

CONSECUTIVE CAST NUMBER		LATITUDE		LONGITUDE		DATE JD = 141		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				
010	154	20	01	165	25	10	W	21	14	9	03	49	7.4	5	5	01	28	1	45	08	23	1	150	

CTD	TYPE & SN	912201	LIGHT METER (V)	
	PRESS. SN	25084	FLUOROMETER (V)	
	TEMP. SN	031455	OTHER:	
	COND. SN	748	OTHER:	

ATTACHMENTS:

FILENAME: CAST001-21MAY0343

REMARKS (include alternate station designation if applicable):
max depth 140
UNIMARK PASS

Position	Bot. #	Trip	Depth	T-rack	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				✓	50.3	55.30	112.746	3.6145	32.6546		.587628			32.6403	15					/		1
2																				/		2
3																				/		3
4																				/		4
5																				/		5
6																				/		6
7																				/		7
8																				/		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 (mb, integer)	SEA STATE	VISIBILITY	WIND DIRECTION	WIND SPEED (kts)	CLOUD (amt)	TYPE WEATHER	BOTTOM DEPTH (m)	STA. NAME/ID
00	02	54	22.30	N	165	16.34	W	21	MAY	95	04	43	9.0	7.0	001	38	115	05231	164	

CTD	TYPE & SN	912201	LIGHT METER (V)	✓	ATTACHMENTS:	FILENAME: <u>CAST002-21 MAY 0437</u>
	PRESS. SN	25084	FLUOROMETER (V)	✓		REMARKS (include alternate station designation if applicable):
	TEMP. SN	031455	OTHER:			<u>No action this cruise.</u>
	COND. SN	748	OTHER:			

Position	Bot. #	Trip	Depth	T-rack	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							1562360	35.712	32.6560		0.287505			32.6719	25			/		1
2																		/		2
3																		/		3
4																		/		4
5																		/		5
6																		/		6
7																		/		7
8																		/		8
9																		/		9
10																		/		10
11																		/		11
12																		/		12

UN/MATL 17455

[illegible]

VESSEL:		PROJECT & LEG:		INITIALS:		CHECKED BY:		PAGE	
<i>Miller Freeman</i>		<i>MFS 08</i>		<i>LH/LR</i>				<i>1</i> of <i>1</i>	
CONSECUTIVE CAST NUMBER		LATITUDE		LONGITUDE		DATE JD =		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN		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	
TYPE & SN		PRESS. SN		TEMP. SN		COND. SN		ATTACHMENTS:	
CID		LIGHT METER (N)		FLUOROMETER (N)		OTHER:		FILENAME:	
<i>912201</i>		<i>25084</i>		<i>031455</i>		<i>748</i>		<i>CASD004-21MAN 0631</i>	
POSITION		Bot. #		Trip		Depth		T-rack	
TIME @		Press.		Temp.		Salinity		Cond.	
Depth		Trip		Fluor.		ThermP		Avg. Tw	
Sal.		Bot. #		Nutrient Bottle #		Chlor/ MZ		Other	
Position		Position		Position		Position		Position	
1		✓		35.30		10:3		47.0284	
2								3.6569	
3								31.9048	
4								27.9106	
5								11.593733	
6									
7									
8									
9									
10									
11									
12									
REMARKS (include alternate station designation if applicable): <i>No action this cruise</i> <i>UNIMARK PASS</i>									

[illegible]

VESSEL: Milla Freeman PROJECT & LEG: W-9508 INITIALS: JD CHECKED BY: _____ PAGE 6 of _____

[illegible]

[illegible]

[illegible]

