PG / OF 11

VESSEL			<u>a</u>	PROJECT & LEG	G			STAT	STATION DESIGNATION	NOLLAN	
NOAAS MILLER FREEMAN	FREEMAN	/		MF - 97 -	06			S	STA /	1-4	i
cast # LA	LATITUDE	LONGITUDE	DATE	=Qr	TIME 1	DRY WET	SERSOURE SEAS ABS YTUIBISIV	WIND WIND	CLOUD (amt) 77PE 7 PSHTASW	ВОТТОМ	1-1 STA.
080	NIW	DEG MIN	DAY	ΥR	7	Н	(mb) .	-) _*	Œ	
165/00	2.94 N	16118	19w16m0	4660	1830	5.5 5.0	1997	7323	867	787	
Port Side CTD	СТО	TIMES	JD / TIME		'	DATA LC	DATA LOCATION		REMARKS		
TYPE / SN SBE 9+ 91660		DATA ON		<u></u> 	Tape/Diskette ID		File Name/Header	ader	CAST TO	TO 200 M	
PRESS SN 29772	72	START DOWN		I			СТD001		FOR	POLLOCK EC	EGG WATER
TEMP SN 1:889	19 2:701	АТ DEРТН		. [,		67			
COND SN 1:4	1:486 2:303	AT SURFACE				1			MAX. DEPTH =	PTH = 20	E
ń	5.50.	X PAR	N FLUOR	ChlAM	TAPS6		TAPS4				
N.			SEA-BIR	SEA-BIRD 9/11+ CTD DATA	TD DATA			SAMPLE BOTTLE		SAMPI E BOTTI E NII MADED	0 H
TRIP									┿		L ACINDE
POS DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	ChIAM	SALINITY	N SAL.	NUTRIENT	OHLOR
1 150								- !	05		
2 50											
3,53									,		
621 4				236							
5 0		2				,					
6 150		#2				-					
7 155						,					
8								31 4 ° Co		i	
6						Æ					
10										5%,	
-	=								-		
12											

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STATION DESIGNATION	MIND WIND OF SPD. C. P. T. (m.)	058220166811637	TION	File Name/Header	CTD002 Craber ALT		MAX. DEPTH = 50% m		SAMPLE BOTTLE BOTTLE NUMBER		2,1						7					
PROJECT & LEG Mf - 97 - 06	IE DRY WET T) BULB BULB MIN (°C) (°C)	970432 6.5 4.92	DATA LOCATION	Tape/Diskette ID File N	ט			Chiam Tapse Taps4	SEA-BIRD 9/11+ CTD DATA	SALINITY PAB FLIOB									* .			
PROJECT MF-	NGITUDE DATE JD= MIN DAY MO	3 Y. O SWI 7 MA 4	TIMES JD / TIME	DATAON	START DOWN	АТ ОЕРТН	ATSURFACE	PAR RUOR C	SEA-BIRD 9/1	PRI. TEMP SEC. TEMP SAL	, ,			1				9			,	
VESSEL NOAAS MILLER FREEMAN	CONSC CAST # LATITUDE DEG MIN	N /	Port Side CTD T	TYPE / SN SBE 9+ 91660 C	PRESS SN 29772 S	TEMP SN 1:889 2:701	2:303	530		POS. DEPTH PRESSURE	_	2	3	4	ı,	9	2	.8	6	10	11	

