

VESSEL NOAAS Miller Freeman				PROJECT & LEG: MF-95-07				INITIALS: <u>KC</u> CHECKED BY: _____				PAGE <u>2</u> of _____							
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 124		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											
0025420.21N	165125.38W	04MAY	950444	1412	410	1428	030	060	11	140	2								
CID 911 plus		FILENAME: <u>5cslog:Cast002-04may0438</u>																	
TYPE & SN 93A50-209		REMARKS (include alternate station designation if applicable):																	
PRESS. SN 53586		MAX Depth <u>146 m</u>																	
TEMP. SN 1455		Chlam #109 Fluoro #153																	
COND. SN 7AP		OTHER: <u>TARS</u>																	
ATTACHMENTS:		LIGHT-METER (✓)																	
FLUOROMETER (N) ✓																			
OTHER: <u>CHAM</u>																			
OTHER: <u>TARS</u>																			
Position	Bot. #	Trip	Depth	TIME@	Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Position			
					107 Press.	104 Temp.	106 Salinity	Fluor. Cond.	108 Fluor.	ThermP	Avg. Tw	Sal.							
1			30		146.1362	3.3315	32.4778	.8770	.3885				1408		/	1			
2	X		25		15.1938	3.3882	32.4474	1.2435	.4124				1407		/	2			
3			40		40.2227	3.4906	32.3882	2.0270	.5352				1406		X/X	3			
4			30		30.1819	3.4923	32.3857	1.7623	.5391				1405		X/X	4			
5			20		19.8160	3.5004	32.3387	2.3154	.5317				1404		X/X	5			
6			10		9.9520	3.5002	32.3378	2.2132	.5729				1403		X/X	6			
7			10		9.8859	3.5018	32.3306	2.1595	.5787						/	7			
8			0		1.0734	3.5147	32.3211	1.5792	.5628				1402		X/X	8			
9			0		1.0862	3.5145	32.3216	1.6302	.5720						/	9			
10															/	10			
11															/	11			
12															/	12			

VESSEL NOAAS Miller Freeman										PROJECT & LEG: MF-95-07										INITIALS: <u>KC</u> CHECKED BY: _____										PAGE 3 of _____									
CONSECUTIVE	CAST NUMBER	LATITUDE			LONGITUDE			DATE JD= 124			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	SEA STATE (mb, integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID																
		DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC																										
003	54	22	34	N	16	51	W	04	M	4	Y	9	5	0	6	23	4	1	0	3	9	1	5	2	8	0	1	0	4	5	6	1	1	6	8	3			
CTD 911 plus		ATTACHMENTS:										FILENAME: <u>SCSlog: Cwt023-04may</u>																											
TYPE & SN 93450-209		LIGHT METER (V) _____										REMARKS (include alternate station designation if applicable):																											
PRESS. SN 53585		FLUOROMETER (N) <u>✓</u>										<u>max depth: 164 m</u>																											
TEMP. SN 1455		OTHER: <u>CLAM</u>																																					
COND. SN 710		OTHER: <u>TAPS</u>																																					
Position	#	Bot. Trip	Depth	T-track	TIME @	Monitor Values 112				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position																					
						107 Press.	104 Temp.	106 Salinity	Fluo. Cond.	Fluor.	ThermP	Avg. Tw	Sal.																										
1			30m			164.497	3.1423	32.5277	.1316	.2740				28	1485	/		1																					
2			75			75.3726	2.9616	32.4204	.1228	.2732					1484	/		2																					
3			40			40.3182	2.9092	32.3143	.2207	.2924					1483	X/X		3																					
4			30			30.2861	2.9750	32.2765	.3477	.3018					1482	X/X		4																					
5			20			20.2780	2.9952	32.2708	.2663	.3018					1481	X/X		5																					
6			10			10.1858	3.1680	32.2386	.4180	.3074					1480	X/X		6																					
7			10			10.2036	3.1707	32.2391	.3527	.3084					1480	/		7																					
8			0			1.3738	3.3137	32.2260	.3550	.3081					1479	X/X		8																					
9			0			1.4164	3.3183	32.2259	.3380	.2995					1479	/		9																					
10																/		10																					
11																/		11																					
12																/		12																					

VESSEL NOAAS Miller Freeman PROJECT & LEG: MF-95-07										INITIALS: DCK CHECKED BY: _____										PAGE 4 of 4		
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD=124			TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN											
004	24	08	N	165	08	W	14	04	19	08	12	03	03	01	53	8	45	2	1	1	4	1
CTD 911 plus TYPE & SN 93150-209 PRESS. SN 53586 TEMP. SN 1455 COND. SN 7AP ATTACHMENTS: LIGHT METER (✓) FLUOROMETER (✓) OTHER: CHLAME OTHER: TAPS FILENAME: CAST 004 - 04 May 0811 REMARKS (include alternate station designation if applicable): may. depth 134 first cast to ~30m failed, CTD program let reporting data updates CNAK # 109 FLOW # 153																						

Position	Bot. #	Depth	T-track	Monitor Values / 08				Sample Bottle Data		Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position	
				TIME @	Depth	Trip	Temp.	Press.	Salinity						CLLom Gene.
1		Bottom					2,969	133.05	32.367	0.292	0.247		4	1492	1
2		75					2,925	75.9	32.094	0.414	1.348			1491	2
3		40					2,924	41.3	32.071	0.441	1.536			1490	3
4		30					2,928	31.2	32.091	0.452	1.326			1489	4
5		20					2,938	21.1	32.067	0.459	1.298			1488	5
6		10					2,941	10.9	32.066	0.474	1.350			1487	6
7		10					2,944	11.5	32.067	0.453	1.337			1486	7
8		0					2,944	1.5	32.065	0.470	1.248			1486	8
9		0					2,941	11.4	32.066	0.467	1.597			1486	9
10															10
11															11
12															12

CTD CAST LOG FORM

VESSEL NOAAS Miller Freeman										PROJECT & LEG: MF-95-07										INITIALS: <u>DeK</u> CHECKED BY: _____										PAGE <u>5</u> of _____									
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD= 124			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID																
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC																											
0455	42	6	7	N	164	59	67	W	04	MAY	95	10	42	02.5	02.3	116	28	0	26	5	23	11	53	5															
CTD 911 plus TYPE & SN 93450-209 PRESS. SN 53586 TEMP. SN 1455 COND. SN 7AP																																							
ATTACHMENTS: LIGHT METER (V) _____ FLUOROMETER (V) _____ OTHER: _____ OTHER: _____																																							
FILENAME: <u>CAST005 - 04 May 1041</u> REMARKS (include alternate station designation if applicable): <u>max depth 48</u> <u>CHAIN #109</u> <u>Flouro #153</u>																																							

Position	#	Depth	T-track	TIME @				Monitor Values 108				Sample Bottle Data		Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.					
1		Bottom		47.718	2.836	31.909	0.642	2.523							1498	/		1
2		Bottom	10:45 10:50	45.639	2.836	31.911	0.655	2.694						29		/		2
3		40		40.116	2.828	31.898	0.645	2.867							1497	X/X		3
4		30		30.940	2.794	31.825	0.742	2.989							1496	X/X		4
5		20		20.295	2.786	31.767	0.768	3.593							1495	X/X		5
6		10		9.928	2.771	31.748	0.746	2.911							1494	X/X		6
7		10		10.311	2.776	31.747	0.766	3.432								/	AbS 7009107	7
8		0		0.691	2.751	31.739	0.741	2.931							1493	X/X		8
9		0		1.454	2.756	31.738	0.746	2.796								/	AbS 7009209	9
10																/		10
11																/		11
12																/		12

CTD CAST LOG FORM

VESSEL NOAAS Miller Freeman										PROJECT & LEG: MF-95-07										INITIALS: <u>DCK</u> CHECKED BY: _____										PAGE 6 of 6									
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD= 124			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID															
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC																											
00654	43	02	N	164	46	09	W	04	M	19	51	33	5	21.3	21.6	16	28	00	03	23	1		47	6															
FILENAME: <u>CAST006</u> REMARKS (include alternate station designation if applicable): <u>May duplicate</u> <u>CLAN #109 Flooro #153</u>																																							
ATTACHMENTS: TYPE & SN <u>93450-209</u> PRESS. SN <u>53586</u> TEMP. SN <u>1455</u> COND. SN <u>7AP</u>																																							

Position	Bot. #	Depth	T-track	TIME@				Monitor Values 108				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.						
1		Bottom		41.115	2.444	31.813	0.345	0.627											1
2		Bottom		41.126	2.445	31.813	0.343	0.928											2
3		45		41.044	2.444	31.813	0.346	0.651											3
4		30		31.024	2.448	31.811	0.342	0.564											4
5		20		21.161	2.459	31.847	0.378	0.814											5
6		10		10.099	2.905	31.711	0.630	2.648											6
7		10		10.240	2.902	31.712	0.660	2.997											7
8		0		1.690	2.867	31.688	0.672	2.391											8
9		0		1.579	2.881	31.685	0.648	2.621											9
10																			10
11																			11
12																			12

CTD CAST LOG FORM

* We think the sample is for the
 Range 40-51 m
 deepest bottle -
 Not sure

VESSEL NOAAS Miller Freeman										PROJECT & LEG: MF-95-07										INITIALS: DCK										CHECKED BY:										PAGE 7 of 7																																																																																																																																	
CONSECUTIVE CAST NUMBER										LATITUDE										LONGITUDE										DATE JD=124										TIME (GMT)										DRY BULB (°C)										WET BULB (°C)										BAR (mb, integer)										SEA STATE										VISIBILITY										WIND DIRECTION										WIND SPEED (kts)										CLOUD (amt)										TYPE										WEATHER										BOTTOM DEPTH (m)										STA. NAME/ID									
4 5 4 4 9 . 7 3 N										1 6 4 5 3 . 5 1 W										0 4 M A Y 9 5										1 5 2 6										0 3 . 0 2 . 8										1 6 3 8										8 5 6										4 7 2 8										1										7 5										4																																																																					
CTD 911 plus										ATTACHMENTS:										FILENAME: Cast 847 - 04 May 1524										REMARKS (include alternate station designation if applicable):										may dip for 67 m / 6300										CWAN #109										Flare #153																																																																																																													
TYPE & SN 93450-209										LIGHT METER (V)										FLUOROMETER (V)										OTHER:										OTHER:																																																																																																																																	
PRESS. SN 53586										TEMP. SN 1455										COND. SN 719																																																																																																																																																					

