



**City of New York
Department of Environmental Protection
New York, New York**

APPENDIX B

NEWTOWN CREEK WATER POLLUTION CONTROL PROJECT EAST RIVER WATER QUALITY PLAN

TASK 10.0 SYSTEM-WIDE EUTROPHICATION MODEL (SWEM)

SUBTASK 10.4 CALIBRATE SWEM WATER QUALITY

SUBTASK 10.6 VALIDATE SWEM WATER QUALITY

**Prepared under subcontract to:
Greeley and Hansen
115 Broadway, Suite 13B
New York, NY 10006-1604**

April 2001
Project No: GRHN0020/209

HydroQual, Inc.
Environmental Engineers and Scientists

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HydroQual, Inc., One Lethbridge Plaza
Mahwah, New Jersey 07435

APPENDIX B

CALIBRATION DIAGRAMS 1994-95 CONDITIONS

APPENDIX B

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SPATIAL DISTRIBUTIONS

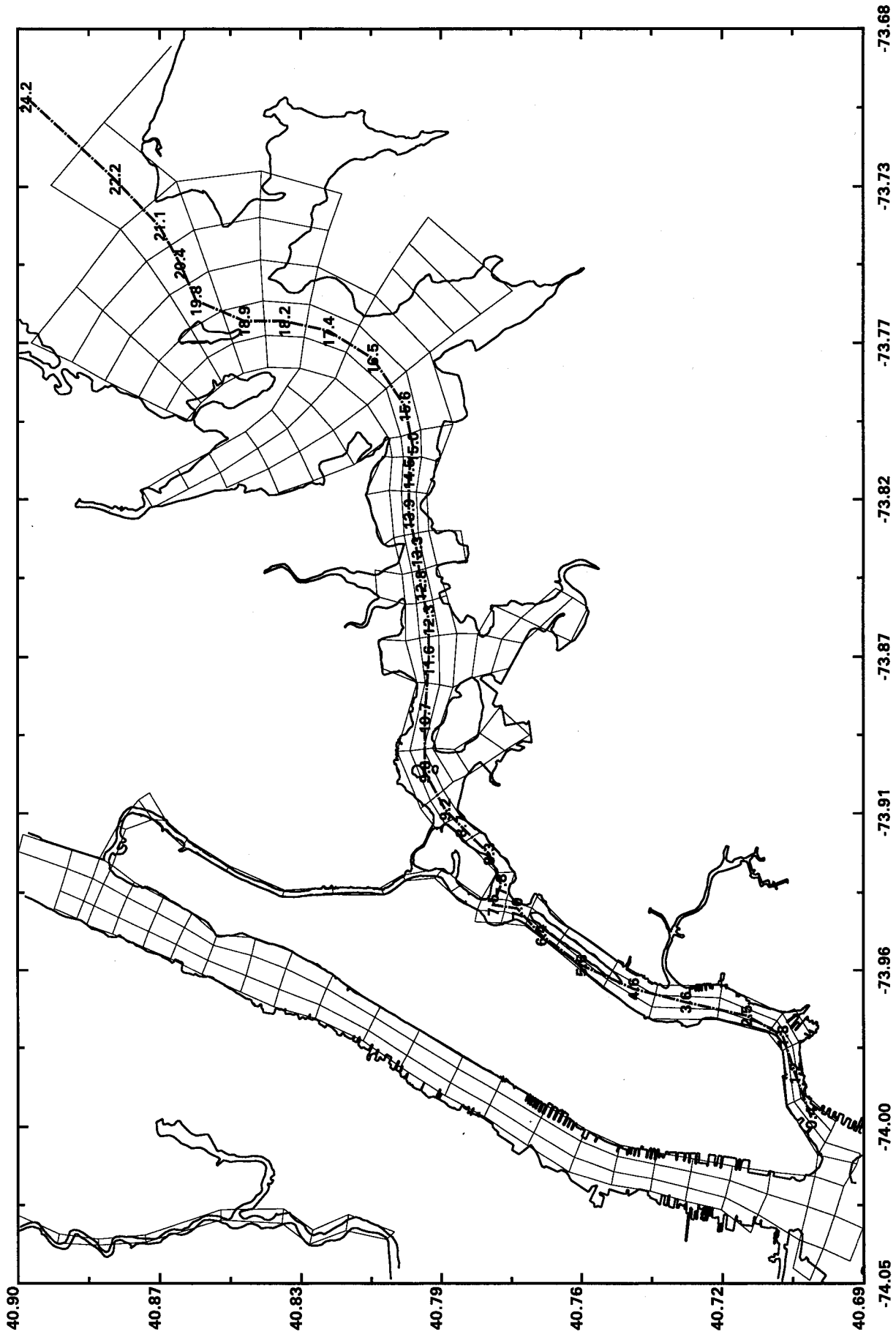
EAST RIVER, LONG ISLAND SOUND
HUDSON RIVER, UPPER BAY, LOWER BAY
HARLEM RIVER
RARITAN RIVER, RARITAN BAY, NORTH TRANSECT
RARITAN RIVER, RARITAN BAY, SOUTH TRANSECT
KILL VAN KULL, ARTHUR KILL
HACKENSACK RIVER, NEWARK BAY
PASSAIC RIVER
CONEY ISLAND, JAMAICA BAY
N.Y. BIGHT EAST-WEST TRANSECT 1
N.Y. BIGHT EAST-WEST TRANSECT 2
N.Y. BIGHT EAST-WEST TRANSECT 3
N.Y. BIGHT EAST-WEST TRANSECT 4
N.Y. BIGHT EAST-WEST TRANSECT 5
N.Y. BIGHT NORTH-SOUTH TRANSECT 1
N.Y. BIGHT NORTH-SOUTH TRANSECT 2

TEMPORAL DISTRIBUTIONS

MAP LOCATIONS FOR TEMPORAL COMPARISONS
LOWER EAST RIVER
UPPER EAST RIVER
LONG ISLAND SOUND
HUDSON RIVER, UPPER BAY, LOWER BAY
HARLEM RIVER
NEWARK BAY, KILL VAN KULL, ARTHUR KILL
RARITAN BAY
JAMAICA BAY
NEW YORK BIGHT

SEDIMENT FLUXES

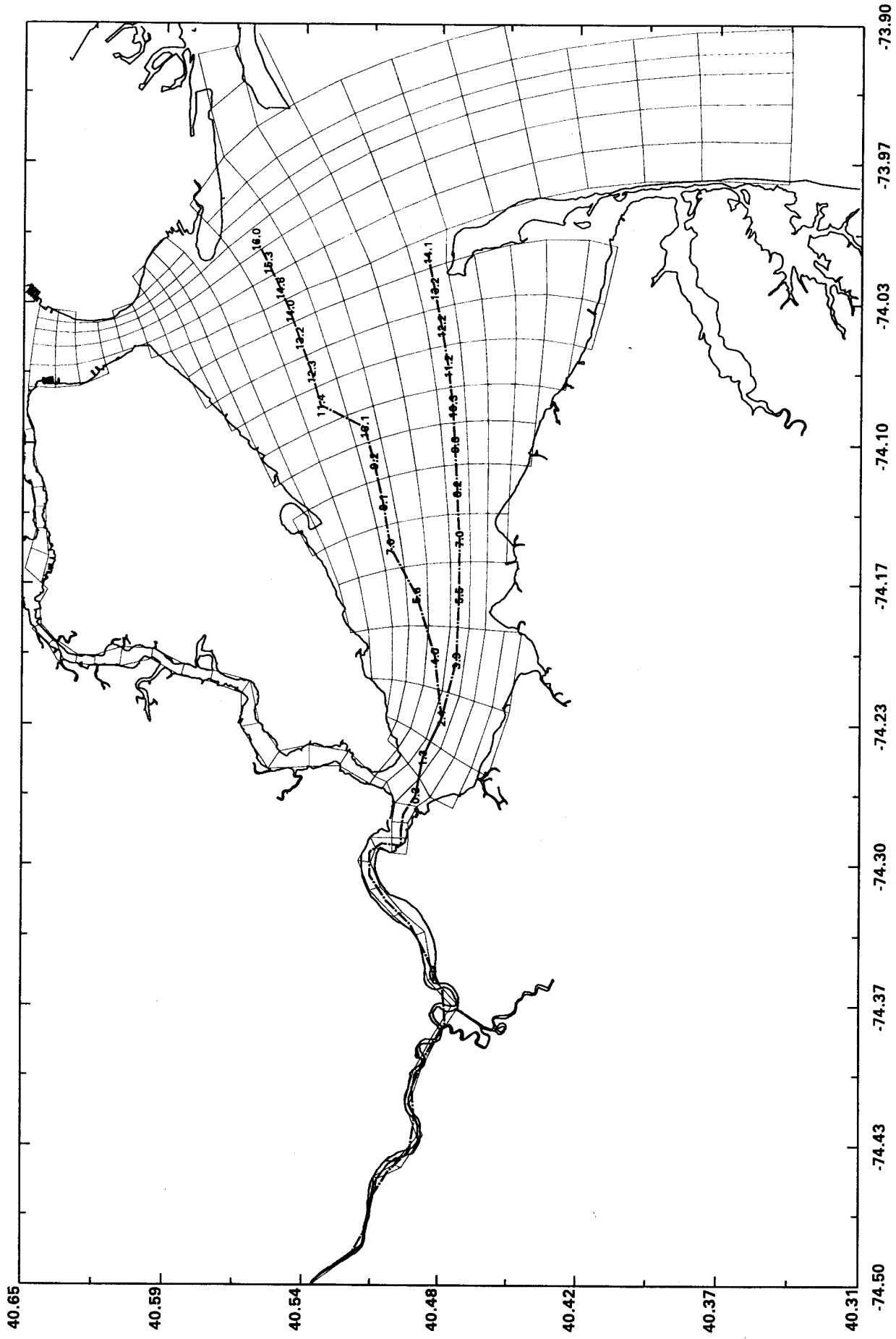
TRANSECT LOCATION MAPS



Model Grid of East River and Long Island Sound SWEM Transect

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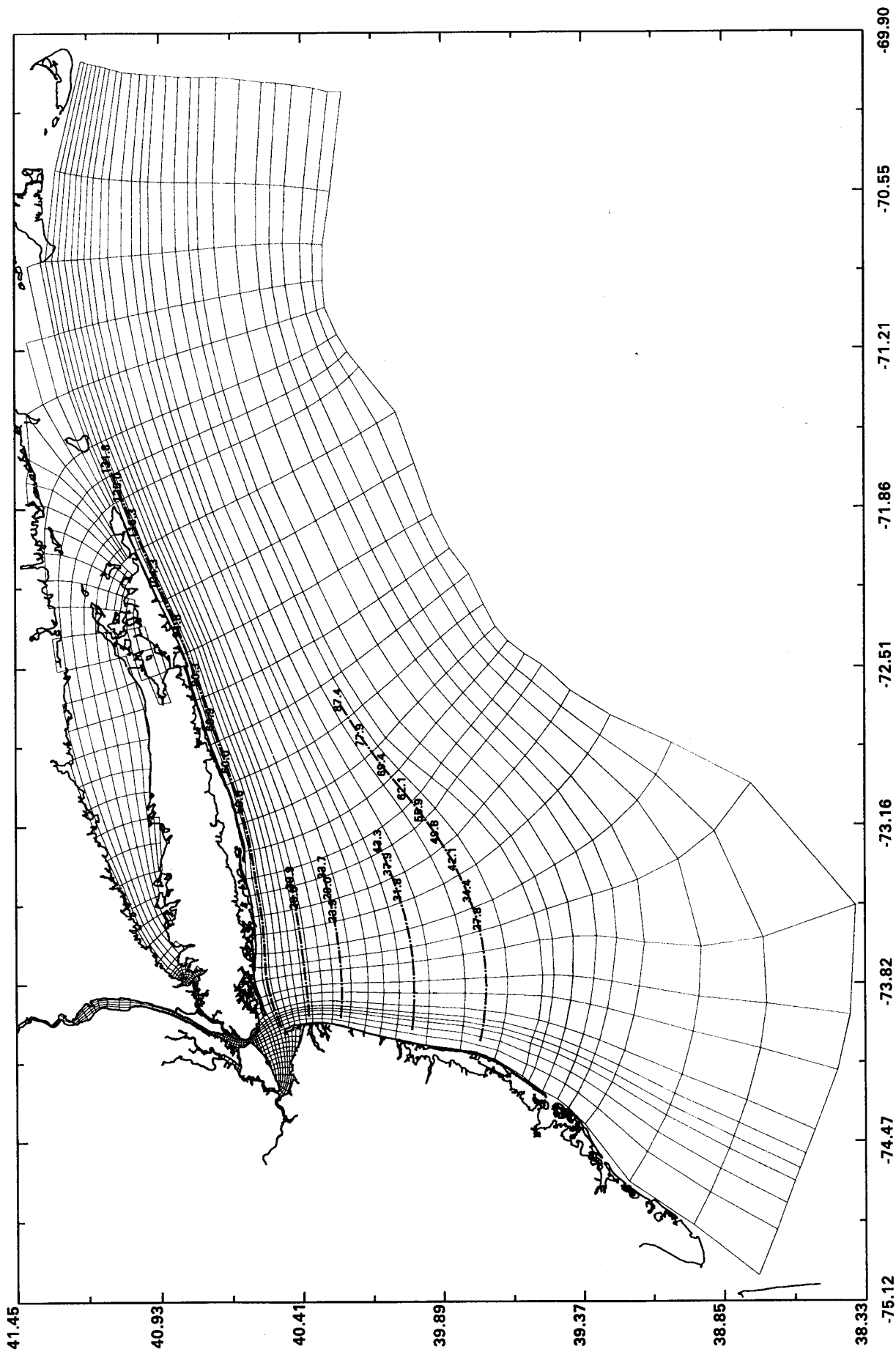
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Model Grid of New York Harbor SWEM Raritan Bay North-South Transects

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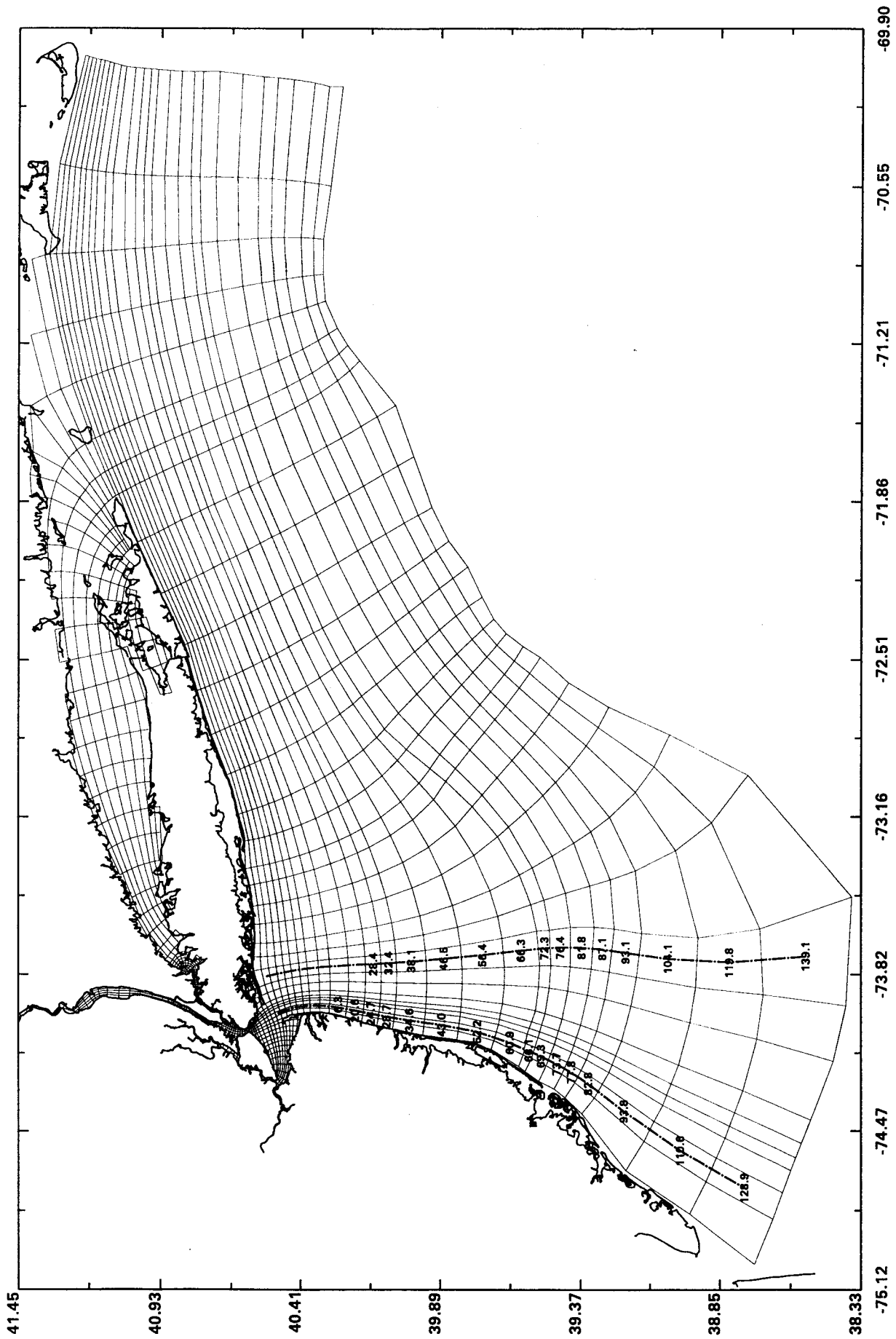
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Model Grid of New York Bight SWEM East-West Transects

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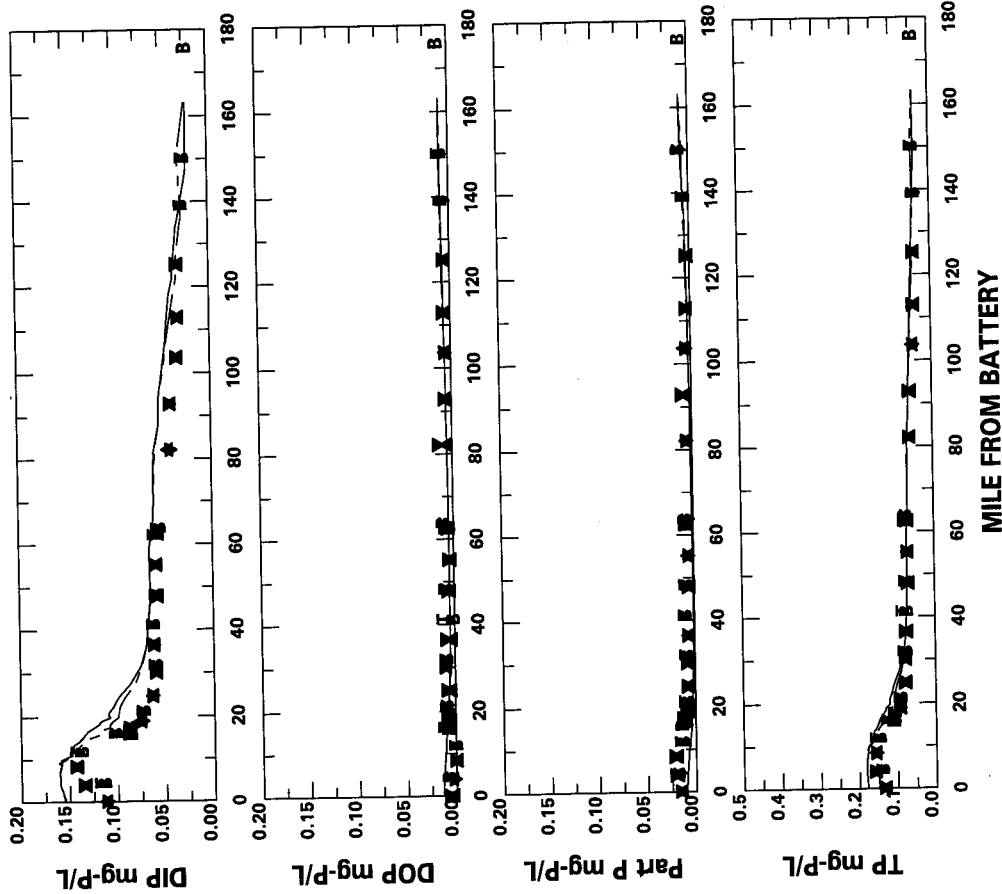
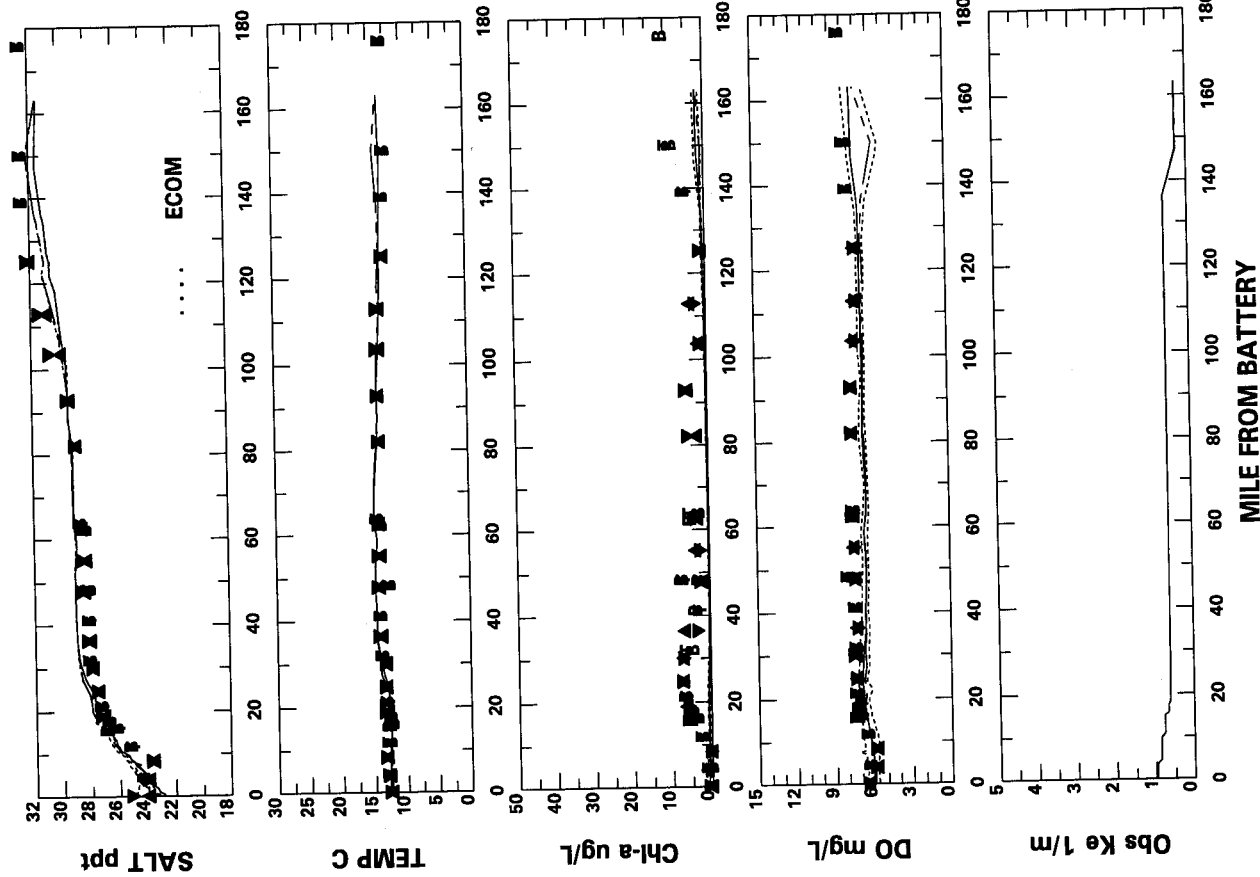


