

VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION FOX61															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 89		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(m/s)	*	*	(m)					
001	57	43.19	N	155	15.69	W	30	M	A	R	97	18	29	3.5	-1.5	033	83	30	14	0-0	155	FOX61	
CTD				TIMES				JD/TIME				DATA LOCATION				REMARKS							
TYPE / SN SBE 9+ 91660				DATA ON				0620				Tape/Diskette ID				File Name/Header							
PRESS SN 29772				START DOWN				0625								CTDA-001							
TEMP SN 1:889 2:701				AT DEPTH																			
COND SN 1:480 2:303				AT SURFACE																			
				<input checked="" type="checkbox"/> PAR 4242				<input checked="" type="checkbox"/> FLUOR 153				<input checked="" type="checkbox"/> CHIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4			
SEA-BIRD 911PLUS CTD DATA																							
TRIP DEPTH		PRESSURE		PRI. TEMP		SEC. TEMP		SALINITY		PAR		FLUOR		CHIAM		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
POS.																							
1	150	150.431	3.7904	3.7917	31.8760									31.8956	17								
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
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VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION 14-1															
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD= 93			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
011	60	31.12	N	178	12.42	W	03	A	P	R	97	20	16	3.0	0.5	005	71	96	15	4	91	164	14-1
CTD B - Starboard				TIMES				JD / TIME				DATA LOCATION						REMARKS					
TYPE / SN SBE 9+ 92067				DATA ON				93 / 2009				Tape/Diskette ID						File Name/Header					
PRESS SN 30066				START DOWN				2010				CTDB_011											
TEMP SN 884				AT DEPTH																			
COND SN 530				AT SURFACE														MAX. DEPTH = 158 m					
				<input checked="" type="checkbox"/> PAR				<input checked="" type="checkbox"/> FLUOR				<input checked="" type="checkbox"/> CHIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4			
SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER									
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	CHIAM	SALINITY	SAL.	NUTRIENT	CHLOR											
29	1	100 /																					
32	2	50 /																					
31	3	40.69 /																					
36	4	25 /																					
22	5	20.35 /																					
33	6	12.25 /																					
28	7	10 /																					
23	8	6.13 /																					
21	9	5 /																					
6	10	0																					
14	11																						
	12																						

Section 1

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VESSEL NOAAS MILLER FREEMAN						PROJECT & LEG MF97-04							STATION DESIGNATION 19-1													
CONSC CAST #	LATITUDE					LONGITUDE			DATE JD= 94			TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN		DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	*	*	(m)			
020	59	56.63	N	179	11.18	W	04	A	P	R	97	06	44	21	0.10	34	8	18	5	20	7	68	1150	19-1		
CTD A - Port Side						TIMES JD / TIME						DATA LOCATION						REMARKS								
TYPE / SN SBE 9+ 91660						DATA ON 0614						Tape/Diskette ID File Name/Header						W10 1032								
PRESS SN 29772						START DOWN 0615																				
TEMP SN 1:889 2:701						AT DEPTH																				
COND SN 1:480 2:303						AT SURFACE												MAX. DEPTH = 977 m								
						<input type="checkbox"/> PAR <input type="checkbox"/> FLUOR <input type="checkbox"/> CHIAM <input type="checkbox"/> TAPS6 <input type="checkbox"/> TAPS4																				
SEA-BIRD 9/11+ CTD DATA																										
POS.	TRIP DEPTH	PRESSURE PRI. TEMP SEC. TEMP SALINITY PAR FLUOR ChIAM															SALINITY	SAMPLE BOTTLE NUMBER								
1	977																	3								
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
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VESSEL				PROJECT & LEG				STATION DESIGNATION																
NOAAS MILLER FREEMAN				MF97-04				20-2																
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD= 94			TIME (GMT)	DRY BULB	WET BULB	PRESSURE 00	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)		
024	59	42.07	N	179	36.74	W	04	A	P	R	9	7	1206	1.8	0.1	02	4	8	150	18	5	8	12992	20-2
CTD A - Port Side				TIMES JD / TIME								DATA LOCATION								REMARKS				
TYPE / SN SBE 9+ 91660				DATA ON 93 / 1125								Tape/Diskette ID								File Name/Header				
PRESS SN 29772				START DOWN 1126																CTDA_024				
TEMP SN 1:889 2:701				AT DEPTH 1205																				
COND SN 1:480 2:303				AT SURFACE																				
				<input type="checkbox"/> PAR <input type="checkbox"/> FLUOR <input type="checkbox"/> CHIAM <input type="checkbox"/> TAPS6 <input type="checkbox"/> TAPS4																MAX. DEPTH = 1503 m				
SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP		SEC. TEMP		SALINITY		PAR		FLUOR		CHIAM		SALINITY		SAL.	NUTRIENT	CHLOR				
1	1500 ✓																	24						
2	1000 ✓																							
3	600 ✓																							
4	300 ✓																							
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