Position	Bol. #	Depth Trip	T-track	TIME @		Monitor Values					Sample Bottle Data			Sal. Bot. #	Nutrient	Chlor/ MZ	Other	Position
				Depth	Trip	Press.	Temp.	Salinity	Chlor. Cond.	Fluor.	ThermP	Avg. Tw	Sal.					
1				Bottom		67.531	2.629	32.086	0.303	0.317								1
2				Bottom		67.554	2.628	32.086	0.307	0.302			16		1510			2
3				40		40.287	2.337	31.903	0.286	0.215					1508	X / X		3
4				30		29.601	2.321	31.879	0.292	0.298					1507	X / X		4
5				20		20.761	2.532	31.833	0.312	0.388					1506	X / X		5
6				10		10.833	2.701	31.795	0.362	0.576					1505	X / X		6
7				10		10.723	2.713	31.793	0.367	0.763							Abs 70070	7
8				0		1.458	2.773	31.777	0.397	1.046					1504	X / X		8
9				0		1.454	2.766	31.778	0.388	0.836						X / X	Abs 100000	9
10																		10
11																		11
12																		12

→ last ctd syne for last two bottles
 restarted ctd program for these bottles,
 merged last information

CTD CAST LOG FORM

[illegible]

CTD CAST LOG FORM

LATITUDE		LONGITUDE		DATE JD= 124			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA NAME/ID
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN													
009	5503	03	N	16	50	5	18	55	03	50	28	17	29	03	08	46	1	11	1	9	
ATTACHMENTS:		FILE NAME:																			

TYPE & SN	93450-209	LIGHT METER (V)		REMARKS (include alternate station designation if applicable): CAST 1009 04 MAY 1850 109 98 W/O
PRESS SN	53586	FLUOROMETER (V)	153	
TEMP SN	1455	OTHER:	SALAM 109	
COND. SN	748	OTHER:	TATS	

[illegible]

VESSEL NO AAS Miller Freeman										PROJECT & LEG: MF-95-07										INITIALS: <u>MC</u> CHECKED BY: _____										PAGE <u>10</u> of _____									
CONSECUTIVE	CAST NUMBER	LATITUDE			LONGITUDE			DATE JD=124			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID																
		DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC																										
01	054	59	22	N	116	5	17	11	8	W	04	M	AY	9	5	20	19	6	14	4	7	18	3	8	0	10	5	3	1	1	10	10							
CTD 911 plus		ATTACHMENTS:										FILENAME: <u>SSS log: cast 010-04 MAY 2015</u>																											
TYPE & SN 93150-209		LIGHT METER (V) <u>✓</u>										REMARKS (include alternate station designation if applicable):																											
PRESS. SN 53586		FLUOROMETER (N) <u>✓</u>										<u>may dip to 105 M</u>																											
TEMP. SN 1455		OTHER: <u>CELLAM</u>										<u>Abundance Skimped</u>																											
COND. SN 710		OTHER: <u>TAPS</u>										<u>CELLAM #109 Floor #153</u>																											
Position	#	Depth Trip	T-track	TIME@			Monitor Values 1/2			Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position																						
				Depth	Trip	TIME@	107 Press.	104 Temp.	106 Salinity	ThermP	Avg. Tw	Sal.																											
1		300m		105.604	3.206	32.698	0.078	105.604	3.206	32.698	0.078			1525		1	1																						
2		75		74.777	2.871	32.287	0.158	74.777	2.871	32.287	0.158			1526		1	2																						
3		140		40.119	2.030	31.947	0.172	40.119	2.030	31.947	0.172			1527		Y/Y	3																						
4		30		30.325	2.057	31.970	0.182	30.325	2.057	31.970	0.182			1528		Y/Y	4																						
5		20		20.602	2.182	31.899	0.162	20.602	2.182	31.899	0.162			1529		Y/Y	5																						
6		10		10.472	2.680	31.866	0.823	10.472	2.680	31.866	0.823			1530		Y/Y	6																						
7		10		10.900	2.700	31.862	1.785	10.900	2.700	31.862	1.785					Y/Y	7																						
8		0		1.326	3.092	31.817	1.444	1.326	3.092	31.817	1.444			1531		Y/Y	8																						
9		0		1.770	3.091	31.818	1.535	1.770	3.091	31.818	1.535					Y/Y	9																						
10																1	10																						
11																1	11																						
12																1	12																						

VESSEL NOAAS Miller Freeman				PROJECT & LEG: MF-95-07				INITIALS: <u>HC</u> CHECKED BY: _____				PAGE <u>11</u> of _____																	
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD=124			TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID							
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN																		
011	54	55	16	N	165	28	16	2	W	04	1	14	16	4	10	3	17	18	38	3	25	0	3	4	1	12	0	1	1
FILENAME: <u>505109:Cast01104may2142</u> REMARKS (include alternate station designation if applicable): <u>may depth: 116 m</u> <u>CLAN #109 Flouro #153</u>																													
ATTACHMENTS: LIGHT METER (✓) _____ FLUOROMETER (✓) _____ OTHER: <u>CLAN</u> OTHER: <u>TAPS</u>																													
CTD 911 plus TYPE & SN <u>93450-209</u> PRESS. SN <u>53586</u> TEMP. SN <u>1455</u> COND. SN <u>7AP</u>																													
Position	Bot. #	Depth	T-track	TIME @		Monitor Values 1/2				Sample Bottle Data		Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position													
				Depth	Trip	107 Press.	104 Temp.	106 Salinity	Fluor. Cond.	Fluor.	ThermP						Avg. Tw	Sal.											
1		30m				115.714	3.197	32.668	.064	.268			1025		/		1												
2		75	✓			76.107	2.805	32.397	.088	.270			1536		/		2												
3		40				40.608	2.616	32.064	.180	.281			1535		X/Y		3												
4		30				30.552	2.392	31.900	.234	.291			1534		X/X		4												
5		20				20.424	2.445	31.898	.309	.309			1533		X/X		5												
6		10				10.802	2.683	31.906	.796	.360			1532		X/X		6												
7		10				9.433	2.821	31.906	.766	.374					/		7												
8		0				1.306	2.964	31.906	.340	.370			151		X/X		8												
9		0				1.612	2.969	31.906	.314	.373					/		9												
10															/		10												
11															/		11												
12															/		12												

CTD CAST LOG FORM

VESSEL NOAAS Miller Freeman				PROJECT & LEG: MF-95-07				INITIALS: <u>KC</u> CHECKED BY: _____				PAGE <u>12</u> of _____												
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD= <u>124</u>		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/D			
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR												MIN		
01254	52	03	N	165	40	18	W	04	MAY	9	5	23	39	3.1	2.8	18	38	35	06	7	4	1	136	12
FILENAME: <u>SCSLOS:Cast012-041may2330</u> REMARKS (include alternate station designation if applicable): <u>may depth 133 m</u> <u>CLPm #109 Flood #153</u>																								
ATTACHMENTS: LIGHT METER (V) _____ FLUOROMETER (V) <u>✓</u> OTHER: <u>CLPm</u> OTHER: <u>TAPS</u>																								
CID	911 plus																							
TYPE & SN	93450-209																							
PRESS. SN	53586																							
TEMP. SN	1455																							
COND. SN	7AP																							

Position	#	Trip	Depth	TIME @				Monitor Values				Sample Bottle Data		Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				Track	Depth	Trip	107 Press.	104 Temp.	106 Salinity	108 Fluor.	ThermP	Avg. Tw	Sal.					
1			30m		133.493	3.844	32.750	0.541	0.88	0.264			8	1032	/		1	
2			75		75.529	3.012	32.561	0.89	0.268				1031	/		2		
3			40		40.1692	2.849	32.200	0.362	0.296				1030	X/X		3		
4			30		30.729	2.910	32.153	0.309	0.303				1029	X/X		4		
5			20		20.397	3.026	32.086	0.266	0.302				1028	X/X		5		
6			10		10.572	3.166	32.037	0.247	0.303				1027	X/X		6		
7			10		10.452	3.150	32.052	0.158	0.295					/		7		
8			0		2.176	3.188	32.033	0.134	0.302				1026	X/X		8		
9			0		2.244	3.178	32.032	0.128	0.305					/		9		
10														/		10		
11														/		11		
12														/		12		

VESSEL NOAAS Miller Freeman				PROJECT & LEG: MF-95-07				INITIALS: KC				CHECKED BY:				PAGE 13 of								
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD=125			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC												
135448.58N	11655	1.34	W05	5	1	04	2	10	2	10	2	10	2	10	2	10	2	10	2	10	2	10	2	10
FILENAME: <u>SCS105: Cast-013-05 may 0057</u> REMARKS (include alternate station designation if applicable): <u>Max depth: 160 m 15240</u>																								
ATTACHMENTS: LIGHT-METER (4) _____ FLUOROMETER (N) <u>153</u> OTHER: <u>CLAN 109</u> OTHER: <u>TAPS</u>																								
CTD 911 plus TYPE & SN <u>93450-209</u> PRESS. SN <u>53586</u> TEMP. SN <u>1455</u> COND. SN <u>749</u>																								
Position	Bot. #	Trip	Depth	T-track	TIME@	Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position						
						107	104	Temp.	Salinity	112	108	ThermP	Avg. Tw						Sal.					
1			160			107	104	3.401	32.804	112	108				1039			1						
2			75			107	104	3.401	32.804	112	108				1038			2						
3			40			107	104	3.055	32.270	112	108				1037			3						
4			30			107	104	3.078	32.246	112	108				1036			4						
5			20			107	104	3.025	32.095	112	108				1035			5						
6			10			107	104	3.098	32.080	112	108				1034			6						
7			10			107	104	3.092	32.083	112	108							7						
8			0			107	104	3.106	32.076	112	108				1033			8						
9			0			107	104	3.103	32.078	112	108							9						
10						107	104											10						
11						107	104											11						
12						107	104											12						

