			
SNSC		î w	Sh.			340	<b>3TAT</b>	(tms) C	(tms) Q		
_	ATITUDE	LONGITUDE	DATE	T   S   - Of	TIME DRY (GMT) BULB	WET WET		WIND	ПAЭN	BOTTOM	STA.
DEC.	MIN	DEG MIN	DAY	YR	NW	<u>်</u>	· · · · · · · · · · · · · · · · · · ·	(kts)	١.	╂	
0585473.0	3.06n	16496.	89 W 25 A	P R 9 7 8 5	14 2	1.4.1	25733	CT ) 8/8	1/2	87	-
CTD A - Port Side		TIMES	JD / TIME			DATA LOCATION	NOL	<b></b>	REMARKS		
TYPE / SN SBE 9+ 91660		DATA ON		Tap	Tape/Diskette 1D	10	File Name/Header		40/2	42	
PRESS SN 29772	772	START DOWN		Ü	CT0 058	CTC	CTD058				
TEMP SN 1:889	189 2:701	АТ ОЕРТН				(E)	3 80	Đ			
COND SN 1:480	180 2:303	AT SURFACE						Σ	MAX. DEPTH	14 = HJ	E
		PAR	A FLUOR	Chlam	TAPS6	TAPS4					
		٠	SEA-BIR	SEA-BIRD 9/11+ CTD DATA	D DATA	e*.		SAMPLE BOTTLE DATA	SAMPL	SAMPLE BOTTLE NUMBER	NUMBER
POS. DEPTH	PPESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	R.JOS	OhlAM	SALINITY	SAL.	NOTRIENT	86
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PG 59 OF 31

ATTUDE   LONGITUDE   LONGITU	VESSEL NOAAS MILLER FREEMAN	REMAN		PROJ MF97	PROJECT & LEG MF97-05, Leg 1	(5 F	<u> </u>			STATION DESIGNATION	DESIGN	ATION	
A		ПОРЕ	LONGITUDE	DATE J		TIME (GMT)	DRY BUB		VISIBILITY	MIN MAIN	TYPE MEATHER	ВОТТОМ	STA. NAME/ID
1-10   10   10   10   10   10   10   1		Z	DEG MIN	DAY	Ϋ́R	H W	(0)	-	1 + 7	(kts)	. [	(m)	7
SeE 9+ 91660   DATA ON   Tape/Diskette ID   File Name/Header   SeE 9+ 91660   DATA ON   Tape/Diskette ID   File Name/Header   SEA-BIRD SALINITY   PAR   RUOR   ChiaM   SALINITY   SALINITY   SALINITY   PAR   RUOR   ChiaM   SALINITY	24516	3	16459.0	S W S A	R 9 7	11/1/20	ر. ئ	0 7	<b>≁</b>	7	+	57	79
Tape/Diskette ID   File Name/Header   SE 9+ 91660   DATA ON   Tape/Diskette ID   File Name/Header   1:889 2:701   AT DEPTH   TAPSC   TAPSC   TAPSC   TAPSC   TAPSC   SAMPLE   DATA   D	CTD A - Por	t Side	TIMES	JD / TIME	West State of the		0	ATA LOCAT	NOL	<u>æ</u>	REMARKS		Y)
29772 START DOWN  1:889 2:701 AT DEPTH  1:480 2:303 AT SURFACE    AT DEPTH   TAPS6   TAPS4   SAMPLE   SAMPLE   SAMPLE   SEC. TEMP   SALINITY   PAR   FLUOR   ChIAM   SALINITY   SAMPLE   SALINITY   PAR   FLUOR   CHIAM   SALINITY   SA	PE / SN SBE	9+ 91660	DATA ON		a F	Tape/Diske	offe 1D	File I	Vame/Header	3	W/05	50	
D SN 1:889 2:701   ATDEPTH	ESS SN 2977	δı	START DOWN		8	138	30	Ğ	PSC	95 52 60	000		
1:480 2:303 AT SURFACE    A PAR   MESSURE   TAPS4   TAPS4   SAMPLE   SAMPLE			АТ ОЕРТН	X X		3 14		155					