VESSEL:		PROJECT & LEG:		INITIALS:		CHECKED BY:		PAGE																							
<i>Miller Freeman</i>		<i>M-9508</i>						<i>10 of 1</i>																							
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	
Q1055		30.5N		156.4E		144		14		5.2		5.1		49		7200		04862		131		147									
CID	TYPE & SN	PRESS. SN	TEMP. SN	COND. SN	ATTACHMENTS:	FILENAME:	REMARKS (include alternate station designation if applicable):																								
<i>912201</i>	<i>25084</i>	<i>031455</i>	<i>748</i>	<i>748</i>	<i>LIGHT METER (V) ✓</i>	<i>CAST 010-24 MAY</i>	<i>No current TMS cruise.</i> <i>GRID STA L7</i> <i>Max depth = 123 m</i>																								
Position	Bot. #	Trip	Depth	T-rack	TIME @	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.	Sat. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position													
1	18		✓	23.38		101.6692	39.090	31.5903	29.9816	.096134				32		/		1													
2	33	40				90.4125	4.1778	31.8684	30.0494	.3120					207	X /		2													
3	27	30				30.0118	4.3203	31.8219	30.1481	0.4694					206	X /		3													
4	34	20				20.1672	4.4051	31.7812	30.1624	0.3150					205	X /		4													
5	22	10				9.7669	4.6727	31.7885	30.0028	0.9093					204	X /		5													
6	31	0				2.1405	4.7031	31.7884	30.4248	0.4558					203	X /		6													
7																/		7													
8																/		8													
9																/		9													
10																/		10													
11																/		11													
12																/		12													

[illegible]

VESSEL: Miller FreemanPROJECT & LEG: ME9508INITIALS: DD

CHECKED BY: _____

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CAST
NUMBER

LATITUDE

LONGITUDE

DATE JD= 145TIME
(GMT)DRY
BULB
(°C)WET
BULB
(°C)BAR.
(mb, integer)

SEA STATE

VISIBILITY

WIND
DIRECTIONWIND
SPEED (kts)

CLOUD (amt)

TYPE

WEATHER

BOTTOM
DEPTH
(m)54-1
H-9
STA.
NAME/ID

DEG MIN

DEG MIN

DAY MO YR HR MIN

(°C)

(°C)

(mb, integer)

SEA STATE

VISIBILITY

WIND

SPEED (kts)

TYPE

WEATHER

54-1
H-9
STA.
NAME/ID

CID

ATTACHMENTS:

FILENAME: CAST012 - 25 MAY 0814

TYPE & SN

912201

LIGHT METER (N)

✓

PRESS. SN

25084

FLUOROMETER (N)

✓

TEMP. SN

031455

OTHER:

COND. SN

748

OTHER:

REMARKS (include alternate station designation if applicable):

No action this cruiseHaul #1 on Sta 54MOA # 302wire out 118m

Position Bot. # Trip Depth T-rack

TIME @

Monitor Values

Sample Bottle Data

Sal.

Nutrient

Chlor/

Other

Position

Depth Trip

Press.

Temp.

Salinity

Cond.

Fluor.

Thermp

Avg. Tw

Sal.

Bot. #

Bottle

MZ

Other

Position

1

MAX 9

AST

119.084

4.0310

32.0481

30.1396

0.0812

/

1

2

18

100

✓

082100

0826

101.468

4.0402

31.8890

30.0042

0.0990

20

/

2

3

33

40

0828

40.550

4.4490

31.7761

30.2199

0.2320

217

X/

3

4

27

30

0829

30.441

4.5749

31.7559

30.3024

0.1492

216

X/

4

5

34

20

0830

20.075

4.6055

31.7330

30.3035

0.1843

215

X/

5

6

22

10

0830

10.175

4.9489

31.7048

30.5597

0.1798

214

X/

6

7

31

0

0831

1.405

5.1081

31.7086

30.6916

0.1943

213

X/

7

8

/

8

9

/

9

10

/

10

11

/

11

12

/

12

VESSEL: Miller FreemanPROJECT & LEG: MF9508INITIALS: DD

CHECKED BY: _____

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CAST
NUMBER

LATITUDE

LONGITUDE

DATE JD= 145TIME
(GMT)DRY
BULB
(°C)WET
BULB
(°C)BAR
(mb, integer)

SEA STATE

VISIBILITY

WIND
DIRECTIONWIND
SPEED (kts)

CLOUD (amt)

TYPE
WEATHERBOTTOM
DEPTH
(m)STA.
NAME/ID

DEG MIN

DEG MIN

DAY MO YR

HR MIN

(°C)

(°C)

0135553.08N

15727.65W

25MAY195

102905.064.81137

862

92

F7

CTD

ATTACHMENTS:

FILENAME: CAST013 - 25MAY1024

TYPE & SN

912201

LIGHT METER (N)

✓

PRESS. SN

25084

FLUOROMETER (N)

✓

TEMP. SN

031455

OTHER:

OTHER:

COND. SN

718

OTHER:

REMARKS (include alternate station designation if applicable): Repeat of Station 44-1