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VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION 23-1															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 95		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(kts)	*	*	(m)					
02958	59.70	N	17809.20	W	05	A	P	97	0529	2.1	1.3	0048	0900	0606	06	1		155	23-1				
CTD B - Starboard				TIMES				JD / TIME				DATA LOCATION				REMARKS							
TYPE / SN SBE 9+ 92067				DATA ON				052140				Tape/Diskette ID				File Name/Header							
PRESS SN 30066				START DOWN								CTDB_029											
TEMP SN 884				AT DEPTH																			
COND SN 530				AT SURFACE												MAX. DEPTH = 100 m							
				<input checked="" type="checkbox"/> PAR				<input checked="" type="checkbox"/> FLUOR				<input checked="" type="checkbox"/> CHIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4			
SEA-BIRD 9/11+ CTD DATA																							
SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER																					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	CHIAM	SALINITY	SAL.	NUTRIENT	CHLOR											
1	100									25													
2	50																						
3	25																						
4	10																						
5	5																						
6	0																						
7																							
8																							
9																							
10																							
11																							
12																							

Section
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VESSEL				PROJECT & LEG						STATION DESIGNATION																					
NOAAS MILLER FREEMAN										24-1																					
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD=05			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID								
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)									
03	58	58.64	N	178	10.46	W	05	A	P	R	9	7	06	27	2.0	-0.2	0038	185	06	67	1	216	24-1								
CTD A - Port Side				TIMES JD / TIME								DATA LOCATION								REMARKS											
TYPE / SN SBE 9+ 91660				DATA ON _____								Tape/Diskette ID _____								File Name/Header W/O 213											
PRESS SN 29772				START DOWN _____								_____								CTDA_ 031											
TEMP SN 1:889 2:701				AT DEPTH _____								_____								order tmp.											
COND SN 1:480 2:303				AT SURFACE _____								_____								MAX. DEPTH = 210 m											
				<input type="checkbox"/> PAR <input type="checkbox"/> FLUOR <input type="checkbox"/> CHIAM <input type="checkbox"/> TAPS6 <input type="checkbox"/> TAPS4																											
				SEA-BIRD 9/11+ CTD DATA														SAMPLE BOTTLE DATA		15 SAMPLE BOTTLE NUMBER											
POS.	TRIP DEPTH			PRESSURE			PRI. TEMP			SEC. TEMP			SALINITY			PAR			FLUOR			CHIAM			SALINITY			SAL.	NUTRIENT		CHLOR
1	210																											15			
2	150																														
3																															
4																															
5																															
6																															
7																															
8																															
9																															
10																															
11																															
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VESSEL						PROJECT & LEG							STATION DESIGNATION											
NOAAS MILLER FREEMAN						MF97-04							29-2											
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD= 95			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	.	.	(deg)	(kts)	*	*	*	(m)		
043	58	30.83	N	178	29.78	W	05	A	P	R	9	7	18	39	1.8	0.29	9	26	02	1	1	82	73404	29-2
CTD A - Port Side						TIMES						DATA LOCATION						REMARKS						
TYPE / SN SBE 9+ 91660						DATA ON						Tape/Diskette ID						File Name/Header						
PRESS SN 29772						START DOWN												CTDA_043						
TEMP SN 1:889 2:701						AT DEPTH																		
COND SN 1:480 2:303						AT SURFACE												MAX. DEPTH = 1503 m						
						<input type="checkbox"/> PAR						<input type="checkbox"/> FLUOR						<input type="checkbox"/> CHIAM						
												<input type="checkbox"/> TAPS6						<input type="checkbox"/> TAPS4						
SEA-BIRD 9/11+ CTD DATA																								
POS.	TRIP DEPTH	PRESSURE PRI. TEMP SEC. TEMP SALINITY PAR FLUOR CHIAM SALINITY																			SAMPLE BOTTLE DATA	SAMPLE BOTTLE NUMBER		
1	1500																					SAL.	NUTRIENT	CHLOR
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
11																								
12																								

