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VESSEL: <u>ABRAHAM MILLER FREEMAN</u> PROJECT & LEG: <u>MF-95-01</u>										INITIALS: _____ CHECKED BY: _____										PAGE <u>3</u> of _____							
CONSECUTIVE CAST NUMBER	LATITUDE				LONGITUDE				DATE JD= <u>54</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	SEC	DEC	DEG	MIN	SEC	DEC	DAY	MO	YR	HR	MIN														
<u>003</u>	<u>07</u>	<u>41</u>	<u>N</u>	<u>16</u>	<u>05</u>	<u>91</u>	<u>W</u>	<u>23</u>	<u>FE</u>	<u>09</u>	<u>05</u>	<u>02</u>	<u>27</u>	<u>-2</u>	<u>11</u>	<u>-3</u>	<u>06</u>	<u>14</u>	<u>35</u>	<u>14</u>	<u>0</u>	<u>16</u>	<u>07</u>	<u>7</u>	<u>11</u>	<u>0</u>	
CTD Plus										FILENAME: <u>cast-21-23 Feb. 0223</u>																	
TYPE & SN <u>93450-209</u>										REMARKS (include alternate station designation if applicable):																	
PRESS. SN <u>53586</u>										<u>clam in on K (but cable dead)</u>																	
TEMP. SN <u>1455</u>										<u>Tape Deck started Date!</u>																	
COND. SN <u>748</u>										<u>cast 21 in MDA entry 0906</u>																	

Position	#	Bot. Trip	Depth	TIME @	Monitor Values					Sample Bottle Data			Sal. Bot. #	Chlor/ MZ	Other	Position
					Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.				
1	2	91			91.05	3.573	38.515	30.139					32	/		1
2														/		2
3														/		3
4														/		4
5														/		5
6														/		6
7														/		7
8														/		8
9														/		9
10														/		10
11														/		11
12														/		12

[illegible]

VESSEL: <u>ABRAHAM MILLER FREEMAN</u> PROJECT & LEG: <u>MF-95-01</u>										INITIALS: _____ CHECKED BY: _____										PAGE <u>5</u> of <u>5</u>			
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD=54			TIME (GMT)			DRY BULB (°C)	WET BULB (°C)	BAR (mb, integer)	SEA STATE	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	SEC											
0065	59	23	N	165	17	S	17	59	W	23	FEB	95	04	53	-	0.5	-	0.5	1237	1102	2877	1115	
CTD Plus										FILENAME: <u>CAST-23-23FEB 0447</u>													
TYPE & SN <u>93450-209</u>										REMARKS (include alternate station designation if applicable):													
PRESS. SN <u>53586</u>																							
TEMP. SN <u>1455</u>																							
COND. SN <u>748</u>																							
ATTACHMENTS:																							
LIGHT METER (V) _____																							
FLUOROMETER (V) _____																							
OTHER: <u>GULAN (109)</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						10.0	3.300	32.510	29.833					19		/		1
2																/		2
3																/		3
4																/		4
5																/		5
6																/		6
7																/		7
8																/		8
9																/		9
10																/		10
11																/		11
12																/		12

[illegible]

VESSEL: <u>ABOAS MILLER FREEMAN</u> PROJECT & LEG: <u>MF-95-01</u>										INITIALS: _____ CHECKED BY: _____										PAGE <u>7</u> of _____			
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD= <u>54</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	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN	SEC											
754	52	27	N	165	39	17	W	23	FEB	06	52	+	1.7	+	11.5	1047	160	308	72	141			
CTD <u>Plus</u>										FILENAME: <u>CASI-25-23FEB0646</u>													
TYPE & SN <u>93450-209</u>										REMARKS (include alternate station designation if applicable):													
PRESS. SN <u>53586</u>																							
TEMP. SN <u>1455</u>																							
COND. SN <u>748</u>																							
ATTACHMENTS: LIGHT METER (✓) _____ FLUOROMETER (✓) _____ OTHER: <u>CLIMAX (100)</u> OTHER: _____																							

Position	#	Bot. #	Trip	Depth	TIME@	Monitor Values					Sample Bottle Data			Nutrient Bottle #	Chlor/ MZ	Other	Position
						Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.				
1	10	168	✓	0259	108.3	3.400	32.676	30.137						22	/		1
2															/		2
3															/		3
4															/		4
5															/		5
6															/		6
7															/		7
8															/		8
9															/		9
10															/		10
11															/		11
12															/		12

[illegible]