VESSEL NOAAS Miller Freeman				PROJECT & LEG: MF-95-07				INITIALS: <u>XC</u> CHECKED BY: _____				PAGE <u>14</u> of _____								
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=125		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												
0145445.05N	16602.8	11W	05MAY	0950	2.4	1734	010	088	2.17											
FILENAME: <u>SCALOS CAST 14-05MAY0236</u> REMARKS (include alternate station designation if applicable): <u>may depth 212 m</u> <u>CLL AN #109</u> <u>Flora #153</u>																				
ATTACHMENTS: LIGHT-METER (V) _____ FLUOROMETER (N) <u>153</u> OTHER: <u>CLL AN 109</u> OTHER: <u>TAPS</u>																				
CID 911 plus																				
TYPE & SN 93A50-209																				
PRESS. SN 53586																				
TEMP. SN 1455																				
COND. SN 7AP																				

Position	Bot. #	Depth	T-track	TIME @	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
					Depth	Trip	Press.	Temp.	Salinity	Fluo. Cond.	ThermP					
1		Box			22.403	3.58	33.088	0.48	0.264			3				1
2		Surface														2
3																3
4																4
5																5
6																6
7																7
8																8
9																9
10																10
11																11
12																12

CTD CAST LOG FORM

VESSEL NOAAS Miller Freeman				PROJECT & LEG: MF-95-07				INITIALS: <u>HC</u> CHECKED BY: _____				PAGE <u>15</u> of <u>15</u>																			
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=125		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE (705)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID											
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN										
01554	41	37	N	106	14	20	W	05	04	02	3	0	2	2	9	1	6	3	4	0	1	0	1	0	9	4	2	8	4	1	5
CID 911 plus TYPE & SN 93450-209 PRESS. SN 53585 TEMP. SN 1455 COND. SN 7AP				ATTACHMENTS: LIGHT METER (N) _____ FLUOROMETER (N) 153 OTHER: <u>CLARK 109</u> OTHER: _____				FILENAME: <u>SOS/05-CAST05-05 MAY/0352</u> REMARKS (include alternate station designation if applicable): <u>NO TAPS</u> <u>max depth = 277m</u> <u>100% Cloud cover before fog rolled in.</u> <u>274 W.O.</u> <u>CLARK #109</u> <u>Floor #153</u>																							

Position	Bot. #	Depth	T-track	TIME @			Monitor Values 1/2			Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				Depth	Trip	Press.	Temp.	Salinity	Cond.	ThermP	Avg. Tw	Sal.					
1		✓ 13		260.454	3.519	33.235	0.040	2.59				2			/		1
2															/		2
3															/		3
4															/		4
5															/		5
6															/		6
7															/		7
8															/		8
9															/		9
10															/		10
11															/		11
12															/		12

VESSEL NO. AAS Miller Freeman				PROJECT & LEG: MF-95-07				INITIALS: <u>HC</u> CHECKED BY: _____				PAGE <u>16</u> of _____							
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=125		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											
016	54	34.83	N	166	07	16	05	17	21.2	21.0	1034	1034	1034	1034	1034	1034	1034	412	116
CID 911 plus		ATTACHMENTS:		FILENAME: <u>Sector Cast 016-05 MAY 0500</u>		REMARKS (include alternate station designation if applicable):													
TYPE & SN 93A50-209		LIGHT METER (N)		FLUOROMETER (N)		NO TAPS NO GILMAN MAY DEPTH: 406m													
PRESS. SN 53586		OTHER:		OTHER:		C. L. #102 Floor #153													
TEMP. SN 1455		OTHER:		OTHER:															
COND. SN 7AP		OTHER:		OTHER:															
Position	Bol. #	Depth	T-track	TIME@	Depth	Trip	Press.	Temp.	Salinity	Monitor Values	ThermP	Avg. Tw	Sal.	Sal. Bot. #	Nutrient	Bottle #	Chlor/ MZ	Other	Position
1		30		10.320	3.587	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	1
2		40		10.338	3.581	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	2
3		50		10.356	3.575	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	3
4		60		10.374	3.569	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	4
5		70		10.392	3.569	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	5
6		80		10.410	3.569	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	6
7		90		10.428	3.569	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	7
8		100		10.446	3.569	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	8
9		110		10.464	3.569	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	9
10		120		10.482	3.569	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	10
11		130		10.500	3.569	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	11
12		140		10.518	3.569	3.572	30.377	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	30.378	12

CTD CAST LOG FORM

VESSEL NO AAS Miller Freeman										PROJECT & LEG: MF-95-07										INITIALS: <u>KC</u> CHECKED BY: _____										PAGE <u>17</u> of _____									
CONSECUTIVE CAST NUMBER		LATITUDE				LONGITUDE				DATE JD=125				TIME (GMT)				DRY BULB (°C)		WET BULB (°C)		BAR (mb, integer)		SEA STATE		VISIBILITY		WIND DIRECTION		WIND SPEED (kts)		CLOUD (amt)		TYPE WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
017		542.08 N				166.02 W				05 MAY 95				0739				1.8		1.8		1.8		1.8		1.8		1.8		1.8		1.8		1.8		1.8		1.8	
CID 911 plus		ATTACHMENTS:				FILENAME: JCS109:CAST017-05MAY0718				REMARKS (include alternate station designation if applicable):																													
TYPE & SN 93150-209		LIGHT-METER (A)-				FLUOROMETER (N) 153				NO CLAM																													
PRESS. SN 53586		OTHER: 153				NO TRAPS				mont depth: 502m 498 w/o																													
TEMP. SN 1455		OTHER:				Flora #153																																	
COND. SN 7AP																																							

Position	#	Bot. #	T-track	Depth	TIME@	Monitor Values / Chlor				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
						Press.	Temp.	Salinity	108 Fluor.	ThermP	Avg. Tw	Sal.						
1			✓	500		501.355	3.536	33.974	0.000					11	1053	/		1
2				75		75.232	3.246	32.569	0.0000						1052	/		2
3				40		40.777	3.376	32.460	0.0000						1051	X/X		3
4				30		30.169	3.340	32.444	0.0000						1050	X/X		4
5				20		20.191	3.398	32.403	0.0000						1049	X/X		5
6				10		10.119	3.667	32.376	0.0000						1048	X/X		6
7				10		10.839	3.652	32.377	0.0000						1047	X/X		7
8				0		1.600	3.667	32.376	0.0000						1047	X/X		8
9				0		1.940	3.662	32.377	0.0000						1047	X/X		9
10																		10
11																		11
12																		12

VESSEL NOAAS Miller Freeman
PROJECT & LEG: MF-95-06
INITIALS: _____
CHECKED BY: _____
PAGE of

(CAST NAME) 018
LATITUDE 911P
LONGITUDE 1455
DATE JD= 1995 MAY 9
TIME (GMT) 1455

ATTACHMENTS:
LIGHT METER (✓)
FLUOROMETER (✓)
OTHER: Chlor
OTHER: _____

TYPE & SN 93450-209
PRESS SN 53586
TEMP SN 1455
COND SN 748

FILENAME: CAST 018 -
REMARKS (include alternate station designation if applicable):
Chlor # 109 Fluor # 153

(CAST NAME) 018
LATITUDE 911P
LONGITUDE 1455
DATE JD= 1995 MAY 9
TIME (GMT) 1455

ATTACHMENTS:
LIGHT METER (✓)
FLUOROMETER (✓)
OTHER: Chlor
OTHER: _____

TYPE & SN 93450-209
PRESS SN 53586
TEMP SN 1455
COND SN 748

FILENAME: CAST 018 -
REMARKS (include alternate station designation if applicable):
Chlor # 109 Fluor # 153

Position	Bot. #	Depth	Track	TIME @				Monitor Values				Sample Bottle Data				Sal.	Bot. #	Nutrient	Chlor/ MZ	Other	Position
				Depth	Trip	Press.	Temp.	Salinity	Chlor	Coord.	Fluor.	ThermP	Avg. Tw	Sal.							
1		60																		1	
2		40																		2	
3		30																		3	
4		23																		4	
5		13																		5	
6		23																		6	
7		20																		7	
8		10																		8	
9		5																		9	
10		5																		10	
11		5																		11	
12		0																		12	

[illegible]

VESSEL: <u>Abbas Miller Freeman</u>		PROJECT & LEG: <u>ME-95-07</u>		INITIALS: <u>KC</u>		CHECKED BY: _____		PAGE <u>19</u> of _____															
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= <u>125</u>		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN			
019	55	04.18	N	164	31.5	W	05	MAY	9	5	20	47	21.2	1.8	05	47	020	14	8	62	16	0	21-8
CTD 9-11 plus		ATTACHMENTS:		FILENAME: <u>SCS105;CAST019-05MAY2041</u>																			
TYPE & SN <u>93450-209</u>		LIGHT METER (V)		REMARKS (include alternate station designation if applicable):																			
PRESS. SN <u>53586</u>		FLUOROMETER (N) <u>153</u>		<u>max depth: -601 m</u>																			
TEMP. SN <u>1465</u>		OTHER: <u>CLAM 109</u>																					
COND. SN <u>748</u>		OTHER:																					

Position	#	Trip	Depth	TIME@	Monitor Values			Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Position
					Press.	Temp.	Salinity	ThermP	Avg. Tw	Sal.				
1			60		60.105	1.909	31.945	.285	.175		26	1061	/	1
2			40		40.091	1.928	31.934	.288	.196				/X	2
3			30		29.604	1.966	31.929	.291	.208			1062	/X	3
4			23		23.476	2.033	31.915	.290	.199				X ¹ /	4
5			23		23.184	1.988	31.923	.291	.195				X ² /	5
6			23		23.272	1.988	31.923	.291	.191				X ³ /	6
7			20		20.520	2.137	31.891	.292	.210			1063	/X	7
8			10		10.502	2.462	31.821	.297	.189			1064	/X	8
9			5		5.400	2.499	31.814	.296	.142				X ¹ /	9
10			5		5.405	2.505	31.814	.296	.150				X ² /	10
11			5		5.496	2.507	31.814	.292	.150			1065	X ³ /	11
12			0		0.882	2.520	31.813	.293	.126				/X	12

VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>ME-95-07</u>		INITIALS: <u>KC</u>		CHECKED BY: _____		PAGE <u>20</u> of _____										
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= <u>127</u>		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR										
02056	35	139	N	44	37	07	W	07	11	4.5	3.8	88.3	7	155	10	862	72	41-2
ATTACHMENTS: <u>CTD 9-11 plus</u> FILENAME: <u>SCS109: CAST 020-07 MAY 2009</u> REMARKS (include alternate station designation if applicable): <u>No TADS.</u> <u>max depth: 71 m</u> <u>max CTD # 2, Cast 1</u>																		
TYPE & SN		LIGHT METER (V)		FLUOROMETER (N)		OTHER: <u>CLAM 109</u>		OTHER:		Absorbance								
PRESS. SN		53580		153														
TEMP. SN		1455																
COND. SN		748																

Position	#	Trip	Depth	TIME @	Monitor Values		Sample Bottle Data		Sal.	Nutrient	Chlor/ MZ	Oth	Position
					Temp.	Salinity	ThermP	Avg. Tw					
1			Bottom								/		1
2			24	24.125	31.638	0.600	2.038				A/-		2
3			24	24.218	31.638	0.596	1.928				B/-		3
4			24	24.350	31.639	0.592	1.929				C/-		4
5			10	10.533	31.631	0.456	0.814				A/-		5
6			10	10.390	31.633	0.466	0.752				B/-		6
7			10	10.572	31.636	0.494	1.100				C/-		7
8			7	6.836	31.633	0.462	0.661				A/-		8
9			7	6.948	31.632	0.461	0.636				B/-		9
10			7	7.101	31.633	0.458	0.687		9		C/-		10
11											/		11
12											/		12

VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>MF-95-07</u>		INITIALS: <u>KC</u>		CHECKED BY: _____		PAGE <u>21</u> of _____													
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=127		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN	
021	56	35.55	N	164	37	16	07	04	19	52	35	5	5	5	5	10	8	4	2	712	41-4
ATTACHMENTS: CTD <u>9-11 Plus</u> TYPE & SN <u>93450-209</u> PRESS. SN <u>53586</u> TEMP. SN <u>1455</u> COND. SN <u>748</u> FLUOROMETER (N) <u>153</u> OTHER: <u>CHUM 109</u> OTHER: _____ FILENAME: <u>SCS109: Cest221-07 MAY 2354</u> REMARKS (include alternate station designation if applicable): <u>may dupli: 7AM</u>																					

Position	Bot. #	Trip	Depth	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw					
1			Bot	71.906	0.351	32.149	0.454	1.008					1072	/	1
2		✓	60	60.338	0.350	32.149	0.441	0.915				32	1071	/	2
3			40	40.051	0.328	32.145	0.452	0.823						/X	3
4			30	29.910	0.305	31.668	0.693	2.367					1070	/X	4
5			20	19.786	0.720	31.654	0.553	1.588					1069	/X	5
6			10	10.083	0.924	31.632	0.482	0.973					1068	/X	6
7			5	4.778	0.937	31.632	0.460	0.753					1066	/	7
8			0	2.192	0.948	31.633	0.454	0.591						/X	8
9														/	9
10														/	10
11														/	11
12														/	12

WKS # are correct-LB

CTD CAST LOG FORM

VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>MF 95-07</u>		INITIALS: <u>WR</u>		CHECKED BY: _____		PAGE <u>22</u> of _____													
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN
0122	56	35.88	N	169	37.86	W	08	19	50	23	1	2.5	2.3	903	7	150	08	86	2	71	STA 41
ATTACHMENTS: <u>CTD 9-11 plus</u> FILENAME: <u>Cast022-08 may 0229</u>																					
REMARKS (include alternate station designation if applicable): <u>max depth 71 m</u>																					
TYPE & SN		PRESS. SN		TEMP. SN		COND. SN		LIGHT METER (V)		FLUOROMETER (N)		OTHER: <u>Chl a</u>		OTHER:							
<u>93450-209</u>		<u>53586</u>		<u>1455</u>		<u>748</u>															

Position	#	Bot. Trip	Depth	TIME@	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/	Other	Position	
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw						Sal.
1			<u>Bottom</u>		70.701	.3544	32.1499	.4592	.8730				18		/		1
2			<u>40</u>		39.528	.3344	32.144	.4697	1.0335					X/		7022402	
3			<u>30</u>		29.680	.607	31.654	.5853	1.6940					X/		7022303	
4			<u>20</u>		20.193	.6696	31.656	.5320	1.4491					X/		7022204	
5			<u>10</u>		9.913	1.003	31.635	.4898	1.0533					X/		7022105	
6			<u>5</u>		5.697	1.051	31.635	.4467	.7148					/	Photo	6	
7			<u>5</u>		5.685	1.047	31.635	.4417	.6500					/	Photo	7	
8			<u>5</u>		5.612	1.042	31.635	.4400	.6306					/		8	
9			<u>0</u>		2.120	1.035	31.635	.4573	.5555					X/		7022009	
10														/		10	
11														/		11	
12														/		12	

VESSEL: <u>Millent Freeman</u>		PROJECT & LEG: <u>MF95-07</u>		INITIALS: <u>WP</u>		CHECKED BY: _____		PAGE 23 of _____													
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=128		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN
023	55	51.9	N	166	24	11	W	08	MA	7	9	5	2	20	4	2	6	8	1	2	3
CTD <u>941 Plus</u>		ATTACHMENTS:		FILENAME: <u>Cont023-08 May 2207</u>		REMARKS (include alternate station designation if applicable):															
TYPE & SN <u>93450-209</u>		LIGHT METER (V) <u>NO</u>		morning #3 Before recovery?																	
PRESS. SN <u>53580</u>		FLUOROMETER (V) <u>yes</u>		max CTD depth 132m																	
TEMP. SN <u>1455</u>		OTHER: <u>Chlorine</u>																			
COND. SN <u>748</u>		OTHER:																			

Position	#	Bot. #	Trip	Depth	TIME @	Monitor Values				Sample Bottle Data		Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
						Press.	Temp.	Salinity	Fluor.	ThermP	Avg. Tw					
1				80		40.707	2.724	32.409	0.299	0.214		02	1075	/		1
2				44		44.246	1.651	31.887	0.825	3.161		11		X/		2
3				40		40.252	1.543	31.868	0.845	3.342			1076	X/		3
4				30		30.148	1.597	31.867	0.864	3.062			1077	X/		4
5				26		25.841	1.577	31.864	0.856	3.280		23		X/		5
6				20		20.032	1.557	31.849	0.902	3.391			1078	X/		6
7				10		9.914	1.838	31.848	0.900	3.564		26	1079	X/		7
8				5		4.932	1.842	31.849	0.881	3.036				X/		8
9				5		5.170	1.841	31.850	0.887	2.998			1080	X/		9
10				5		5.333	1.847	31.849	0.889	3.138			1081	X/		10
11				0		1.370	1.857	31.850	0.891	3.375				X/		11
12														/		12

VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>MF 95 07</u>		INITIALS: <u>HC</u>		CHECKED BY: _____		PAGE <u>24</u> of _____													
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 129		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE (mb, integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN
024	56	02	00	N	166	23	09	17	56	19	MA	Y	9	5	0	2	4	3	1	123	53-2
ATTACHMENTS: <u>CTD 9-11 Plus</u>																					
TYPE & SN <u>93450209</u>																					
PRESS. SN <u>53586</u>																					
TEMP. SN <u>1455</u>																					
COND. SN <u>748</u>																					
REMARKS (include alternate station designation if applicable): <u>mooring 3A, Cast 1</u> <u>max depth: 116 m</u> <u>*Surface bottle did not trip - averages do not apply</u>																					
FILENAME: <u>58109.CMT004-09MAR0432</u>																					
Position	Bot. #	Trip	Depth	TIME@	Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient	Chlor/ MZ	Other	Position				
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.									
1			Bottom		115.213	2.578	32.381	0.274	0.084					1082		/		1			
2		✓	10D		100.406	2.573	32.380	0.273	0.077					1083	30	/		2			
3			100		60.608	1.263	31.962	0.467	0.951					1084		/		3			
4			40		40.702	1.789	31.919	0.798	3.181							1+		4			
5			30		30.326	1.794	31.917	0.798	2.909					1085		1+		5			
6			20		20.551	2.026	31.894	0.995	4.345					1086		1+		6			
7			10		10.448	2.025	31.894	1.013	4.516					1087		1+		7			
8			5		5.152	2.028	31.894	1.010	4.386							X/	702	1088	11		
9			5		5.044	2.030	31.894	1.007	4.481							X/	702	1088	11		
10			5		5.096	2.035	31.894	1.004	4.337							X/	702	1088	11		
11			0	*	1.000	2.035	31.893	1.142	4.371							/			12		

VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>MF-95-07</u>		INITIALS: _____		CHECKED BY: _____		PAGE <u>25</u> of _____												
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= <u>129</u>		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	SEA STATE (mb, integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER TYPE	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											MIN	
02556	02	25	N	166	23	9	1	W	09	50	09	08	3	3	09	01	65	61	123	53-7
CTD <u>9-11 Plus</u> TYPE & SN <u>9343-209</u> PRESS. SN <u>53586</u> TEMP. SN <u>1455</u> COND. SN <u>748</u>																				
ATTACHMENTS: LIGHT METER (V) <u>NO</u> FLUOROMETER (V) <u>✓ 53</u> OTHER: <u>Chlorine 109</u> OTHER: _____																				
FILENAME: <u>Cast 025-09 MAY 0908</u> REMARKS (include alternate station designation if applicable): <u>max depth = 117</u> <u>morning BS-3A</u>																				

Position	#	T-track	Depth	TIME @	Monitor Values				Sample Bottle Data			Sal. Bot. #	Chlor/ MZ	Other	Position	
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw					Sal.
1			80		117.216	2.568	32.379	.2716	.0830				17	/		1
2			40		40.540	1.788	31.917	.7964	3.4724					X/	X	2
3			30		30.541	1.831	31.919	.7995	3.1597					X/	X	3
4			20		21.224	1.967	31.8997	.9574	3.9841					X/	X	4
5			10		10.597	1.967	31.8895	.9608	4.6779					X/	X	5
6			5		5.189	1.959	31.8876	.9597	4.3169					0/		6
7			5		5.348	1.9596	31.8876	.9685	4.4049					0/		7
8			5		5.617	1.9604	31.8878	.9862	4.2220					0/		8
9			0		1.0829	1.9613	31.8879	.9712	4.3864					X/	X	9
10														/		10
11														/		11
12														/		12

VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>MF-95-07</u>		INITIALS: <u>JDK</u>		CHECKED BY: _____		PAGE <u>26</u> of _____										
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= <u>129</u>		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	SEA STATE (mb, integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (ami)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR										
02656	02.51	N	166.24	59W	09	04	95	19	16	14.4	33.6	93	47	276	188	76	118	85 m 183
ATTACHMENTS: <u>CTD 9-11 Plus</u> TYPE & SN <u>23450-209</u> PRESS. SN <u>53586</u> TEMP. SN <u>1465</u> COND. SN <u>748</u> FLUOROMETER (N) <u>153</u> OTHER: <u>Chlorine 109</u> OTHER: _____ FILENAME: <u>cast026-09 may 1914.scs</u> REMARKS (include alternate station designation if applicable): <u>Argos Color buoy deployment site #7781</u>																		

Position	Bot. #	Trip	Depth	TIME @	Monitor Values log				Sample Bottle Data			Sal. Bot. #	Nutrient #	Chlor/ MZ	Other	Position	
					Press.	Temp.	Salinity	Chloram Cond.	Fluor.	ThermP	Avg. Tw						Sal.
1			bottom		109.868	2.539	32.385	0.272	0.080				06		/		1
2			44		41.034	1.772	31.914	0.815	3.013					X /	Ab		2
3			36		30.608	1.937	31.899	0.956	4.172					X /	Ab		3
4			26		21.002	1.988	31.892	1.014	4.248					X /	Ab		4
5			16		10.821	1.994	31.892	1.012	4.358					X /	Ab		5
6			5		5.012	1.991	31.892	0.998	4.365					X /	Ab		6
7			0		1.366	1.991	31.892	1.003	3.824					X /	Ab		7
8														/			8
9														/			9
10														/			10
11														/			11
12														/			12

VESSEL NOAAS Miller Freeman				PROJECT & LEG: MF-95-07				INITIALS: CD				CHECKED BY:				PAGE 23 of									
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD=132			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (ami)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC													
027555185N	16	32	22.6	11	W	12	MAY	95	18	57	5	4	4	8	0	3	8	19	0	7	8	6	2	90	92-1
ATTACHMENTS: CTD 911 plus TYPE & SN 93450-209 PRESS. SN 53586 TEMP. SN 1455 COND. SN 742																									
FILENAME: <u>CLL 111 #109</u> REMARKS (include alternate station designation if applicable): <u>Flora #153</u>																									
Position	Bot. #	T-Track	Depth	TIME@	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position									
					Temp.	Press.	COND	SALINITY	CHLORAM	Cond.	Fluor.						ThermP	Avg. Tw	Sal.						
1		CHLORAM			21.350	2.173	31.900	1.010	4.305				19		X/		1								
2		MAX			10.707	3.203	31.902	1.170	4.976				1218		X/		2								
3		5			5.754	3.272	31.909	1.095	4.352				1217		X/		3								
4															/		4								
5															/		5								
6															/		6								
7															/		7								
8															/		8								
9															/		9								
10															/		10								
11															/		11								
12															/		12								

CTD CAST LOG FORM

CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=132		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN
028	55	37.50	N	164	08.95	W	12	04	95	22	52	5.4	4.8	06	38	19	00	78	62	89	04-1

CTD 911 plus

TYPE & SN 93150-209

PRESS SN 53586

TEMP SN 1455

COND SN 748

ATTACHMENTS:

LIGHT METER (A)

FLUOROMETER (N) -153

OTHER: Chl a 109

OTHER:

FILENAME: cast 028-12 MAY 22 49REMARKS (include alternate station designation if applicable):
Max depth: 89mMay, Fluro. 19m, value 3.665Chl a #109Fluro #153

Position	Bot. #	Depth	T-track	TIME @	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position	
					Depth	Trip	Press.	Temp.	Salinity	Fluor.	ThermP						Avg. Tw
1			X				71.711	1.660	31.940	0.298	0.220		03				1
2							19.473	2.504	31.869	0.740	2.440				X		2
3							10.094	2.970	31.848	0.820	3.189		122		X	702803	3
4							5.069	3.257	31.826	0.604	2.226		1221		X	7028054	4
5																	5
6																	6
7																	7
8																	8
9																	9
10																	10
11																	11
12																	12

CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=133		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN	
029	55	16.05	N	165	18.31	W	13	MA	19	56	44	8	3	5	3	0	4	3	7	1	14	97-1

CTD 911 plus

TYPE & SN 93A50-209

PRESS. SN 53586

TEMP. SN 1455

COND. SN 7AP

ATTACHMENTS:

LIGHT-METER (N)

FLUOROMETER (N) 153

OTHER: clean 108

OTHER:

FILENAME: cast 029-13 MAY 0431e

REMARKS (include alternate station designation if applicable):

* Rosette hit gate and broke 1
 bottle prior to cast.
 unprotected therm. broken.
 May Fluor. 12 mm

CLAN #109

Flora #153

Position	Bot. #	Trip	Depth	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				TIME @	107 Press.	104 Temp.	106 Salinity	108 Cond.	Fluor.	ThermP	Avg. Tw	Sal.			
1				Bot	109.633	3.117	32.622	0.283	0.071			15			1
2				2nd	12.355	3.724	31.910	0.283	3.977				X/		2
3				10	10.357	3.762	31.910	0.283	4.094			1219	X/	7029108	3
4				5	5.134	3.763	31.911	0.283	3.969			1220	X/	7029054	4
5												1	/		5
6													/		6
7													/		7
8													/		8
9													/		9
10													/		10
11													/		11
12													/		12

CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=133		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR. (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID									
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN								
030	55	08.74	N	165	41.24	W	13	MAY	9	5	06	4	16	3	0	2	8	04	37	12	0	12	87	5	1	2	2	90-1

ATTACHMENTS:

TYPE & SN 93A50-209
 PRESS. SN 53586
 TEMP. SN 1455
 COND. SN 7AP

FILENAME: Cast030-13MAY0631

REMARKS (include alternate station designation if applicable): May Fluoro. 41 m 1.306 vts
MAX. Depth 118 m
* Different unprocessed form.
in rack.

CLAN #109 Fluor #153

Position	#	Depth	Track	TIME @				Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	AGS
				Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.						
1		* 17.4m				99.654	3.232	32.700	1.2412	0.253					27				1
2		0.12				34.073	2.734	32.1412	1.2412	0.312									2
3		10				9.750	3.734	32.004	1.2412	0.330						1226			103018
4		5				5.070	3.734	32.006	1.2412	0.289						1225			703005
5																			5
6																			6
7																			7
8																			8
9																			9
10																			10
11																			11
12																			12

CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD=134			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC												
031	54	27	84	N	146	01	97	W	14	MAY	95	22	24	5.6	4.9	1030.5	3	090	037	101		534	117-1	
FILENAME: <u>Seals; Cast 031 - HMMAR2207</u> *Cast 031A 531 m REMARKS (include alternate station designation if applicable): <u>Calibrate Dimer + PNE</u> <u>May depth: 502 m</u> * <u>upcast Cast 031A, log went bad</u> <u>on Cast 031.</u> <u>Flora #153</u> 36																								

Position	Bot. #	Trip	Depth	T-track	Monitor Values					Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
					TIME@	Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.			
1		X	500			107	104	497.314	3.496	34.002		0.049			07		/	1
2			200			200.125		3.575	33.052			0.040			33		/	2
3			50			50.333		3.655	32.627			0.133				X/X	Lugols	3
4			40			40.242		3.758	32.595			0.159				X/X	Lugols	4
5			30			30.186		3.862	32.523			0.295				X/X	Lugols	5
6			20			19.924		4.141	32.467			2.650				X/X	Lugols	6
7			10			10.092		5.218	32.347			5.000				X/X	Lugols	7
8			0			1.137		5.241	32.352			5.000				X/X	Lugols	8
9																/		9
10																/		10
11																/		11
12																/		12

CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (101.0)	SEA STATE (mb Integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											
032	54	27	43	N	166	02	02	W	14	19	1010	10	3	8	130	05	8	02	5419

CTD 911 plus

TYPE & SN 93450-209

PRESS. SN 53585

TEMP. SN 1455

COND. SN 719

ATTACHMENTS:

LOGGING METER (4)

FLUOROMETER (N) 153

OTHER:

OTHER:

FILENAME: SSS65: Cast032-14 MAY 2333

REMARKS (include alternate station designation if applicable):
MAY DEPTH: 500 M

Search cal Cont

Flora #153

Position	Bot. #	Trip	Depth	TIME @				Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.						
1		X	500			488.645	3.552	33.9664		0.048					05		/		1
2			350			350.281	3.7530	33.5015		0.475					08		/		2
3			200			200.650	3.600	33.080		0.42					14		/		3
4			0			194.6218	5.218	31.365		5.000					22		/		4
5																	/		5
6																	/		6
7																	/		7
8																	/		8
9																	/		9
10																	/		10
11																	/		11
12																	/		12

LATITUDE	LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO													YR
03355	12	48	N	165	15	24	W	15	04	30	41	10	07	31	10	06	86	2	114

CTD 911 plus
 TYPE 3 SN 03750-209
 PRESS SN 53586
 TEMP SN 1455
 COND SN 719

ATTACHMENTS:
 LIGHT METER (✓)
 FLUOROMETER (✓) 153
 CHLORAM OTHER: 109
 OTHER: _____

FILENAME: CAS3033

REMARKS (include alternate station designation if applicable):
* No water sample
* CHLORAM data no good
CLAN #109
Fluor #153

Position	Bot. #	Sal.	Sample Bottle Data		Nutrient	Bottle #	Chlor/ MZ	Other	Position
			ThermP	Avg. Tw					
1		*					/		1
2							/		2
3							/		3
4							/		4
5							/		5
6							/		6
7							/		7
8							/		8
9							/		9
10							/		10
11							/		11
12							/		12