VESSEL NOAAS MILLER FREEMAN						PROJECT & LEG MF97-04							STATION DESIGNATION <u>30-2</u>																									
CONSCAST #	LATITUDE			LONGITUDE			DATE JD= <u>95</u>			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE WEATHER	BOTTOM DEPTH	STA. NAME/ID																	
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	* * *	(m)																		
04558	09	.02	N	178	45.1	3	W	05	A P R	97	23	07	-2.1	1.3	99	3	7	030	12	8/23629	30-2																	
CTD B - Starboard				TIMES							J D / TIME							DATA LOCATION							REMARKS													
TYPE / SN SBE 9+ 92067				DATA ON														Tape/Diskette ID							File Name/Header							w/o 316						
PRESS SN 30066				START DOWN																					CTDB_045													
TEMP SN 884				AT DEPTH																																		
COND SN 530				AT SURFACE																												MAX. DEPTH = 300 m						
				<input type="checkbox"/> PAR							<input type="checkbox"/> FLUOR							<input type="checkbox"/> CHIAM							<input type="checkbox"/> TAPS6							<input type="checkbox"/> TAPSA						
SEA-BIRD 9/11+ CTD DATA																						SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER														
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP		SEC. TEMP		SALINITY		PAR		FLUOR		CHIAM		SALINITY		SAL.	NUTRIENT	CHLOR																		
1	300																	30																				
2																																						
3																																						
4																																						
5																																						
6																																						
7																																						
8																																						
9																																						
10																																						
11																																						
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VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION 33-1															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 96		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)				
0505735.16	N	17406.13	W	06	A	P	R	9	7	22	54	5.0	2.5	02	38	090	05	68	1160	33-1			
CTD B - Starboard				TIMES				JD / TIME				DATA LOCATION				REMARKS							
TYPE / SN SBE 9+ 92067				DATA ON				Tape/Diskette ID				File Name/Header				W/0 153							
PRESS SN 30066				START DOWN								CTDB_050				extra water bottle collections							
TEMP SN 884				AT DEPTH												for egg incubation							
COND SN 530				AT SURFACE												MAX. DEPTH = 154 m							
				<input checked="" type="checkbox"/> PAR				<input checked="" type="checkbox"/> FLUOR				<input checked="" type="checkbox"/> CHIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4			
SEA-BIRD 9/11+ CTD DATA																							
SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER																					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	CHIAM	SALINITY	SAL.	NUTRIENT	CHLOR											
1	154																						
2	100																						
3	50																						
4	25																						
5	10																						
6	5																						
7	0																						
8	X	addie H ₂ O																					
9	X	"																					
10	X	"																					
11																							
12																							

Section 3

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VESSEL				PROJECT & LEG						STATION DESIGNATION																		
NOAAS MILLER FREEMAN				MF97-04						35-1																		
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD= 97			TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID						
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	.	(deg)	(kts)	*	*	*	(m)							
054	57	33.73	N	174	09.06	W	07	A	P	R	97	02	14	2.0	0.0	01	38	130	07	78	111	10	35-1					
CTD A - Port Side				TIMES				JD / TIME				DATA LOCATION				REMARKS												
TYPE / SN SBE 9+ 91660				DATA ON								Tape/Diskette ID				File Name/Header				w/o 1106								
PRESS SN 29772				START DOWN												CTDA_054				hit bottom								
TEMP SN 1:889 2:701				AT DEPTH																Ek500 read 1160!								
COND SN 1:480 2:303				AT SURFACE																MAX. DEPTH = 1150 m								
				<input type="checkbox"/> PAR				<input type="checkbox"/> FLUOR				<input type="checkbox"/> CHIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4								
				SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		35 SAMPLE BOTTLE NUMBER										
POS.	TRIP DEPTH			PRESSURE			PRI. TEMP			SEC. TEMP			SALINITY			PAR			FLUOR			ChIAM			SALINITY	SAL.	NUTRIENT	CHLOR
1	1000 ✓																											
2	600 ✓																											
3	100 ✓																											
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
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VESSEL						PROJECT & LEG							STATION DESIGNATION												
NOAAS MILLER FREEMAN						MF97-04							36-2												
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD= 97			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)			
0575733.03	N	174	11.49	W	07	A	P	R	9	7	0531	2.0	0.1	0028	160	14	887	914	36-2						
CTD B - Starboard						TIMES						DATA LOCATION						REMARKS							
TYPE / SN SBE 9+ 92067						DATA ON						Tape/Diskette ID						File Name/Header							
PRESS SN 30066						START DOWN												CTDB_057							
TEMP SN 884						AT DEPTH																			
COND SN 530						AT SURFACE																			
						<input checked="" type="checkbox"/> PAR						<input checked="" type="checkbox"/> FLUOR						<input checked="" type="checkbox"/> ChIAM							
												<input type="checkbox"/> TAPS6						<input type="checkbox"/> TAPS4							
SEA-BIRD 9/11+ CTD DATA																									
POS.	TRIP DEPTH	PRESSURE PRI. TEMP SEC. TEMP SALINITY PAR FLUOR ChIAM SALINITY																		SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER		
1	300 ✓																								
2	100 ✓																								
3	50 ✓																								
4	25 ✓																								
5	10 ✓																								
6	5 ✓																								
7	0 ✓																								
8																									
9																									
10																									
11																									
12																									