No action this cruise

Haul #1 on Station 55

wire out way - 85M

MDA #310

Monitor Values

Sample Bottle Data

Position	Bot. #	Trip	Depth	T-rack	Depth	Trip	Press.	Temp.	Salinity	Cond.	Fluor.	Thermp	Avg. Tw	Sal.	Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
----------	--------	------	-------	--------	-------	------	--------	-------	----------	-------	--------	--------	---------	------	-------------	-------------------	-----------	-------	----------

1		MAX	CAST		1029		86.225	4.0190	32.0023	30.0765	0.2052				-			/		1
---	--	-----	------	--	------	--	--------	--------	---------	---------	--------	--	--	--	---	--	--	---	--	---

2															-			/		2
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	--	---	--	---

3	33	40			1030		40.2049	4.2370	31.9762	30.2155	0.7230				35	222	X/		3
---	----	----	--	--	------	--	---------	--------	---------	---------	--------	--	--	--	----	-----	----	--	---

4	27	30			1031		29.907	4.2892	31.9694	30.2485	1.2288					221	X/		4
---	----	----	--	--	------	--	--------	--------	---------	---------	--------	--	--	--	--	-----	----	--	---

5	34	20			1032		19.978	4.4045	31.9664	30.3376	1.8030					220	X/		5
---	----	----	--	--	------	--	--------	--------	---------	---------	--------	--	--	--	--	-----	----	--	---

6	22	10			1033		10.148	4.6836	31.9663	30.5659	1.5863					219	X/		6
---	----	----	--	--	------	--	--------	--------	---------	---------	--------	--	--	--	--	-----	----	--	---

7	31	0			1034		1.095	4.7461	31.9666	30.6144	0.9962					218	X/		7
---	----	---	--	--	------	--	-------	--------	---------	---------	--------	--	--	--	--	-----	----	--	---

8																		/		8
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	---

9																		/		9
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	---

10																		/		10
----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	----

11																		/		11
----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	----

12																		/		12
----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	----

VESSEL: Miller FreemanPROJECT & LEG: ME9508INITIALS: JD

CHECKED BY: _____

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CAST
NUMBER

LATITUDE

LONGITUDE

DATE JD= 145TIME
(GMT)DRY
BULB
(°C)WET
BULB
(°C)BAR.
(mb, integer)

SEA STATE

VISIBILITY

WIND
DIRECTIONWIND
SPEED (kts)

CLOUD (amt)

TYPE

WEATHER

BOTTOM
DEPTH
(m)58
D9
STA.
NAME/ID

DEG MIN

DEG MIN

DAY MO YR HR MIN

06.11

05.20

0828

2825

0646

1115

150

D9

0165608.24N

15728.00W

25MAY95

1554

06.11

05.20

0828

2825

0646

1115

150

D9

CTD

ATTACHMENTS:

FILENAME: CAST016-25MAY1549

TYPE & SN

LIGHT METER (N)

REMARKS (include alternate station designation if applicable):

MOA # 324

PRESS. SN

FLUOROMETER (N)

No action this cruise

TEMP. SN

OTHER:

Haul #1 on Station 58

COND. SN

OTHER:

May wire out 141 m

Position

Bot. #

Trip

Depth

T-rack

TIME @

Depth

Trip

Press.

Temp.

Salinity

Cond.

Fluor.

Thermp

Avg. Tw

Sal.

Bot. #

Nutrient

Bottle

#

Chlor/

M2

Other

Position

1

MAN

CAST

1555

143.277

2.8582

31.9129

29.0697

0.0866

2

3

33

40

1558

40.855

4.0792

31.8385

29.9675

0.6731

9

237

X/

4

27

30

1559

31.067

4.4068

31.8059

30.2065

1.1766

5

34

20

1600

21.006

4.4793

31.8057

30.2620

1.4790

6

22

10

1600

11.098

4.5253

31.8053

30.2956

1.6793

7

31

0

1601

1.675

4.7728

31.8051

30.4968

0.7346

8

9

10

11

12

12

[illegible]

VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>MS 9508</u>		INITIALS: <u>DD</u>		CHECKED BY: _____		PAGE <u>18</u> of _____	
CONSECUTIVE CAST NUMBER		LATITUDE		LONGITUDE		DATE JD= <u>145</u>		TIME (GMT)	
DEG MIN		DEG MIN		DAY MO YR		HR MIN		DRY BULB (°C)	
01 85 61 6.14 N		15 71 41.15 W		25 MAY 95		19 32		4.3	
WET BULB (°C)		BAR. (mb, integer)		SEA STATE		VISIBILITY		WIND DIRECTION	
4.2		06		21		220		10	
WIND SPEED (kts)		CLOUD (amt)		TYPE		WEATHER		BOTTOM DEPTH (m)	
04		-4		-4		137		111	
STATION NAME/ID		60							
CTD		ATTACHMENTS:		FILENAME: <u>CAST 018-25MAY1927</u>					
TYPE & SN		LIGHT METER (V)		✓					
PRESS. SN		FLUOROMETER (V)		✓					
TEMP. SN		OTHER:							
COND. SN		OTHER:							
748									
REMARKS (include alternate station designation if applicable):		FOCI Grid Sta D11		No current time cause		Haul #1 on Sta 60			
Position		Bot. #		Trip		Depth		T-rack	
TIME @		Press.		Temp.		Salinity		Cond.	
1		MAX DEPTH		1932		128.617		3.4503	
2		18		✓		193410 1939		81.038	
3		33		40		1941		410.667	
4		27		30		1942		30.2120	
5		34		20		20.2465		4.5326	
6		22		10		10.1401		4.7397	
7		31		0		1.3360		4.7390	
8								31.7377	
9								30.4434	
10								0.07324	
11									
12									

[illegible]

VESSEL: Miller FreemanPROJECT & LEG: MF 7508INITIALS: JD

CHECKED BY: _____

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CAST
NUMBER

LATITUDE

LONGITUDE

DATE JD= 146TIME
(GMT)DRY
BULB
(°C)WET
BULB
(°C)BAR
(mb, integer)

SEA STATE

VISIBILITY

WIND
DIRECTIONWIND
SPEED (kts)

CLOUD (amt)

TYPE

WEATHER

BOTTOM
DEPTH
(m)FOX 148
67
STA
NAME/ID

DEG MIN

DEG MIN

DAY MO YR

HR MIN

05.305.00112711201118811135

02056211.51N15652.02W26MAY95084705.305.00112711201118811135

02056211.51N15652.02W26MAY95084705.305.00112711201118811135

02056211.51N15652.02W26MAY95084705.305.00112711201118811135

02056211.51N15652.02W26MAY95084705.305.00112711201118811135

02056211.51N15652.02W26MAY95084705.305.00112711201118811135

02056211.51N15652.02W26MAY95084705.305.00112711201118811135

02056211.51N15652.02W26MAY95084705.305.00112711201118811135

02056211.51N15652.02W26MAY95084705.305.00112711201118811135

02056211.51N15652.02W26MAY95084705.305.00112711201118811135

02056211.51N15652.02W26MAY95084705.305.00112711201118811135

02056211.51N15652.02W26MAY95084705.305.00112711201118811135

ATTACHMENTS:

FILENAME: CAST020-26MAY0843

TYPE & SN

9/2201

LIGHT METER (V) ✓

REMARKS (include alternate station designation if applicable):

MOA # 374

PRESS. SN

25084

FLUOROMETER (V) ✓

No altim this cruise

May wire out 129 m

TEMP. SN

031456

OTHER: _____

FOX Station 148 Line 16

Cruise Station 67 Haul #1

COND. SN

748

OTHER: _____

Cruise Station 67 Haul #1

May wire out 129 m

Monitor Values

Sample Bottle Data

Sal.

Bot. #

Nutrient
Bottle #

Chlor/

M2

Other

Position

Position

#

Bot. #

Trip

Depth

T-rack

TIME @

Depth

Trip

Press.

Temp.

Salinity

Cond.

Fluor.

ThermP

Avg. Tw

Sal.

Bot. #

Nutrient
Bottle #

Chlor/

M2

Other

Position

1

5

MAX

0848

131.028

39.659

31.8712

29.9456

0.0835

0.0835

0.0835

0.0835

0.0835

0.0835

0.0835

0.0835

0.0835

0.0835

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0.0835

0.0835

0.0835

0.0835

0.0835

Position

#

Bot. #

Trip

Depth

T-rack

TIME @

Depth

Trip

Press.

Temp.

Salinity

Cond.

Fluor.

ThermP

Avg. Tw

Sal.