VESSEL: NOAAS Miller Freeman PROJECT & LEG: MF-95-07INITIALS: SD

CHECKED BY: _____

PAGE 34 of _____

CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=135			TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN													
03455	12	96	N	165	15	34	W	15	MA	95	10	28	04	50	43	09	07	31	00	68	62	1114

FILENAME: _____

ATTACHMENTS:

LIGHT METER (✓) _____

FLUOROMETER (✓) _____

OTHER: _____

OTHER: _____

REMARKS (include alternate station designation if applicable):
** CHLAM ~ 1.242 throughout
cast (not working)
CHLAM #109 Florida #153*

Position	Bot. #	Depth	Track	TIME @	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position	
					Temp.	Press.	Salinity	CHLAM Cond.	ThermP	Avg. Tw	Sal.						
1					109.491	3.224	32.612	1.242*	0.104				19		/		1
2															/		2
3															/		3
4															/		4
5															/		5
6															/		6
7															/		7
8															/		8
9															/		9
10															/		10
11															/		11
12															/		12

CTD CAST LOG FORM

CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 135		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA NAME/ID												
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN											
00555	41	01	N	145	12	9	3	W	15	MA	9	5	18	45	5	1	4	8	11	3	7	2	8	0	7	8	6	2	11	13	126-2

CTD 911 plus

TYPE 3 SN 33750-209

PRESS SN 53586

TEMP. SN 1455

COND. SN 719

FILENAME: CAST035-15 MAY/1943

REMARKS (include alternate station designation if applicable):

No CREAM test w

Flora #153

Position	Bot. #	Depth	T-track	Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				TIME@	Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.		
1		10					9.841	4.028	31.926		4.347				/	1
2		10					9.854	4.026	31.929		3.828				/A	2
3		10					9.894	4.031	31.928		3.858				/B	3
4		10					9.924	4.026	31.929		4.173				/B	4
5		10					9.950	4.020	31.930		4.023				/C	5
6		10					9.928	4.024	31.929		4.042				/C	6
7		10					9.927	4.013	31.931		3.788				/D	7
8		10					9.925	4.029	31.929		4.197				/D	8
9		10					9.914	4.045	31.926		3.918				2X/	9
10															/	10
11															/	11
12															/	12

CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											
037																			

CTD 911 plus

PRESS SN 53585

TEMP SN 1455

COND SN 7AP

ATTACHMENTS:

LIGHT METER (✓) NO

FLUOROMETER (✓) 153

OTHER:

OTHER:

FILENAME: cast037-15MAY

REMARKS (include alternate station designation if applicable):

max depth = 105m Human Error!

Another max Fine redo CTD 37!

T1000 #153

Position	Bot. #	Depth	Trip	TIME @	Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient	Chlor/ MZ	Other	Position
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.					
1		30			30.762												1
2		30			30.423												2
3		30			30.418												3
4		30			30.405												4
5		30			30.395												5
6		30			30.389												6
7		30			30.431												7
8		30			30.453												8
9		30			30.432												9
10																	10
11																	11
12																	12

CTD CAST LOG FORM

INITIALS: LT

CHECKED BY:

PAGE 37A of

CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN
03765	12.91	N	165	14.99	W	15	NA	19	5	22	03	6.0	5.2	11	37	27	08	8	11	2

CTD 911 plus

ATTACHMENTS:

TYPE & SN 93450-209

PRESS. SN 53586

TEMP. SN 1455

COND. SN 7AP

LIGHT METER (V) NOFLUOROMETER (V) 153

OTHER:

OTHER:

FILENAME: CAST037-15 MAY 2156

REMARKS (include alternate station designation if applicable): a redo of 37

This is the real 37 -

Flora #153

MAX Depth 105m

Position	#	T-ack	Depth	TIME @				Monitor Values				Sample Bottle Data		Sal.	Bot. #	Nutrient	Bottle #	Chlor/	Other	Position
				Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.							
1			30			30.064	3.394	32.038		3.277								2x /	Lug 5	1
2			30			30.190	3.390	32.040		3.347								1 /		2
3			30			30.166	3.370	32.038		3.108								1 /		3
4			30			30.144	3.368	32.037		3.354								1 /		4
5			30			30.163	3.372	32.036		3.225								1 /		5
6			30			30.159	3.374	32.035		3.049								1 /		6
7			30			30.233	3.352	32.034		3.130								1 /		7
8			30			30.260	3.335	32.034		3.047								1 /		8
9			30			30.335	3.341	32.034		3.213					15			1 /		9
10																		1 /		10
11																		1 /		11
12																		1 /		12

CTD CAST LOG FORM

VESSEL NOAAS Miller Freeman				PROJECT & LEG: MF-95-07				INITIALS: <u>WT</u> CHECKED BY: _____				PAGE <u>38</u> of _____							
(CONSECUTIVE CAST NUMBER)	LATITUDE		LONGITUDE		DATE JD= <u>135</u>		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											
03855	12.79	N	165	13.54	W	15	MAY	9	5	10.1	5.5	12.3	7	2	70	58	62	11	12
CTD 911 plus		ATTACHMENTS:		FILENAME: <u>CAST038-15 MAY 2022</u>															
TYPE & SN 93450-209		LIGHT METER (V) <u>ND</u>		REMARKS (include alternate station designation if applicable):															
PRESS. SN 53586		FLUOROMETER (V) <u>153</u>		<u>max depth: 105 m</u>															
TEMP. SN 1455		OTHER: _____																	
COND. SN 7AP		OTHER: _____																	
Position	#	Bot. Trip	Depth	TIME @	Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position		
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.							
1			40		40.231	3.169	32.015		1.892								1		
2			40		40.139	3.168	32.014		1.784								2		
3			40		40.124	3.165	32.011		2.049								3		
4			40		40.123	3.164	32.011		1.732								4		
5			40		40.040	3.161	32.009		1.756								5		
6			40		40.054	3.160	32.008		2.073								6		
7			40		39.998	3.159	32.008		1.655								7		
8			40		40.061	3.158	32.007		2.196								8		
9			40		40.065	3.160	32.010		2.004						09		9		
10																	10		
11																	11		
12																	12		

CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= <u>136</u>		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	SEA STATE (mb, integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID						
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											MIN					
039	S 5	12.64	N 16	51.7	46	W 16	M 4	Y 9	5	4	7	6.3	6.1	11	23	7	23	4	8	6	2	11	3	128-2

CTD 911 plus

TYPE & SN 93150-209

PRESS. SN 53586

TEMP. SN 1455

COND. SN 7.02

ATTACHMENTS:

LIGHT METER (N) NOFLUOROMETER (N) 153

OTHER:

OTHER:

FILENAME: cast 039-18 may 6644REMARKS (include alternate station designation if applicable): MAX depth = 107Flora #153

Position	Bot. #	Depth	T-track	TIME @				Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.						
1		50				49.815	3.315	32.088		2.318							/		1
2		50				49.800	3.309	32.090		2.434							/		2
3		50				49.813	3.277	32.091		2.428							/		3
4		50				49.806	3.264	32.091		2.697							/		4
5		50				49.792	3.249	32.091		2.591							/		5
6		50				49.833	3.242	32.091		2.534							/		6
7		50				49.789	3.237	32.091		2.325							/		7
8		50				49.786	3.230	32.091		2.261							/		8
9		50				49.706	3.243	32.091		2.408					03		28/	W66159	9
10																	/		10
11																	/		11
12																	/		12

CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 136			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID			
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN														
948	55	13.3	N	165	16.2	6	W	16	MAY	19	50	12	2	6.13	6.11	1123	7	234	67	86	2	113	1283

CTD 911 plus

TYPE & SN 93450-209

PRESS. SN 53586

TEMP. SN 1455

COND. SN 7AP

ATTACHMENTS:

LIGHT METER (V) _____

FLUOROMETER (V) _____

OTHER: _____

OTHER: _____

FILENAME: CAST040-16 MAY 0120

REMARKS (include alternate station designation if applicable):

Cast 040-16 May 0120

Max depth 107

Partial core on tape

CLARK #109

Flora #153

Position	#	Depth	Trip	TIME @				Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.	Sal.	Bot. #					
1				70		69.956	2.904	32.172	X	0.543								1/A		1
2				70		70.005	2.906	32.174		0.571								1/A		2
3				70		69.969	2.868	32.174		0.470								1/B		3
4				70		69.975	2.839	32.173		0.580								1/B		4
5				70		69.731	2.872	32.172		0.386								1/X		5
6				70		69.761	2.828	32.170		0.615								1/X		6
7				70		70.144	2.809	32.171		0.692								1/X		7
8				70		70.160	2.702	32.160		0.645								1/X		8
9				70		70.251	2.712	32.161		0.649						27		2X1	W6759	
10																		/		10
11																		/		11
12																		/		12

CTD CAST LOG FORM

Set in log file
70.131760

CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD=136			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN												
041	53	15	59	N	12	51	W	16	MAY	95	06	37	5.1	5.0	1237	275	05	762	1113	1132			

CTD 911 plus

TYPE & SN 93150-209

PRESS. SN 53586

TEMP. SN 1455

COND. SN 7AP

ATTACHMENTS:

LIGHT METER (N) noFLUOROMETER (N) 153OTHER: OTHER: FILENAME: Sealog: CAST041-16 MAY 96 34

REMARKS (include alternate station designation if applicable):

Max Depth 106m

Flora #153

Position	#	Depth	T-rack	TIME@				Monitor Values				Sample Bottle Data				Sal. Bot.#	Nutrient Bottle #	Chlor/ MZ	Position
				Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.	ThermP	Avg. Tw				
1		50				49.724	3.134	32.104		1.824			11				X 1232	X/	704150 1
2		40				39.724	3.514	32.080		2.979							X 1231	X/	704140 2
3		30				29.983	3.345	32.019		3.325							X 1230	X/	704130 3
4		25				24.821	3.327	32.009		2.976								X/	704125 4
5		20				19.733	3.382	31.984		3.420							X 1229	X/	704120 5
6		15				14.864	3.823	31.946		4.1963								X/	704115 6
7		10				10.239	4.522	31.910		3.958							X 1228	X/	704110 7
8		5				4.728	4.599	31.911		4.319								X/	704105 8
9		0				1.541	4.565	31.913		4.114							X 1227	X/	704100 9
10																		/	10
11																		/	11
12																		/	12