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VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION 42-1																
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 98		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(kts)	*	*	(m)						
068	56	37.09	N	17	25	5.11	W	08	A	P	R	97	13	49	0.0	0.0	0.8	28	015	13	87	2	169	42-1
CTD B - Starboard				TIMES				JD / TIME				DATA LOCATION				REMARKS								
TYPE / SN SBE 9+ 92067				DATA ON				98 / 1340				Tape/Diskette ID				File Name/Header								
PRESS SN 30066				START DOWN				1341				CTDB_ 068				w/o = 180								
TEMP SN 884				AT DEPTH				1347																
COND SN 530				AT SURFACE												MAX. DEPTH = 160 m								
				<input checked="" type="checkbox"/> PAR				<input checked="" type="checkbox"/> FLUOR				<input checked="" type="checkbox"/> CHIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4				
SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER										
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	CHIAM	SALINITY	SAL.	NUTRIENT	CHLOR												
1	150 ✓																							
2	100 ✓																							
3	50 ✓																							
4	25 ✓									18														
5	25 ✓																							
6	10 ✓																							
7	5 ✓																							
8	0 ✓																							
9																								
10																								
11																								
12																								

Section
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VESSEL						PROJECT & LEG							STATION DESIGNATION										
NOAAS MILLER FREEMAN													45-1										
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD= 98			TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	* *	* *	(m)		
074	56	30.85	N	173	05.43	W	08	A P R	97	19	31	11.0	0.8	1048	8	35	8	15	8	72	2462	45-1	
CTD B - Starboard						TIMES	JD / TIME					DATA LOCATION						REMARKS					
TYPE / SN SBE 9+ 92067						DATA ON	98/1920					Tape/Diskette ID File Name/Header						w/o = 328					
PRESS SN 30066						START DOWN	1920																
TEMP SN 884						AT DEPTH	1931																
COND SN 530						AT SURFACE												MAX. DEPTH = 302 m					
						<input checked="" type="checkbox"/> PAR	<input checked="" type="checkbox"/> FLUOR	<input checked="" type="checkbox"/> ChIAM	<input type="checkbox"/> TAPS6	<input type="checkbox"/> TAPS4													
SEA-BIRD 9/11+ CTD DATA																							
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP		SEC. TEMP		SALINITY		PAR		FLUOR		ChIAM		SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
		SAL.	NUTRIENT	CHLOR																			
1	100 ✓	03																					
2	50 ✓																						
3	25 ✓																						
4	25 ✓																						
5	12 ✓																						
6	10 ✓																						
7	7.5 ✓																						
8	5 ✓																						
9	4 ✓																						
10	0 ✓																						
11																							
12																							

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VESSEL						PROJECT & LEG							STATION DESIGNATION													
NOAAS MILLER FREEMAN						MF97-04							49-1													
CONSC CAST #	LATITUDE					LONGITUDE			DATE JD= 99			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN		DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*		*	*	(m)		
082	55	33.5	N	174	37.1	S	09	A	P	R	9	7	10	14	0.1	-0.3	1257	5	7	000	28	8	6	7	3641	49-1
CTD B - Starboard						TIMES JD / TIME						DATA LOCATION						REMARKS								
TYPE / SN SBE 9+ 92067						DATA ON 99 / 1002						Tape/Diskette ID						File Name/Header w/o = 317								
PRESS SN 30066						START DOWN 1002												CTDB_082								
TEMP SN 884						AT DEPTH 1012																				
COND SN 530						AT SURFACE												MAX. DEPTH = 301 m								
						<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> ChIAM <input type="checkbox"/> TAPS6 <input type="checkbox"/> TAPS4																				
						SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
POS.	TRIP DEPTH					PRESSURE	PRI. TEMP		SEC. TEMP		SALINITY		PAR		FLUOR		ChIAM		SALINITY		SAL.	NUTRIENT		CHLOR		
1	300																				16					
2																										
3																										
4																										
5																										
6																										
7																										
8																										
9																										
10																										
11																										
12																										

[illegible]