Model Grid of New York Bight SWEM North-South Transects

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**SPATIAL DISTRIBUTIONS OF
EAST RIVER, LONG ISLAND SOUND**



DATA

Battelle Nov 12-17, 1994

NYCDEP 11/94

CT DEP 11/94

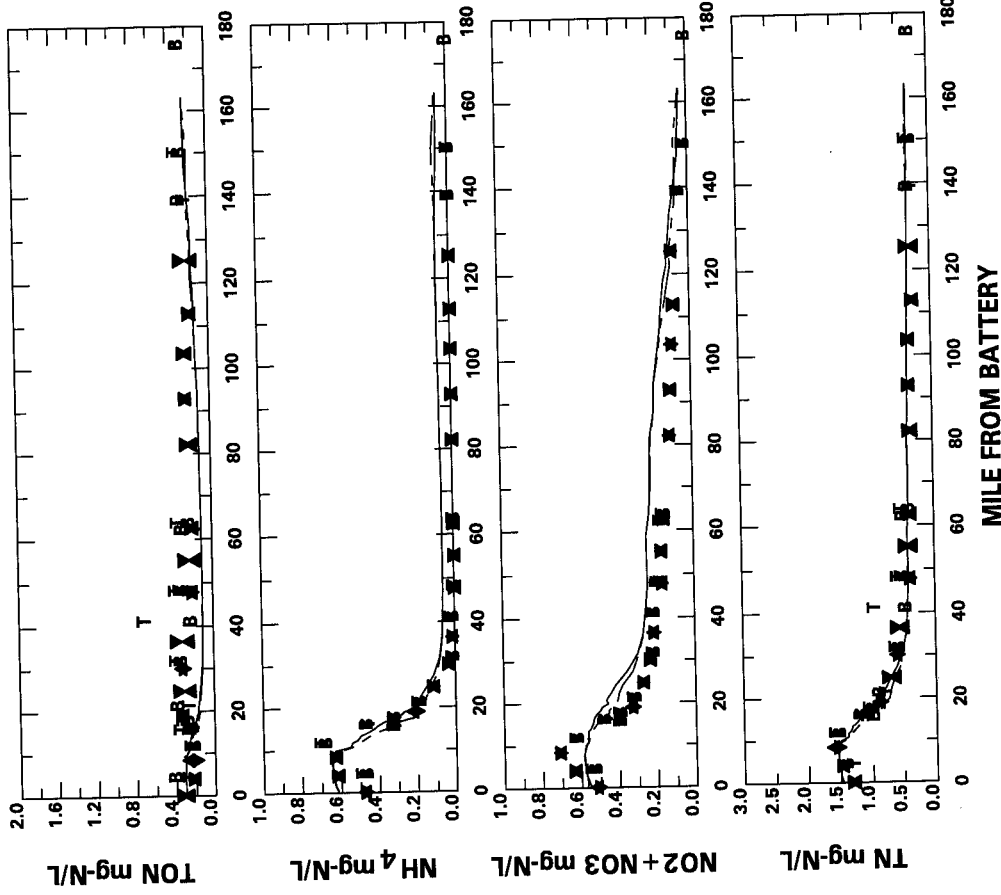
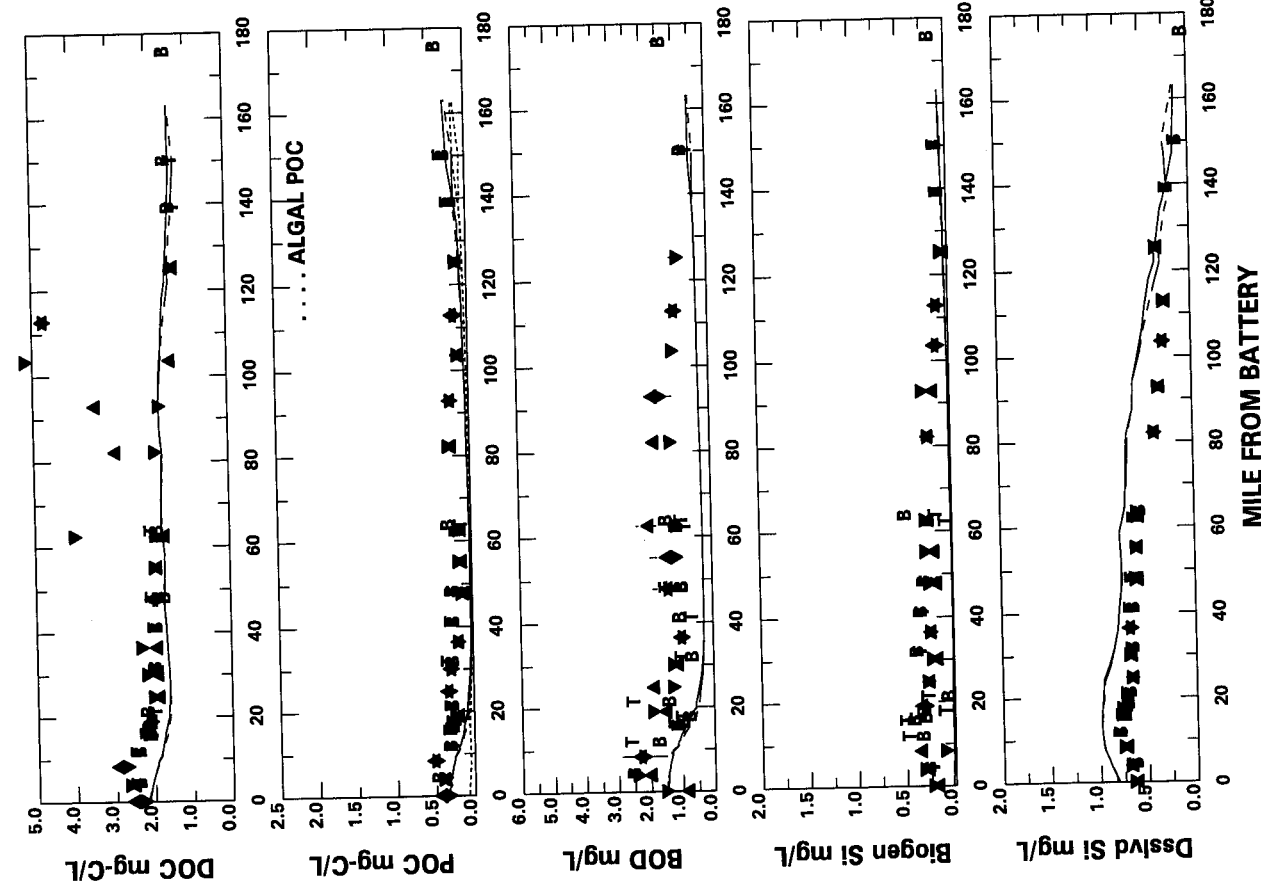
SURF BOT

▲ ▼ Transect
T B Embayment
○ △ Transect
t b Embayment
□ ▽ Transect
s c Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Nov 12-17, 1994

NYCDEP 11/94

CT DEP 11/94

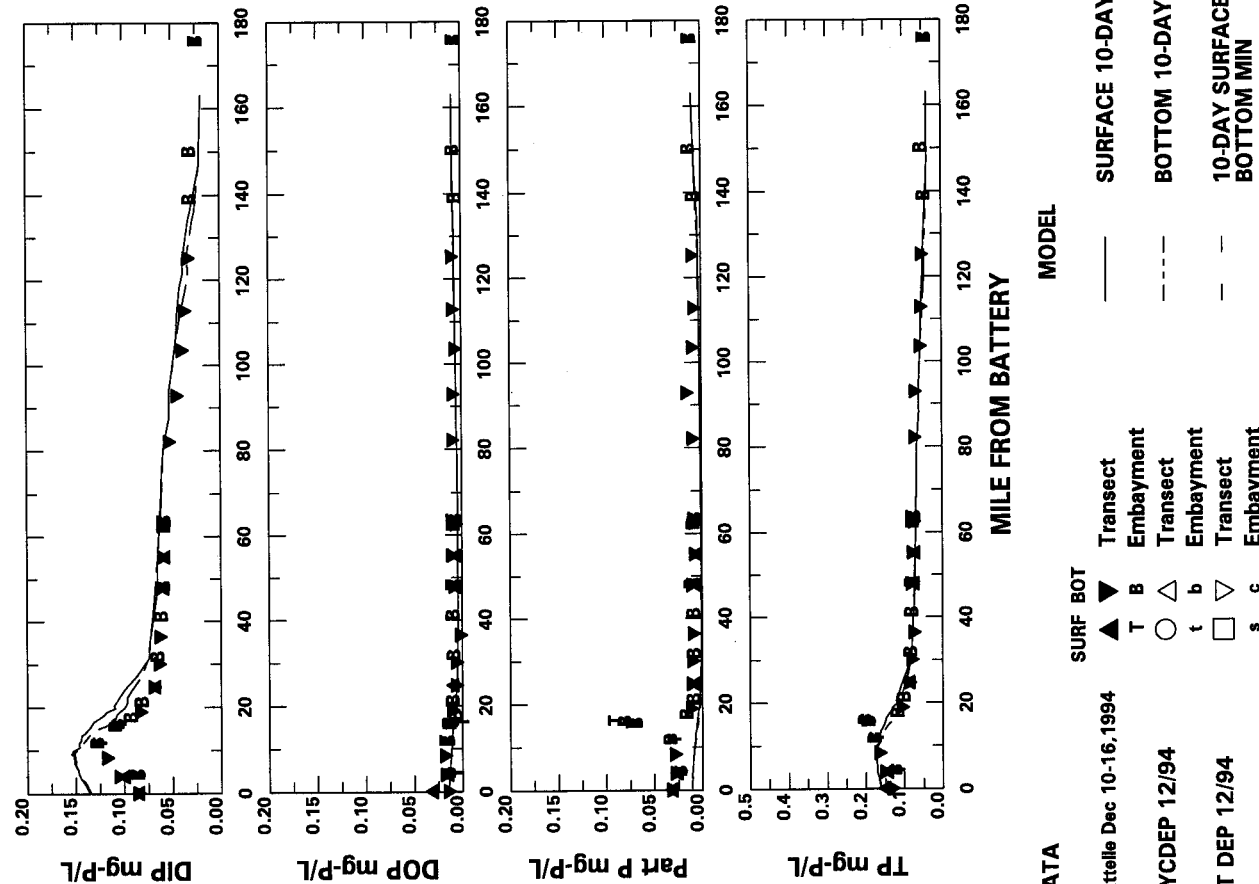
SURF BOT

▲ ▼ Transect
 T B Embayment
 ○ △ Transect
 t b Embayment
 □ ▽ Transect
 s c Embayment

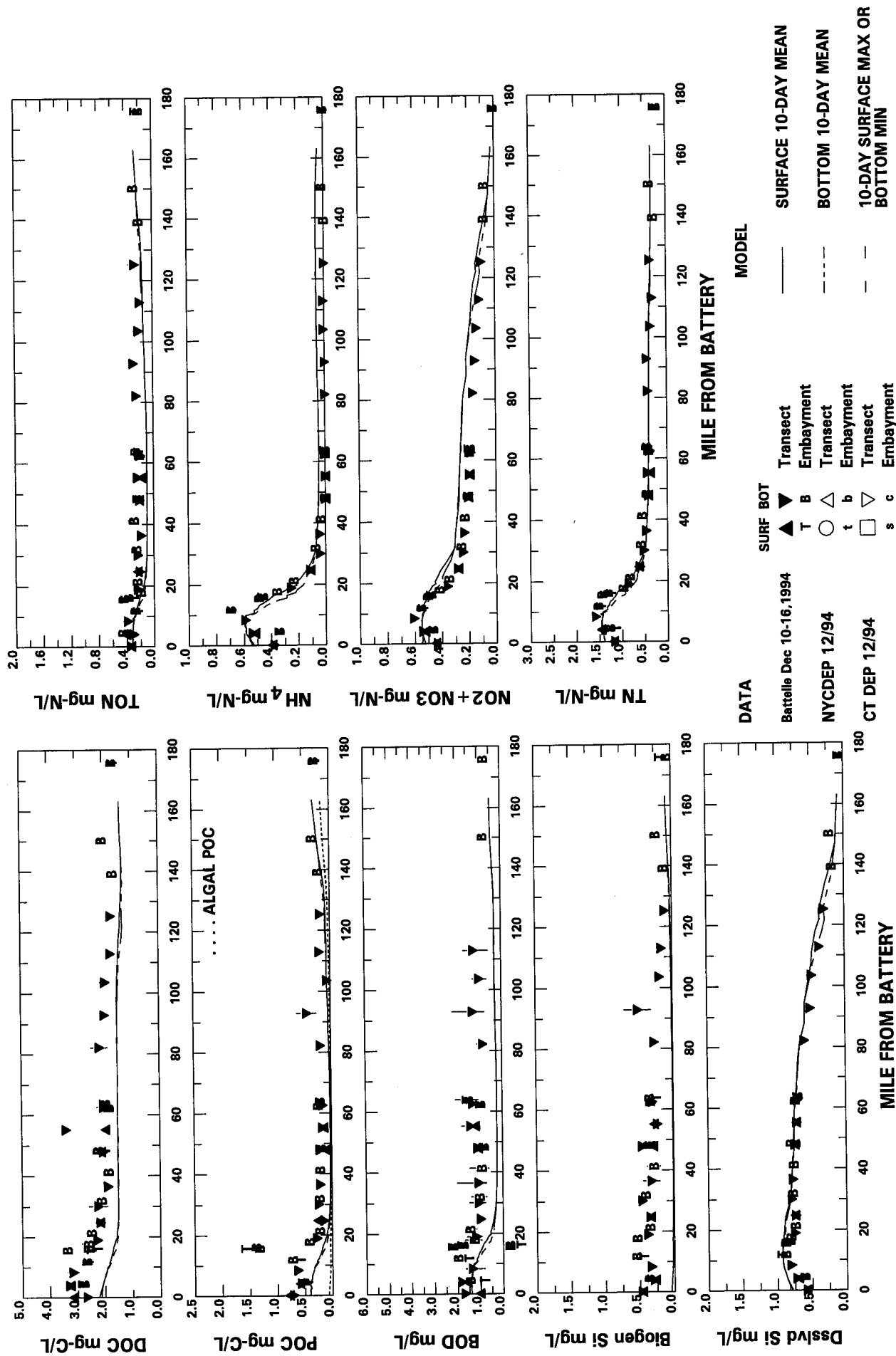
MODEL

— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR BOTTOM MIN

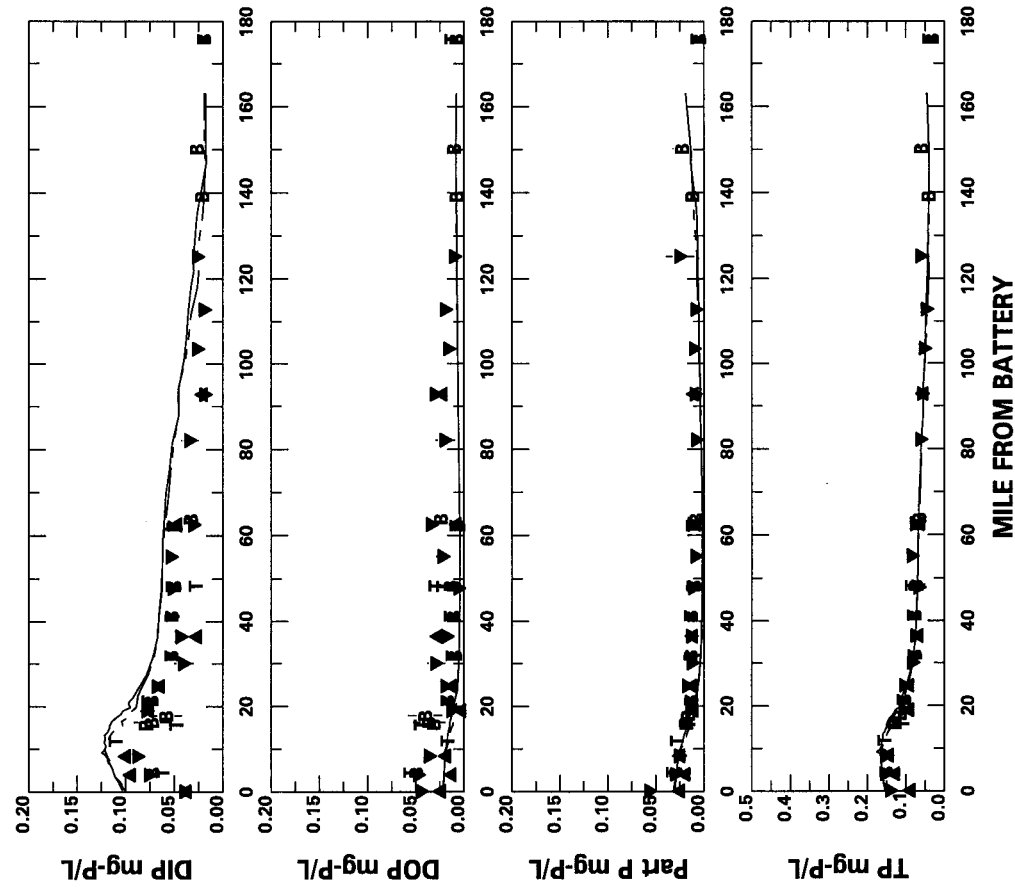
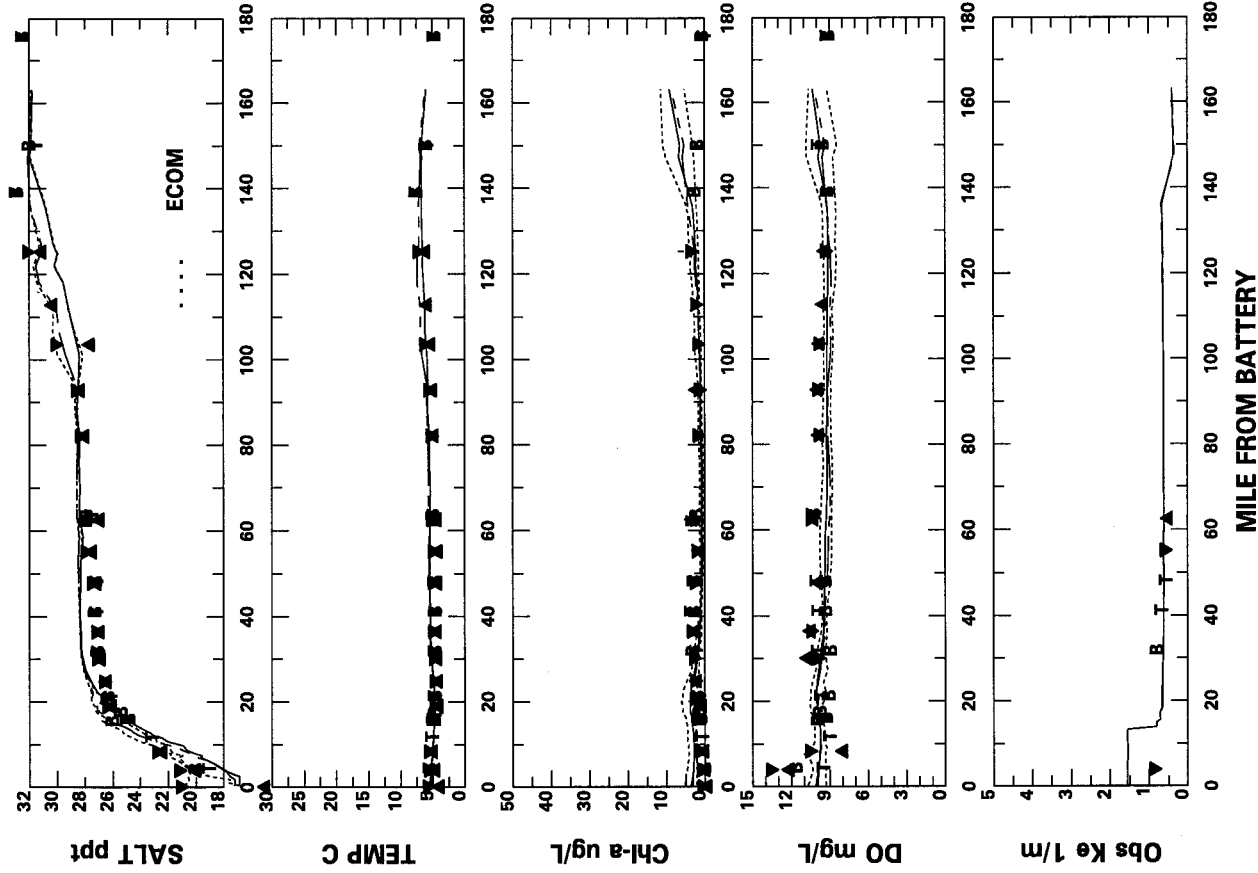
EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



DATE: Wed Apr 29 TIME: 14:13:15



EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Jan 23-31, 1995

NYCDEP 1/95

CT DEP 1/95

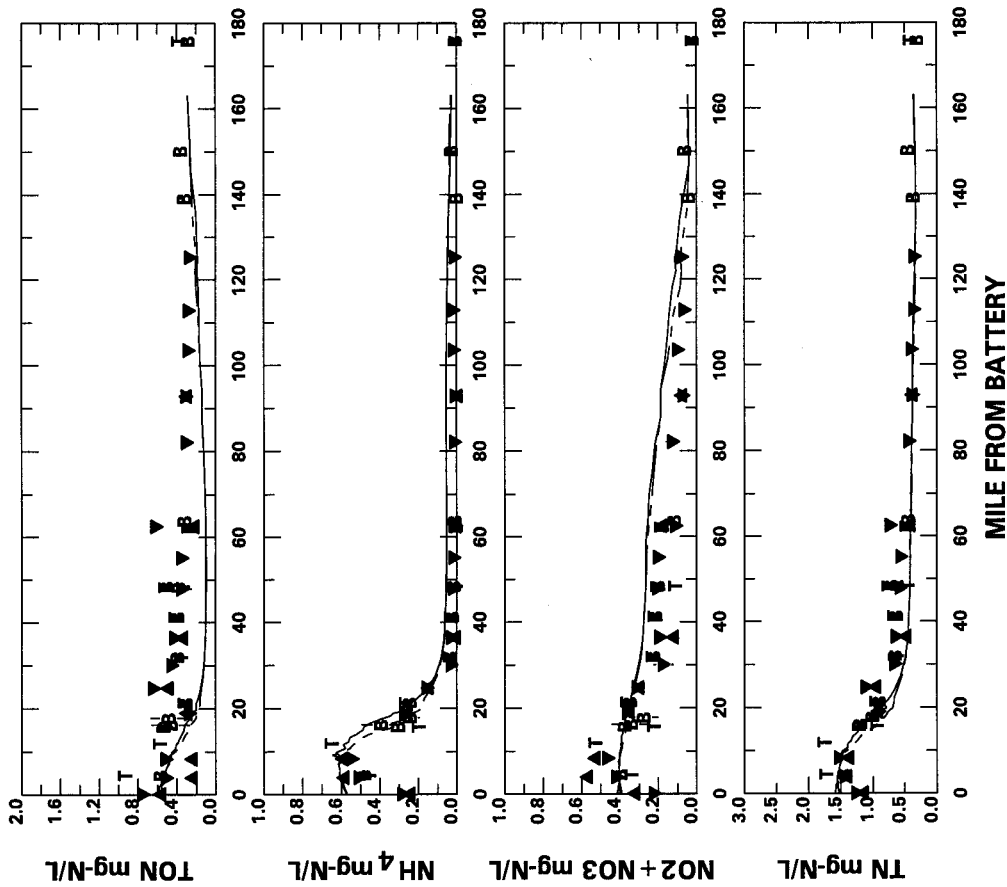
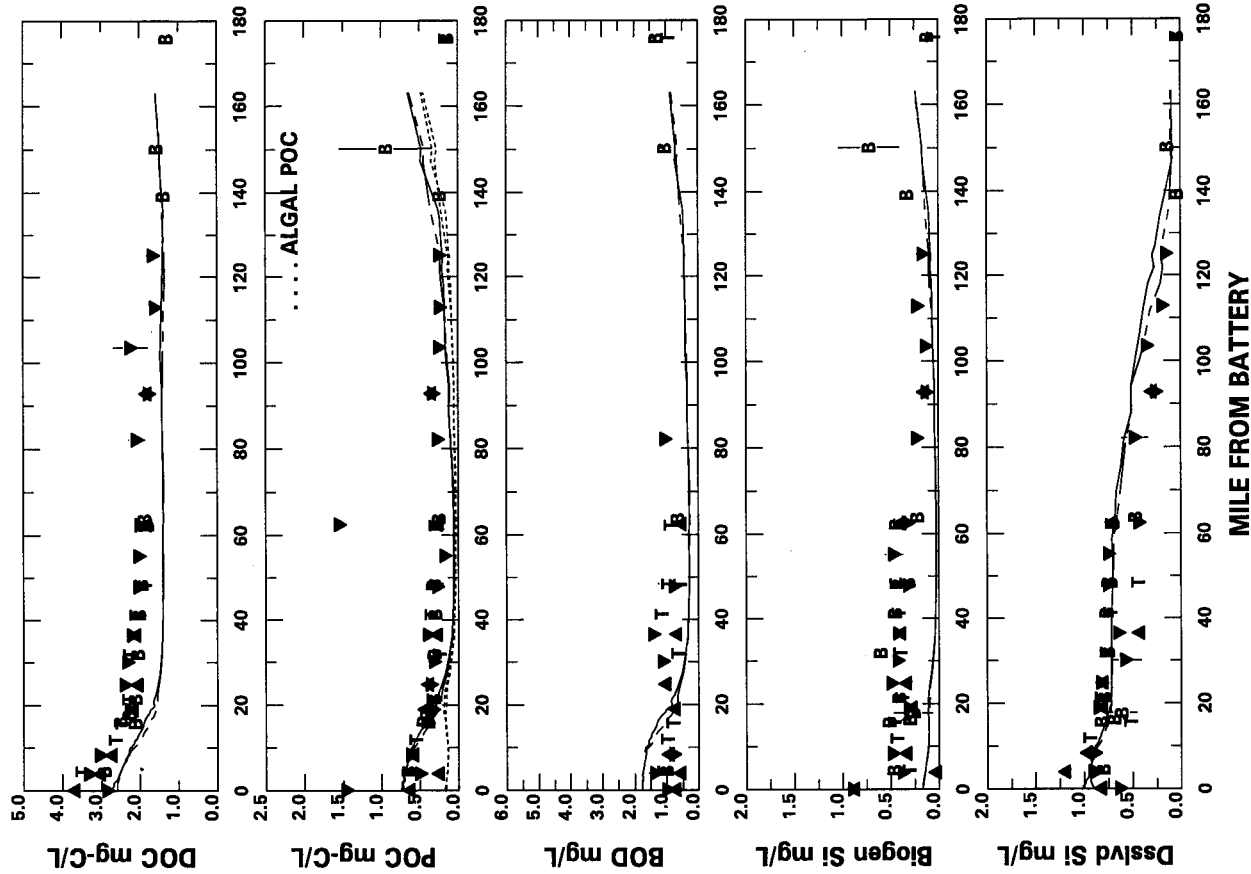
SURF BOT