			AT SURFACE	` 				12 to		<u>∑</u> 	MAX. DEPTH	TH = 51	٤
SEA-BIRD 9/11+ CTD DATA   SEA-BIRD 9/11+ CTD DATA   DEPTH   PRESURE   PRI. TEMP   SEC. TEMP   SALINITY   PAR   RLUCK   ChIAM			X PAR		ChlAM		APS6	TAPS4					
TRIP         PRESSURE         PRI. TEMP         SEC. TEMP         SALINITY         PAR         R.LIOR         Cham           30			er Er	SFA-BIRD	9/11+ (	TAG GT	. 4	<b>4</b> :)	v	SAMPLE BOTTLE	QWQU	GEOMETRIA ETCA EL IOMAGO	O D O D
50 30 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	<u> </u>								==				
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VESSEL	70		PRO	OUECT & LEG	151				STA	TION DE	STATION DESIGNATION	Z	
NOAAS MILL	NOAAS MILLER FREEMAN		MF9.	MF97-05, Leg 1					_	63			
OSNOO						E0	∃ĕn	JATE STATE	X E		HER	776	
CAST #	LATITUDE	LONGITUDE	DATE JD=	10	TIME (GMT) B	DRY BULB	WE WE	SEA S	WIND WIND	NPE CLOUI	MEATH BOTTOM PEPTH		STA.
980	Z		DAY	YR	z	Н		*	+-		1	+	
06054	0605424.89N16	16508.6	W A S A P	R 9 7	0843	2.0	1.30	3034733	3028	8 7	2		6
стр А	CTD A - Port Side	TIMES	JD / TIME			DA	DATA LOCATION	rion	100	REMARKS	PKS		
TYPE / SN	TYPE / SN SBE 9+ 91660	DATA ON		ř	Tape/Diskette ID	<u>Θ</u>	File	File Name/Header	er	3	071=01W	0	
PRESS SN 29772	29772	START DOWN	305 m			1000	5	CT2060			22	O.	
TEMP SN	1:889 2:701	АТ DEРТН			100		l e	2015) 2015)	ű.				
COND SN	1:480 2:303	AT SURFACE			15 15	Şc/r				MAX.	MAX. DEPTH =	06.1	E
t			Home. ✓	CHIAM	TA	TAPS6	TAPS4	=				3	
	3 J		SEA-BIRD 9/11+ CTD DATA	9/11+ C	TD DATA		S <sub>1</sub>		SAMPLE BOTTLE DATA	<u></u>	AMPLEB	SAMPLE BOTTLE NUMBER	/BER
TRIP DEPTH	H PRESSURE	PRI TEMP	SEC TEMP	SALINITY	PAR		801	ChiaM	YEN IAS	<u> </u>	140	I THE PLANT	2 7
	<u> </u> 	-											
2 100										9		2253	
3 75	×									<u> </u>	7	2352	
4 50							0				-	`	
5 40					ie.	-					e /	1350	
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8 10							12	100				1	
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VESSEL NOAAS MILLER FREEMAN	REEMAN		PRO	PROJECT & LEG MF97-05, Leg 1	g -		ж		STATION	STATION DESIGNATION	ATION	
CONSC CAST # LAT	LATITUDE	LONGITUDE	DATE JD	5//=0	TIME (GMT)	DRY BULB	WET THE REPORT OF THE REPORT O	PRESSURE   O C.   SEA STATE VISIBILITY DI WIN	WIND SPD.	MEATHER WEATHER	BOTTOM	STA. NAME/ID
930		DEG MIN	DAY MO	ΥR	HR MIN	္စ		*	(kts)	*	(m)	7.
0615422.1	2.13Nl	651	6.50 W 25 A P	R 9 7	014	9	0 0	044732	0218	79	167	19
CTD A - Port Side	ort Side	TIMES	JD / TIME			ā	DATA LOCATION	NOI	<u>«</u>	REMARKS	Į.	