VESSEL						PROJECT & LEG								STATION DESIGNATION									
NOAAS MILLER FREEMAN						MF97-04								50-1									
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD= 99			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)	
084	55	06.59	N	175	18.84	W	09	A	P	R	97	1521	2.0	0.3	11	57	010	24	8	77	37	08	50-1
CTD B - Starboard						TIMES JD / TIME						DATA LOCATION						REMARKS					
TYPE / SN SBE 9+ 92067						DATA ON 99/ 1510						Tape/Diskette ID						File Name/Header w/o = 3/3					
PRESS SN 30066						START DOWN 1511												CTDB_ 084					
TEMP SN 884						AT DEPTH 1521																	
COND SN 530						AT SURFACE												MAX. DEPTH = 301 m					
						<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> CHIAM <input type="checkbox"/> TAPS6 <input type="checkbox"/> TAPS4																	
						SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER			
POS.	TRIP DEPTH		PRESSURE		PRI. TEMP		SEC. TEMP		SALINITY		PAR		FLUOR		ChIAM		SALINITY		SAL.	NUTRIENT	CHLOR		
1	75 ✓		1528																20				
2																							
3																							
4																							
5																							
6																							
7																							
8																							
9																							
10																							
11																							
12																							

VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION 50-2											
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 99		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)
085	55	06.92	N	175	18.48	W	09	A	P	97	16	13	1.5	0.3	11	57	35	9	24
CTD A - Port Side				TIMES				JD / TIME				DATA LOCATION				REMARKS			
TYPE / SN SBE 9+ 91660				DATA ON				99 / 1536				Tape/Diskette ID				File Name/Header			
PRESS SN 29772				START DOWN				1536								CTDA_ 085			
TEMP SN 1:889 2:701				AT DEPTH				1613											
COND SN 1:480 2:303				AT SURFACE															
				<input type="checkbox"/> PAR				<input type="checkbox"/> FLUOR				<input type="checkbox"/> ChIAM				<input type="checkbox"/> TAPS6			
				<input type="checkbox"/> TAPS4															
SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	ChIAM	SALINITY	SAL.	NUTRIENT	CHLOR							
1	1095	16.25								08									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

MAX. DEPTH = 1501 m

VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION 51-1															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 100		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)				
08654	17.98	N	17223.26	W	10	A	P	R	97	0150	3.0	3.0	06	47	055	10	8763504	51-1					
CTD B - Starboard				TIMES				JD / TIME				DATA LOCATION				REMARKS							
TYPE / SN SBE 9+ 92067				DATA ON				Tape/Diskette ID				File Name/Header				W/O 314							
PRESS SN 30066				START DOWN								CTDB_086											
TEMP SN 884				AT DEPTH																			
COND SN 530				AT SURFACE												MAX. DEPTH = 300 m							
				<input checked="" type="checkbox"/> PAR				<input checked="" type="checkbox"/> FLUOR				<input checked="" type="checkbox"/> CHIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4			
SEA-BIRD 9/11+ CTD DATA																							
SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER																					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	CHIAM	SALINITY	SAL.	NUTRIENT	CHLOR											
1	300																						
2	100																						
3	50																						
4	25																						
5	10																						
6	5																						
7	0																						
8																							
9																							
10																							
11																							
12																							

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VESSEL NOAAS MILLER FREEMAN						PROJECT & LEG MF97-04							STATION DESIGNATION <i>54-1</i>																						
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD= <i>100</i>			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYP*	WEATHER	BOTTOM DEPTH	STA. NAME/ID												
#	DEG	'	"	DEG	'	"	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	* * *	*	*	(m)													
<i>09255</i>	<i>38.75</i>	N		<i>171</i>	<i>20.78</i>	W	<i>10</i>	A	R	<i>97</i>	<i>1525</i>	<i>4.6</i>	<i>3.8</i>	<i>1113</i>	<i>70</i>	<i>90</i>	<i>12</i>	<i>10</i>	<i>1</i>	<i>30</i>	<i>54</i>	<i>54-1</i>													
CTD B - Starboard						TIMES						J.D / TIME						DATA LOCATION						REMARKS											
TYPE / SN SBE 9+ 92067						DATA ON						<i>100 / 1514</i>						Tape/Diskette ID						File Name/Header						<i>w/o = 316 m</i>					
PRESS SN 30066						START DOWN						<i>1515</i>												<i>CTDB_φ92</i>											
TEMP SN 884						AT DEPTH						<i>1525</i>																							
COND SN 530						AT SURFACE																								MAX. DEPTH = <i>301</i> m					
						<input checked="" type="checkbox"/> PAR						<input checked="" type="checkbox"/> FLUOR						<input checked="" type="checkbox"/> CHAM						<input type="checkbox"/> TAPS6						<input type="checkbox"/> TAPS4					
SEA-BIRD 9/11+ CTD DATA																								SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER									
POS.	TRIP DEPTH	PRESSURE PRI.TEMP SEC.TEMP SALINITY PAR FLUOR ChAM										SALINITY		SAL.	NUTRIENT	CHLOR																			
<i>1</i>	<i>300 ✓</i>													<i>22</i>																					
<i>2</i>	<i>100 ✓</i>																																		
<i>3</i>	<i>50 ✓</i>																																		
<i>4</i>	<i>25 ✓</i>																																		
<i>5</i>	<i>10 ✓</i>																																		
<i>6</i>	<i>5 ✓</i>																																		
<i>7</i>	<i>0 ✓</i>																																		
<i>8</i>																																			
<i>9</i>																																			
<i>10</i>																																			
<i>11</i>																																			
<i>12</i>																																			