Transect
Embayment
Transect
Embayment
Transect
Embayment

MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Jan 23-31, 1995

NYCDEP 1/95

CT DEP 1/95

SURF BOT

Transect
Embayment

T B

t b

□ ▽

s c

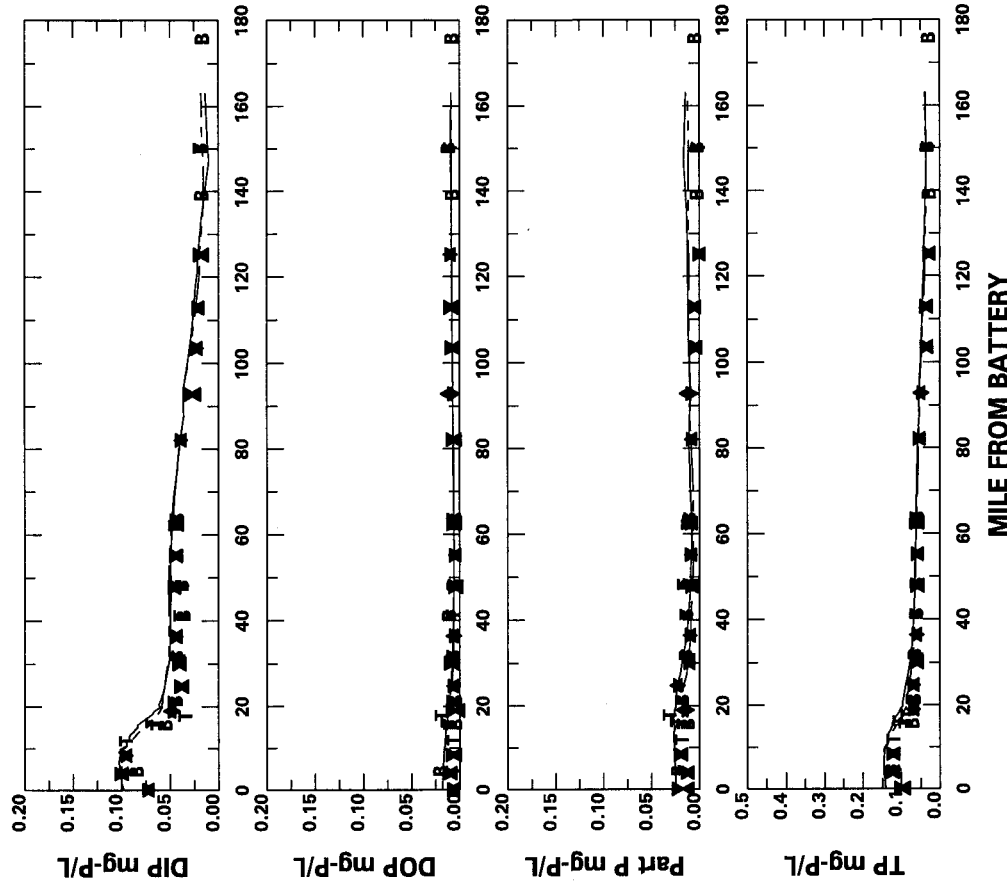
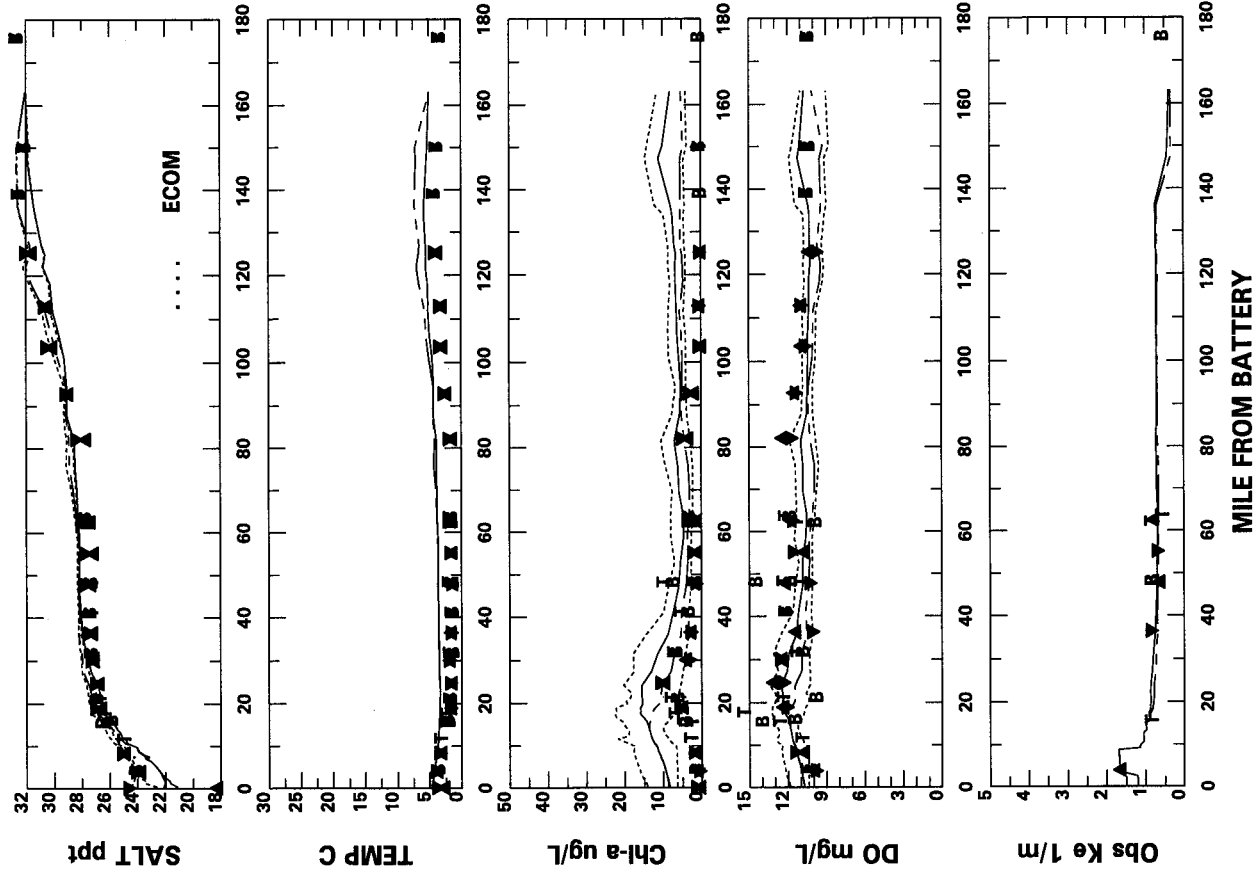
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR
BOTTOM MIN

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Feb 22-Mar 1, 1995
 NYCDEP 2/95
 CT DEP 2/95

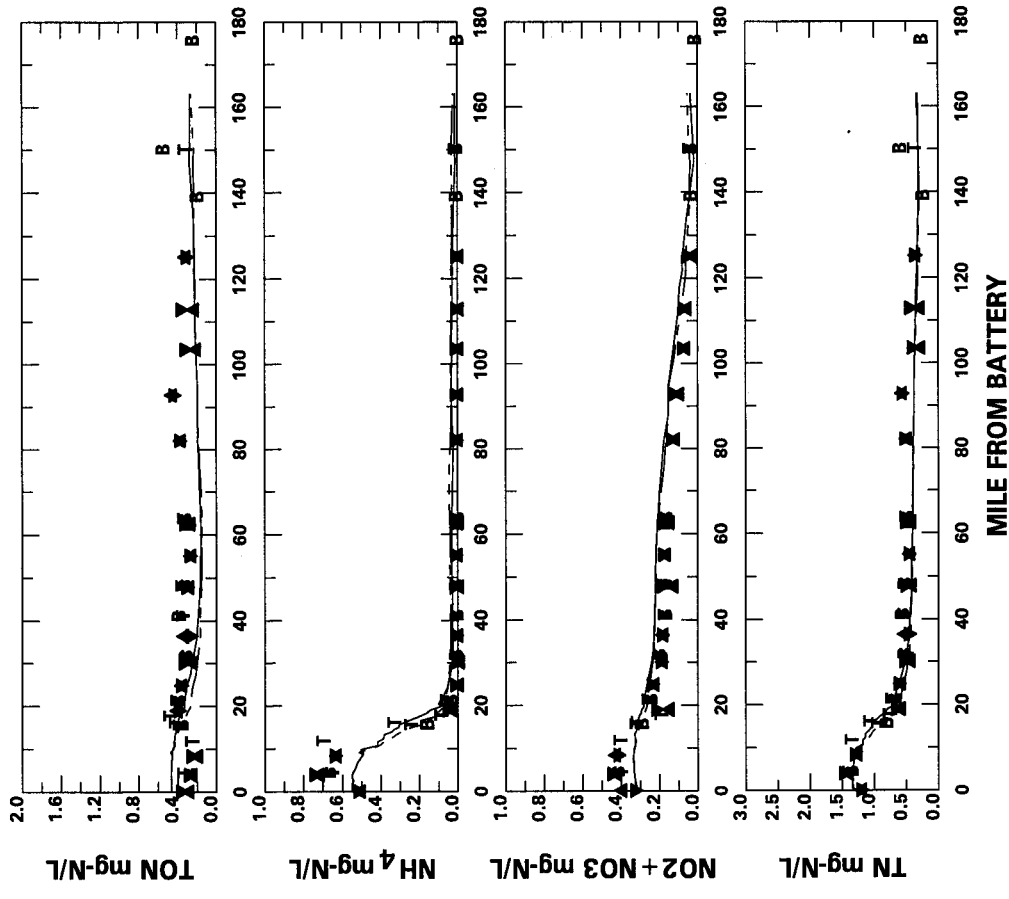
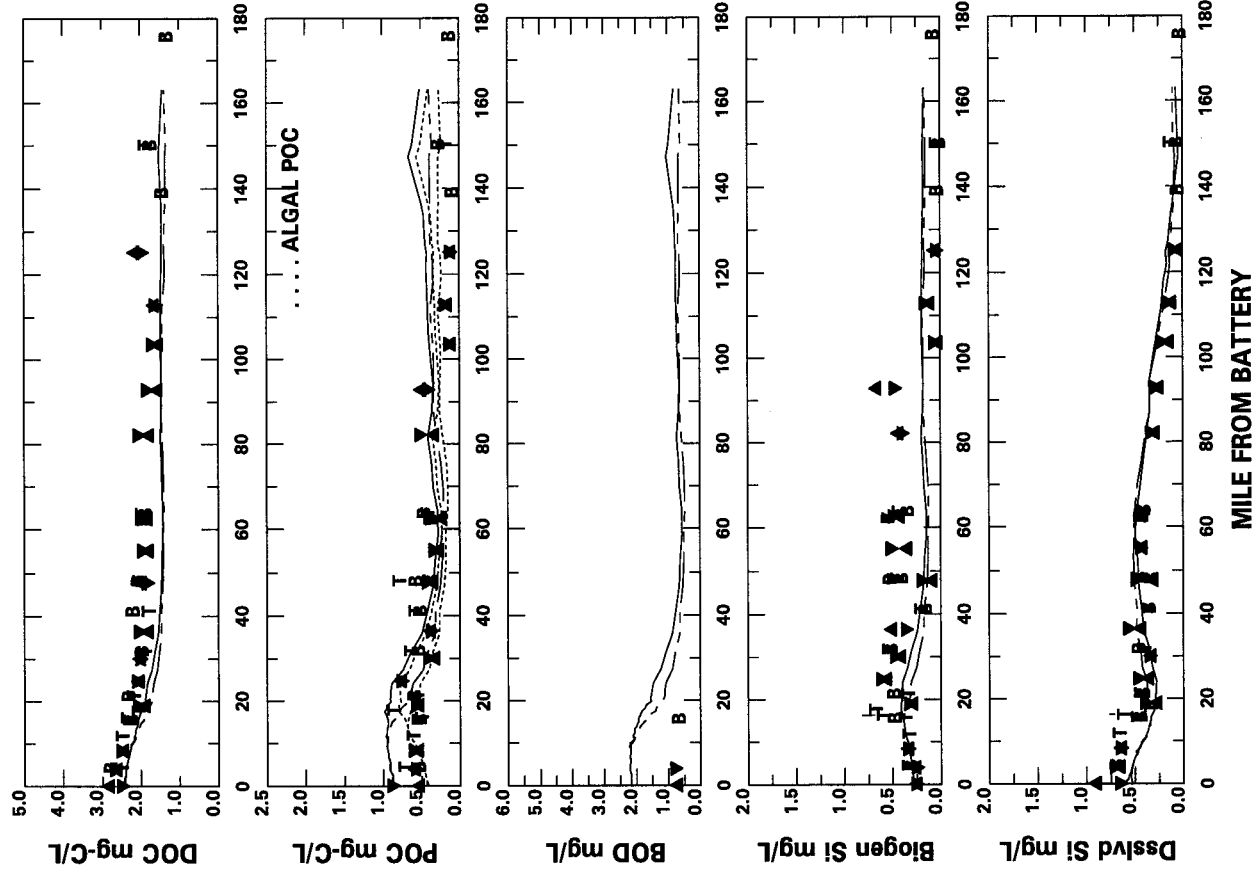
SURF BOT

▲ T
 ▼ B
 ○ t
 △ b
 □ s
 ▽ c

MODEL

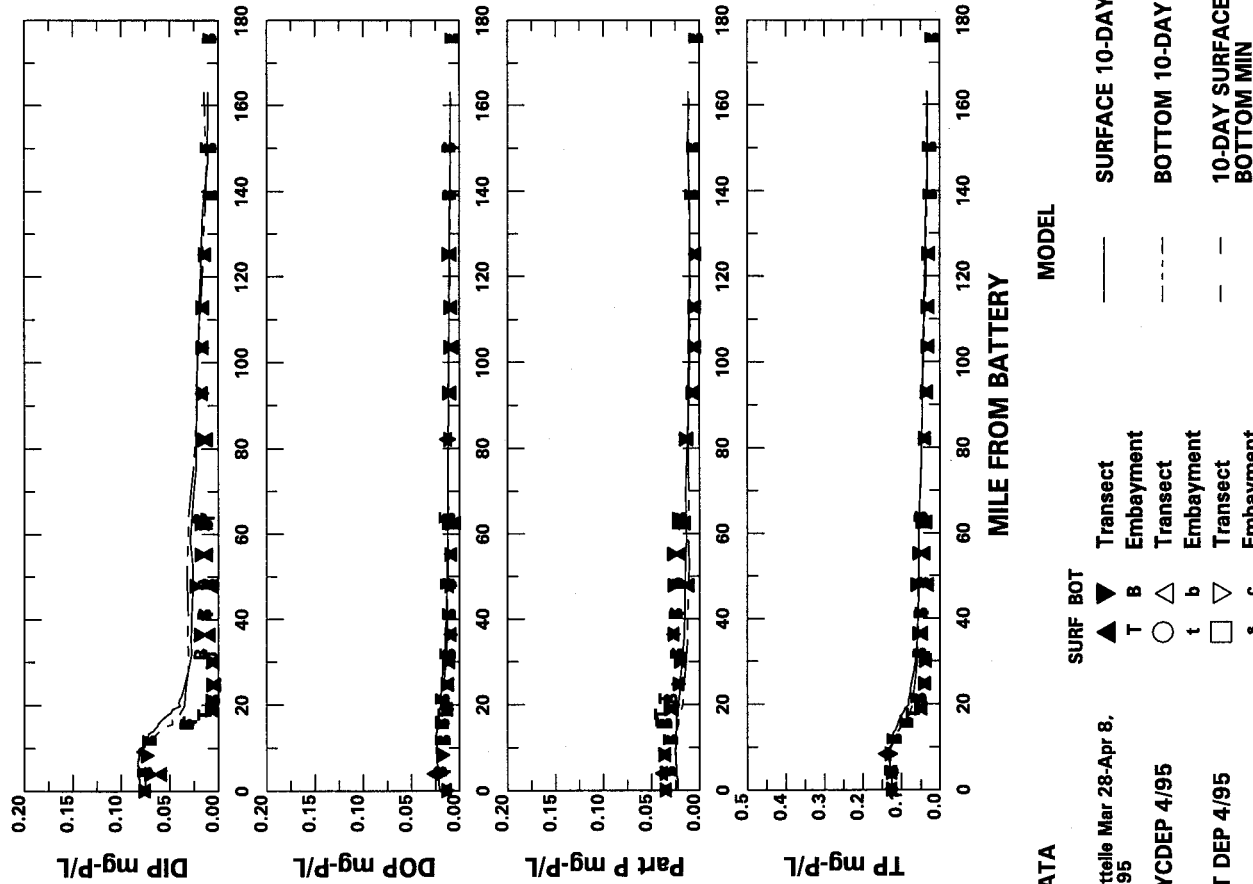
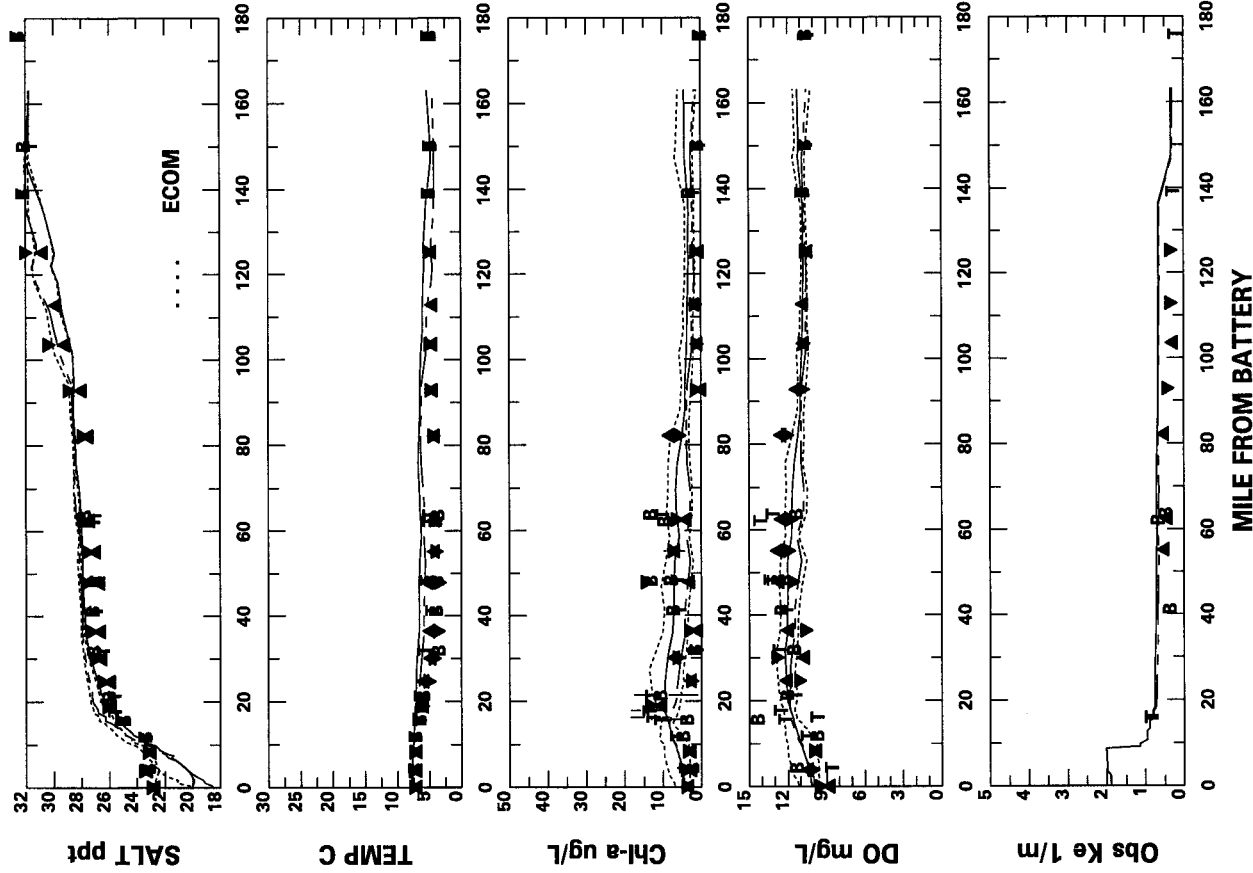
— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR BOTTOM MIN

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL
Battelle Feb 22-Mar 1, 1995	▲ T	— SURFACE 10-DAY MEAN
NYCDEP 2/95	○ B	--- BOTTOM 10-DAY MEAN
CT DEP 2/95	△ t	- - 10-DAY SURFACE MAX OR BOTTOM MIN
	□ b	
	▽ c	
	Embayment	
	Transect	

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8,
1995

NYCDEP 4/95

CT DEP 4/95

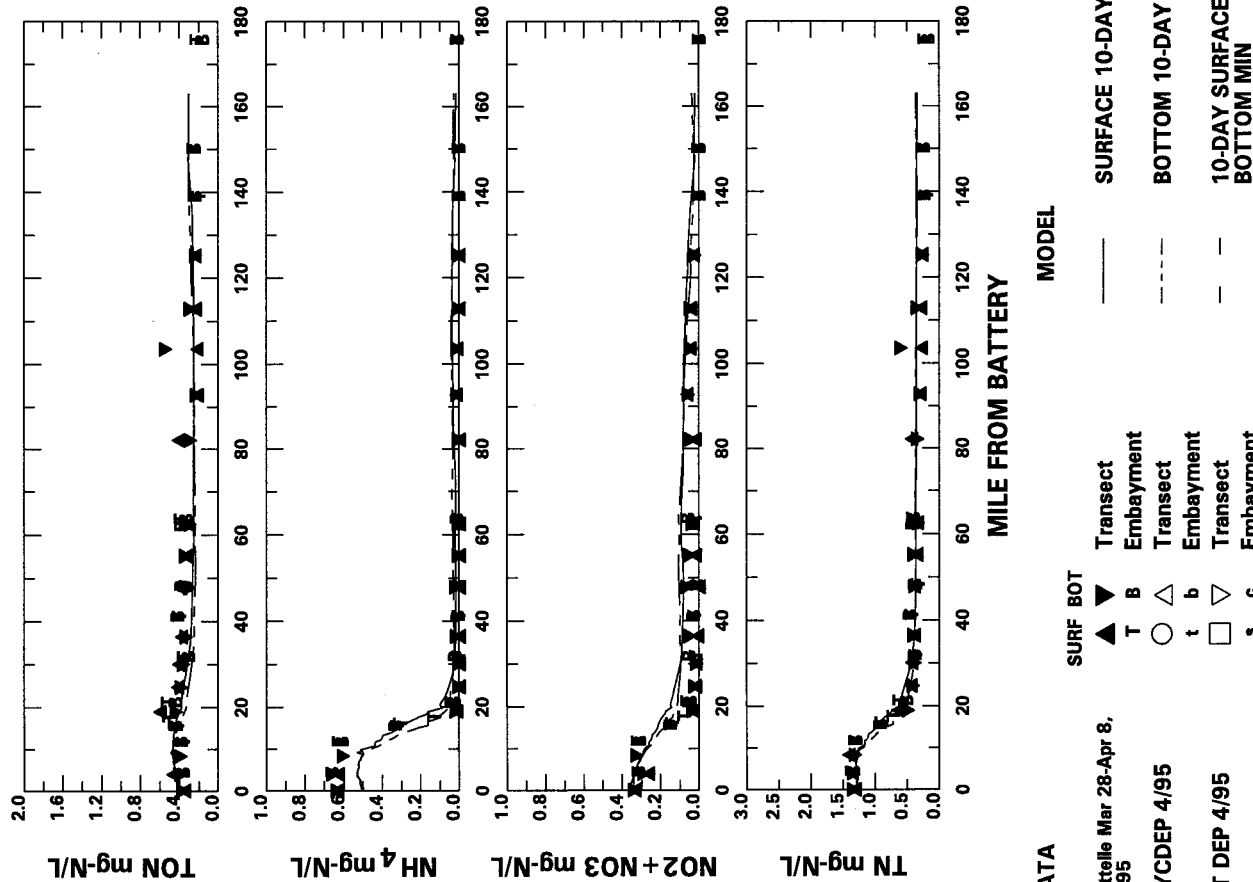
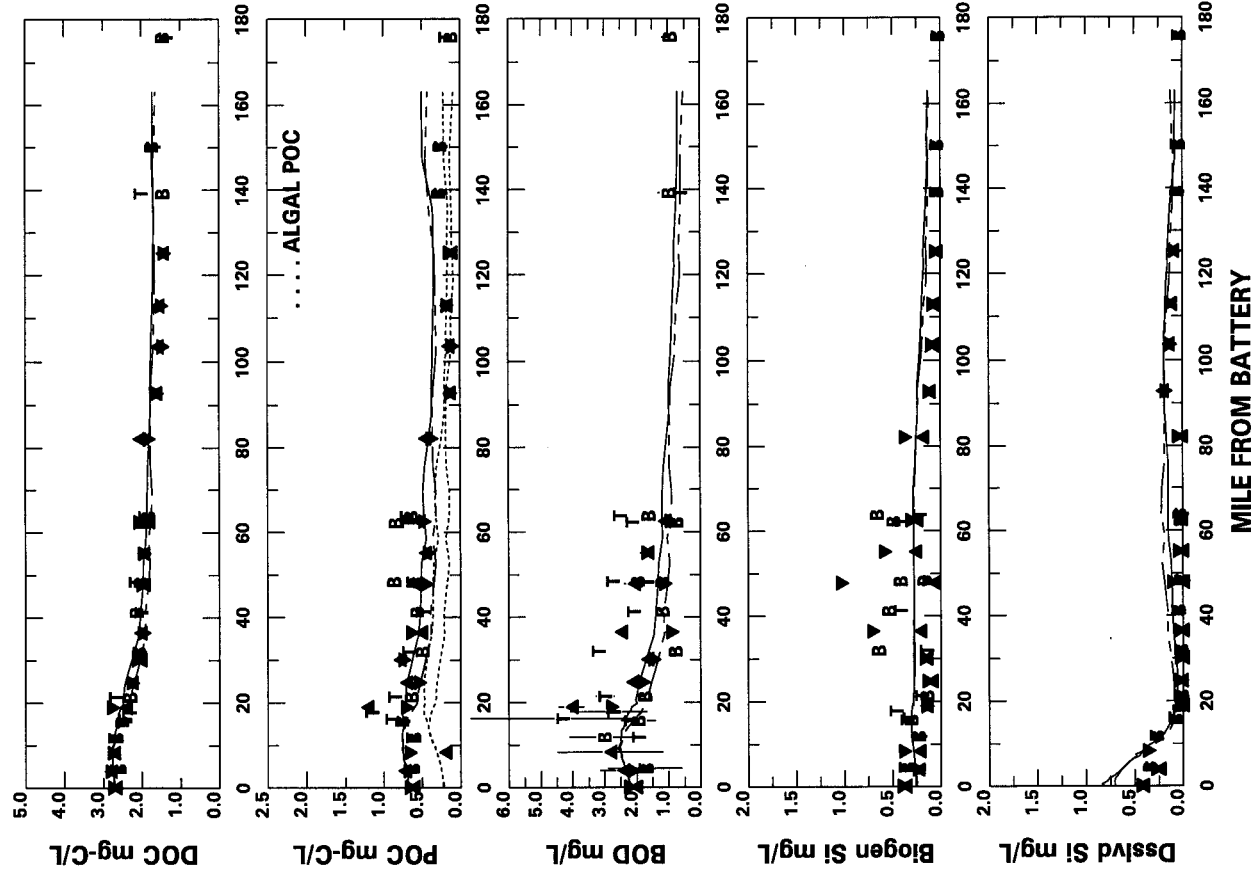
SURF BOT