TYPE / SN SBE 9+ 91660	9+ 91660	DATA ON			Tape/Diskette ID	offe ID	File	File Name/Header	1	0/3	10=161	
PRESS SN 29772	72	START DOWN	10 A 10 A		1965.C E	Sell Co		1200CT				M
TEMP SN 1:889	39 2:701	АТ DEРТН		1000		S3418			118 FG =			
COND SN 1:48	1:480 2:303	AT SURFACE	195 1 1 2 2 2 2 5 5 5 5 5 5 5 5 5 5 5 5 5		1 (2) (4 (3))		504	6	≥	MAX. DEPTH =	TH = 1/0)	E
		PAR	Huor	Chiam	/#1 	TAPS6	TAPS4					
2		7), 19,	SEA-BIRD 9/11+ CTD DATA	9/11+ C	TD DAT	Æ		# # #	SAMPLE BOTTLE DATA	SAMP	SAMPLE BOTTLE NUMBER	NUMBER
TRIP POS. DEPTH	PRESSUPE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	œ	FLUOR	ChIAM	SALINITY	SAL	NUTRIENT	CHLOR
1 150			20	0						Q <sub>X</sub>	JASEC!	
2 100		ş	1								V 2259	
3 75								24			13258	
500		133					r et e					/
5 40		`\.		2	i.a		1.0	S	23		/ 2357	7.
6 3n							14					/
7 20		4	36								12251	,
8 (0		(V)		1000	20	38					-	/
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VESSEL NOAAS MILLER FREEMAN	FREEMAN			PROJECT & LEG MF97-05, Leg 1	EG ig 1				STATION	STATION DESIGNATION	ATION	£:
CONSC CAST # LA	LATITUDE	LONGITUDE	DATE	3// =QC	TIME (GMT)	DRY	WET WET	PRESSURE 1000/ SEASTATE TILIBIEIV ON SEE	WIND OPD.	RENTHER	ВОТТОМ	STA. NAME/ID
DEG MIN	MIN 0.26N	DEG M	N DAY	MO R	HR MIN	ο ·	(5) Q (9) Q	* 1	(kts)			. 65
CTD A - Port Side	ort Side	TIMES	JD / TIME	Æ	Ī	٥	DATA LOCATION	NOI		REMARKS		
TYPE / SN SBE 9+ 91660	9+ 91660	DATA ON	1/2	3 5 II	Tape/Diskette ID	cette ID	File	File Name/Header	10	10/W	W/0=(52	
PRESS SN 29772	72	START DOWN					<i>V</i>	CT 7063				
TEMP SN 1:889	39 2:701	АТ DEРТН				Sate S w						
COND SN 1:480	80 2:303	AT SURFACE			8 102		1 - 4	0.00	<u> </u>	MAX. DEPTH	7TH = 15	E
		_√ PAR	_/FLUOR	ChiAM	AUU.	TAPS6	T'APS4			e.		6
i.	W _		SEA-B	SEA-BIRD 9/11+ CTD DATA	CTD DA	TA		**	SAMPLE BOTTLE DATA	SAMP	SAMPLE BOTTLE NUMBER	NUMBER
TRIP POS. DEPTH	PRESSURE	E PRI. TEMP	SEC. TEMP	SALINITY	, me	PAR	FLUOR	ChIAM	SALINITY	SAL.	NUTRIENT	SHLOR
150								V\$		6)	gyee	,
2 100							0 1		7		3365	
3 75			-	-				E 545			かってん	
4 50			20	di Mili Mili		0 = 0 : 5 = 0 :	3" =					
5 40											3263	
ි රුද												
7 20											8788	33
8 10												
0		2					):				1261	
10												
11						-						
12							4.5					
		200					35					

STATION DESIGNATION	WIND CLOUD (amt) TYPE WEATHER DEPTH NAME/ID	(m) * * (m)	72862 488	REMARKS	Removed Childen and	2	3 =	MAX. DEPTH = TT 9 m	384	SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	, °	TEER OR	Н	SEC.	1555	OFEC		/ 61¢¢	>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	***	> Face	