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VESSEL						PROJECT & LEG							STATION DESIGNATION											
NOAAS MILLER FREEMAN						MF97-04							57-1											
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD=			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)		
098	56	09	N	170	57	W	11	A	P	R	97	00	32	4.0	3.1	11	4	70	48	13	8	72	893	57-1
CTD B - Starboard						TIMES JD / TIME						DATA LOCATION						REMARKS						
TYPE / SN SBE 9+ 92067						DATA ON 1830						Tape/Diskette ID						File Name/Header CTDB_098						
PRESS SN 30066						START DOWN																		
TEMP SN 884						AT DEPTH																		
COND SN 530						AT SURFACE												MAX. DEPTH = 300 m						
						<input checked="" type="checkbox"/> PAR <input checked="" type="checkbox"/> FLUOR <input checked="" type="checkbox"/> ChIAM <input type="checkbox"/> TAPS6 <input type="checkbox"/> TAPS4																		
						SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		32 SAMPLE BOTTLE NUMBER				
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP		SEC. TEMP		SALINITY		PAR		FLUOR		ChIAM		SALINITY		SAL.	NUTRIENT	CHLOR				
1	300 ✓																							
2	100 ✓																	32						
3	50 ✓																							
4	25 ✓																							
5	10 ✓																							
6	5 ✓																							
7	0 ✓																							
8																								
9																								
10																								
11																								
12																								

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VESSEL			PROJECT & LEG			STATION DESIGNATION														
NOAAS MILLER FREEMAN			MF97-04			58-1														
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 101		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)	
10056	09.9	7N	17056.2	0W	11	A	P	R	97	0231	4.0	2.9	094	70	40	178	72	487	58-1	
CTD B - Starboard			TIMES			JD / TIME			DATA LOCATION			REMARKS								
TYPE / SN SBE 9+ 92067			DATA ON			Tape/Diskette ID			File Name/Header			w/o 334								
PRESS SN 30066			START DOWN						CTDB_100											
TEMP SN 884			AT DEPTH			0231														
COND SN 530			AT SURFACE									MAX. DEPTH = 301 m								
			<input checked="" type="checkbox"/> PAR			<input checked="" type="checkbox"/> FLUOR			<input checked="" type="checkbox"/> CHAM			<input type="checkbox"/> TAPS6			<input type="checkbox"/> TAPS4					
			SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		33			
POS.	TRIP DEPTH													SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER				
		PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY		PAR	FLUOR	CHAM	SALINITY		SAL.	NUTRIENT	CHLOR						
1	300											33								
2	100																			
3	50																			
4	25																			
5	10																			
6	5																			
7	0																			
8																				
9																				
10																				
11																				
12																				

VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION 59-2																	
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD= 101			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)			
103	56	12.32	N	17	05	5.17	W	11	A	P	R	9	7	04	19	2.8	2.1	1038	030	088	72	149	59-2		
CTD A - Port Side				TIMES				JD / TIME				DATA LOCATION								REMARKS					
TYPE / SN SBE 9+ 91660				DATA ON								Tape/Diskette ID				File Name/Header				W10 145					
PRESS SN 29772				START DOWN												CTDA_103									
TEMP SN 1:889 2:701				AT DEPTH																					
COND SN 1:480 2:303				AT SURFACE																MAX. DEPTH = 143 m					
				<input type="checkbox"/> PAR				<input type="checkbox"/> FLUOR				<input type="checkbox"/> CHIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4					
SEA-BIRD 9/11+ CTD DATA																									
POS.	TRIP DEPTH	PRESSURE PRI. TEMP SEC. TEMP SALINITY PAR FLUOR CHIAM SALINITY																		SAMPLE BOTTLE DATA			SAMPLE BOTTLE NUMBER		
1	25																			20			20		
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION 60-1																	
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 101			TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)						
104	55	29.17	N	168	01.43	W	11	A	P	R	9	7	18	35	4.1	3.1	1	1	70	40	02	4	74	150	60-1
CTD B - Starboard				TIMES				JD / TIME				DATA LOCATION				REMARKS									
TYPE / SN SBE 9+ 92067				DATA ON				101 / 1829				Tape/Diskette ID				File Name/Header									
PRESS SN 30066				START DOWN				1830								CTDB_104									
TEMP SN 884				AT DEPTH				1835																	
COND SN 530				AT SURFACE																					
				<input checked="" type="checkbox"/> PAR				<input checked="" type="checkbox"/> FLUOR				<input checked="" type="checkbox"/> ChIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4					
												SAMPLE BOTTLE DATA				SAMPLE BOTTLE NUMBER									
SEA-BIRD 9/11+ CTD DATA																									
POS.	TRIP DEPTH	PRESSURE		PRI. TEMP		SEC. TEMP		SALINITY		PAR		FLUOR		ChIAM		SALINITY		SAL.		NUTRIENT		CHLOR			
1	150 ✓																	33							
2	100 ✓																								
3	50 ✓																								
4	25 ✓																								
5	10 ✓																								
6	5 ✓																								
7	0 ✓																								
8																									
9																									
10																									
11																									
12																									