1000	Ç	,					-			<u> </u>		8	
N S	VESSEL NOAAS MILLER FREEMAN	FREEMAN		<u>4-</u>	PROJECT & LEG	90 5		SEE	2 × -	STATION	STATION DESIGNATION	NATION	
CONSC	8			8				. 331	3.	(tac) ((1ms) Q	\	
CAST #		LATTUDE	LONGITUDE	DATE		TIME (GMT)	DRY BUB	WET		WIND	ЩAЗV	ВОТТОМ	STA.
-	9 8 0	Z	DEG MIN	DAY	MO YR	HR MIN			*	(kts)		(E	
0	383	25.44 N	157/6.5	2w17	MAY97	1828	6.5	15.0	5	-	19	8976	
	Port Side CTD	CTD	TIMES	JD / TIME	, jan			DATA LOCATION	NOLL	Œ	REMARKS	(0	
ΤΥΡ	E/SN SBE	TYPE / SN SBE 9+ 91660	DATA ON			Tape/Diskette ID	kette ID	File	File Name/Header		SECO1	RECOVER AKTI	-
PRE	PRESS SN 29772	772	START DOWN	>				CTD	5000		Deplay	AK 78	200
TEM	TEMP SN 1:889	39 2:701	АТ ОЕРТН	, ar					,	!	3	1	
NOO	COND SN 1:46	1:480 2:303	AT SURFACE	-I _{gra} eman Ha		8	! !	 - 		<u>≥</u>	MAX. DEPTH =	PTH = SC	E
	530	S	PAR	Ruor	ChIAM		TAPS6	TAPS4	**				
				SEA.BIC	DO 0/11. CTD DATA	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<		•	SAMPLE	(,	
			-	יום-עיס	111/20	אח חוי	X			DATA	SAME	SAMPLE BOTTLE NUMBER	NUMBER
S.		PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	,	PAR	FLUOR	ChiAM	SALINITY	SAL.	NUTRIENT	9
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2		53				1							
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9							- e ²		Ÿ	,			
Ξ									L				
12				-11 F							:		

STATION DESIGNATION	WIND OUT BOTTOM STA. SPD. C F WE BOTTOM STA.	(m)	REMARKS	recover AK73	Derday AK79	!	MAX. DEPTH = SO m		SAMPLE BOTTLE SAMPLE BOTTLE SAMPLE		SALINITY SAL. NUTRIENT CHLOR	6										
Sunam.	PRESSURE VISIBILITY VISIBILITY O WIN	(mb) • • (deg)	CATION	File Name/Header	CTD604	W S	3.6	TAPS4	75 M	÷	ChiAM			. 6:								
12	DRY WET	(0°) (0°) N	DATA LOCATION	Tape/Diskette ID F			A SE	TAPS6	ATA		FAH HUOH	10 10		ł								74
PROJECT & LEG	<u> </u>	MO YR HR MIN	_	Tape/Di				ChlAM	SEA-BIRD 9/11+ CTD DATA	A Line and Control of the Control of	SALINIII	i ii				8	И	55	ħ	A.		4.
<u>a. </u>	DATE	MIN DAY	JD / TIME		Z	15		RUOR	SEA-BIR	[
IAN	LONG	2 N S S S	TIMES	1660 DATA ON	START DOWN	2:701 AT DEPTH	2:303 AT SURFACE	PAR			-	50			2).	ï						
VESSEL NOAAS MILLER FREEMAN	ĭ∟	045202.3	Port Side CTD	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889 2:7		550	O W	PIET P		2			<u>%</u>			55				
ž Š	85 -	ठ		Σ	<u>R</u>	Ē	8			Š	<u>.</u>	- ~	3	4	ß	9	7	∞	თ	9	=	12