O	WESSURE BUB BUD SEA STATE VISIBILITY ON WIND	(geb) +	0.00647315	DATA LOCATION	File Name/Header	CADOLES		<i>5</i> .=	TAPS4	38 2	HUOB Chiam Sa									4		20	
PROJECT & LEG MF97-05, Leg 1	DATE JD=\\S\S\ (GMT) BULB	DAY MO YR HR MIN (°C)	TWASAPROTINAG 11.H	JD / TIME	Tape/Diskette ID	1412 CH	1 HaH	OHA	OR CHAM TAPS6	SEA-BIRD 9/11+ CTD DATA	EMP SALINITY PAB						2		T.				324
*	LONGITUDE	DEG MIN	و	TIMES JD	DATA ON	START DOWN	АТ ОЕРТН	AT SURFACE	/ PAR PAUDR	SE	PRI.TEMP SE												
VESSEL NOAAS MILLER FREEMAN	CONSC CAST # LATITUDE	DEG MIN	10635421.721.726.	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889 2:701	COND SN 1:480 2:303			POS. DEPTH PRESSURE	300	2 200	3 150	4 100	३ नह	000	7 40	8 30	ر در د	10	11 0	12

	STA.	NAME/ID	107					E			NUMBER	CHLOR					ņ:	/	/	1	/		<i>,</i> ,	
ATION		DEPTH (m)	545					TH=			SAMPLE BOTTLE NUMBER	NUTRIENT	2282	2281	2280	22.79	22.78	27 7 28	227.7	15	タレてて		22.75	
DESIGN	(amt) (JOD (amt) 347/ FATHER W	M .	ر ا	REMARKS				MAX. DEPTH		l <sub>s</sub>	SAMP	SAL.	F											
STATION DESIGNATION		SPD. C	1 68					Ž	-	SAMPLE	DATA	SALINITY					***							
	SIBILITY S	(dea)	7275	3	File Name/Header	<b>J</b> 0	18					ChIAM										-		
	EA STATE	S,	7	TION	Name/	CTDOLY		11	4	to		ភ		93										
	WET	$\neg$	0	DATA LOCATION	File	리	. U	32 32	TAPS4		.x	FLUOR			- 2			# T			Ħ			
	DRY	ရ ရ (၁)	194	٥	kette ID	0 20 2			TAPS6		TA	PAR												
න <u>-</u>	TIME	HR MIN			Tape/Diskette ID		X	114			RD 9/11+ CTD DATA						2.5							
PROJECT & LEG MF97-05, Leg 1	И	MO YR	Œ	1	= 1				ChIAM	ige:	9/11+	SALINITY												
PRO MF9	<u> </u>	DAY MO		JD / TIME				= 200	FLUOR		SEA-BIRD	SEC. TEMP												
	E	DEG MIN	0	TIMES	DATA ON	START DOWN	АТ DEРТН	AT SURFACE	] PAR		90	PRI. TEMP	(3)						174		-		2	8
REMAN	L G	MIN	Z		_		2:701	1:480 2:303 AT				PRESSURE												
VESSEL NOAAS MILLER FREEMAN		530	0645428.0	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	SN 1:889			33		DEPTH	300	300	S. C.	100	7 1	N <sub>O</sub>	CH CH	30	000	9	0	
VESSEL	CONSC	<b>#</b> ,	90		TYPE	PRES	TEMP SN	COND SN				S.	-	8	က	4	Ŋ	9	7	80	6	10	-	12

VESSEI	SEL 8 TOTAL CAG				all.
NOAAS MILLER FREEMAN	MF97-05, Leg 1		SIAHONI 8-7	STATION DESIGNATION	
SNOO		TATE	(tms) (	¥3	<b>5</b> 3
CAST CATITUDE	LONGITUDE DATE JD= 1/5 (GMT) BULB BULB		N N N	MEATH WEATH	STA.
DEG MIN DEG	MIN DAY MO YR HR MIN (°C)	(mb) * *	*	١.	
VOL55434.86N16	6 4.3 9 Wals APRIST 1923 11.0	0.00442314	8 5 0	62419	0
CTD A - Port Side TIMES	JD / TIME	DATA LOCATION	2	REMARKS	
TYPE / SN SBE 9+ 91660 DAT	DATA ON Tape/Diskette ID	File Name/Header			į.