Section
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VESSEL NOAAS MILLER FREEMAN						PROJECT & LEG MF97-04							STATION DESIGNATION 61-1																						
CONSC CAST #	LATITUDE					LONGITUDE					DATE JD= 101			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt) TYPE	WEATHER	⁵⁰² BOTTOM DEPTH	STA. NAME/ID									
	DEG	MIN		DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*			(m)												
	106	55	N	168	11.8	11	A	P	R	9	7	20	12	3.6	2.5	11	17	0	6	0	0	4	77	4	0502	61-1									
CTD B - Starboard						TIMES						DATA LOCATION						REMARKS																	
TYPE / SN SBE 9+ 92067						DATA ON _____						Tape/Diskette ID _____						File Name/Header _____																	
PRESS SN 30066						START DOWN _____												CTDB_106																	
TEMP SN 884						AT DEPTH _____																													
COND SN 530						AT SURFACE _____																													
						<input checked="" type="checkbox"/> PAR						<input checked="" type="checkbox"/> FLUOR						<input checked="" type="checkbox"/> CHIAM						<input type="checkbox"/> TAPS6						<input type="checkbox"/> TAPS4					
SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER																					
POS.	TRIP DEPTH		PRESSURE		PRI. TEMP		SEC. TEMP		SALINITY		PAR		FLUOR		ChIAM		SALINITY	SAL.	NUTRIENT	CHLOR															
1	300 ✓																	5																	
2	100 ✓																																		
3	50 ✓																																		
4	25 ✓																																		
5	10 ✓																																		
6	5 ✓																																		
7	0 ✓																																		
8																																			
9																																			
10																																			
11																																			
12																																			

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VESSEL				PROJECT & LEG				STATION DESIGNATION																
NOAAS MILLER FREEMAN				MF97-04				62-1																
CONSC CAST #	LATITUDE			LONGITUDE			DATE JD= 101			TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID		
	DEG	MIN		DEG	MIN		DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*	(m)		
108	55	21.57	N	168	13.63	W	11	A	P	R	97	21	32	3.1	2.4	1	1	27	08	10	87	41	043	62-1
CTD B - Starboard				TIMES				JD / TIME				DATA LOCATION				REMARKS								
TYPE / SN SBE 9+ 92067				DATA ON				Tape/Diskette ID				File Name/Header				w/o 317								
PRESS SN 30066				START DOWN								CTDB_108												
TEMP SN 884				AT DEPTH																				
COND SN 530				AT SURFACE												MAX. DEPTH = 361 m								
				<input checked="" type="checkbox"/> PAR				<input checked="" type="checkbox"/> FLUOR				<input checked="" type="checkbox"/> ChIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4				
				SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER						
POS.	TRIP DEPTH			PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY			PAR	FLUOR	ChIAM	SALINITY	SAL.	NUTRIENT	CHLOR								
1	300 ✓																							
2	100 ✓																							
3	50 ✓																							
4	25 ✓																							
5	10 ✓																							
6	5 ✓																							
7	0																							
8																								
9																								
10																								
11																								
12																								

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VESSEL						PROJECT & LEG							STATION DESIGNATION												
NOAAS MILLER FREEMAN						MF97-04							67-2												
CONSC CAST #	LATITUDE					LONGITUDE			DATE JD= 102			TIME (GMT)		DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN		DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	*		*		(m)	
1119	54	20.9	N	169	50.0	W	12	A P R	97	15	16	3.2	2.7	1238	0850	8	772	1895	67-2						
CTD A - Port Side						TIMES JD / TIME						DATA LOCATION						REMARKS							
TYPE / SN SBE 9+ 91660						DATA ON 102/1439						Tape/Diskette ID File Name/Header						w/o = 1564							
PRESS SN 29772						START DOWN 1439																			
TEMP SN 1:889 2:701						AT DEPTH 1516																			
COND SN 1:480 2:303						AT SURFACE												MAX. DEPTH = 1503 m							
						<input type="checkbox"/> PAR <input type="checkbox"/> FLUOR <input type="checkbox"/> ChIAM <input type="checkbox"/> TAPS6 <input type="checkbox"/> TAPS4																			
						SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
POS.	TRIP DEPTH					PRESSURE	PRI. TEMP		SEC. TEMP		SALINITY		PAR		FLUOR		ChIAM		SALINITY	SAL.	NUTRIENT	CHLOR			
1	1500✓																								
2	1000✓																								
3	600✓																								
4																									
5																									
6																									
7																									
8																									
9																									
10																									
11																									
12																									

VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION 68-1											
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 102		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)
12054	01.67	N	16931.5	W	12	A	P	R	97	1827	3.5	3.0	12	38	085	108	72	1830	68-1
CTD A - Port Side				TIMES				JD / TIME				DATA LOCATION				REMARKS			
TYPE / SN SBE 9+ 91660				DATA ON				102/1748				Tape/Diskette ID				File Name/Header			
PRESS SN 29772				START DOWN				1749								CTDA_120			
TEMP SN 1:889 2:701				AT DEPTH				1827											
COND SN 1:480 2:303				AT SURFACE															
				<input type="checkbox"/> PAR <input type="checkbox"/> FLUOR <input type="checkbox"/> CHIAM <input type="checkbox"/> TAPS6 <input type="checkbox"/> TAPS4												MAX. DEPTH = m			
SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	CHIAM	SALINITY	SAL.	NUTRIENT	CHLOR							
1	1499									32									
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

Section
7

[illegible]

VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION 70-1															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 102			TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	*	(deg)	(kts)	*	*	(m)				
1225335.76	N		16959.44	W	12	A	P	R	97	23	36	3.8	3.2	1	3	8	0	4	0	13	7711750	70-1	
CTD A - Port Side				TIMES				JD / TIME				DATA LOCATION				REMARKS							
TYPE / SN SBE 9+ 91660				DATA ON				Tape/Diskette ID				File Name/Header				W101535							
PRESS SN 29772				START DOWN								CTDA_122				5.02 bottles of							
TEMP SN 1:889 2:701				AT DEPTH												surface H ₂ O for Debbie							
COND SN 1:480 2:303				AT SURFACE												MAX. DEPTH = 1501 m							
				<input type="checkbox"/> PAR				<input type="checkbox"/> FLUOR				<input type="checkbox"/> CHIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4			
SEA-BIRD 9/11+ CTD DATA												SAMPLE BOTTLE DATA		30 SAMPLE BOTTLE NUMBER									
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	CHIAM	SALINITY	SAL.	NUTRIENT	CHLOR											
1	1500									30													
2	5 ^(*)																						
3	5																						
4	5																						
5	5																						
6	5																						
7																							
8																							
9																							
10																							
11																							
12																							

(*) see remarks, not logged

VESSEL NOAAS MILLER FREEMAN				PROJECT & LEG MF97-04				STATION DESIGNATION 71-1															
CONSC CAST #	LATITUDE		LONGITUDE		DATE JD= 103		TIME (GMT)	DRY BULB	WET BULB	PRESSURE	SEA STATE	VISIBILITY	WIND DIRN.	WIND SPD.	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	(°C)	(°C)	(mb)	*	(deg)	(kts)	*	*	(m)					
12353	25.8	N	68.4	6.6	9	W	13	A	P	R	9	7	0	1	48	4.8	4.2	1038	030	12	772	1119	71-1
CTD A - Port Side				TIMES				JD / TIME				DATA LOCATION				REMARKS							
TYPE / SN SBE 9+ 91660				DATA ON				Tape/Diskette ID				File Name/Header				w/o 9110							
PRESS SN 29772				START DOWN								CTDA_123				5 ol bottles for							
TEMP SN 1:889 2:701				AT DEPTH												for Reggs at 60m 32.5							
COND SN 1:480 2:303				AT SURFACE												MAX. DEPTH = 1087 m							
				<input type="checkbox"/> PAR				<input type="checkbox"/> FLUOR				<input type="checkbox"/> CHIAM				<input type="checkbox"/> TAPS6				<input type="checkbox"/> TAPS4			
SEA-BIRD 9/11+ CTD DATA																SAMPLE BOTTLE DATA		SAMPLE BOTTLE NUMBER					
POS.	TRIP DEPTH	PRESSURE	PRI. TEMP	SEC. TEMP	SALINITY	PAR	FLUOR	CHIAM	SALINITY	SAL.	NUTRIENT	CHLOR											
1	1087									25													
2	60																						
3	60																						
4	60																						
5	60																						
6	60																						
7																							
8																							
9																							
10																							
11																							
12																							

X not logged

[illegible]