Bot. #

Nutrient
Bottle #

Chlor/

M2

Other

Position

1

7

75

0850

75.076

4.3469

31.7342

30.1143

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

0.0897

Position

#

Bot. #

Trip

Depth

T-rack

TIME @

Depth

Trip

Press.

Temp.

Salinity

Cond.

Fluor.

ThermP

Avg. Tw

Sal.

Bot. #

Nutrient
Bottle #

Chlor/

M2

Other

Position

1

3

33

50

0852

50.428

4.7266

31.7180

30.4040

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

0.0985

Position

#

Bot. #

Trip

Depth

T-rack

TIME @

Depth

Trip

Press.

Temp.

Salinity

Cond.

Fluor.

ThermP

Avg. Tw

Sal.

Bot. #

Nutrient
Bottle #

Chlor/

M2

Other

Position

1

4

27

40

0853

39.874

4.8876

31.6688

30.4901

0.1254

0.1254

0.1254

0.1254

0.1254

0.1254

0.1254

0.1254

0.1254

0.1254

0.1254

0.1254

0.1254

0.1254

0.1254

0.1254

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Position

#

Bot. #

Trip

Depth

T-rack

TIME @

Depth

Trip

Press.

Temp.

Salinity

Cond.

Fluor.

ThermP

Avg. Tw

Sal.

Bot. #

Nutrient
Bottle #

Chlor/

M2

Other

Position

1

5

34

30

0854

30.735

4.8860

31.6625

30.4794

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VESSEL: Miller Freeman PROJECT & LEG: μ9508 INITIALS: JD CHECKED BY: _____ PAGE 21 of _____

CONSECUTIVE CAST NUMBER	LATITUDE		LONGITUDE		DATE JD= <u>146</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)	FOX 149 STA. NAME/ID									
	DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN																			
021	56	23	87	N	15	65	4	99	W	26	MAY	95	10	02	05	6	05	11	01	27	13	01	48	82	1	28		

TYPE & SN	<u>912201</u>	LIGHT METER (V)	<u>✓</u>
PRESS. SN	<u>25084</u>	FLUOROMETER (V)	<u>✓</u>
TEMP. SN	<u>031455</u>	OTHER:	
COND. SN	<u>748</u>	OTHER:	
ATTACHMENTS:			
FILENAME: <u>CAST 021 - 26 MAY 0958</u>			
REMARKS (include alternate station designation if applicable): <u>Cast made with wrong bottle size config on rosette - second unlogged cast to 50 m to get 102 bottle sample for MZ</u>			

Position	Bot. #	Trip	Depth	T-rack	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	MAX CAST					1002	123.676	4.0082	32.0053	30.0862	0.0680														1
2	18	120	✓	100340	1009	118.317	4.0100	32.0045	30.0848	0.0715					22	848	/								2
3	5	75			1011	74.568	4.5761	31.7112	30.2838	0.0985						847	/								3
4	7	50			1013	50.715	4.6357	31.6672	30.2848	0.0997						—	/								4
5	33	40			1014	40.620	4.6555	31.6373	30.2710	0.1065						845	X/X								5
6	27	30			1015	30.745	4.9197	31.6092	30.4610	0.1605						844	X/X								6
7	34	20			1015	20.396	5.1875	31.6155	30.6841	0.1575						843	X/X								7
8	22	10			1016	10.435	5.3614	31.6122	30.8214	0.1530						842	X/X								8
9	31	0			1017	1.416	5.4006	31.6214	30.8583	0.1429						841	X/X								9
10	29	50			1024	—	—	—	—	—						846	X/X								10
11																	/								11
12																	/								12

VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>MF 9508</u>		INITIALS: <u>JD</u>		CHECKED BY: _____		PAGE <u>22</u> of _____	
CONSECUTIVE CAST NUMBER		LATITUDE		LONGITUDE		DATE JD = <u>146</u>		TIME (GMT)	
022	5626.51N	15657.19W	26	MAY	95	1126	0511	0510	0127115
022	5626.51N	15657.19W	26	MAY	95	1126	0511	0510	0127115
CTD		ATTACHMENTS:		FILENAME: <u>CAST 022 - 26MAY1121</u>		DRY BULB (°C)		WET BULB (°C)	
TYPE & SN <u>912201</u>		LIGHT METER (V) <u>✓</u>		REMARKS (include alternate station designation if applicable):		BAR (mb, integer)		SEA STATE	
PRESS. SN <u>25084</u>		FLUOROMETER (V) <u>✓</u>		No <u>anion</u> <u>THIS CAUSE</u>		VISIBILITY		WIND DIRECTION	
TEMP. SN <u>031455</u>		OTHER: _____		FOX Station 150		WIND SPEED (kts)		CLOUD (amt)	
COND. SN <u>748</u>		OTHER: _____		Cruise Station 69 Haw #1		TYPE WEATHER		BOTTOM DEPTH (m)	
				Max Wire out = 99		WEATHER		FOX 150	
						WIND SPEED (kts)		69	
						CLOUD (amt)		STA. NAME/ID	
						TYPE WEATHER			
						WIND SPEED (kts)			
						CLOUD (amt)			
						TYPE WEATHER			
						WIND SPEED (kts)			
						CLOUD (amt)			
						TYPE WEATHER			
						WIND SPEED (kts)			
						CLOUD (amt)			
						TYPE WEATHER			
						WIND SPEED (kts)			
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						WIND SPEED (kts)			
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						TYPE WEATHER			
						WIND SPEED (kts)			
						CLOUD (amt)			

VESSEL:		PROJECT & LEG:		INITIALS:		CHECKED BY:		PAGE									
<i>Miller Freeman</i>		<i>MFS 08</i>		<i>DD</i>				<i>23 of</i>									
CONSECUTIVE CAST NUMBER		LATITUDE		LONGITUDE		DATE JD-		TIME (GMT)									
DEG MIN		DEG MIN		DAY MO YR		HR MIN		DRY BULB (°C)									
0235634.93N		15654.73W		26MAY95		142905.304.8993708020.862		129									
CID		ATTACHMENTS:		FILENAME:		CAST #23-26MAY1423		71-1									
TYPE & SN PRESS. SN TEMP. SN COND. SN		LIGHT METER (V) FLUOROMETER (V) OTHER: OTHER:		REMARKS (include alternate station designation if applicable): <i>No other than this cruise</i> <i>Cruise Station 71 Haul #1</i> <i>Live Tow Station</i> <i>Wire out 127m</i>		MOA #389											
9/2201 25084 031455 748		✓ ✓ 															
Position	Bot. #	Trip	Depth T-rack	Monitor Values					Sample Bottle Data			Sal.	Nutrient Bottle #	Chlor/ MZ	Other	Position	
				TIME @	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.	Bot. #	Bottle #			
				Depth	Trip												
1	MAY	CAST			1429	122.215	3.6952	31.7389	29.6016	0.0940					/		1
2															/		2
3	33	60			1432	61.395	4.5544	31.6112	30.1738	0.1096					/X		3
4	27	50			1433	49.525	4.6508	31.6041	30.2421	0.1158					/X		4
5	34	40			1434	40.407	4.6951	31.6022	30.2732	0.1175					/X		5
6	22	30			1435	30.366	4.7654	31.5982	30.3235	0.1184					/X		6
7	31	20			1435	20.685	5.0170	31.5874	30.5181	0.1200					/X		7
8	29	10			1436	10.819	5.2207	31.5577	30.6568	0.1211					/X		8
9															/		9
10															/		10
11															/		11
12															/		12