PRESS SN 29772 STAF	START DOWN	CADOLES			ij
TEMP SN 1:889 2:701 ATD	АТ DEРТН				85
COND SN 1:480 2:303 AT SI	AT SURFACE		ΔA	MAX. DEPTH = 14	m 804
	WPAR CHIAM TAPSE	TAPS4			N. 3
1) (1)		, <u>2</u>	SAMPLE		
S	SEA-BIRD 9/11+ CTD DATA	24	DATA	SAMPLE BOTTLE NUMBER	NUMBER
POS. DEPTH PRESSURE	PRI. TEMP SEC. TEMP SALINITY PAR FLUOR	ChiAM	SALINITY	SAL. NUTRIENT	GLOR
300				X 1290	
2 200				T	_
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5 J				/ /	
o CR					_
7 40 1					
8 30 8					\
6	**			,	
10 10					
111 2 1				1 283	1
12				16	
	only to bothes traper	d- Report	dest		

STATION DESIGNATION 68-2	WIND CLOUD (amt) TYPE WEATHER WEATHER DEPTH NAME/ID	(E) 7 . 7 . 7 . 7	REMARKS	w/0=413			MAX. DEPTH = $405$ m		SAMPLE BOTTLE DATA SAMPLE BOTTLE NUMBER	SALINITY SAL. NUTRIENT CHLOR	15 \$240	13289	12388	19387	12286		Sass	,	13284 1	18	1223	
3	WET SEASURE SEASURE VISIBILITY DINN WIND		DATA LOCATION	File Name/Header	CT0066			TAPS4	Ø ab =	FLUOR ChIAM S/	88	The second secon										
PROJECT & LEG MF97-05, Leg 1	TIME DRY (GMT) BULB	YR HR MIN (°C)	300 300	Tape/Diskette ID			- Total	Chiam TAPS6	SEA-BIRD 9/11+ CTD DATA	SALINITY PAR												
PROJE MF97-(	LONGITUDE DATE JD= \\5	MIN DAY MO	JD / TIME		NWC 1948		ACE	RUOR	SEA-BIRD 9	PRI. TEMP SEC. TEMP S		4 ASST 788 4				N Sept. Sept.						
R FREEMAN	LATITUDE	34.80N/66	CTD A - Port Side TIMES	TYPE / SN SBE 9+ 91660 DATA ON	29772 START DOWN	:889 2:701 AT DEPTH	1:480 2:303 AT SURFACE	PAR	2	PRESSURE			88									
VESSEL NOAAS MILLER FREEMAN	CAST #	1814 66543 43 4.8	стр А.	TYPE / SN S	PRESS SN 29772	TEMP SN 1:889 2:701	COND SN 1			POS. DEPTH	- 300	2 200	3 150	4 100	5 75	6 50	7 40	8 30	6	10 10	11	12

VESSEL NOAAS MILLER FREEMAN	FREEMAN	8	27	PROJECT & LEG MF97-05, Leg 1	EG 3g 1	v <u> </u>			STATION	STATION DESIGNATION	ATION	
CONSC CAST # L	LATITUDE	LONGITUDE	DATE	E JD= // 등	TIME (GMT)	DRY	WET WET	SEA STATE VISIBILITY OF SEA	S WIND (amt)	HEHTTAEW	ВОТТОМ	STA. NAME/ID
	N	DEG MIN		O <sub>M</sub>	HR	<b>့</b>	(°C) (mb)	*	(kts)	* 3		60
467690	2 ~	16614	3 Z W Z	SAPR97	2153	2	3.00	338205	5 0 2 8	7	291	7
CTD A - Port Side	ort Side	TIMES	JD / TIME	ME	section of the sectio		DATA LOCATION	NO	<u></u>	REMARKS		
TYPE / SN SBE 9+ 91660	E 9+ 91660	DATA ON			Tape/Diskette ID	cette ID	File	File Name/Header		10/02		
PRESS SN 29772	2772	START DOWN					CTO	CT0.067	SS,	,		
TEMP SN 1:8	1:889 2:701	АТ ОЕРТН		:	1 11							
COND SN 13	1:480 2:303	AT SURFACE		-		· .		**	Σ	MAX. DEPTH	787 = HI	E