Transect
Embayment
Transect
Embayment
Transect
Embayment

MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8,
1995

NYCDEP 4/95

CT DEP 4/95

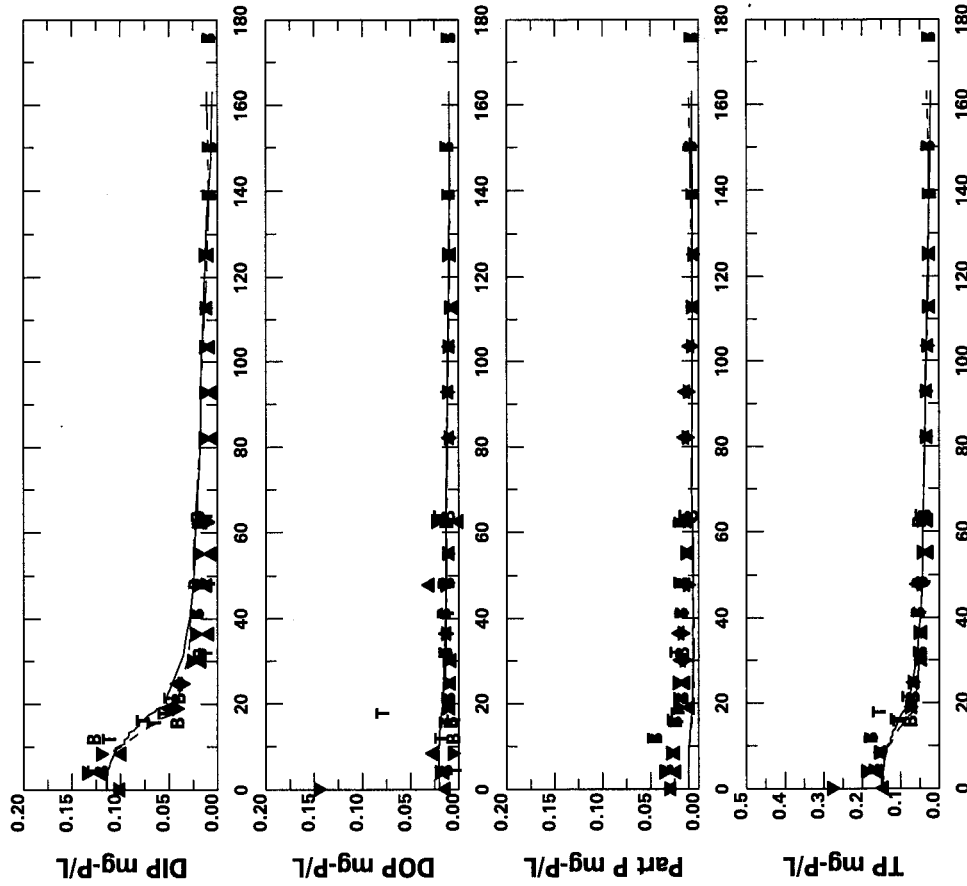
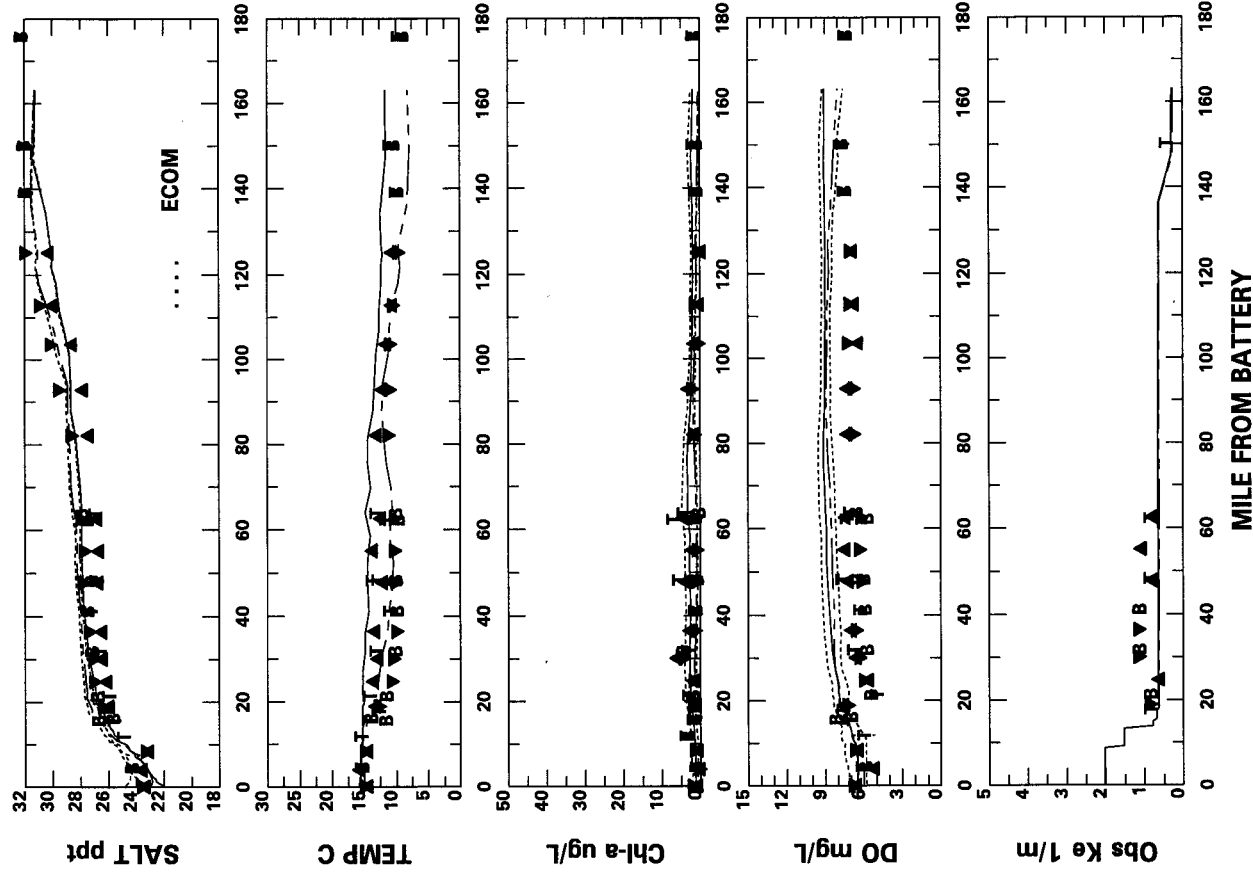
SURF BOT

Transect
Embayment
Transect
Embayment
Transect
Embayment

MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995

NYCDEP 5/95

CT DEP 5/95

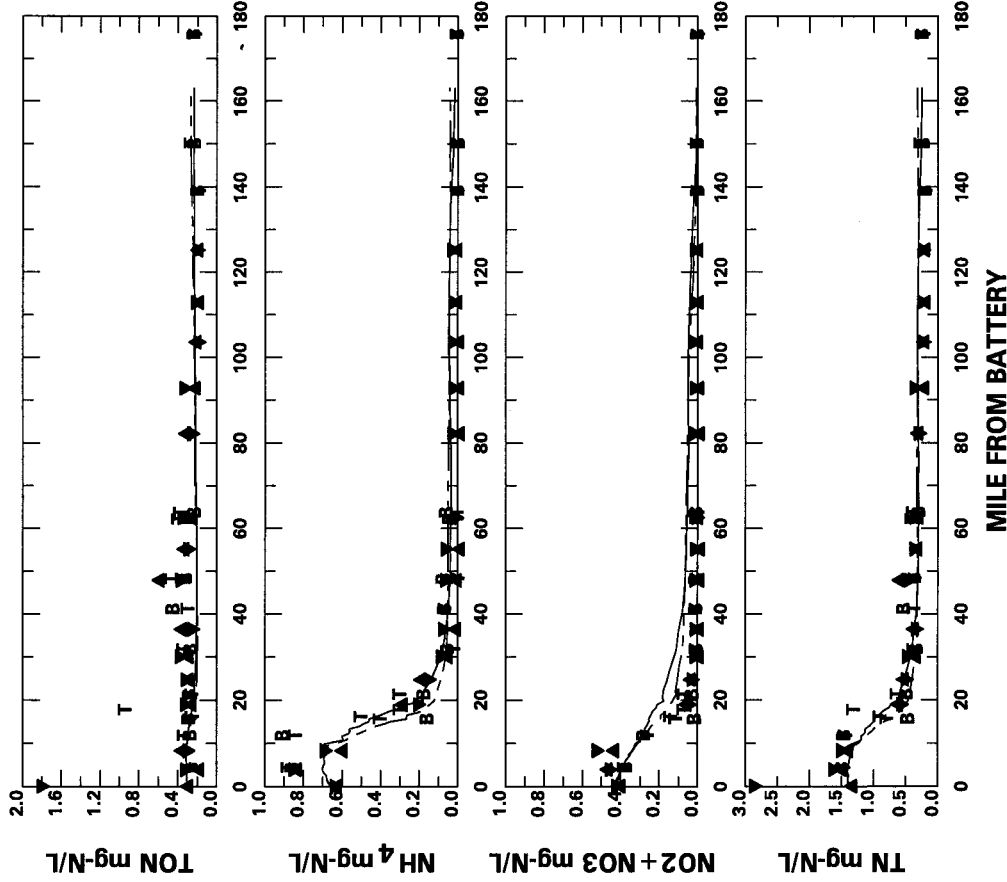
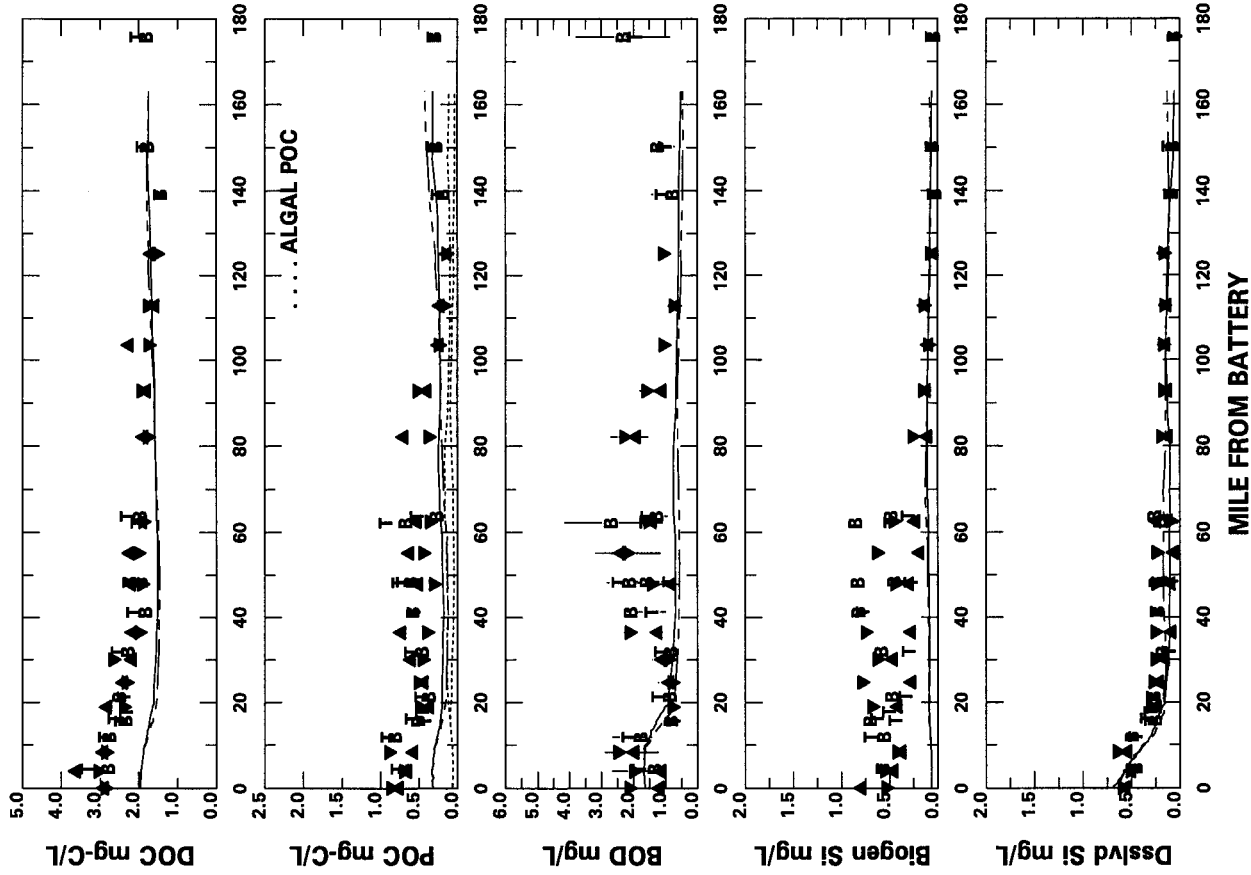
SURF BOT

▲ T
 ▼ B
 ○ t
 □ b
 △ c

MODEL

— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR BOTTOM MIN

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995

NYCDEP 5/95

CT DEP 5/95

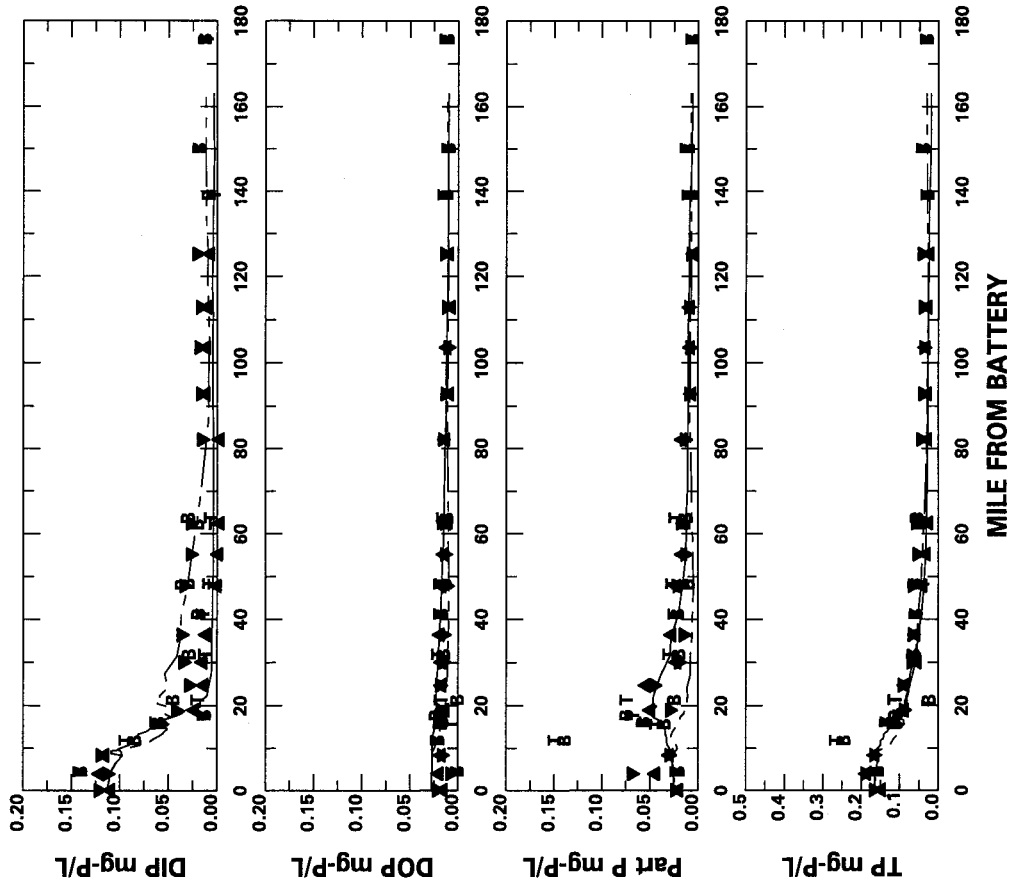
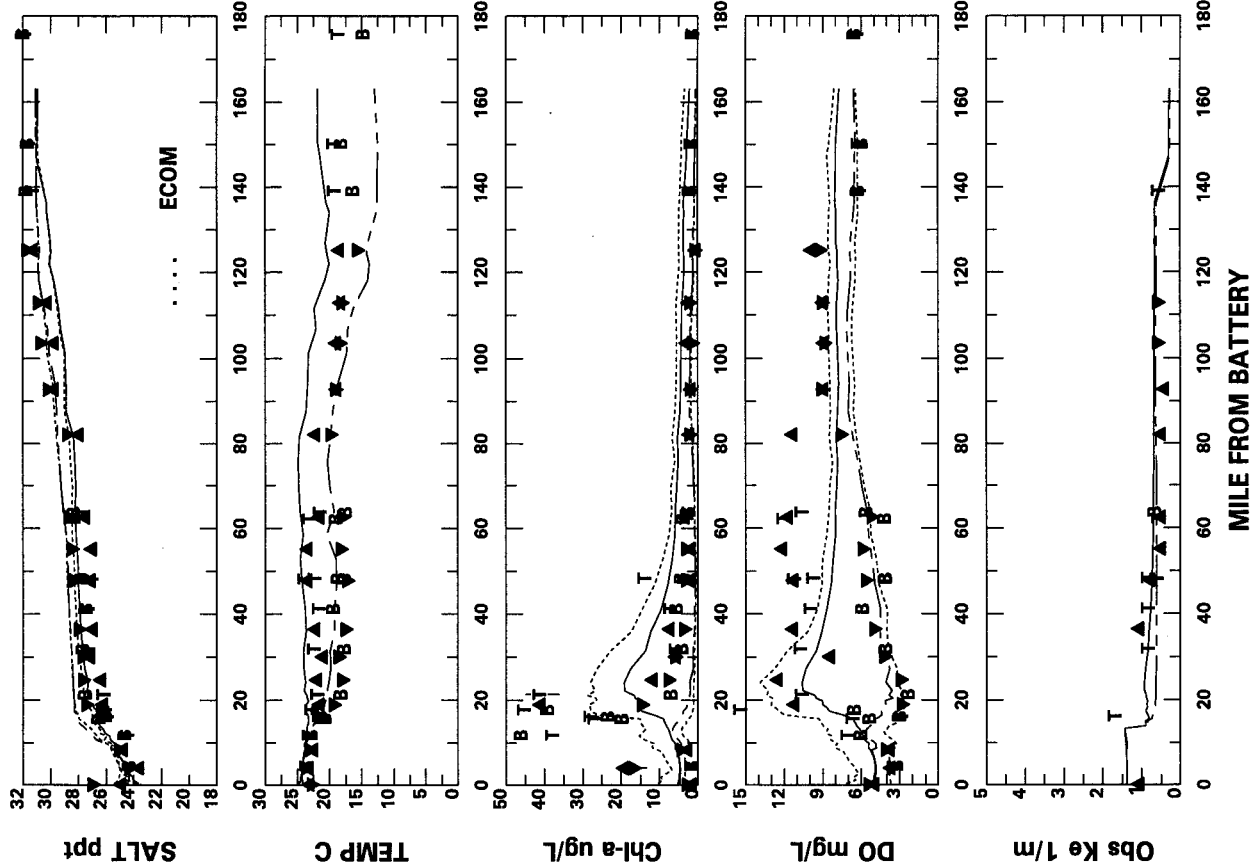
MODEL

SURFACE 10-DAY MEAN
 BOTTOM 10-DAY MEAN
 10-DAY SURFACE MAX OR
 BOTTOM MIN

SURF BOT

Transect
 Embayment
 Transect
 Embayment
 Transect
 Embayment

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2,
1995

NYCDEP 7/95

CT DEP 7/95

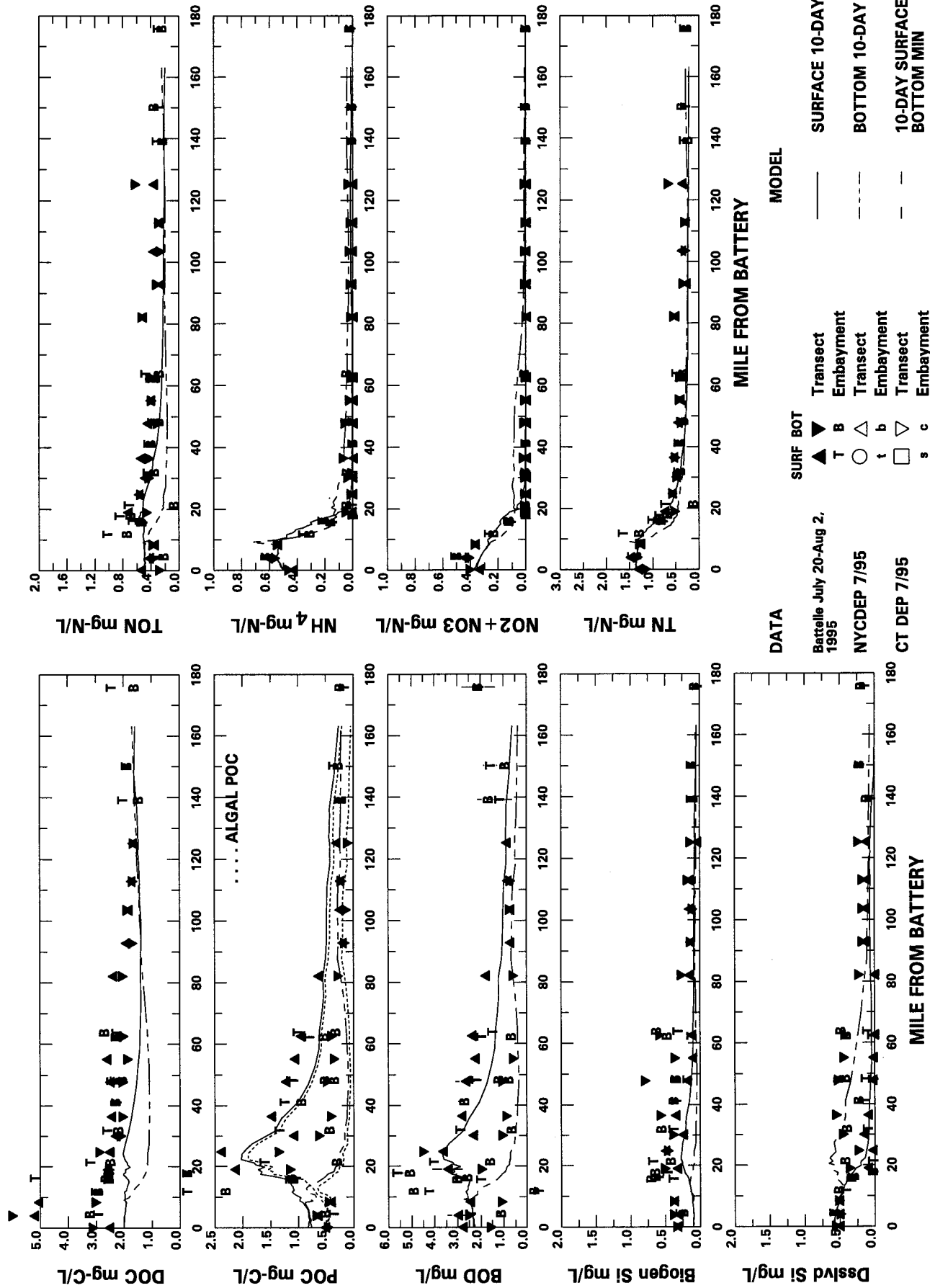
SURF BOT

Transect
Embayment
Transect
Embayment
Transect
Embayment

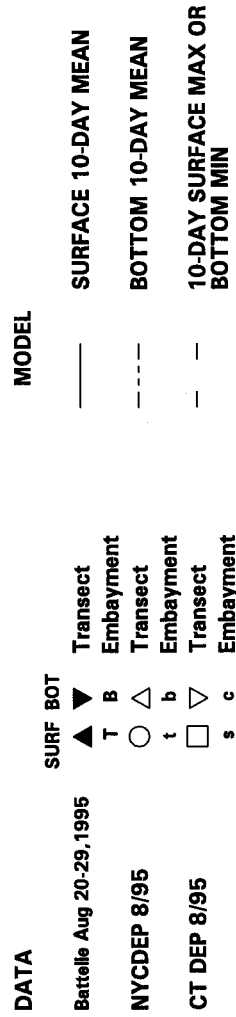
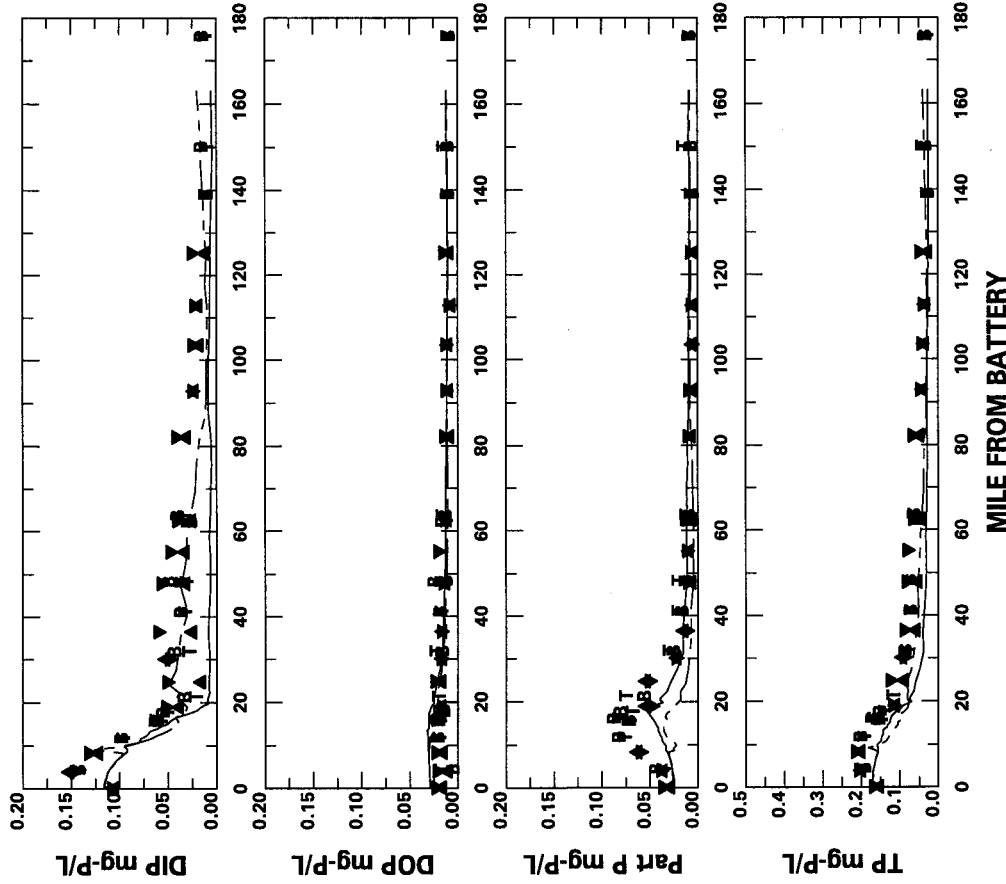
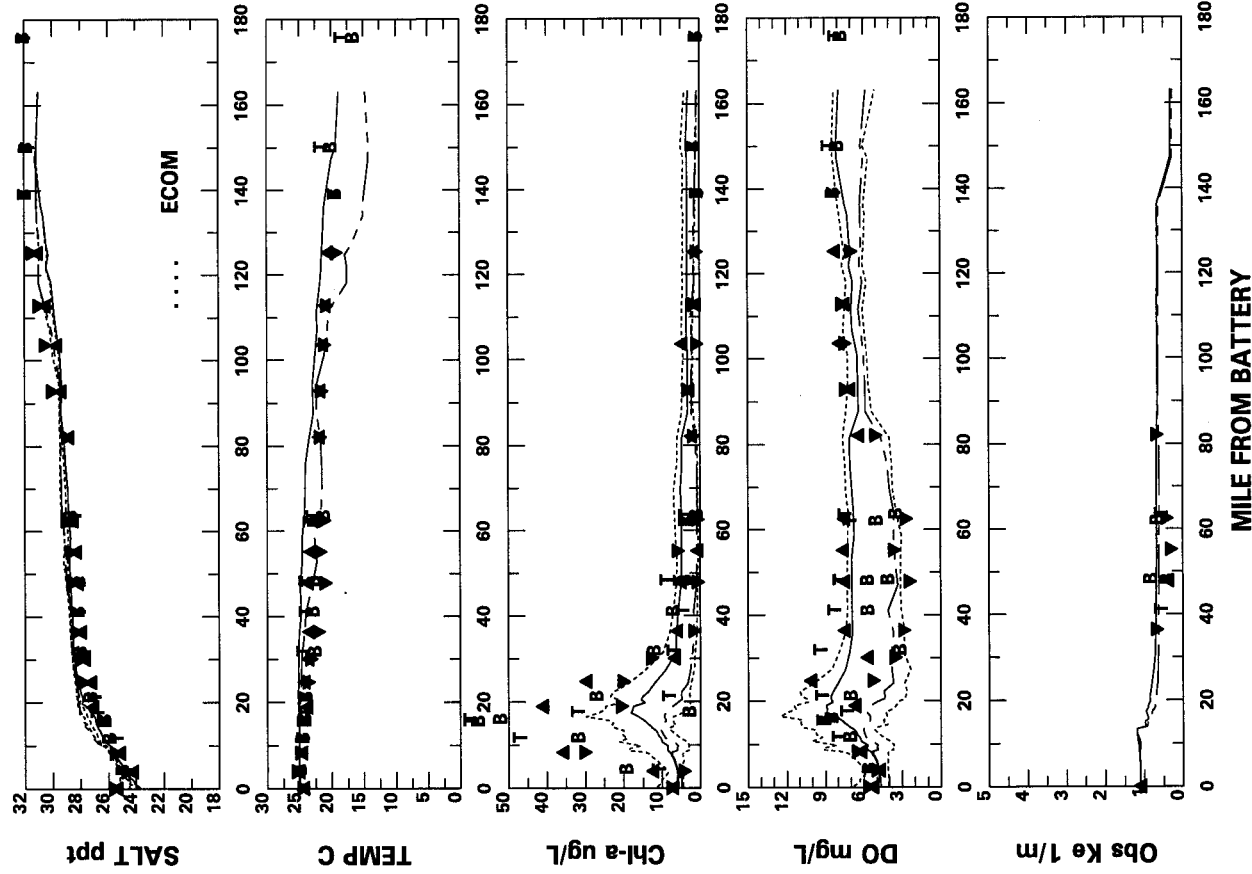
MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION

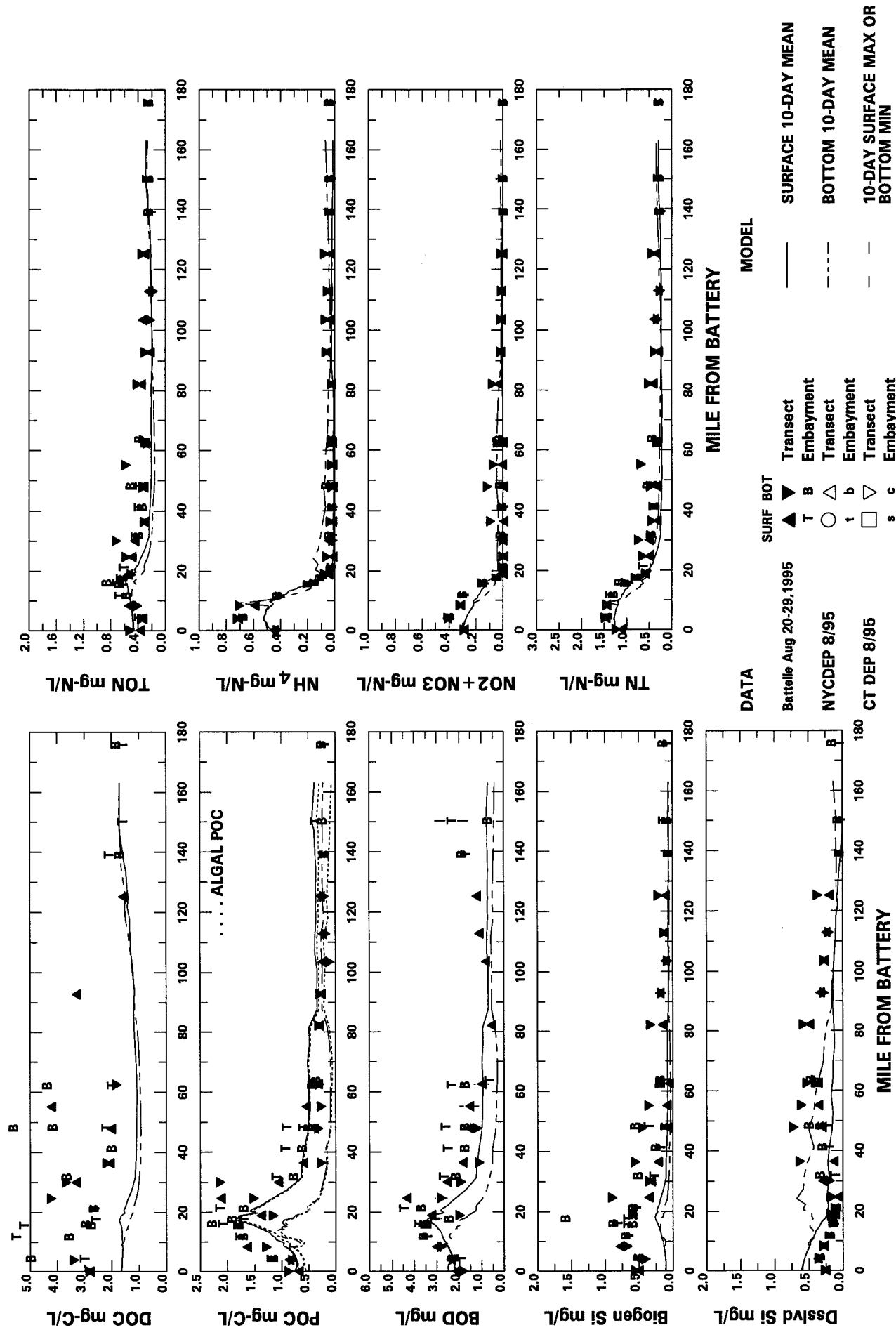


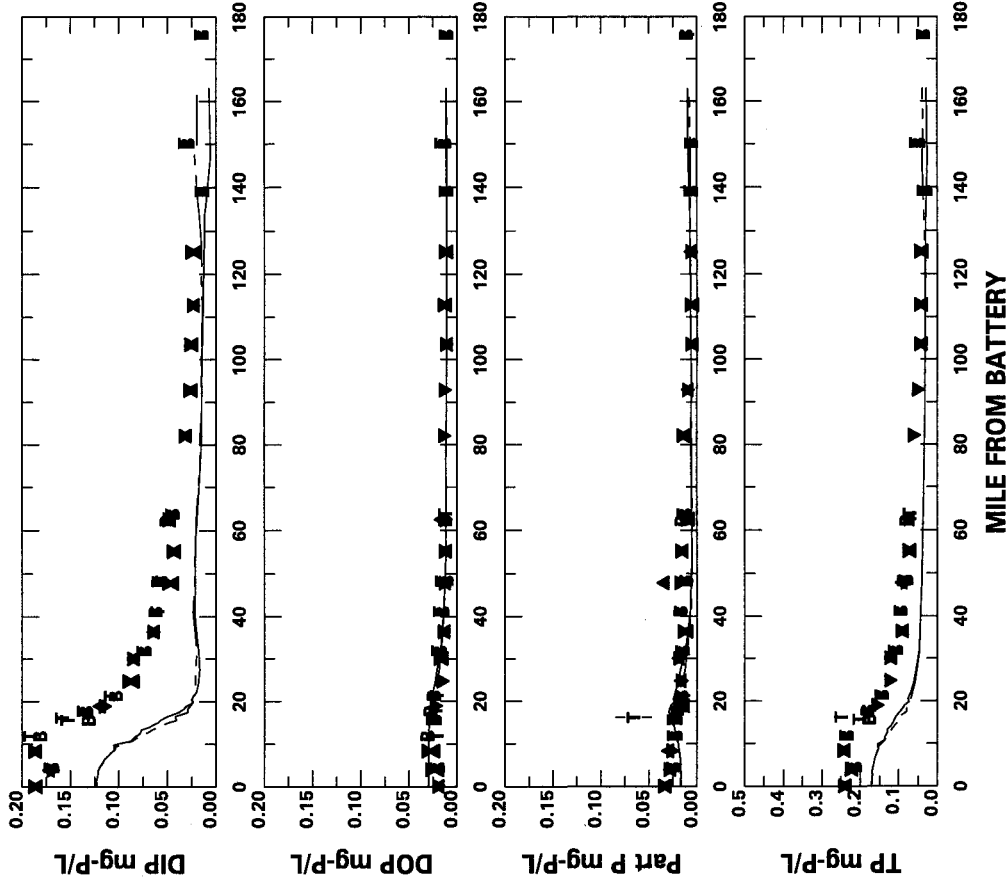
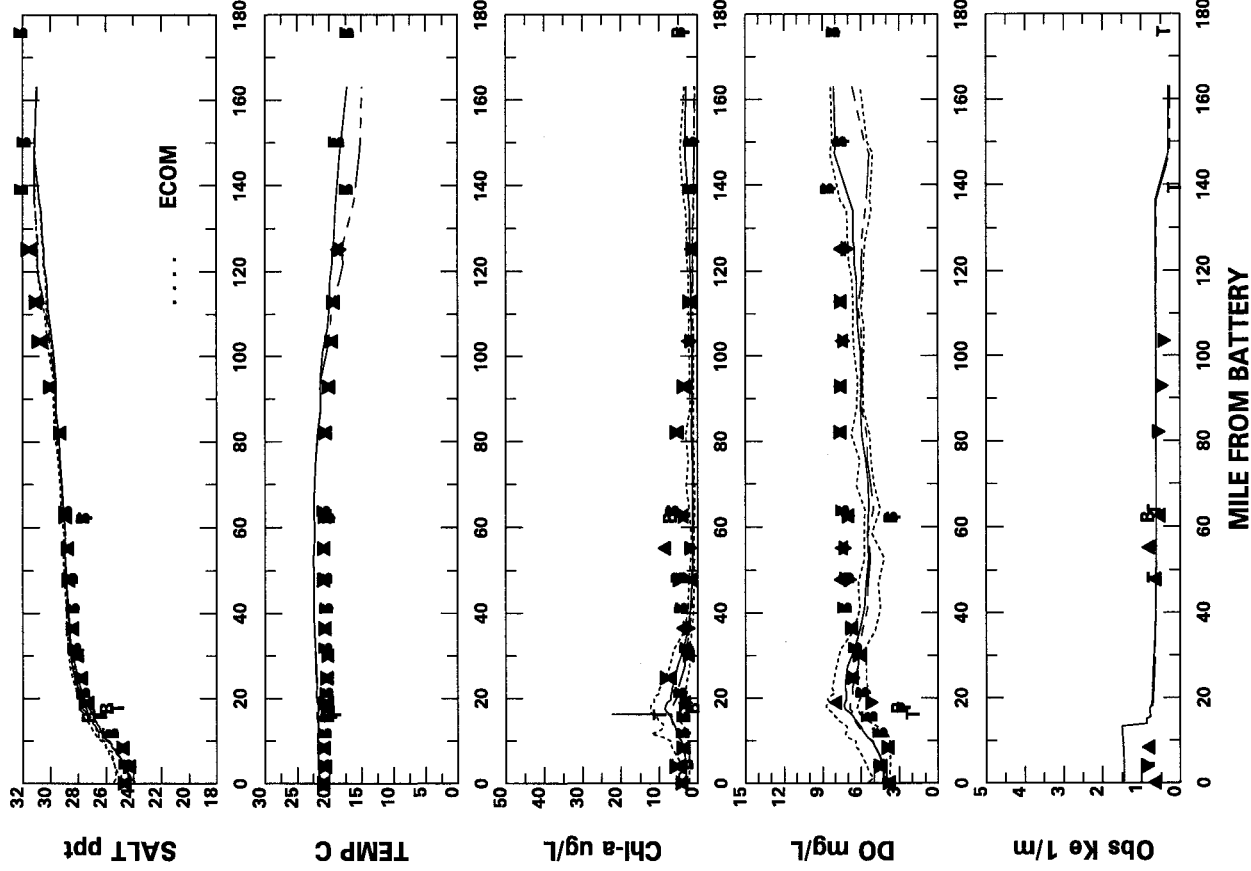
EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION





DATA

Battelle Sep 23-Oct 2,
1995

NYCDEP 9/95

CT DEP 9/95

SURF BOT

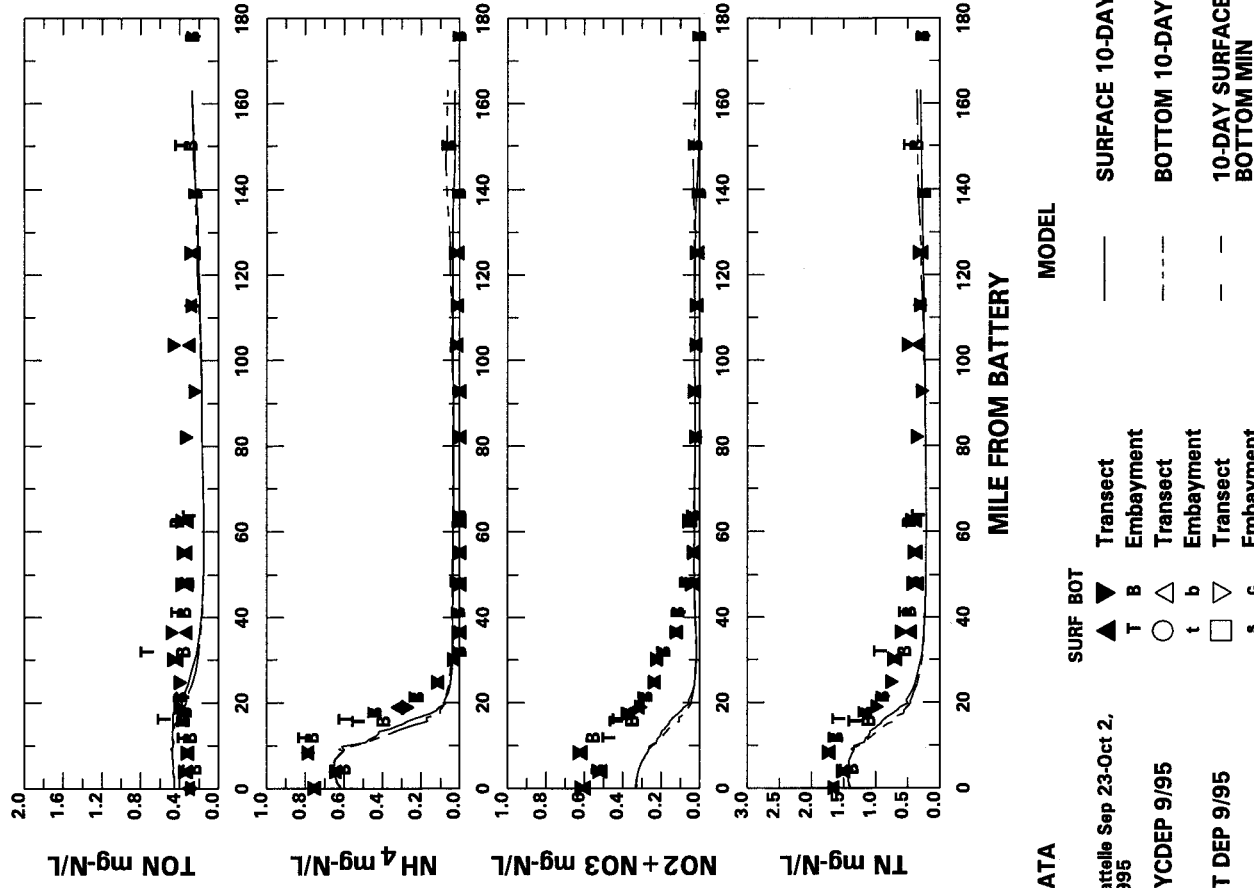
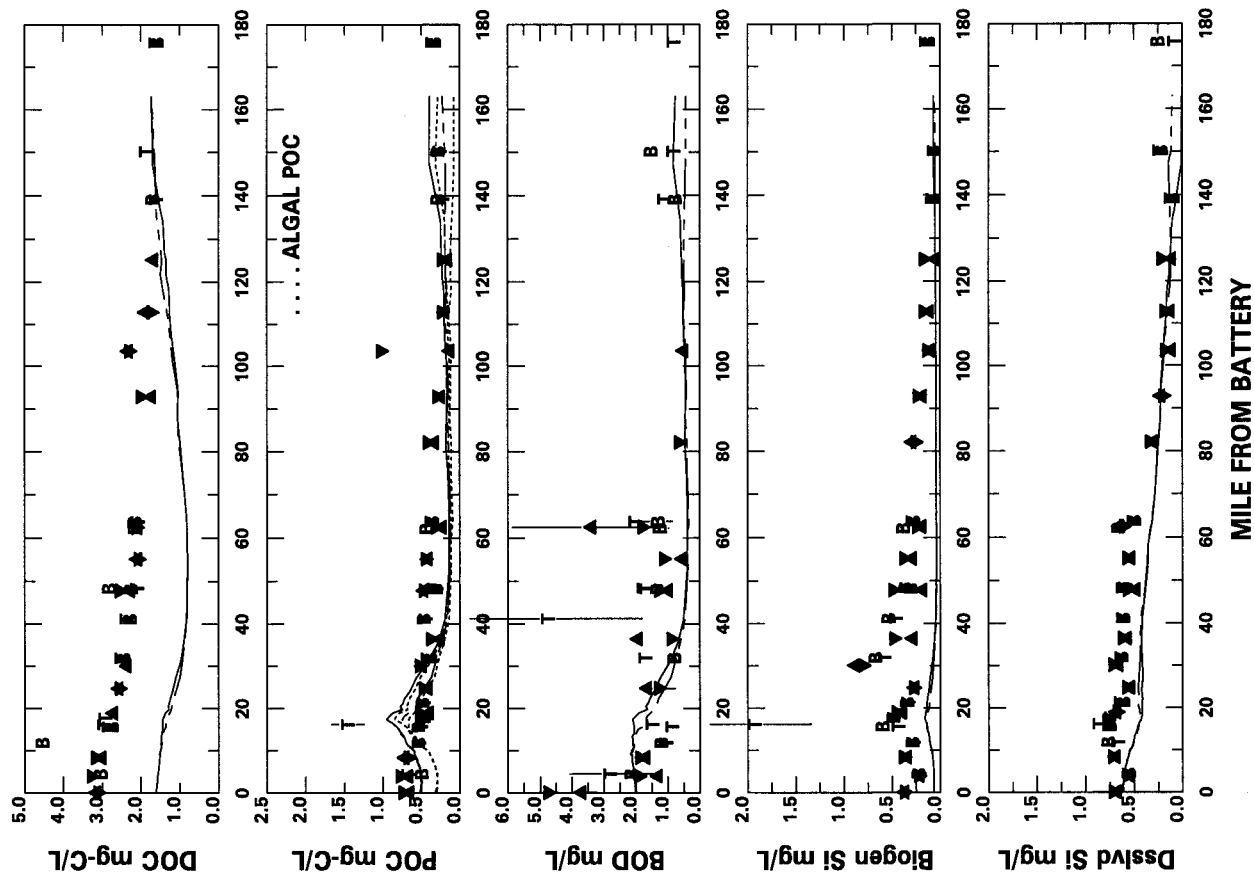
▲ T B
○ t b
□ s c

Transect
Embayment
Transect
Embayment
Transect
Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

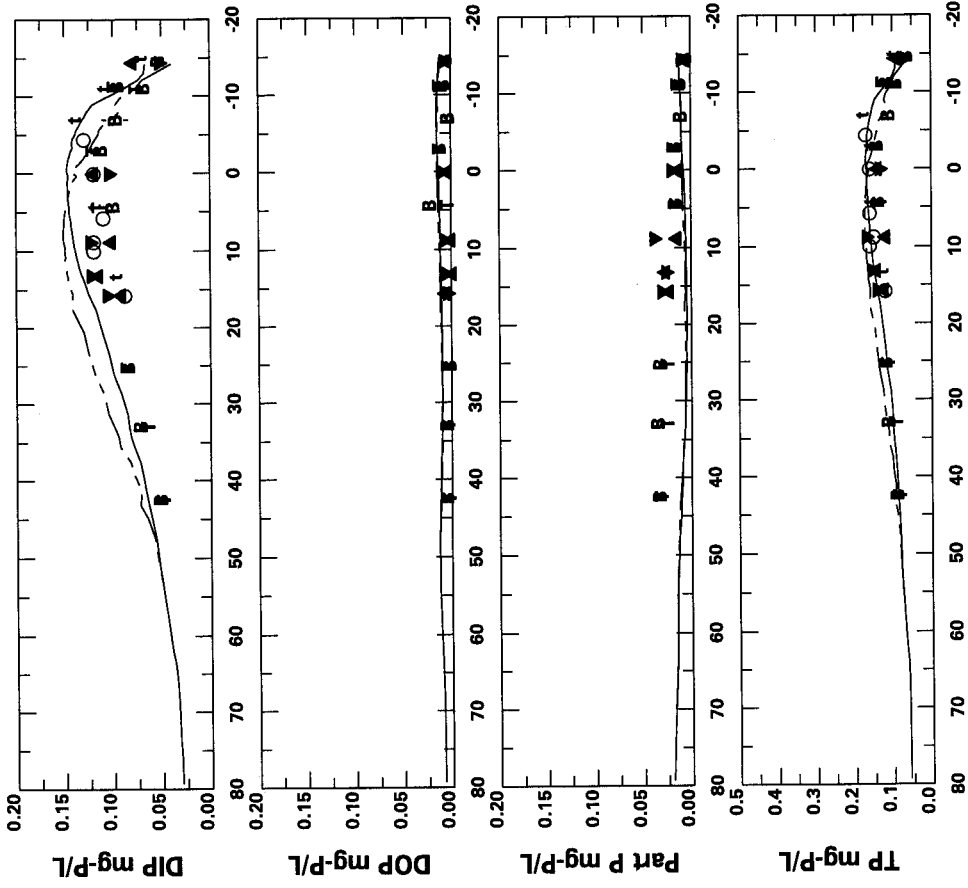
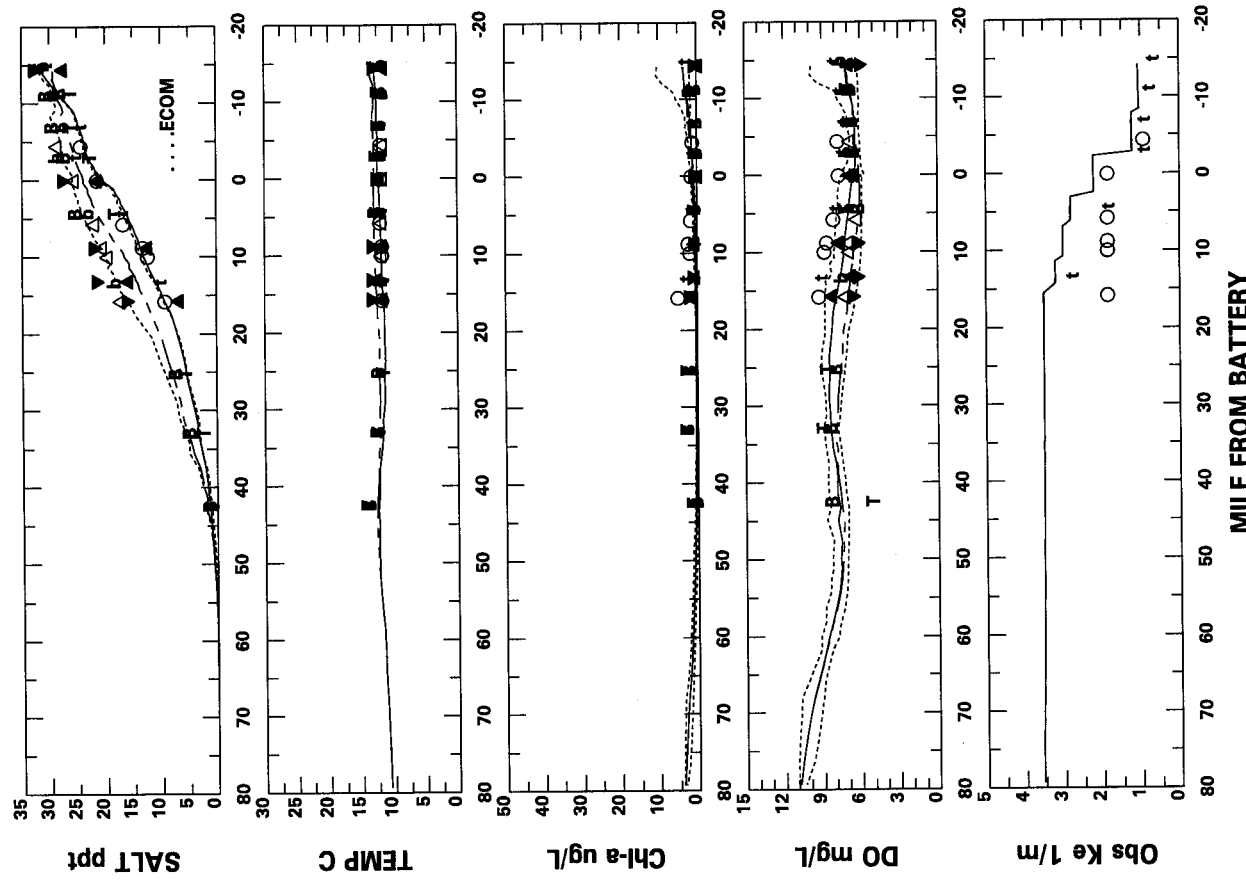
EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION



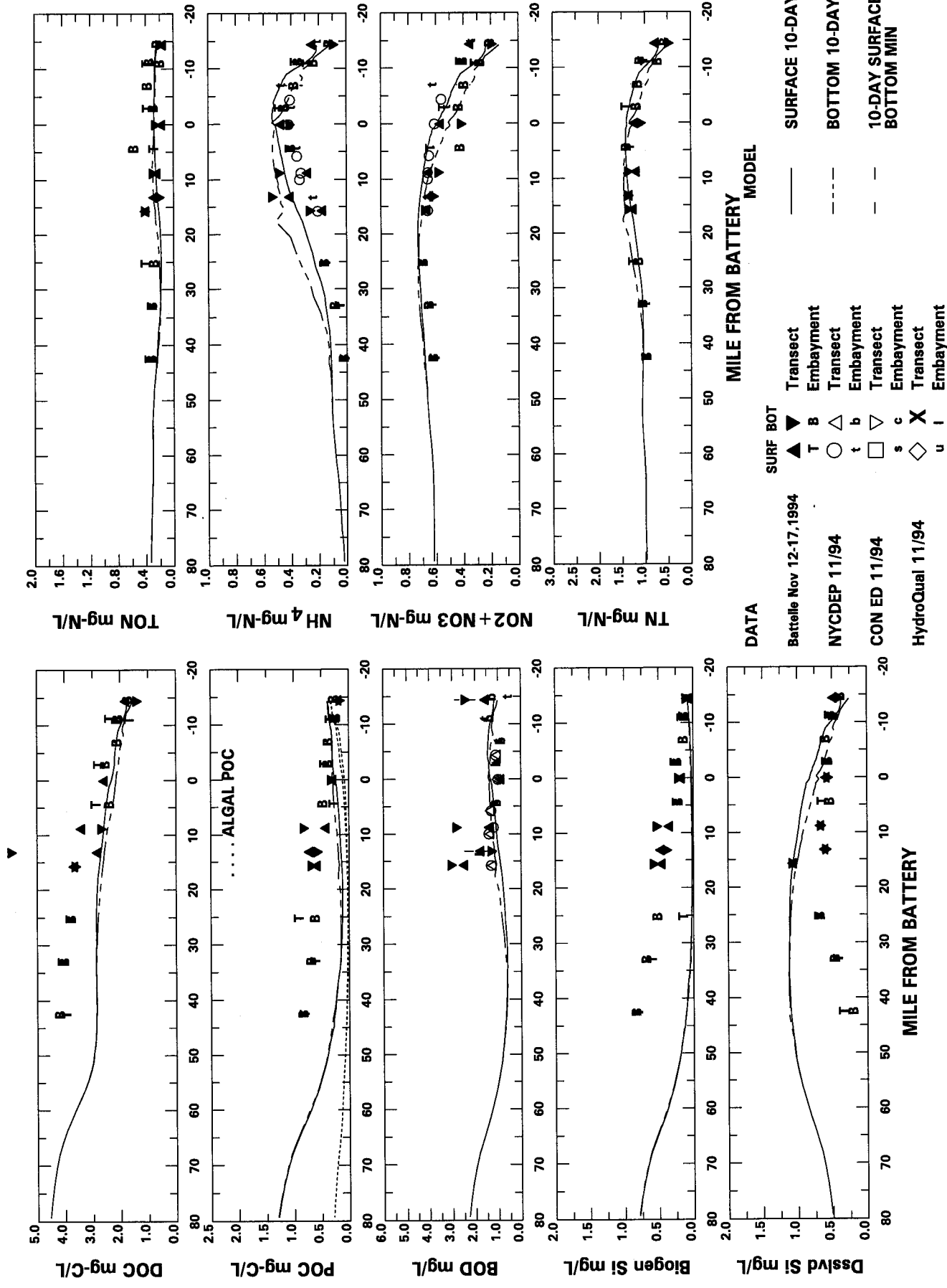
DATA	SURF BOT	MODEL
Battelle Sep 23-Oct 2, 1995	▲ T	— SURFACE 10-DAY MEAN
	△ B	--- BOTTOM 10-DAY MEAN
NYCDEP 9/95	○ t	- - - 10-DAY SURFACE MAX OR BOTTOM MIN
CT DEP 9/95	□ b	
	▽ c	
	Embayment	

EAST RIVER AND LONG ISLAND SOUND RUN 9495-BC3 SWEM REVISED CALIBRATION

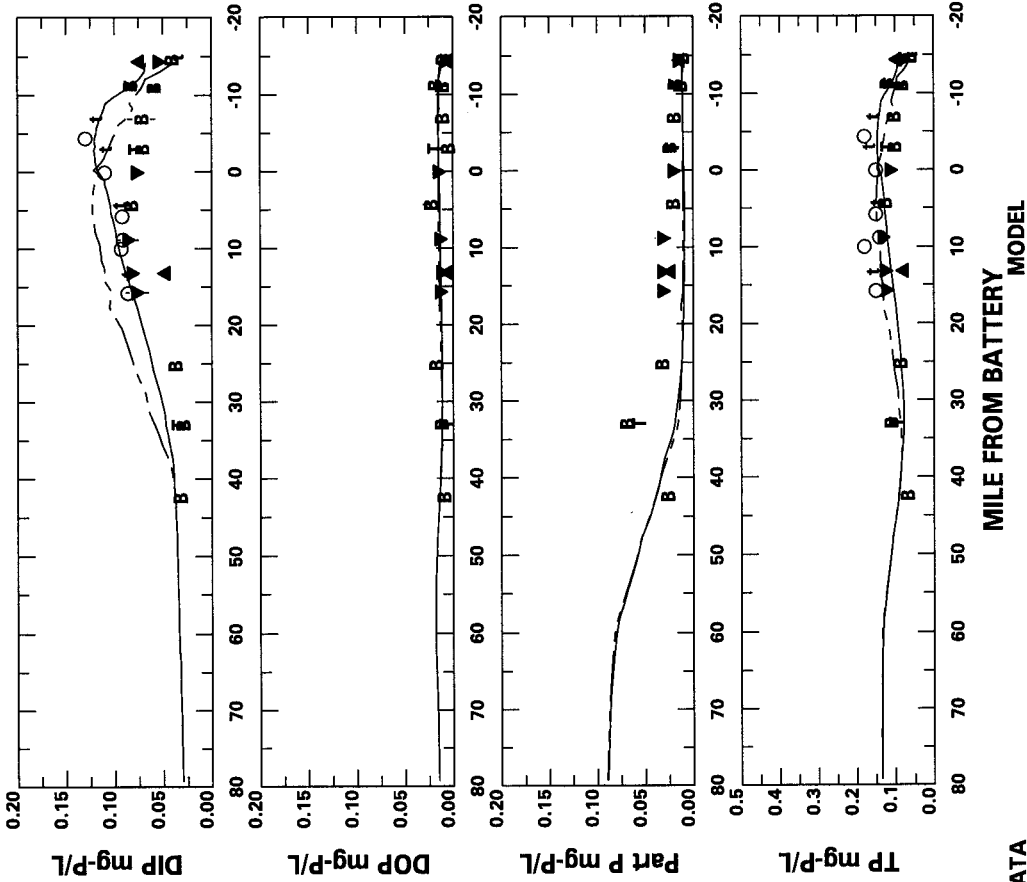
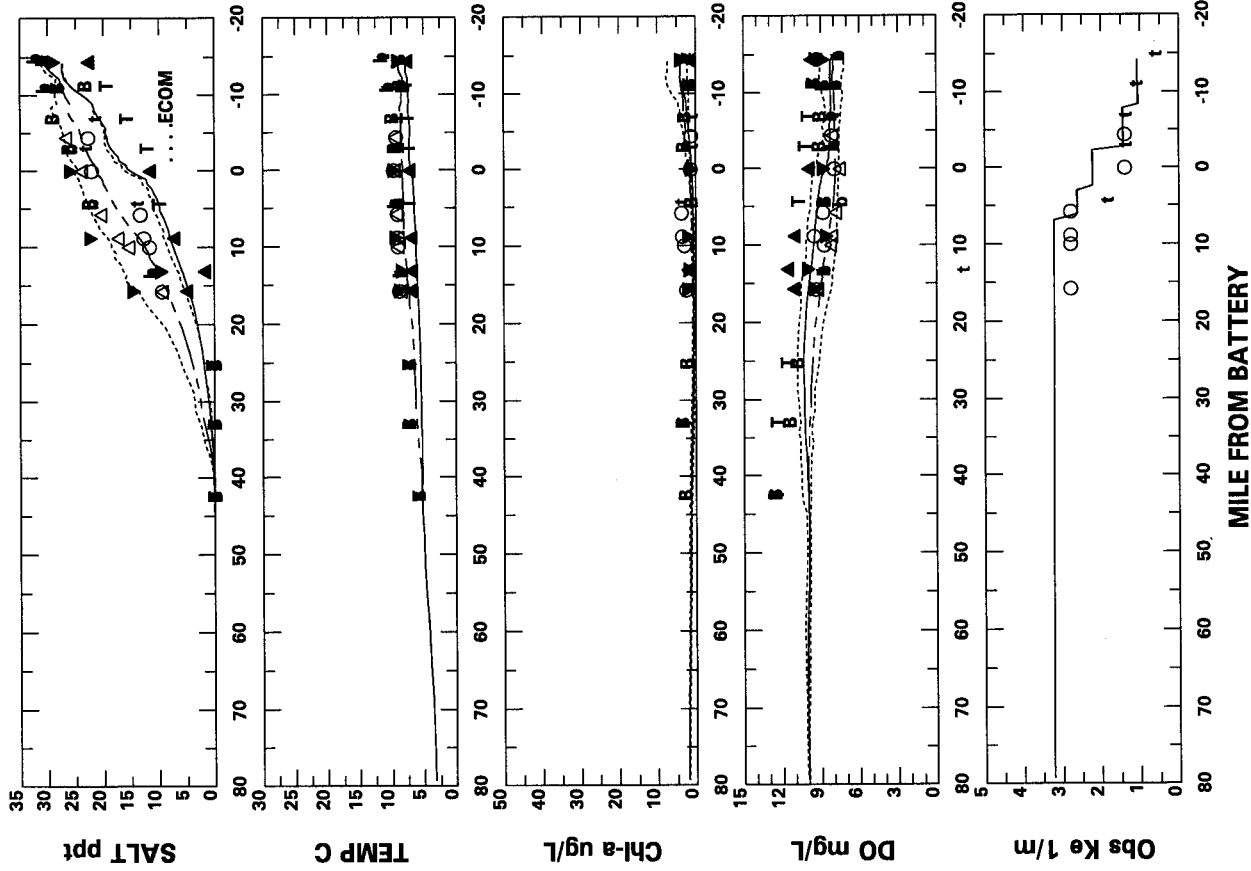
SPATIAL DISTRIBUTIONS OF HUDSON RIVER, UPPER BAY, LOWER BAY



HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

SURF BOT

Battelle Dec 10-16, 1994

Transect
Embayment

NYCDEP 12/94

Transect
Embayment

CON ED 12/94

Transect
Embayment

HydroQual 12/94

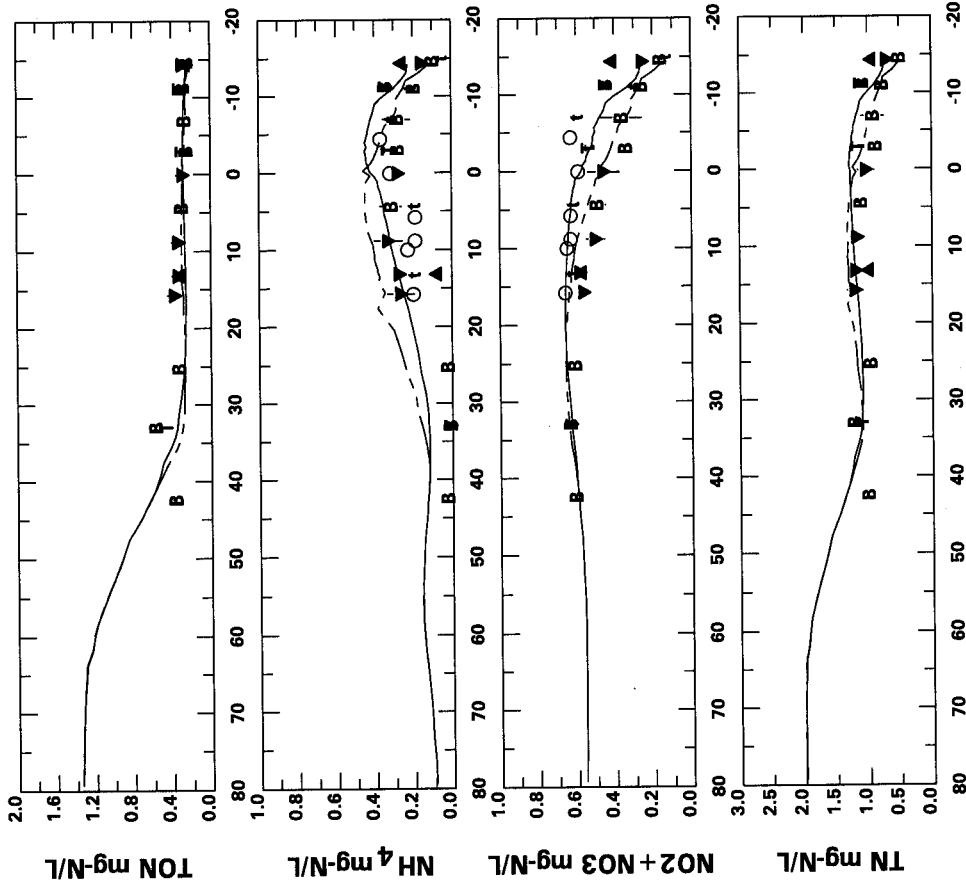
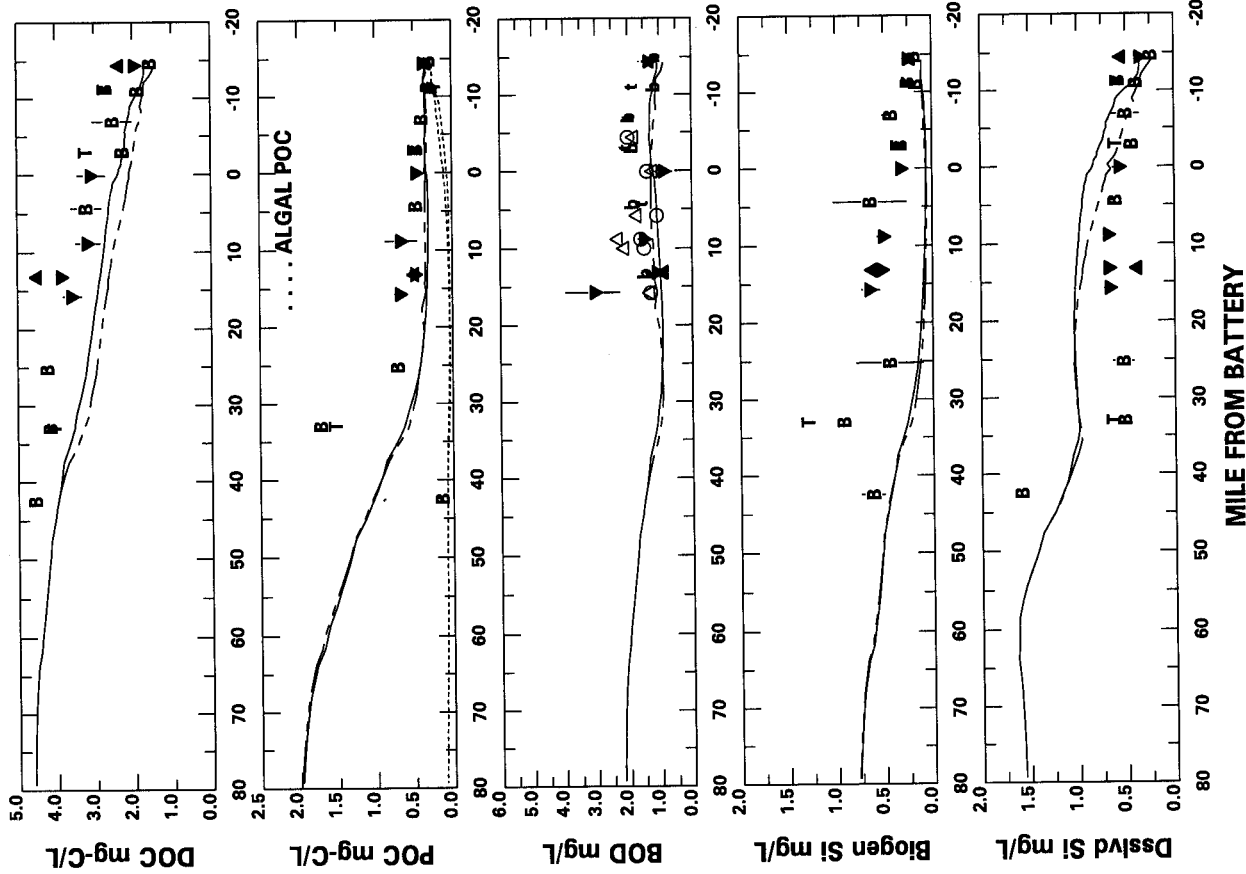
Transect
Embayment

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR
BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Dec 10-16, 1994

NYCDEP 12/94

CON ED 12/94

HydroQual 12/94

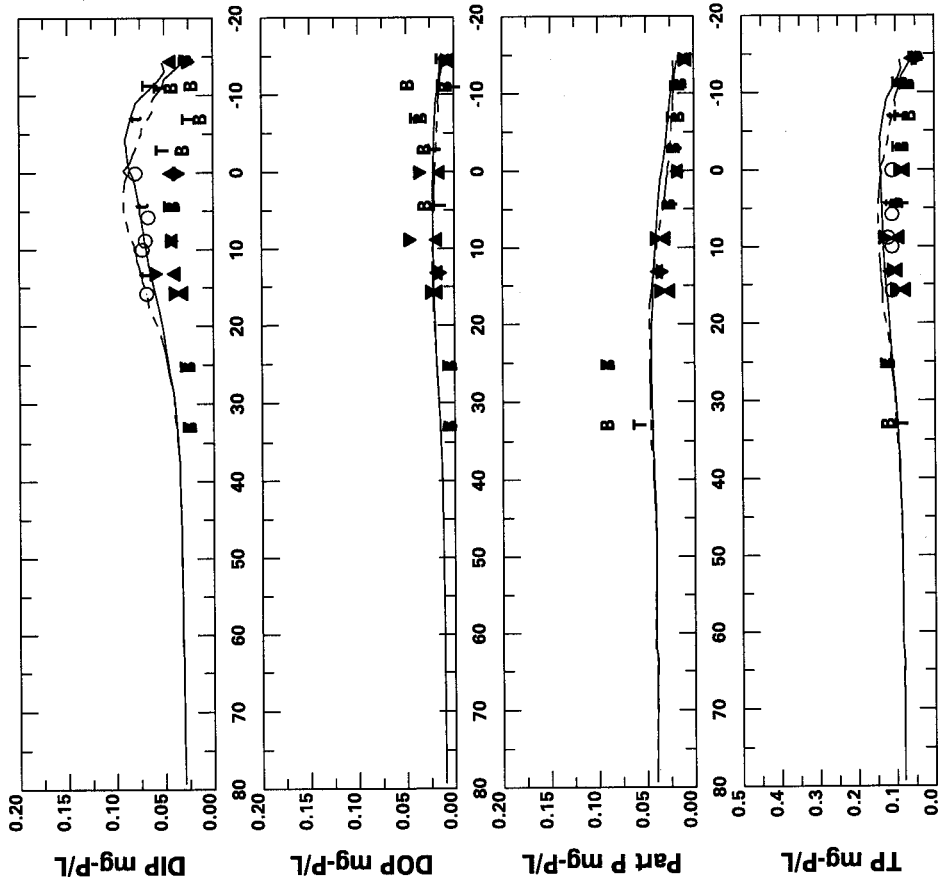
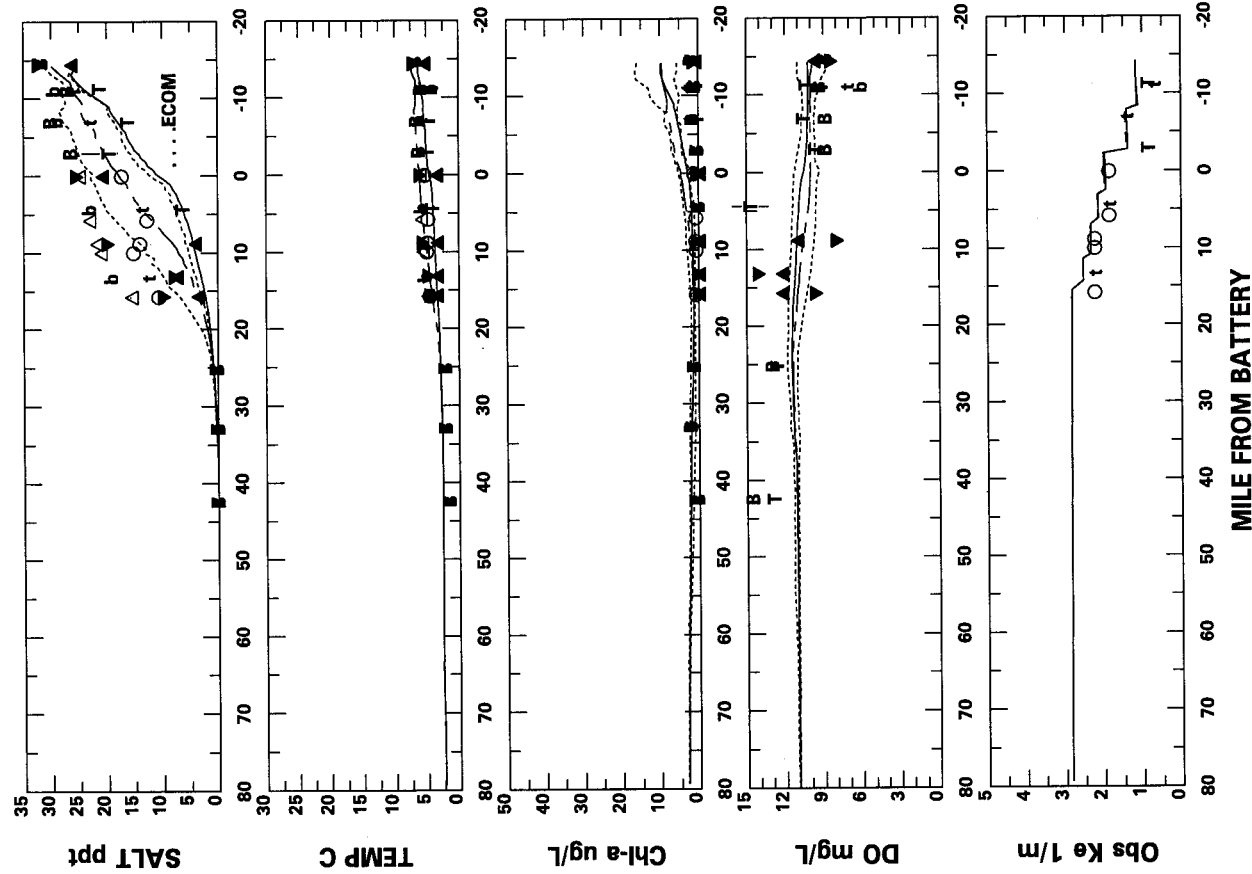
SURF BOT