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VESSEL: <u>Miller Freeman</u>			PROJECT & LEG: <u>M75-08</u>			INITIALS: <u>DD</u>			CHECKED BY: _____			PAGE <u>30</u> of ____					
CONSECUTIVE CAST NUMBER			LATITUDE			LONGITUDE			DATE JD = <u>148</u>			TIME (GMT)					
DEG MIN			DEG MIN			DAY MO YR			HR MIN			DRY BULB (°C)					
												WET BULB (°C)					
												BAR (mb, integer)					
												SEA STATE					
												VISIBILITY					
												WIND DIRECTION					
												WIND SPEED (kts)					
												CLOUD (amt)					
												TYPE WEATHER					
												BOTTOM DEPTH (m)					
												FOX 60 97-1 STA NAME/ID					
CTD			ATTACHMENTS:			FILENAME: <u>CAST 030 - 28 MAY 1337</u>											
TYPE & SN			<u>912201</u>			LIGHT METER (N) <u>✓</u>			REMARKS (include alternate station designation if applicable):			MOA # <u>531</u>					
PRESS. SN			<u>25084</u>			FLUOROMETER (N) <u>✓</u>			No other than cruise								
TEMP. SN			<u>031455</u>			OTHER:			Fox Line 8, Station 60.								
COND. SN			<u>748</u>			OTHER:			Cruise Station 97, Haul #1								
									May wire out = 288 m								
Position	Bot. #	Trip Depth	T-rack	TIME @	Press.	Temp.	Salinity	Cond.	Fluor.	ThermP	Avg. Tw	Sal.	Sal. Bot. #	Nutrient Bottle #	Chlor/ MZ	Other	Position
1	23	MAX			1348	275.155	4.6343	30.7092	31.2810	0.0678				269	/		1
2	9	250			1350	251.432	4.4291	32.5158	30.9302	0.0475				268	/		2
3	18	150 ✓	135430	1359	152.122	4.5031	32.2545	30.7248	0.0503				25	267	/		3
4	5	100			1401	99.052	4.6187	32.1352	30.6959	0.0586				266	/		4
5	7	75			1402	74.696	4.8900	32.0296	30.8212	0.0974				265	/		5
6	33	50			1404	50.645	5.3054	31.9134	31.0572	0.2786				264	X /		6
7	27	40			1404	40.885	5.5033	31.8847	31.1936	0.3801				263	X /		7
8	34	30			1405	31.100	5.5163	31.8845	31.2002	0.3921				262	X /		8
9	22	20			1406	20.956	5.5141	31.8848	31.1942	0.4021				261	X /		9
10	31	10			1407	11.009	5.5269	31.8841	31.2000	0.4033				260	X /		10
11	29	0			1407	2.503	5.5224	31.8847	31.1932	0.4002				259	X /		11
12															/		12

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VESSEL: <u>Miller Freeman</u>		PROJECT & LEG: <u>MS 9508</u>		INITIALS: _____		CHECKED BY: _____		PAGE <u>34</u> of _____	
CONSECUTIVE CAST NUMBER		LATITUDE		LONGITUDE		DATE JD= <u>148</u>		TIME (GMT)	
DEG	MIN	DEG	MIN	DAY	MO	YR	HR	MIN	
03	4	5	7	30	9	4	1	5	8
CTD		ATTACHMENTS:		FILENAME: <u>CAST 034 - 28 MAY</u>					
TYPE & SN		LIGHT METER (N)		REMARKS (include alternate station designation if applicable):					
PRESS. SN		FLUOROMETER (N)		No <u>Chlorin</u> THIS <u>CRUISE</u>					
TEMP. SN		OTHER:		FOX Line 8 Station 56					
COND. SN		OTHER:		Cruise Station 101 Haul #1					
				Mof wire out =					
Position		Bot. #		Trip		Depth		T-rack	
1									
2		18		MAX					
3		23		150					
4		5		100					
5		7		75					
6		33		50					
7		27		40					
8		34		30					
9		22		20					
10		31		10					
11		29		0					
12									
TIME @		Depth		Trip		Press.		Temp.	
1									
2		18		MAX		201.8471		9.3040	
3		23		150		149.6501		4.2482	
4		5		100		100.6468		4.5146	
5		7		75		135.4072		4.6815	
6		33		50		50.6979		4.7452	
7		27		40		39.9400		4.9185	
8		34		30		50.1299		5.2514	
9		22		20		20.0523		5.2815	
10		31		10		10.0117		5.2969	
11		29		0		2.1186		5.2978	
12									
Monitor Values		Salinity		Cond.		Fluor.		ThermP	
1									
2		18		MAX		32.4638		30.7587	
3		23		150		32.2849		30.5360	
4		5		100		32.2026		30.6675	
5		7		75		32.1559		30.7562	
6		33		50		32.0912		30.7430	
7		27		40		32.0200		30.8217	
8		34		30		30.9647		0.21896	
9		22		20		30.8000		0.2455	
10		31		10		30.9241		0.2463	
11		29		0		30.9211		0.2438	
12									
Sample Bottle Data		Sal.		Bot. #		Nutrient Bottle #		Chlor/ MZ	
1									
2		18		MAX		29		77	
3		23		150		76		76	
4		5		100		75		75	
5		7		75		74		74	
6		33		50		73		73	
7		27		40		72		72	
8		34		30		71		71	
9		22		20		70		70	
10		31		10		69		69	
11		29		0		68		68	
12									
Other		Position		Position		Position		Position	
1									
2		18		MAX		29		77	
3		23		150</					