		PAR	FLUOR	ChiAM		TAPS6	TAPS4					11
			SEA-E	SEA-BIRD 9/11+ CTD DATA	CTD DA				SAMPLE BOTTLE DATA	SAMPI	SAMPLE BOTTLE NUMBER	NUMBER
TRIP		PRI TEMP	%	SALINITY	/a	PAR	BCS F	ChIAM	SALINITY	IĄS	NI TRIENT	E 5
1.								-			378 E	
2 200							- 1			,	2297	
3 183		:		)0		·					2396	
4 100						3.				ann a Lagrang	2295	
5.75			٠					(			2294	
9		90										7
0/2 /		×								13	2293	7
8	30		i							,		7
6 22			,								2292	7
10 12									,			)
<u>0</u>											2291	7
12					3							

VESSEL NOAAS MILLER FREEMAN	REEMAN			PROJECT & LEG MF97-05, Leg 1	g -			9	STATION	STATION DESIGNATION	ATION	
CONSC						ì	3Unss	STATE YTUR		(tms) QU		
T:	LATITUDE	ğ.	40	) =Qr	(GMT)	EUB BUB		SEA	SPD.	MEA.	BOTTOM DEPTH	STA. NAME/ID
OK RC L	N W V	DEG V	9 w 9 9	MO YR	HR AN	ξ <u>-</u>	(°C) (mb)	) (de	(kts)	, ,	(E)	1 7
000	20.00	2	O NOIN !	י ה ה	2		0	2	3	7 / 5	,	71)
CID A -	CID A - Port Side	TIMES	JD / TIME			2	DATA LCCATION	NO	<u>«</u>	REMARKS		
TYPE / SN SBE 9+ 91660	3E 9+ 91660	DATA ON			Tape/Diskette ID	ette ID	File N	File Name/Header	2	1/0 ×	89	
PRESS SN 29772	9772	START DOWN					5	-0068		- 9	00	
TEMP SN 13	1:889 2:701	АТ ДЕРТН	II .	25					1	r w		
COND SN 1:	1:480 2:303	AT SURFACE			the state of the s				<u>≥</u>	MAX. DEPTH =	7H = 48	E
	,	PAR	A FLUOR	Chlam		TAPS6	TAPS4					
		<b>)</b>	0 4 10	07.044	40 010	. <	= 5		SAMPLE			
		12 12 13	SEA-DI	SEA-BIRD 9/11+ CID DAIA	מוט חוט	∡			DATA	SAMP	SAMPLE BOTTLE NUMBER	NUMBER
POS. DEPTH	PRESSURE	E PRI. TEMP	SEC. TEMP	SALINITY	*	PAR	FLUOR	ChlAM	SALINITY	SAL.	NUTRIENT	Q.F.O.R.
1 63									V	2	2303	/
5 47	ri I		. 10			-		N	N.		2302	-)
3 33											2301	7
7/ 4		1					64 200				2300	1
υ Ο		**				12				2	2399	7
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8				Ø			1.0					
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10	V	tt t						5.				
11							(a)					
12						=			8			11

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VEC.001			DECT 9 I EC					LACTA TO	814C1CLC	i de la	
VESCEL NOAAS MILLED EDEEMAN		ME07	ME07-05 1 og 1	20						5	
				300	(30)	341	TY.	(tms) (	(amt) (		
CAST LATITUDE	LONGITUDE	DATE JD=	9	TIME DR	DRY WET	683816 12 13 13 13 13 13 13 13 13 13 13 13 13 13	SEA ST VISIBIL D S	WIND SPD.	MEATH	ВОТТОМ	STA. NAME/ID
980	DEG MIN		ΥR		Н	Н	*	(kts)	*		7
0695650.30N	N16400.99	W28AP	R 9 7 \ (	1604	0 K.	9880		ا ا ا	72	ከተ	7
CTD A - Port Side	TIMES	JD / TIME	9		DATA	DATA LOCATION	z	22	REMARKS		Œ.