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VESSEL NOAAS MILLER FREEMAN	FREEMAN		<u>u</u>	PROJECT & LEG ハデタラー	90		Sanam	×	STATIO	STATION DESIGNATION	NOLLY	
SNOO	£2						380	BIAI	(J)	(tms) C	\	100
	LATITUDE	LONGITUDE	DATE	<u>م</u>	GMT)	ORY BULB	WET WET	PRESSI VISIBIL V V 7 VISIBIL VIND	WIND	WEATH-	ВОТТОМ	STA.
DGC	MIN	DEG MIN	DAY	MO YR	HR MIN	(°C)		*	(kts)	1	Ξ	
005520	55206.85N	15544.0	BW - 8m A	19197	1856	5.9		1 44	18	H9298	3 20	
Port Side CTD	e CTD	TIMES	JD / TIME				DATA LOCATION	NOI	Œ	REMARKS		
TYPE / SN SBE 9+ 91660	E 9+ 91660	DATA ON			Tape/Diskette ID	ette ID	File	File Name/Header		recove	-AKTS	<
PRESS SN 29772	772	START DOWN					5	CT0005		peplar	X	R
TEMP SN 1:8	1:889 2:701	АТ ОЕРТН		· V						10/3	= 1823	
COND SN 1%	1:480 2:303	AT SURFACE			r				<u> </u>	MAX. DEPTH = { 65	F= F	E . 8.
ń		PAR	RUOR	ChIAM		TAPS6	TAPS4					
* ,									SAMPLE			
			SEA-BIF	RD 9/11+ CTD DATA	CTD DAT	Ą		•	DATA	SAMPL	SAMPLE BOTTLE NUMBER	NUMBER
POS. DEPTH	PPESSUPE	PRI. TEMP	SEC. TEMP	SALINITY	Y PAR	g,	FLUOR	ChIAM	SALINITY	SAL.	NUTRIENT	6
1 1653										30		
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7					<u> </u>	K	67					
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12												

HSSEV.						9	-						
NOAA	NOAAS MILLER FREEMAN	EMAN		٠. ٢	MF-97-0	90		Tox S	4	SIAII	SIATION DESIGNATION	NOTA TOTAL	
CONSC CAST #	C	UDE	LONGITUDE	DATE	.dC	TIME (GMT)	DRY BUB	WET SCHEE	SEA STATE YTHIBISIN	WIND WIND	CLOUD (amt) 77PE 73HTAEN	ВОТТОМ	STA.
	g c	-	DEG MIN	DAY		H MIN	(၃)	(°)) (q	(kts)		(E)	
0	12/134	<u>ک</u>	1.2452	0 2 M 6/	M 2 4 9 7	7 3	6.9	6.23	0361	45112	598	231	4
	Port Side CTD	-	TIMES	JD / TIME	ш		,	DATA LOCATION	TION		REMARKS	•	
TYPE	TYPE / SN SBE 9+ 91660		DATA ON	c.		Tape/Diskette ID	kette ID	File	File Name/Header	ler le			
PRESS SN	S SN 29772		START DOWN	1.0	İ			2	CT0007				
TEMP SN	1:889	2:701	АТ DEРТН				·			-			
COND SN	-	2:303	AT SURFACE	 [20	-				MAX. DEPTH =		T. 02.7
	530		PAR	FLUOR	K CHIAM		TAPS6	TAPS4	4	,			
					,				• 3	SAMPLE BOTTLE	111 111		
				SEA-BI	SEA-BIRD 9/11+ CTD DATA	CTD DA	TA		•	DATA	_	SAMPLE BOTTLE NUMBER	NUMBER
Š.	THE PER PER PER PER PER PER PER PER PER PE	PPESSURE	PRI. TEMP	SEC. TEMP	SALINITY		PAR	FLUOR	CHIAM	SALINITY	SAL	NUTRIENT	OH OP/M
-	2.20 .		Ţ						,			158	1
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4	100			er i		-						878	
2	7		<i>5</i> 2									247	
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12												,	