VESSEL: <u>NOAA'S MILLER FREEMAN</u>				PROJECT & LEG: <u>MF-95-07</u>				INITIALS: <u>DBK</u> CHECKED BY: _____				PAGE <u>13</u> of _____														
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD= <u>36</u>			TIME (GMT)	DRY BULB (°C)	WET BULB (°C)	SEA STATE (mb, integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER TYPE	BOTTOM DEPTH (m)	STA. NAME/ID						
	DEG	MIN	SEC	DEG	MIN	SEC	DAY	MO	YR												HR	MIN				
04255	45	15	N	164	01	19	3	W	16	09	55	51.2	41.4	13	37	28	5	09	8	6	2	9	1	4	3	-2
FILENAME: <u>cast 42 - 16 May 1946</u> REMARKS (include alternate station designation if applicable): <u>cast 42 - 16 May 1946</u> <u>max depth 86</u>																										
ATTACHMENTS: LIGHT METER (M) _____ FLUOROMETER (M) <u>153</u> OTHER: <u>CHLOROPHYLL</u> OTHER: _____																										
Position	#	Bot. #	Depth	Track	Monitor Values					Sample Bottle Data			Sal. Bot. #	Bottle #	Chlor/ MZ	Other	Position									
					TIME @	Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.						ThermP	Avg. Tw	Sal.						
1								10.175	3.801	31.831	3.869	2.513					1									
2							10.164	3.796	31.832		2.758						2									
3							10.098	3.807	31.831		2.825						3									
4							9.974	3.808	31.832		2.680						4									
5							9.813	3.811	31.832		2.609						5									
6							9.773	3.814	31.832		2.754						6									
7							9.797	3.812	31.832		2.637						7									
8							9.791	3.799	31.832		2.571						8									
9							9.696	3.854	31.832		2.353						9									
10																	10									
11																	11									
12																	12									

VESSEL: <u>NOARS Miller Freeman</u>		PROJECT & LEG: <u>MF9507</u>		INITIALS: <u>DK</u>		CHECKED BY: _____		PAGE <u>43</u> of _____																					
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 136		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR. (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID										
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN									
043	55	44.63	N	164	01.54	W	16	MAY	9	5	20	3	4	5.4	5.6	13	37	29	5	0	6	8	4	2	93	1	4	3	-3
CTD 9-11 plus										FILENAME: <u>Casto43-16 May 2032</u>																			
TYPE & SN <u>92453-209</u>										REMARKS (include alternate station designation if applicable):																			
PRESS. SN <u>53550</u>																													
TEMP. SN <u>1455</u>																													
COND. SN <u>744</u>																													
ATTACHMENTS:																													
LIGHT METER (V) _____																													
FLUOROMETER (N) <u>153</u>																													
OTHER: <u>CLAM 109</u>																													
OTHER: _____																													

Position	Bot. #	Trip	Depth	TIME@	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
					Press.	Temp.	Salinity	Chlor. Cond.	Fluor.	ThermP	Avg. Tw					
1			20		19.891	2.189	32.007	1.241	0.956							1
2			20		19.619	2.254	31.871		3.051							2
3			20		19.353	2.324	31.875		3.340							3
4			20		19.956	2.347	31.884		3.255							4
5			20		21.014	2.359	31.890		3.159							5
6			20		19.926	2.350	31.883		3.156							6
7			20		19.913	2.343	31.882		3.217							7
8			20		19.946	2.344	31.880		3.244							8
9			20		19.938	2.335	31.878	↓	3.397					26	26	9
10																10
11																11
12																12

VESSEL: MF		PROJECT & LEG: MF 9507		INITIALS:		CHECKED BY:		PAGE 44 of 44														
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 146		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN	
04455	43.8	20N	164.0	3.3	6W	16	May	9	5	22	13	5.5	3.2	14	38	33	0	04	8	42	93	144-2
CTD 9-11 plus TYPE & SN 93460-209 PRESS. SN 53580 TEMP. SN 1455 COND. SN 748																						
ATTACHMENTS: LIGHT METER (✓) FLUOROMETER (MF 153) OTHER: OTHER:																						
FILENAME: Cast 044 - 16 May 2012 REMARKS (include alternate station designation if applicable): max depth = 85.6																						

Position	#	Trip	Depth	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				TIME@	Trip	Press.	Temp.	Salinity	Cond.	Fluor.					
1			30			30.474	1.368	31.882	1.241	2.131					1
2			30			30.490	1.363	31.883		2.081				2	
3			30			30.451	1.367	31.883		2.089				3	
4			30			30.482	1.365	31.883		2.087				4	
5			30			30.489	1.374	31.880		2.089				5	
6			30			30.447	1.377	31.880		2.022				6	
7			30			30.471	1.378	31.880		1.913				7	
8			30			30.441	1.379	31.880		2.149				8	
9			30			30.424	1.376	31.879	✓	2.209				9	
10														10	
11														11	
12														12	

VESSEL: MF		PROJECT & LEG: MF 9507		INITIALS:		CHECKED BY:		PAGE 45 of													
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 146		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN
04555	43.1	3N	164.0	4.0W	16	05	22	48	7.0	5.6	14	32	3	4	0	2	8	6	2	921144-3	
ATTACHMENTS: FILENAME: cast045 - 16 May 2006 REMARKS (include alternate station designation if applicable): max 85																					
TYPE & SN		LIGHT METER (V)		55																	
PRESS. SN		53580																			
TEMP. SN		1455																			
COND. SN		748																			

Position	Bot. #	Trip	Depth	Monitor Values				Sample Bottle Data			Sal. Bot. #	Chlor/ MZ	Other	Position
				Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw				
1			40	40.018	1.237	31.904	1.241	1.277						1
2			40	40.128	1.240	31.905		1.276						2
3			40	40.099	1.237	31.904		1.236						3
4			40	40.127	1.235	31.905		1.380						4
5			40	40.093	1.234	31.905		1.355						5
6			40	40.109	1.236	31.905		1.302						6
7			40	40.067	1.238	31.906		1.254						7
8			40	40.057	1.245	31.908		1.375						8
9			40	40.025	1.251	31.914		1.379		X		6	2X/	9
10														10
11														11
12														12

VESSEL: <u>Mullen Freeman</u>		PROJECT & LEG: <u>MF-95-07</u>		INITIALS: <u>DEK</u>		CHECKED BY: _____		PAGE <u>46</u> of _____																
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 147		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN				
046	55	42.61	N	164	57.21	W	17	MAY	9	5	00	36	6.1	5.1	14	28	00	0	08	62	19	11	45	-2
CTD 9-11 plus		ATTACHMENTS:		FILENAME: <u>cast 046-17 May 0235</u>		REMARKS (include alternate station designation if applicable): <u>max depth 86m</u> <u>clam off!</u>																		
TYPE & SN		LIGHT METER (V)		NO																				
PRESS. SN		53586		FLUOROMETER (V)		153																		
TEMP. SN		1455		OTHER:																				
COND. SN		748		OTHER:																				

Position	#	Bot. Trip	Depth	TIME @	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw					
1			50		50.203	1.197	31.970	6	1.018							1
2			50		50.172	1.208	31.967		1.017							2
3			50		50.199	1.215	31.966		1.175							3
4			50		50.196	1.215	31.966		1.091							4
5			50		50.127	1.217	31.965		1.126							5
6			50		50.133	1.209	31.967		1.108							6
7			50		50.066	1.212	31.967		1.153							7
8			50		50.099	1.184	31.978		0.883							8
9			50		50.120	1.185	31.978		1.103					13	241	UGOS 9
10																10
11																11
12																12

VESSEL: <u>Muller Freemantel</u>		PROJECT & LEG: <u>MF-95-07</u>		INITIALS: <u>DSK</u>		CHECKED BY: _____		PAGE <u>47</u> of _____														
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR. (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN	
047	55	42.23	N	164	27.77	W	9	5	0	1	1	5	4	5	3	0	1	8	6	2	93	145-3
CID		1624 ATTACHMENTS:		FILENAME: <u>Cast 047-17 May 013</u>		REMARKS (include alternate station designation if applicable):																
TYPE & SN		93430-209		LIGHT METER (✓) <u>no</u>		MAX. Depth 87																
PRESS. SN		53580		FLUOROMETER (✓) <u>153</u>		no chlor																
TEMP. SN		1455		OTHER: _____																		
COND. SN		742		OTHER: _____																		

Position	Bot. #	Trip	Depth	TIME @	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient	Chlor/ MZ	Other	Position
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw					
1			70		76.607	1.141	31.993	0	0.842							1
2			70		70.170	1.138	31.995		0.891							2
3			70		69.860	1.138	31.995		0.796							3
4			70		69.941	1.137	31.995		0.822							4
5			70		69.941	1.137	31.995		0.880							5
6			70		69.923	1.136	31.995		0.793							6
7			70		69.946	1.138	31.995		0.780							7
8			70		69.920	1.140	31.994		0.936							8
9	B		70		69.942	1.141	31.994	✓	0.921				25	2x1	ug/L	59
10																10
11																11
12																12

VESSEL: <u>MILLER FREEMAN</u>		PROJECT & LEG: <u>MF-95-07</u>		INITIALS: <u>HC</u>		CHECKED BY: _____		PAGE <u>48</u> of _____																			
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= <u>137</u>		TIME (GMT)		WET BULB (°C)	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID												
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR								MIN											
04855	44	31	N	110	4	05	17	MAY	9	5	05	58	4	0	14	27	0	20	04	85	2	9	5	1	4	9	-2
CTD <u>9-11 plus</u>		ATTACHMENTS:		FILENAME: <u>CAS 048-17 MAY 0556</u>		REMARKS (include alternate station designation if applicable):																					
TYPE & SN <u>Q3453-209</u>		LIGHT METER (V) _____		MAX DEPTH: <u>89M</u>																							
PRESS. SN <u>53580</u>		FLUOROMETER (N) <u>153</u>		NO CTD																							
TEMP. SN <u>1455</u>		OTHER: _____																									
COND. SN <u>7418</u>		OTHER: _____																									