TYPE / SN SBE 9+ 91660	DATA ON	3	Тар	Tape/Diskette ID	<u>O</u>	File Na	File Name/Header	_\$	W/6= 65	10	
PRESS SN 29772	START DOWN		Ų	SI		C70069	269	<u>ل</u>	4 67	CTD to collet	C asses
TEMP SN 1:889 2:701	АТ DEРТН	8	(# = <	Ī					0 70	of a water	
COND SN 1:480 2:303	AT SURFACE	8		5 E	5		ir.	Ž	AX. DEPT	MAX. DEPTH = (5)	٤
	X PAR	X FLUOR	CHIAM	TAPS6		TAPS4	36				2
		SEA-BIRD 9/11+ CTD DATA	9/11+ CT	D DATA				SAMPLE BOTTLE DATA	SAMPL	SAMPLE BOTTLE NUMBER	NUMBER
OFF.			8						- ;	1	
POS. DEPTH PRESSURE	PHI TEMP	SEC. TEMP	SALINITY	¥ _	<b>X</b>	<del>5</del>	Chlaim	SALINITY	- NA S	NO MEN	5
0 0	# S										
Н					Ŷ.						
7 R			Ш						HSA.		
2 2 2	9			1		8			Q.F.		
6 65			į.	Ī	3	=			-		
7 65	×	20	z:			8					
8			-							VI.	
6											
10		=:	<b>K</b>	П			, I			11	
11							30	į		l	
12	8						r (		-		

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017	3
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STATION DESIGNATION	WIND OUP (amt) SPD. CLOW BOTTOM STA. SPD. DEPTH NAME/ID	(kts) * * * (m)	REMARKS	Roghers Div. Cros	calle prochatory	Kong	MAX. DEPTH = CS m		SAMPLE BOTTLE SAMPLE BOTTLE SAMPLE BOTTLE	"	265 00	591	25	885	685	588	577-58	807-865	for TWH. Helps				
	WET SELSCURE VISIBILITY  VISIBILITY  DIRN  DIRN  DIRN  ONE  ONE  ONE  ONE  ONE  ONE  ONE  O	(°C) (mb) • • (deg)	DATA LOCATION	D File Name/Header	CTIDOTO			TAPS4	98 98	HUOR ChIAM SA		24	27 EF				ž			0			
PROJECT & LEG MF97-05, Leg 1	TIME (GMT)	MO YR HR MIN (°C)		Tape/Diskette ID			8	Chiam	ID 9/11+ CTD DATA	SALINITY PAR	V						27		N	<b>3</b>			
ă W	ONGITUDE DATE	3 W Q Q	TIMES JD / TIME	DATA ON	START DOWN	АТ ОЕРТН	AT SURFACE	JAFAR JAFLUOR	SEA-BIRD	PRI. TEMP SEC. TEMP			2									23	
VESSEL NOAAS MILLER FREEMAN	\ <u>\</u>	0 1 0 5 6 4 9 1 N 1 6 4 0 0 1 0	CTD A - Port Side	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889 2:701	COND SN 1:480 2:303			POS. DEPTH PRESSURE	1 55 ==	2 55	3 27	4 35	5 30	6 20	7 0	80	<b>o</b>	10	11	12	

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NOAAS MILLER FREEMAN		MF97	MF97-05, Leg 1	No.			N T I	STATION DESIGNATION	<u> </u>	
CONSC CAST # LATITUDE	LONGITUDE	DATE JD=	II. (で/=OC	TIME DRY (GMT) BULB	BULB WET	SEA STATE VISIBILITY  SEA STATE	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	HENTER HENTER	BOTTOM DEPTH	STA. NAME/ID
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999		RUOR	ChIAM	TAPS6	TAPS4	ŭ,				}
		4					SAMPLE BOTTLE			
		SEA-BIRD 9/11+ CID DAIA	9/11+ CII	DAIA			DATA	SAMPL	SAMPLE BOTTLE NUMBER	MBER
POS. DEPTH PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	ChIAM	SALINITY	SAL.	NUTRIENT	CHLOR
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