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PG 8 OF 11

VESSE				PRO IECT & 16	g	-			CHATO	TATACIONO MOLENTA	i de	
NOAAS MIL	NOAAS MILLER FREEMAN			2-65-7W	-00-	7	4:ns 8	いってのア			/ - /-/	
CONSC				. ;	. \			TATE				
CAST #	LATITUDE	LONGITUDE	DATE	JD=	GMT)	OH? BUEB	WET BULB		WIND SPD.	TA3W	BOTTOM	STA.
DEG	N M	DEG MIN	DAY	MO YR	HR MIN	(°C)	П) (q	(kts)	١.	(E	
2800	735.93N	155	0 11.02 W12 0 m A 4	n A 9 9 7	1409	6.1	5.83	036	8	598	235	
Port	Port Side CTD	TIMES	JD / TIME				DATA LOCATION	NOIL		REMARKS	A	
TYPE / SN	TYPE / SN SBE 9+ 91660	DATAON			Tape/Diskette ID	ette ID	File	File Name/Header	<u>.</u>			
PRESS SN 29772	29772	START DOWN					5	CTOOOR	<u>!</u>			
TEMP SN	1:889 2:701	AT DEPTH							· 			
COND SN	1:460 2:303	AT SURFACE	,					4	<	MAX. DEPTH =	23	4
	530	PAR	HOUTH IN	Chiam		TAPS6	TAPS4				:	
,	·			,			<u> </u> 		SAMPLE			
			SEA-BII	AD 9/11+ CTD DATA	CTD DA	۲			DATA	SAMP	SAMPLE BOTTLE NUMBER	NUMBER
POS. DEPTH	IP PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	_	PAR	RUOR	ChIAM	SALINITY	SAL.	NUTRIENT	CHOR/
1 237		1			,					94	1018	1
2 200	, a			•	r						098	
3 150											bS8	
4 100							e0				858	
5 7 5											F68	
6 50	- 0		,								958	X
7 40	. 0		7 - 7				27					×
8	30 :		W ₃								855	X
9 20	6	-			;	29	e .			ş	454	X
10	•	ig .			-						853	*
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12												

	STA. NAME/ID	9					E 54		SAMPLE BOTTI E NI IMBER		A GROBA	,					X	×	×	×	×	×	
STATION DESIGNATION	ВОТТОМ DEPTH	(m) 254	S			!	= 2		PLEBOTT		╕	<u>~</u>	870	678	898	298	298		598	178	863	2018	
N DESIGNATION OF STANK	CLOUD (amt) TYPE WEATHER	\$ 6.2	REMARKS				MAX. DEPTH				SAL	7.7											
STATIC	WIND SPD.	(kts)	,			121	. 		SAMPLE BOTTLE DATA		SALINITY												
8	WIND DIFN.	(deg)		eader				:	,		\dashv								8.3				
3	SEA STATE YISIBILIY	3 o 3	NO	File Name/Header	CTD 009	:					CPIAM												
0x 59	WET BUTE	(°C) (mb) 5-8 3 0	DATA LOCATION	File	CT.	33	8	TAPS4			HINGH						I				,		
μ.	DRY .	(\$\circ\circ\circ\circ\circ\circ\circ\cir	DAT	<u>Q</u>				- S			<u> </u>												_
,		. <u>Z</u> .Q		Tape/Diskette			ļ	TAPS6	DATA		¥					,							
EG 6	TIME	H Z		Tape/I				×	CTD		<u></u> ⊦										,		
PROJECT & LEG MF47-0		0 4 P						CHIAM	RD 9/11+ CTD DATA		SALINITY					-							
PRO ×	DATE JD=	DAY MO	JD / TIME					Œ	-BIRD	•	<u></u>	+							-				23
<u> </u>		8	JD'		283			N FLUOR	SEA-BII		SEC. IEME						:						
	LONGITUDE	MIN 4.6		, ,	NWO	I	ACE.			9	HE. LEWIY				0								
	의) 5 S	TIMES	DATA ON	START DOWN	АТ ОЕРТН	AT SURFACE	PAR		i	Ē -												
MAN	Ä	2 0 9				2:701	2:303			1	1				200								
VESSEL NOAAS MILLER FREEMAN	LATITUDE	Ø ₩	Port Side CTD	TYPE / SN SBE 9+ 91660	29772	1:889 2		530			<u> </u>	-	-	•	*			-					
SEL. AS MILLI	S F2	9 2	Port &	E/SN	PRESS SN 29772	TEMP SN 1	COND SN			<u></u>		774	200	150	0.0	7	13	40	32	2	10	0	
VESSEL	CAST #	0		ΥF	PRE	TEM	00				3	-	2	3	4	2	9	7	8	6	10	-	12