Position	Bot. #	T-rack	Depth	TIME@	Monitor Values				Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Position
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw				
1			0												1
2			50		50.274	1.167	31.991		0.807				1233	16	7048502
3			40		40.114	1.247	31.907		1.421				1234		7048403
4			30		30.222	1.612	31.868		2.960				1235		7048304
5			25		25.128	2.068	31.875		3.805						7048255
6			20		20.673	2.802	31.834		5.000				1236		7048206
7			15		15.081	3.562	31.825		7.265						7048157
8			10		9.888	3.814	31.823		6.830				1237		7048108
9			5		5.227	3.840	31.826		6.781						7048059
10			0		1.433	3.916	31.826		6.801				1238		7048010
11															11
12															12

VESSEL: <u>NOBLE MILLER FREEMAN</u> PROJECT & LEG: <u>MF-95-07</u> INITIALS: <u>CD</u> CHECKED BY: _____										PAGE <u>49</u> of _____																					
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= 147		TIME (GMT)		DRY BULB (° C)	WET BULB (° C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID												
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN											
04955	04	53	N	164	31	20	W	17	09	51	43	9	4	6	3	5	15	27	0	0	0	0	2	6	4	1	6	6	15	4	-1
CTD <u>9-11 plus</u>										FILENAME: <u>SAS109: CAST 49-17 MAY 1430</u>																					
TYPE & SN <u>93453-209</u>										REMARKS (include alternate station designation if applicable):																					
PRESS. SN <u>53586</u>										(5,10,20,30,40) (0,10,20,30,40)																					
TEMP. SN <u>1455</u>										Nutrients & MZ's																					
COND. SN <u>748</u>																															
Position	#	Bot. Trip	Depth	T-track	TIME@				Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position										
					Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.																	
1		60	✓	143128	14365	60.039	29.75	31.993													1										
2		60		143645		60.016	29.75	31.993													2										
3		40		143743		39.943	29.83	31.986													3										
4		30		143855		29.889	29.98	31.980													4										
5		20		143955		19.467	3.040	31.968													5										
6		10		144110		10.096	3.759	31.898													6										
7		10		144200		10.299	3.343	31.932													7										
8		5		144215		5.588	4.574	31.825													8										
9		0		144255		1.837	4.578	31.832													9										
10		0		144344		1.825	4.584	31.831													10										
11																					11										
12																					12										

VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>MF 9507</u>		INITIALS: _____		CHECKED BY: _____		PAGE <u>50</u> of _____												
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= <u>137</u>		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID		
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR											MIN	
050	55	24.23	N	164	31.76	W	17	MA	79	5	15	19	4.6	3.5	15	27	20	00	66	154-2
ATTACHMENTS: <u>FILENAME: SCST01 CAST 50-17 MAY 1955</u> REMARKS (include alternate station designation if applicable): _____																				
CTD <u>9-11 plus</u>		LIGHT METER (V) _____		FLUOROMETER (N) <u>153</u>		OTHER: _____		OTHER: _____												
TYPE & SN <u>93430-209</u>		PRESS. SN <u>53586</u>		TEMP. SN <u>1455</u>		COND. SN <u>448</u>														

Position	#	Bot. Trip	Depth	T-track	Monitor Values				Sample Bottle Data				Sal. Bot. #	Chlor/ MZ	Other	Position
					Depth	Trip	Press.	Temp.	Salinity	-Cond-	Fluor.	ThermP				
1	50	✓	15205	15205	52.665	3.010	31.983	3.399					02	/		1
2	23		15205	15205	23.672	3.043	31.975	3.495						X/		2
3	23		15208	15208	23.514	3.048	31.974	3.254						X/	205 70502392	3
4	23		15215	15215	23.525	3.045	31.974	3.388						X/	70502341	4
5	5		15242	15242	5.488	4.480	31.830	3.291						X/	205 70500562	5
6	5		15248	15248	5.438	4.643	31.833	2.328						X/	70500562	6
7	5		15293	15293	5.448	4.635	31.834	2.743						X/	70500571	7
8														/		8
9														/		9
10														/		10
11														/		11
12														/		12

VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>ME 95 07</u>		INITIALS: <u>HC</u>		CHECKED BY: _____		PAGE <u>51</u> of _____															
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= <u>138</u>		TIME (GMT)		DRY BULB (° C)	WET BULB (° C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN			
05	15	42	5.9	5N	16	50	44	W	18	04	19	50	32	11	4.5	2.8	17	39	015	188	32	1102	158-1
CTD <u>9-11 plus</u>		ATTACHMENTS:		FILENAME: <u>cast 051-18 may 0315</u>																			
TYPE & SN <u>93450-209</u>		LIGHT METER (A)		REMARKS (include alternate station designation if applicable):																			
PRESS. SN <u>53586</u>		FLUOROMETER (N) <u>153</u>		max depth: <u>92 m</u>																			
TEMP. SN <u>1455</u>		OTHER: _____																					
COND. SN <u>448</u>		OTHER: _____																					

Position	Bot. #	Trip	Depth	TIME @	Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.					
1			600	92.000	3.411	32.544			0.385				9	1249	/		1
2															/		2
3			600	60.149	3.488	32.416			0.942					1248	/		3
4			50	50.007	3.565	32.196			1.512						X/		4
5			40	39.700	3.546	32.122			1.919						X/		5
6			30	29.980	3.513	32.032			1.874					1247	X/		6
7			20	20.044	3.490	31.947			2.478					1246	X/		7
8			10	10.249	3.554	31.832			2.602					1245	X/		8
9			0	2.227	3.556	31.833			3.107					1244	X/		9
10															/		10
11															/		11
12															/		12

VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>MF 95 07</u>		INITIALS: <u>AC</u>		CHECKED BY: _____		PAGE <u>52</u> of _____															
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE (mb, integer)	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID				
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR												MIN			
052	54	23.73	N	165	12.77	W	18	04	19	50	44	3	2	3	10	17	37	015	116	32	174	157	-1
ATTACHMENTS: CTD <u>9-11 plus</u> TYPE & SN <u>93450-209</u> PRESS. SN <u>53586</u> TEMP. SN <u>1455</u> COND. SN <u>748</u>																							
FILENAME: <u>SES107 Castos 2-18 MAY 2440</u> REMARKS (include alternate station designation if applicable): <u>may depth 100m</u>																							
Position	Bot. #	T-rack	Depth	TIME @	Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position						
					107 Press.	104 Temp.	106 Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.											
1			Bottom		102.055	3.507	32.726		0.389					1256		/	1						
2		✓	100		99.829	3.550	32.579		0.913				30	1255	/	2							
3			60		60.177	3.705	32.474		2.281					1254	/	3							
4			50		50.564	3.990	32.464		4.387						X/	4							
5			40		40.606	4.111	32.386		4.887						X/	5							
6			30		30.646	4.126	32.383		4.467					1253	X/	6							
7			20		19.966	4.186	32.354		4.221					1252	X/	7							
8			10		9.873	4.204	32.333		4.356					1251	X/	8							
9			0		1.714	4.197	32.329		3.694					1250	X/	9							
10															/	10							
11															/	11							
12															/	12							

VESSEL: <u>MILLER FLEISMAN</u>		PROJECT & LEG: <u>MF 9607</u>		INITIALS: <u>KC</u>		CHECKED BY: _____		PAGE <u>52</u> of _____									
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		WET BULB (°C)	DRY BULB (°C)	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID	
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR									MIN
053		N					9	5									
CTD <u>9-11 plus</u>		FILENAME: <u>CAST053-18may0618</u> REMARKS (include alternate station designation if applicable): <u>may depth: 87 m</u> <u>1 bottle didn't</u>															
TYPE & SN		ATTACHMENTS:															
PRESS. SN		LIGHT METER (V) _____															
TEMP. SN		FLUOROMETER (V) <u>153</u>															
COND. SN		OTHER: _____															
COND. SN		OTHER: <u>7418</u>															
Position	Bot. #	T-Track	Depth	TIME@	Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.					
1			<u>2440</u>		89.076	3.5702	32.643		0.682					32		/	1
2			<u>60</u>		60.153	3.582	32.597		0.732							/	2
3			<u>50</u>		50.005	3.588	32.584		0.976							/	3
4			<u>40</u>		39.712	3.612	32.554		1.185							/	4
5			<u>30</u>		29.672	3.674	32.496		1.611							/	5
6			<u>20</u>		19.742	3.788	32.434		2.613							/	6
7			<u>10</u>		10.009	3.916	32.409		3.479							/	7
8			<u>0</u>		1.100	3.921	32.407		3.566							/	8
9																/	9
10																/	10
11																/	11
12																/	12

VESSEL: <u>MILLER FREEMAN</u>		PROJECT & LEG: <u>MF-95-07</u>		INITIALS: <u>MC</u>		CHECKED BY: _____		PAGE <u>53</u> of _____																		
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD=		TIME (GMT)		DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID						
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR													MIN					
053	54	20.9	5	N	165	20.9	1	W	18	4	19	5	06	31	2.9	2.5	18	47	02	0	48	3	2	95	160	-1
ATTACHMENTS: CTD <u>9-11 plus</u> TYPE & SN <u>9345D-209</u> PRESS. SN <u>53586</u> TEMP. SN <u>1455</u> COND. SN <u>749</u>																										
REMARKS (include alternate station designation if applicable): <u>May depth 38 m</u>																										
FILENAME: <u>CAST 053-18 MAY 0629</u>																										

Position	Bot. #	Depth	T-track	TIME @				Monitor Values				Sample Bottle Data				Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
				Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.							
1				30		81.435	3.505	32.640			0.715				32	1262	/		1	
2				60		100.070	3.586	32.587			0.846					1261	/		2	
3				50		50.120	3.603	32.566			1.020						X/		3	
4				40		39.738	3.713	32.474			2.212						X/		4	
5				30		29.970	3.855	32.411			3.145					1260	X/		5	
6				20		19.968	4.032	32.386			3.850					1259	X/		6	
7				10		10.006	4.030	32.385			3.696					1258	X/		7	
8				0		1.504	4.029	32.384			3.650					1257	X/		8	
9																	/		9	
10																	/		10	
11																	/		11	
12																	/		12	