VESSEL: <u>ABRAHAM MILLER FREEMAN</u> PROJECT & LEG: <u>MF-95-01</u>										INITIALS: <u>SD</u> CHECKED BY: _____										PAGE <u>10</u> of _____									
CONSECUTIVE CAST NUMBER	LATITUDE			LONGITUDE			DATE JD= <u>54</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	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN																		
<u>1054</u>	<u>41</u>	<u>47</u>	<u>N</u>	<u>16</u>	<u>61</u>	<u>4</u>	<u>06</u>	<u>W</u>	<u>23</u>	<u>FE</u>	<u>09</u>	<u>51</u>	<u>10</u>	<u>3.6</u>	<u>3.0</u>	<u>113</u>	<u>200</u>	<u>16</u>	<u>86</u>	<u>2</u>	<u>28</u>	<u>8</u>							
CTD <u>Plus</u>										FILENAME: <u>C:\SEASOFT\CAS128.DAT</u>																			
TYPE & SN <u>93450-209</u>										REMARKS (include alternate station designation if applicable):																			
PRESS. SN <u>53586</u>										<u>towed not started till 88 m</u>																			
TEMP. SN <u>1455</u>										<u>276 m w/o</u>																			
COND. SN <u>748</u>										<u>CHLAM cable was bad prior to this cast</u>																			
ATTACHMENTS:																													
LIGHT METER (V) _____																													
FLUOROMETER (V) _____																													
OTHER: <u>CHLAM (109)</u>																													
OTHER: _____																													
TIME @		Monitor Values								Sample Bottle Data				Nutrient		Chlor/		Other		Position									
Bot. #	Trip	Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	CHLAM	ThermP	Avg. Tw	Sal.	Bot. #	Nutrient	Chlor/	Other	Position												
1				201.969	3.7803	33.0483		0.258					10		/		1												
2															/		2												
3															/		3												
4															/		4												
5															/		5												
6															/		6												
7															/		7												
8															/		8												
9															/		9												
10															/		10												
11															/		11												
12															/		12												

VESSEL: <u>ADAMS MILLER FREEMAN</u> PROJECT & LEG: <u>MF-95-01</u> INITIALS: <u>CD</u> CHECKED BY: _____										PAGE <u>11</u> of <u> </u>												
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= <u>54</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						
1154	34	66	N	166	08	42	W	23	F	09	51	2	9	11	37	20	51	18	56	11	420	
FILENAME: <u>C:\SEA\OFFICE\CAST29</u> REMARKS (include alternate station designation if applicable): <u>NO CHLOR/FLUOR</u> <u>w/o 413</u>																						
ATTACHMENTS: TYPE & SN <u>Plus</u> PRESS. SN <u>93450-209</u> TEMP. SN <u>53586</u> COND. SN <u>1455</u> LIGHT METER (V) _____ FLUOROMETER (N) _____ OTHER: <u>CHLOR (109)</u> OTHER: _____																						

Position	#	Bot. #	Trip	Depth	TIME@	Monitor Values				Sample Bottle Data			Nutrient	Bot. #	Chlor/	MZ	Other	Position
						Press.	Temp.	Salinity	Cond.	ThermP	Avg. Tw	Sal.						
1						414.489	3.9697	33.5681	0.265					15		/		1
2															/		2	
3															/		3	
4															/		4	
5															/		5	
6															/		6	
7															/		7	
8															/		8	
9															/		9	
10															/		10	
11															/		11	
12															/		12	

VESSEL: <u>NOAA'S MILLER FREEMAN</u> PROJECT & LEG: <u>MF-95-01</u> INITIALS: <u>CD</u> CHECKED BY: _____																							
CONSECUTIVE		LATITUDE		LONGITUDE		DATE JD= <u>54</u>		TIME (GMT)		WET BULB (°C)		WIND DIRECTION		WIND SPEED (kts)		CLOUD (amt)		WEATHER		BOTTOM DEPTH (m)		STA. NAME/ID	
CAST NUMBER		DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	°C	°C	(mb, integer)	VISIBILITY	WIND	WIND	TYPE						
1254	28.07	N	166	02	57	W	23	F	09	51	13	31	4.0	3.0	12	37	19	01	55	61	543		
C/D		Plus		ATTACHMENTS:		FILENAME: <u>C:\SEASOFT\CAST30</u>		REMARKS (include alternate station designation if applicable):															
TYPE & SN		93450-209		LIGHT METER (M)																			
PRESS. SN		53586		FLUOROMETER (M)																			
TEMP. SN		1455		OTHER: <u>CASTAN (109)</u>																			
COND. SN		748		OTHER:																			