N	b	1					282 m			SAMPLE BOTTLE NUMBER	NUTRIENT CHORA		28	879	878	448	76 ×	×	875 ×	ンチ ×	73 ×	X. 21	
STATION DESIGNATION	CLOUD (amt) WEATHER S D D D D E D D E D E D E D E D E D E D	. ~	REMARKS				MAX. DEPTH =			SAMPLEB	SAL. NUT		288	8	V	6	67	-	1	8	8	8	
	WIND SPD.	(kts)			l				SAMPLE BOTTLE	DATA	SALINITY											,	
Tox 60	SEA STATE YTIJIBIEIV	(mb) (deg)	NOI	File Name/Header	CTO 010						ChiAM												
Lim 00	WET WET	(°C) S S	ATA LOC	File h	5			TAPS4			FLUOR							23-	٠	9/0			
9	IE DRY	MIN (°C) 5 2 6.2		Tape/Diskette ID	, .		i	TAPS6		DAIA	PAR							-					
PROJECT & LEG	TIME	497165		Tape/	,		*	CHAM	7. 7.	UI + LIV	SALINITY		1.7										,
PROJE	DATE J	4 W2OMA	JD / TIME		₩ *2 4,	v 1 27 (19) 28		X Ruor		SEA-BIRD 9/11+ CID DAIA	SEC. TEMP	,			,							, , ,	d de la companya de l
	LONGITUDE	DEG MIN	TIMES	DATA ON	START DOWN	АТ DEРТН	AT SURFACE	PAR			PRI. TEMP					·					a:		
FREEMAN	LATITUDE	Z 76	• CTD		772	2:701	2:303	050			PPESSURE				-								
VESSEL. NOAAS MILLER FREEWAN	CONSC CAST # LA	DBG 7 1 H	Port Side CTD	TYPE / SN SBE 9+ 91660	PRESS SN 29772	TEMP SN 1:889	COND SN 124	'n			TRIP DEPTH	282	300	18	1 43	757	20	40	20	20.	10	Ω	
ğ Ş	8 8 *	0		7	PR	Ā	Õ		*		Š.	-	7	က	4	5	9	7	ω	6	9	Ξ	12

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NOAAS MILLER FREEMAN	FREEMAN				До 6				STATIO	STATION DESIGNATION	NOLLAN T'	
consc		ধ					5. 39U	BIAT	(1-0)		1	ž.
	LATITUDE	LONGITUDE	DATE	=QC	TIME (GMT)	PRY BULB	WET WET	VISIBIL VISIBIL SEAS	WIND	11A±W	BOTTOM	STA.
9 2 0	ΝIΝ	DEG MIN	DAY	YR	HR MIN	(၃)	_	; (q	(kts)		╀	
0115143.	3. / n	1551515	W 20	m 4y 97	1824	6.2	5.23	63717	066	7 98	23 -	×
Port Side CTD		TIMES	JD / TIME		••	Ď	DATA LOCATION	NOL	ш	REMARKS		
TYPE / SN SBE 9+ 91660		DATA ON		· ·	Tape/Diskette ID	ette ID	File	File Name/Header	L	TOX	SI Run	2
PRESS SN 29772	772	START DOWN		į			5	CTOOL	<u> </u>			
TEMP SN 1:86	1:889 2:701	AT DEPTH							<u> </u>		-	
COND SN 1.4	2:303	AT SURFACE			ž.		 	:	<u> </u>	MAX. DEPTH	7TH = 22	E
<i>s</i>	550	M PAR	X FLUOR	X CHIAM		TAPS6	TAPS4					
			ָ					٠	SAMPLE			
			SEA-BII	RD 9/11+ CID DAIA	AU OI	4			DATA	SAME	SAMPLE BOTTLE NUMBER	NUMBER
POS. DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY		PAR	FLUOR	ChlAM	SALINITY	SAL	NUTRIENT	CHLOP/M
1 Botton		4					53,			2	168	
2 200:					-						8 90	
3 /50/				7			ì.			Ŷ	889	
4 100 .					,						888	
5 75.		-							-		138	
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7 40 ·					1		:0:					X
8 30 .	100					G					888	X
9 20 .											188	×
10 10				7.6				:			883	×
111 0 .											882	×
12						_						