Transect
Embayment
Transect
Embayment
Transect
Embayment
Transect
Embayment

MILE FROM BATTERY

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Jan 23-31, 1995

NYCDEP 1/95

CON ED 1/95

HydroQual 1/95

SURF BOT

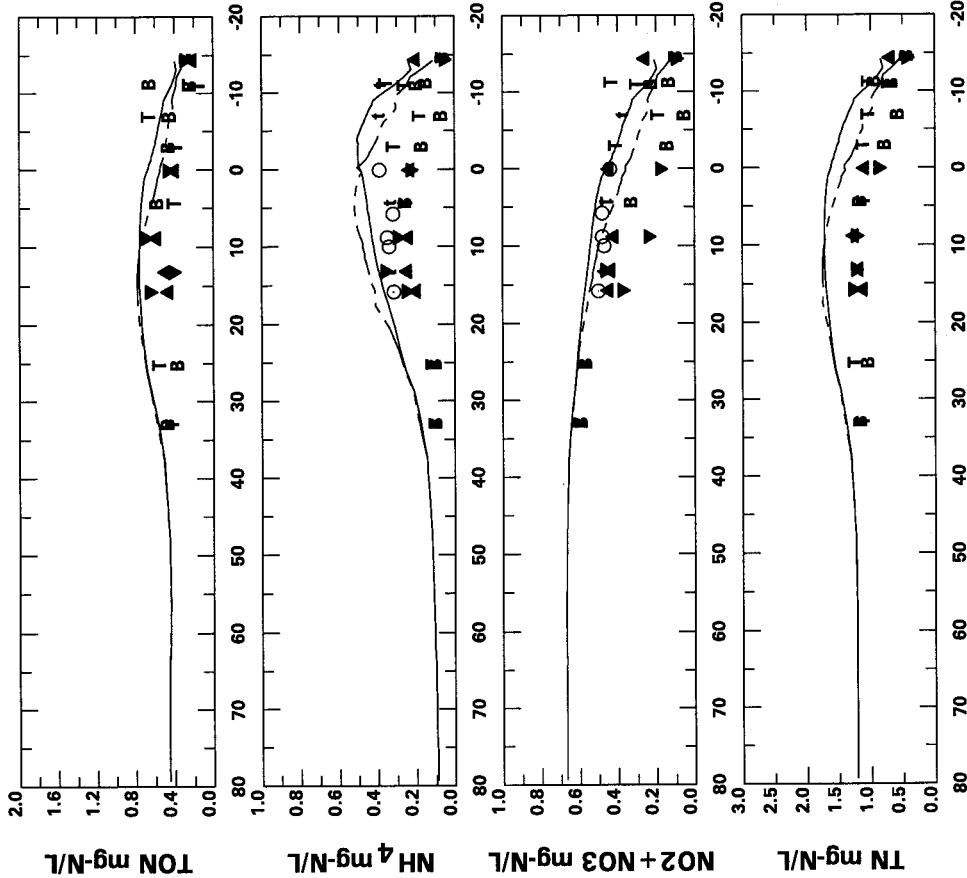
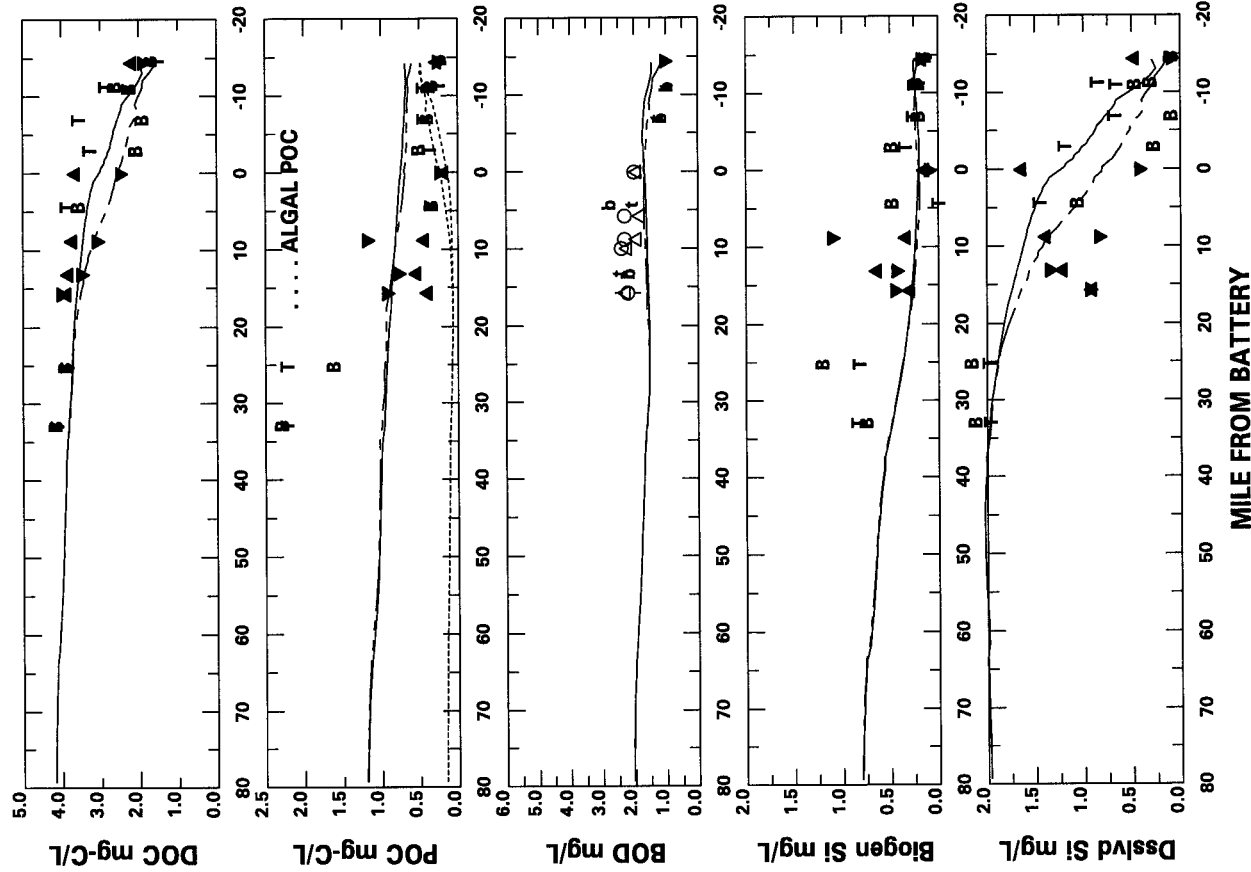
Transect
Embayment
Transect
Embayment
Transect
Embayment
Transect
Embayment

MILE FROM BATTERY

MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Jan 23-31, 1995

NYCDEP 1/95

CON ED 1/95

HydroQual 1/95

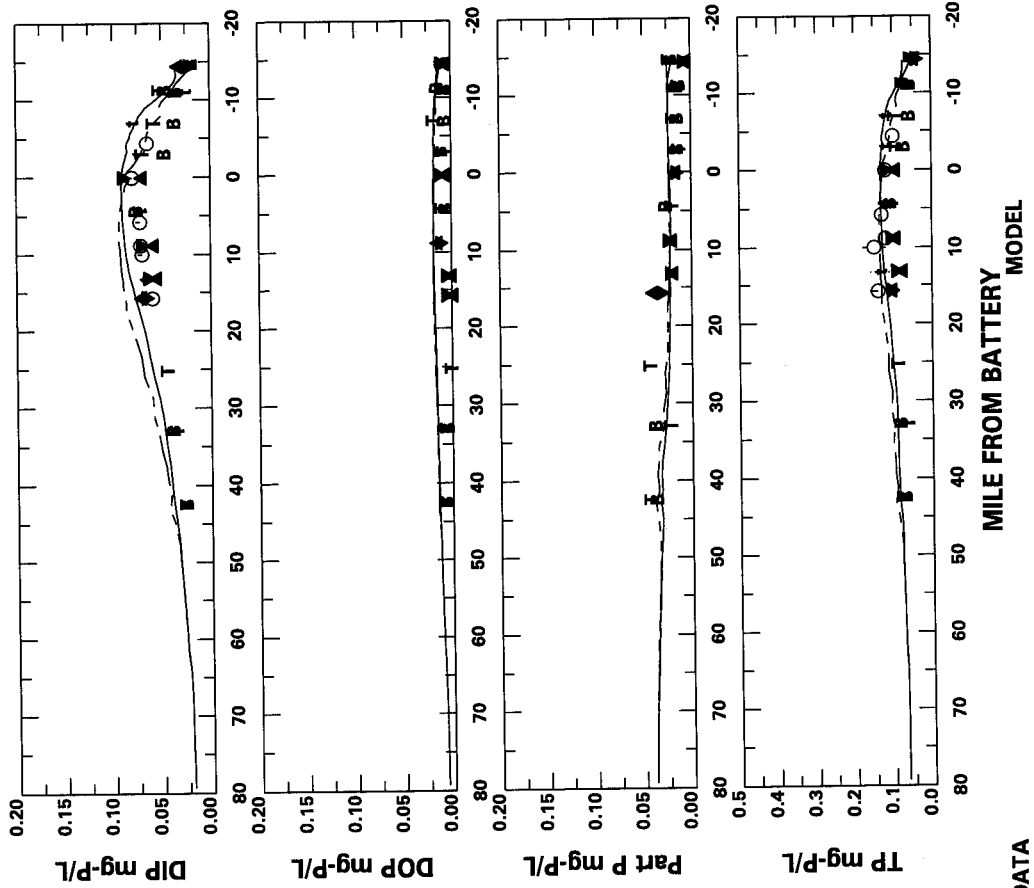
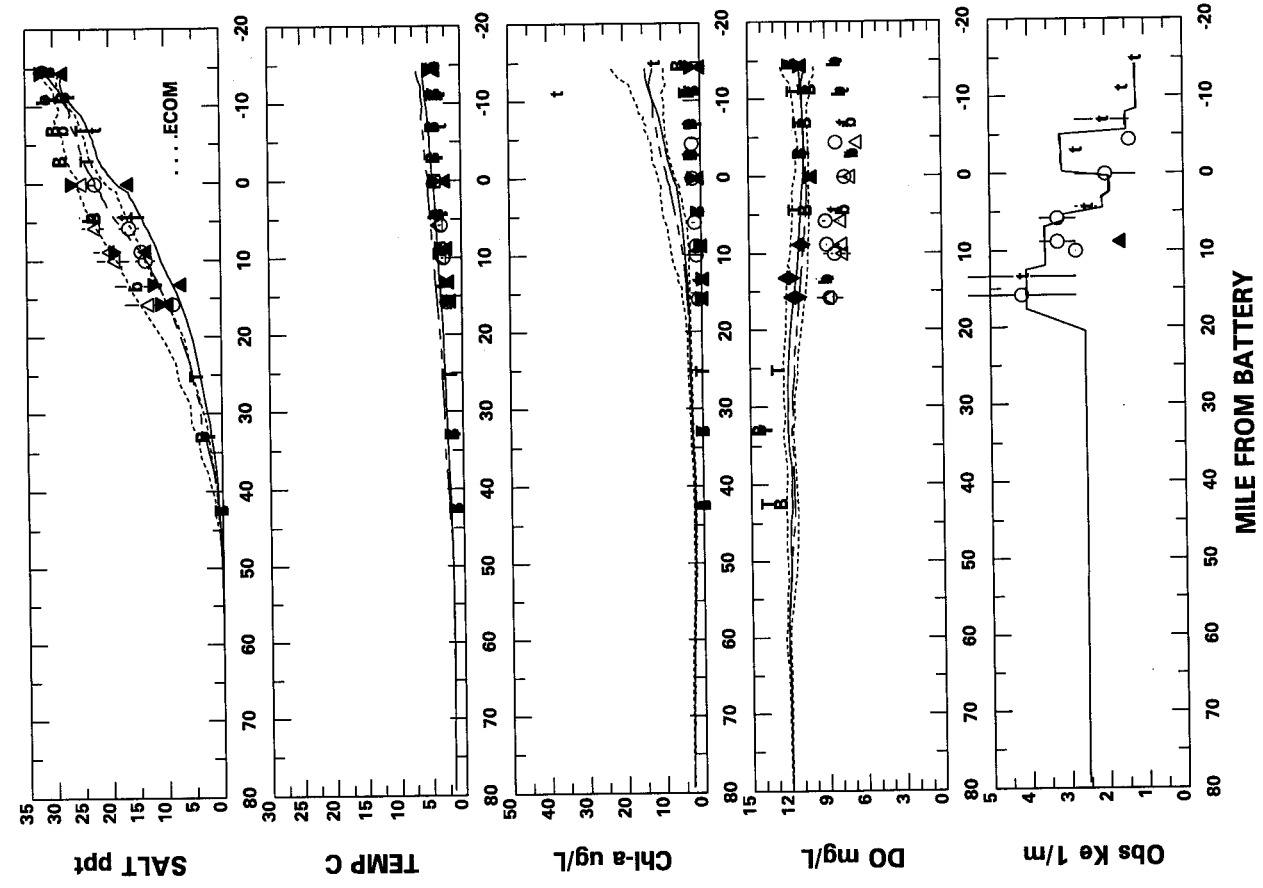
SURF BOT

Transect
Embayment
Transect
Embayment
Transect
Embayment
Transect
Embayment

MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Feb 22-Mar 1, 1995

NYCDEP 2/95

CON ED 2/95

HydroQual 2/95

DATA

SURF BOT

Transect (filled triangle)

Embayment (open triangle)

Transect (open circle)

Embayment (open circle with dot)

Transect (open square)

Embayment (open square with dot)

Transect (X)

Embayment (u)

MODEL

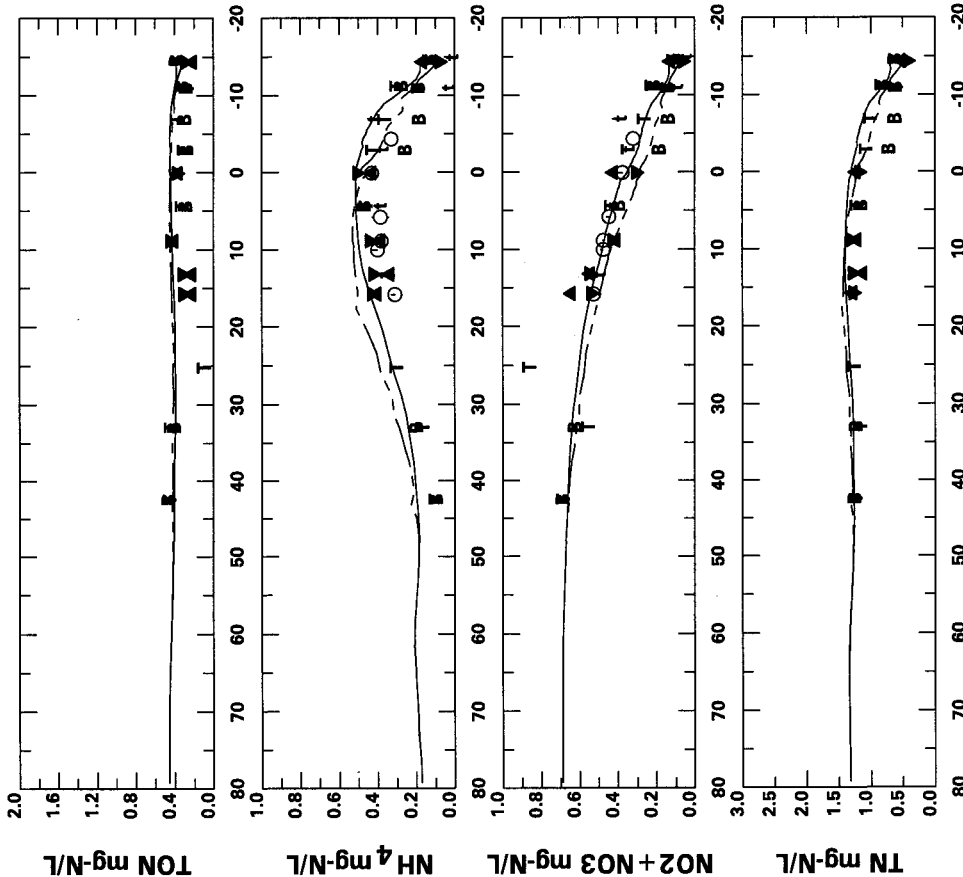
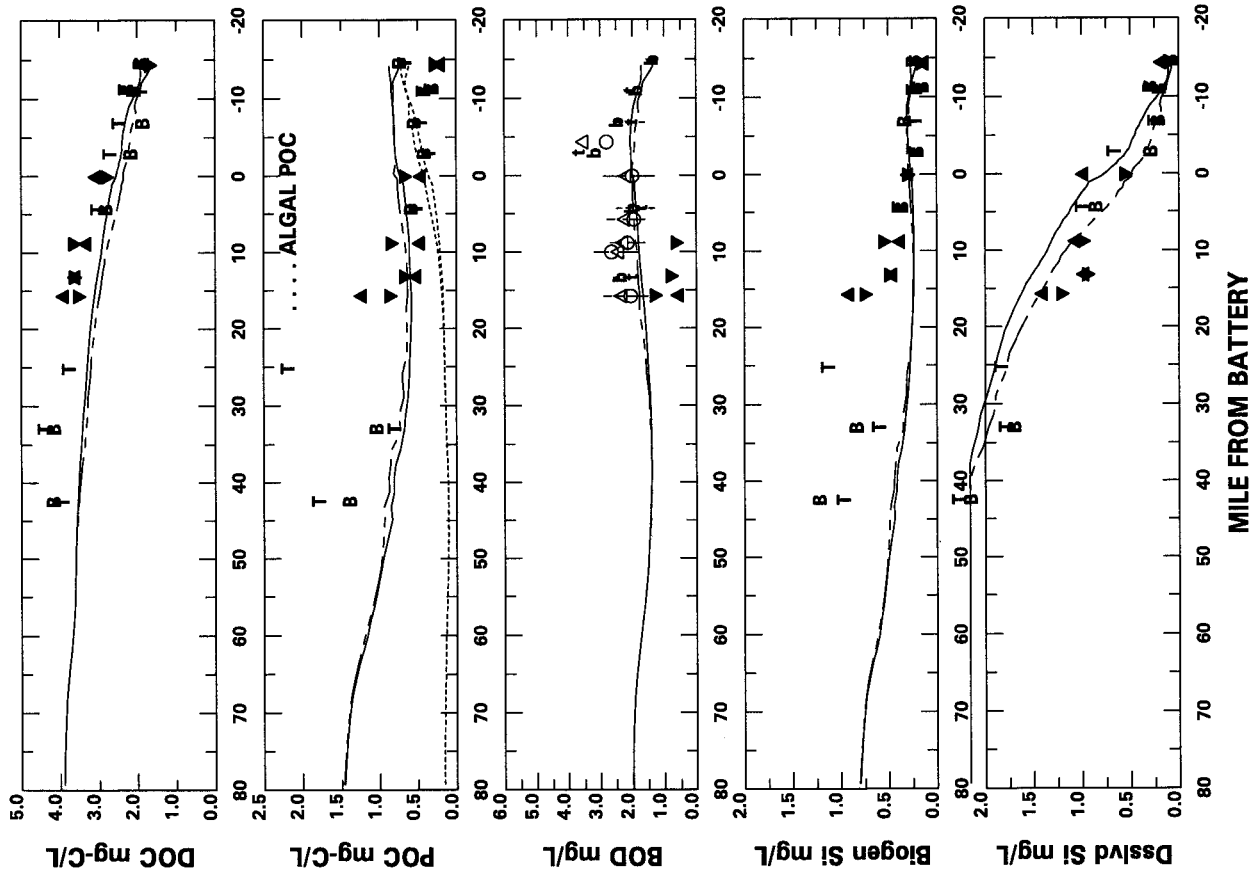
SURFACE 10-DAY MEAN (solid line)

BOTTOM 10-DAY MEAN (dashed line)

10-DAY SURFACE MAX OR BOTTOM MIN (dash-dot line)

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3

SWEM REVISED CALIBRATION



DATA

Battelle Feb 22-Mar 1, 1995

NYCDEP 2/95

CON ED 2/95

HydroQual 2/95

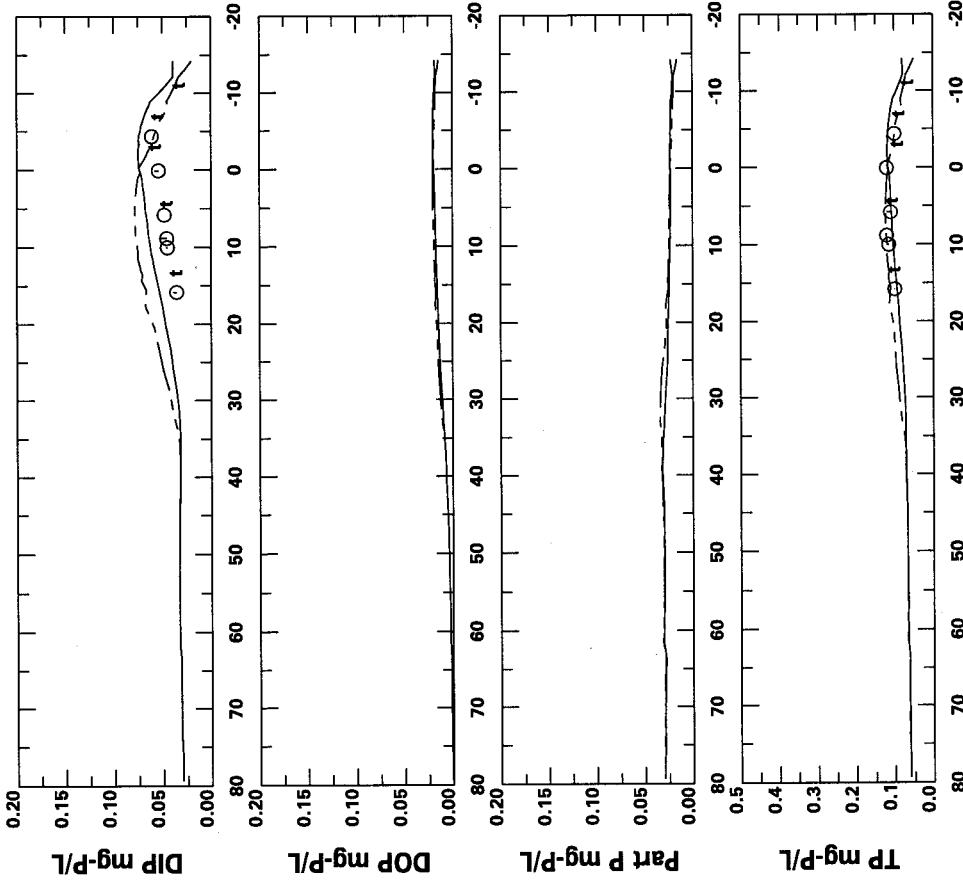
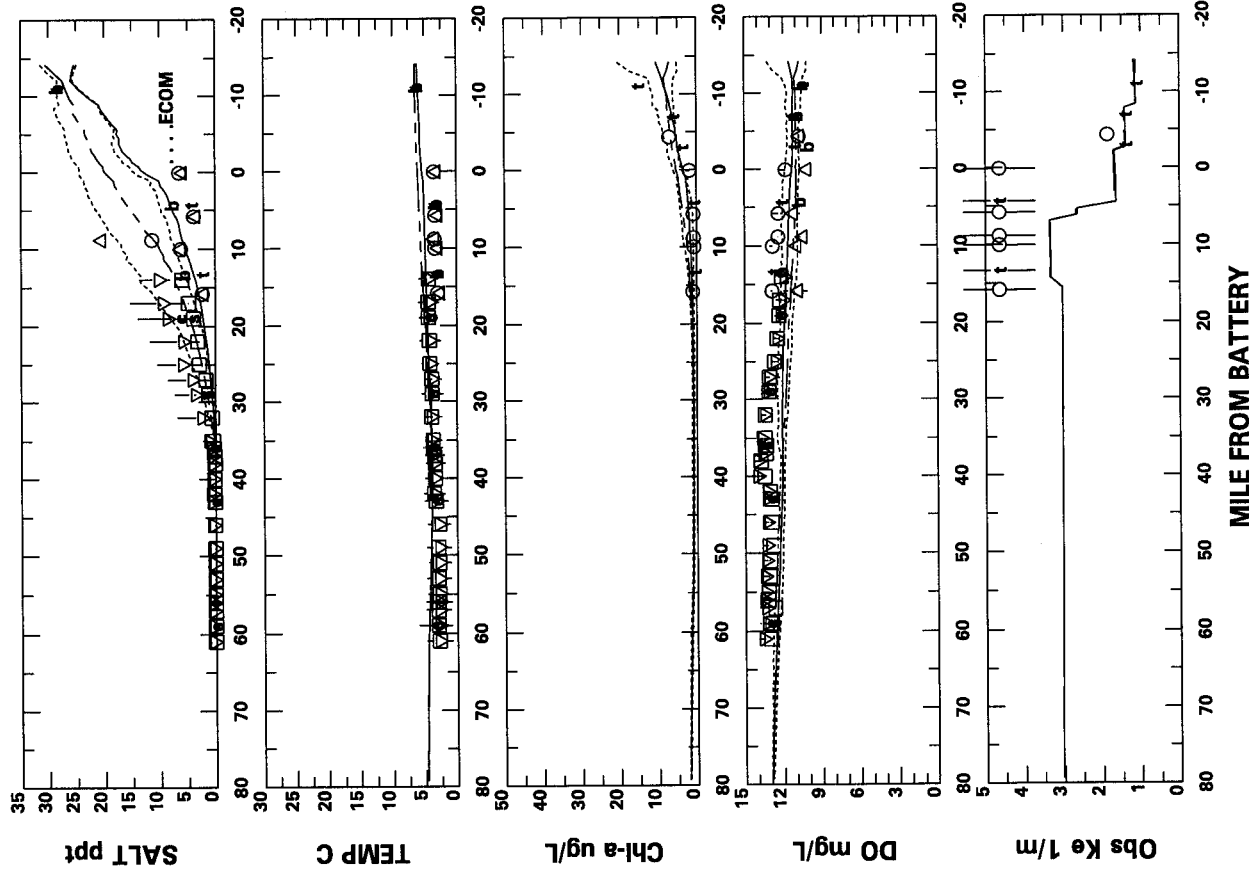
SURF BOT

- Transect
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MODEL

- SURFACE 10-DAY MEAN
- BOTTOM 10-DAY MEAN
- 10-DAY SURFACE MAX OR BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle March 9-18, 1995