TIME@		Monitor Values				Sample Bottle Data				Sal.		Nutrient		Chlor/		Other		Position	
Bot. #	Track	Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.	Bot. #	Nutrient	Bot. #	MZ				
1		1337	1126	388.60	13.9757	33.5663						03			/			1	
2															/			2	
3															/			3	
4															/			4	
5															/			5	
6															/			6	
7															/			7	
8															/			8	
9															/			9	
10															/			10	
11															/			11	
12															/			12	

VESSEL: <u>MOORE MILLER FRESH PROJECT & LEG: MF-95-01</u>										INITIALS: <u>CS</u> CHECKED BY: _____										PAGE <u>13</u> of _____				
CONSECUTIVE	CAST NUMBER	LATITUDE			LONGITUDE			DATE JD= <u>54</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	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN												
13	5421	32	N	16	55	64	11	W	23	F	18	54	3.5	3.0	12	38	150	183	61	479				
CID		Plus												FILENAME: <u>C:\SEASOFT\CAS131</u>										
TYPE & SN		93450-209												REMARKS (include alternate station designation if applicable):										
PRESS. SN		53586												36.471										
TEMP. SN		1455																						
COND. SN		748																						

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					468.971	3.9112	33.6477		0.260				28		/		1
2															/		2
3															/		3
4															/		4
5															/		5
6															/		6
7															/		7
8															/		8
9															/		9
10															/		10
11															/		11
12															/		12

VESSEL: <u>ABOAS MILLER FREEMAN</u> PROJECT & LEG: <u>MF-95-01</u>										INITIALS: <u>SO</u> CHECKED BY: _____										PAGE <u>14</u> of _____												
CONSECUTIVE CAST NUMBER	LATITUDE				LONGITUDE				DATE JD= <u>54</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	SEC	DEG	MIN	SEC	DAY	MO	YR	HR	MIN																					
1	4	5	4	1	4	9	5	N	1	6	5	4	9	6	9	W	2	3	F	E	3	9	5	1	5	5	5	3	6	1	7	9
CTD		Plus		FILENAME: <u>C:/SEASOFT/CAST32</u>																												
TYPE & SN		93450-209		REMARKS (include alternate station designation if applicable):																												
PRESS. SN		53586		<u>w/o 72</u>																												
TEMP. SN		1455																														
COND. SN		748																														
ATTACHMENTS:																																
LIGHT METER (M)																																
FLUOROMETER (M)																																
OTHER: <u>CHLOR (109)</u>																																
OTHER:																																

Position	#	Bot. Trip	Depth	TIME @	Monitor Values					Sample Bottle Data			Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
					Press.	Temp.	Salinity	Cond.	CHLOR Fluor.	ThermP	Avg. Tw	Sal.					
1					72.823	22.8978	32.4303		0.277				30		/		1
2															/		2
3															/		3
4															/		4
5															/		5
6															/		6
7															/		7
8															/		8
9															/		9
10															/		10
11															/		11
12															/		12

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VESSEL: <u>ADAMS MILLER FREEMAN</u>		PROJECT & LEG: <u>MF-95-01</u>		INITIALS: <u>CH</u>		CHECKED BY: _____		PAGE <u>18</u> of <u>18</u>												
CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= <u>54</u>		TIME (GMT)		WET BULB (°C)	WIND DIRECTION	WIND SPEED (kts)	WIND TYPE	WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID					
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR								MIN				
11854	27.2	N	165	00.0	4	W	23	Feb	9	5	20	27	2.8	21.5	1437	155	220	6Z	53	
CTD <u>plus</u>		ATTACHMENTS:		FILENAME: <u>CAS36</u>		REMARKS (include alternate station designation if applicable): <u>W/O 4Z NOA entry 240</u>														
TYPE & SN <u>93450-709</u>		LIGHT METER (V) _____																		
PRESS. SN <u>53586</u>		FLUOROMETER (V) _____																		
TEMP. SN <u>1455</u>		OTHER: <u>CHLORAM (109)</u>																		
COND. SN <u>748</u>		OTHER: _____																		
Position	#	Bot.	Trip	Depth	TIME@	Monitor Values				Sample Bottle Data			Sal.	Bot. #	Nutrient	Chlor/	MZ	Other	Position	
						Press.	Temp.	Salinity	Cond.	Chloram	Floor.	ThermP								Avg. Tw
1					2033	31.214	1.6675	31.5255						27			/		1	
2																	/		2	
3																	/		3	
4																	/		4	
5																	/		5	
6																	/		6	
7																	/		7	
8																	/		8	
9																	/		9	
10																	/		10	
11																	/		11	
12																	/		12	