NYCDEP 3/95

CON ED 3/95

HydroQual 3/95

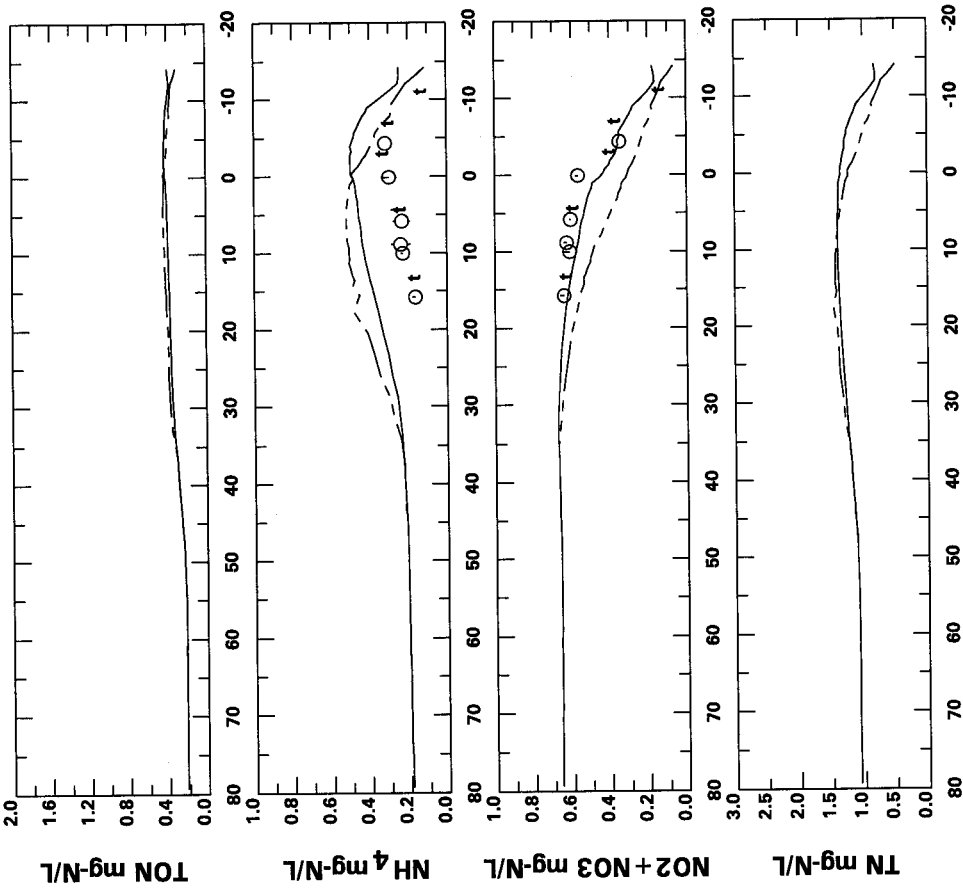
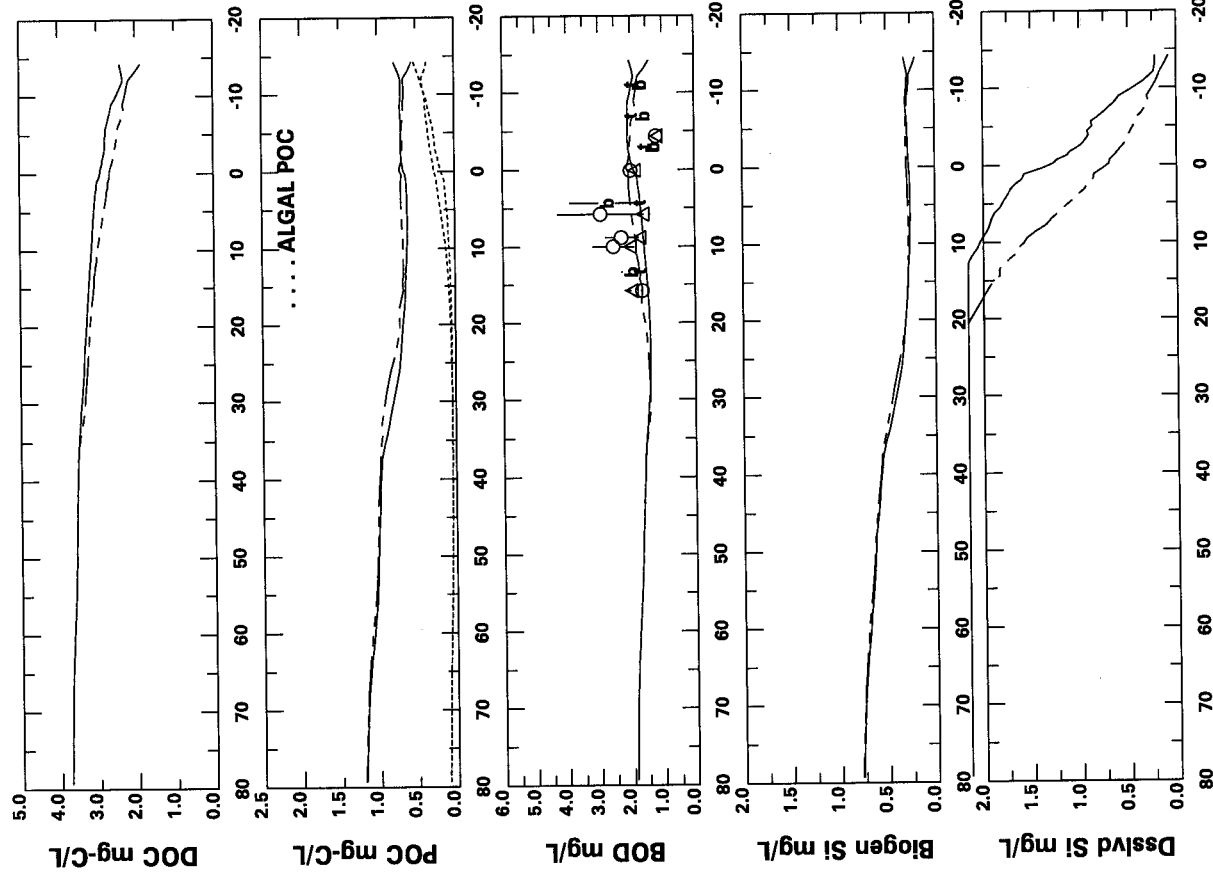
SURF BOT

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MODEL

— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

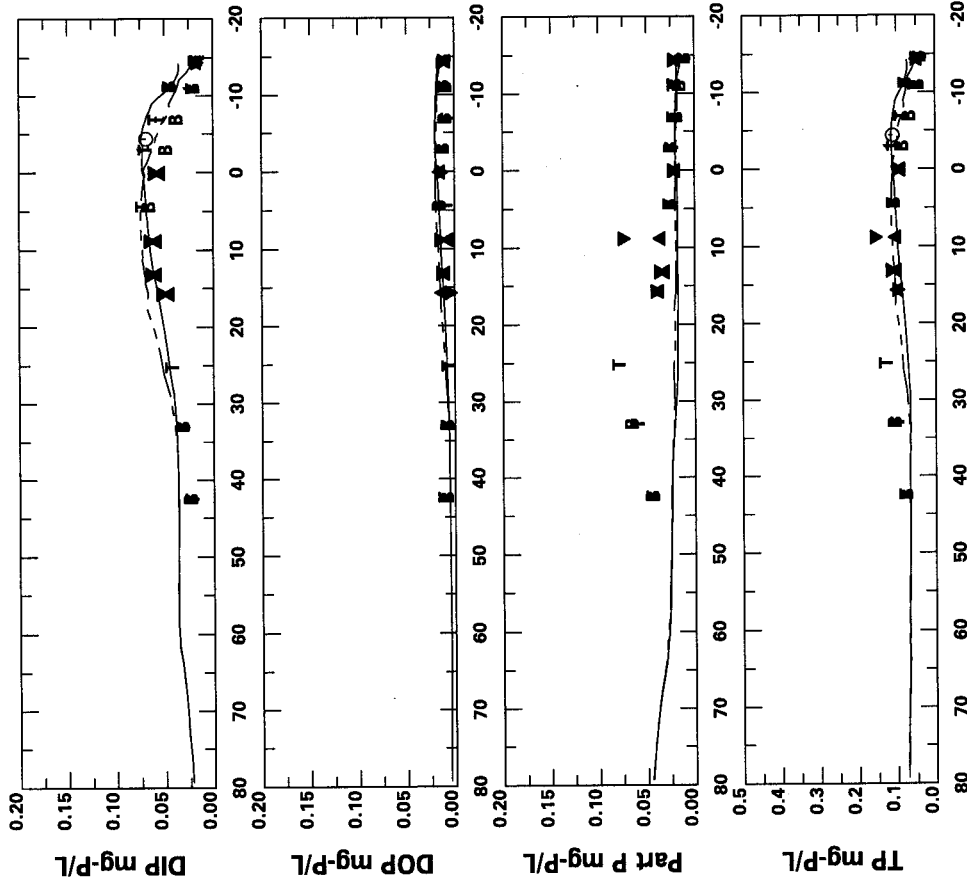
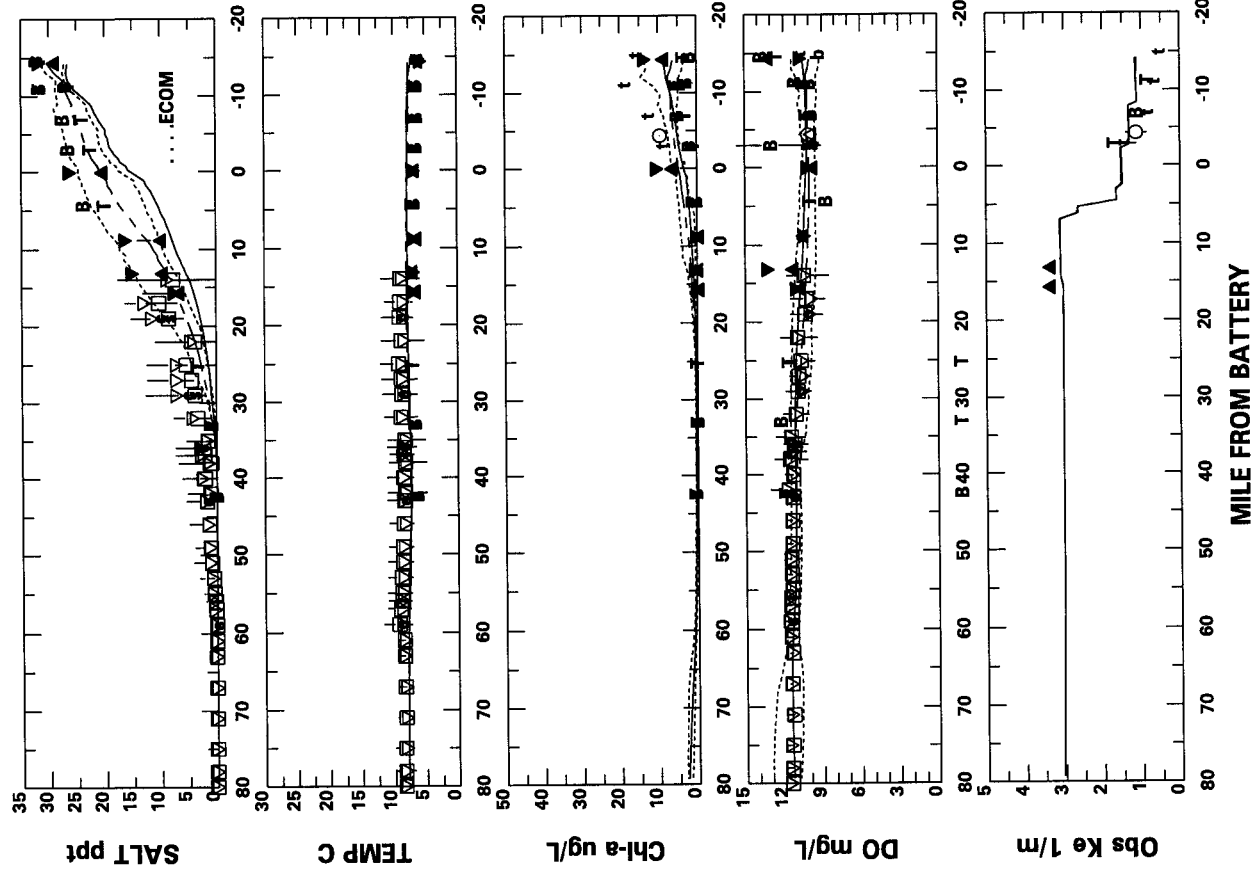
Battelle March 9-18, 1995
 NYCDEP 3/95
 CON ED 3/95
 HydroQual 3/95

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SURFACE 10-DAY MEAN
 BOTTOM 10-DAY MEAN
 10-DAY SURFACE MAX OR
 BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3
 SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8,
1995

NYCDEP 4/95

CON ED 4/95

HydroQual 4/95

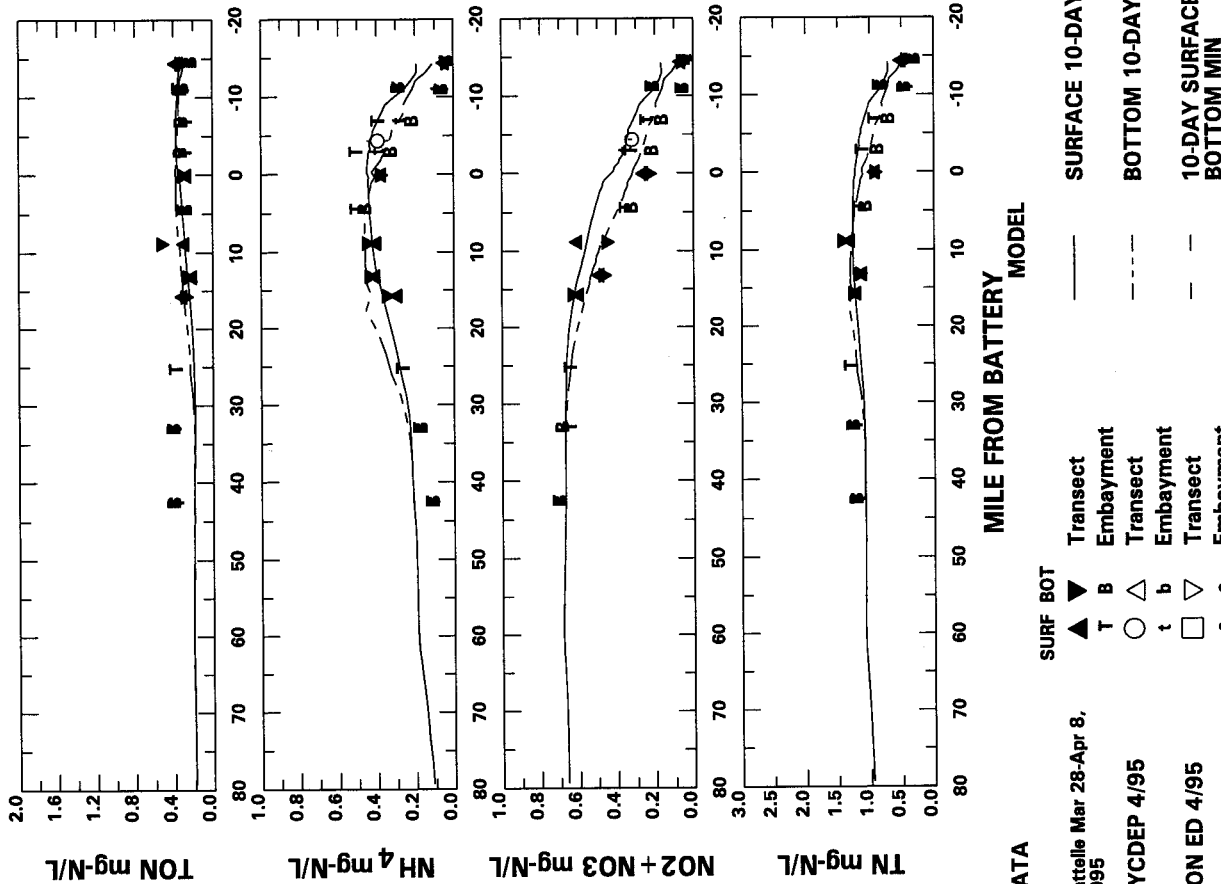
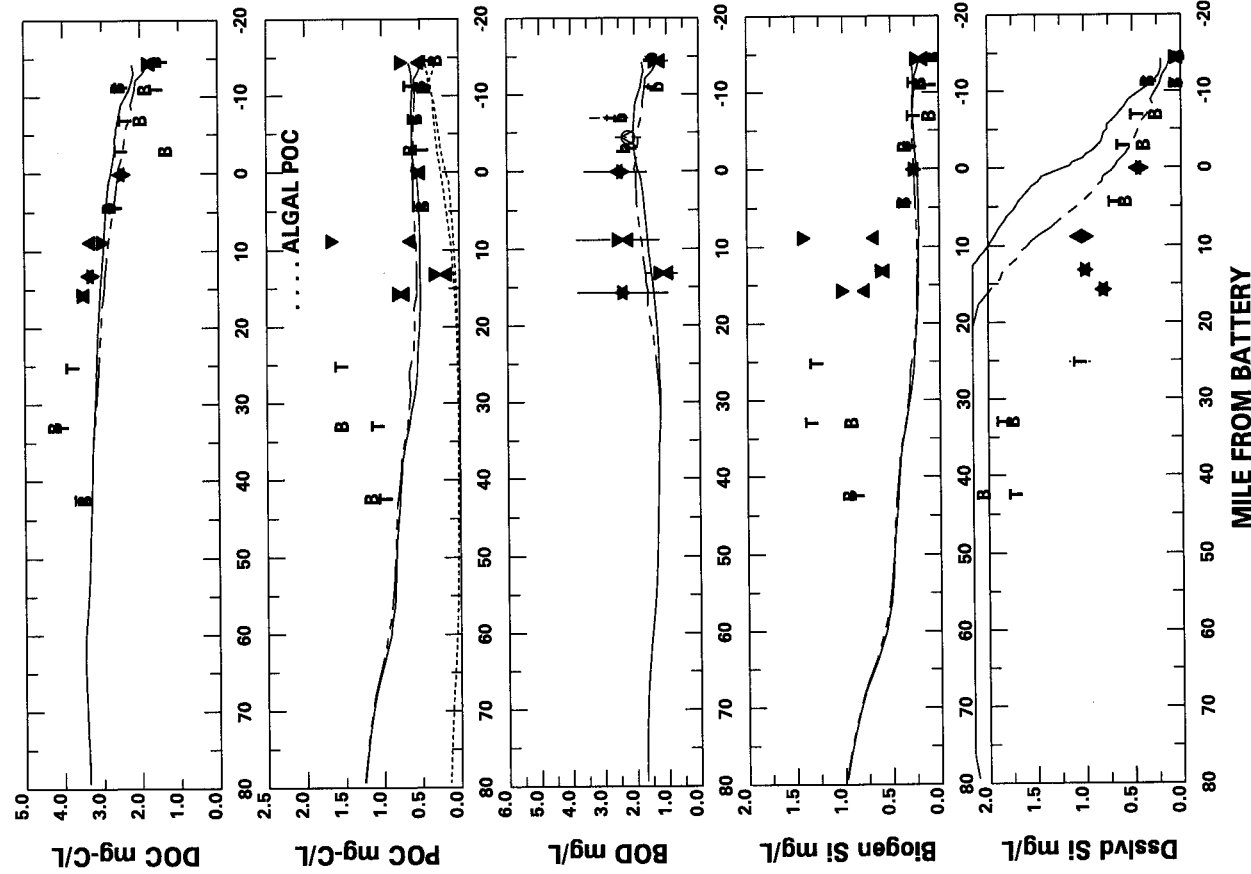
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MODEL

— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR
 BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8,
1995

NYCDEP 4/95

CON ED 4/95

HydroQual 4/95

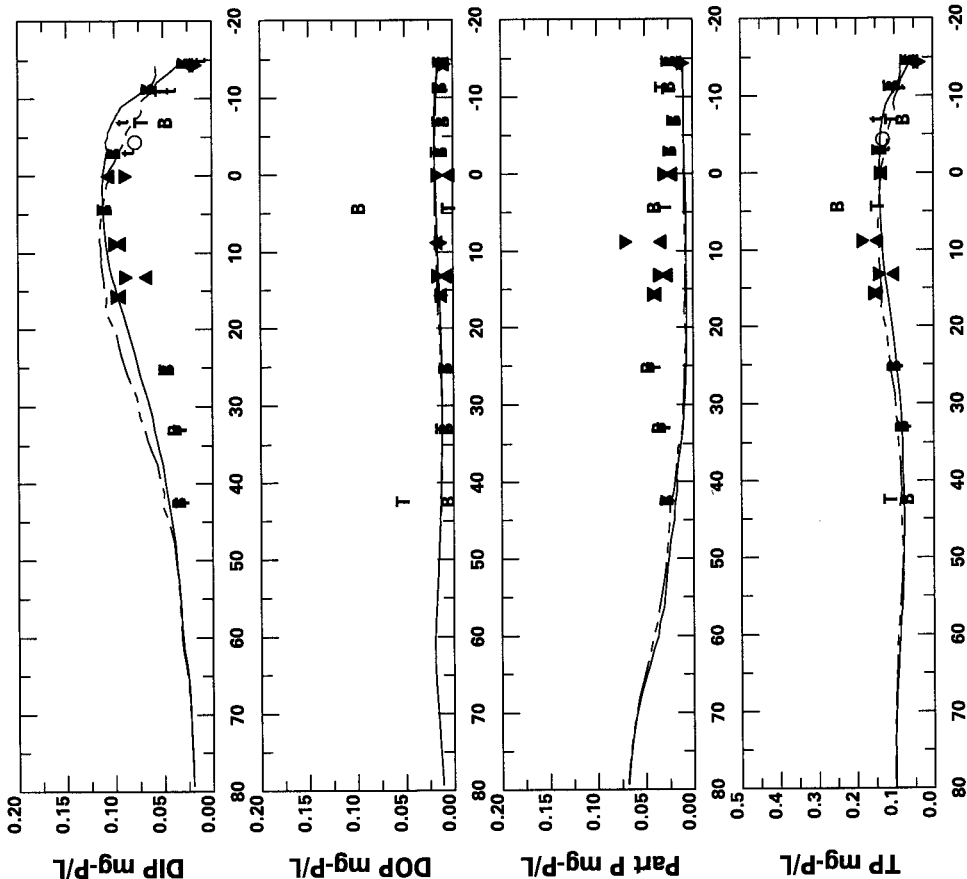
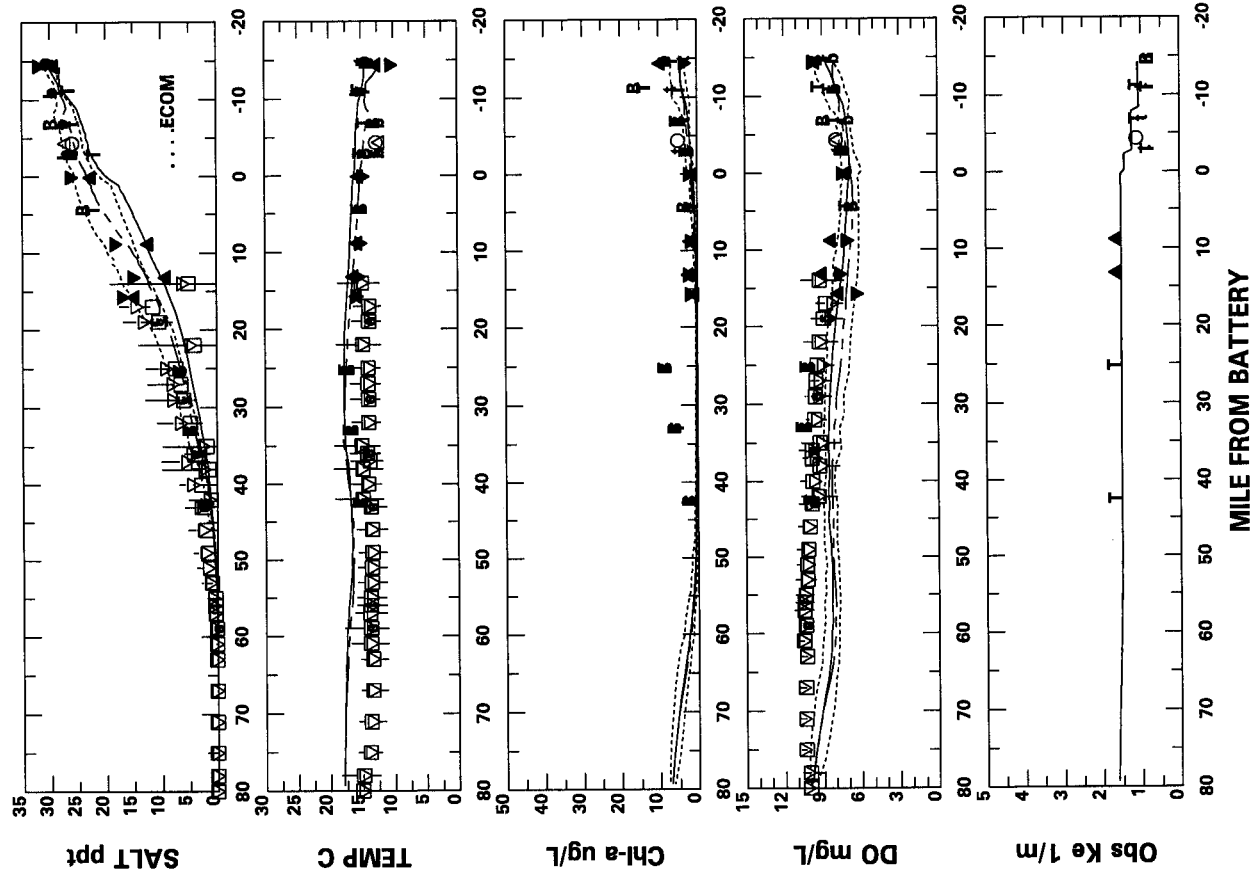
SURF BOT

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MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995

NYCDEP 5/95

CON ED 5/95

HydroQual 5/95

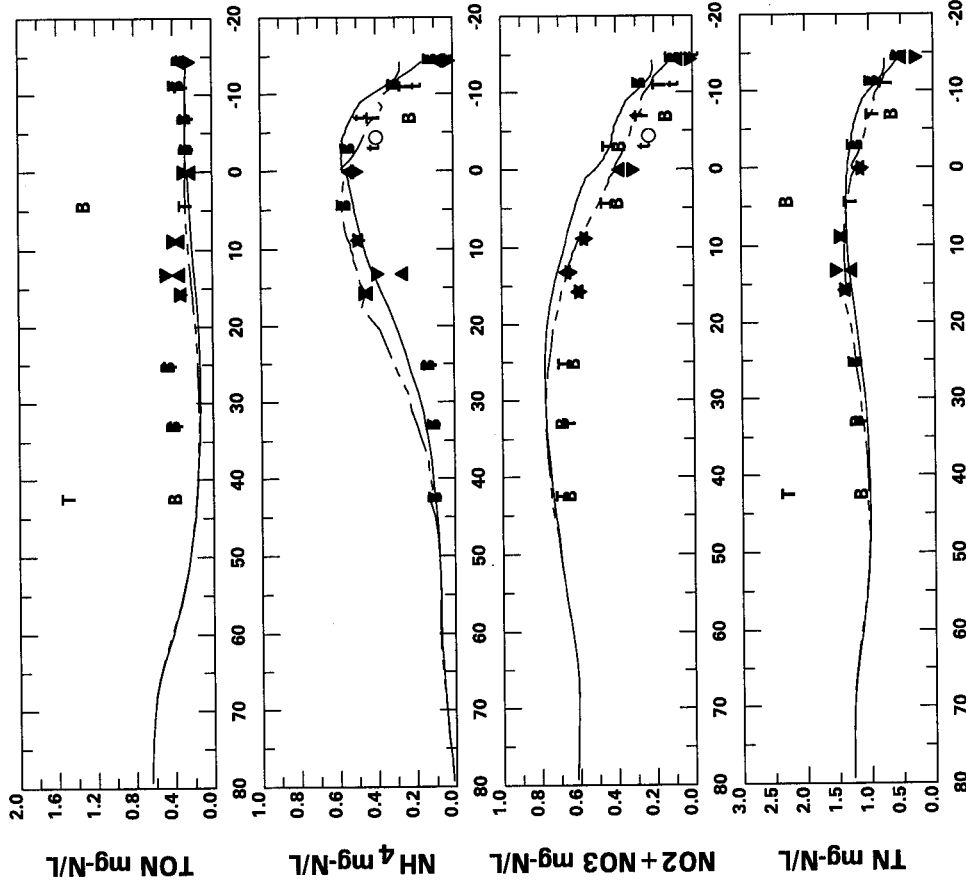
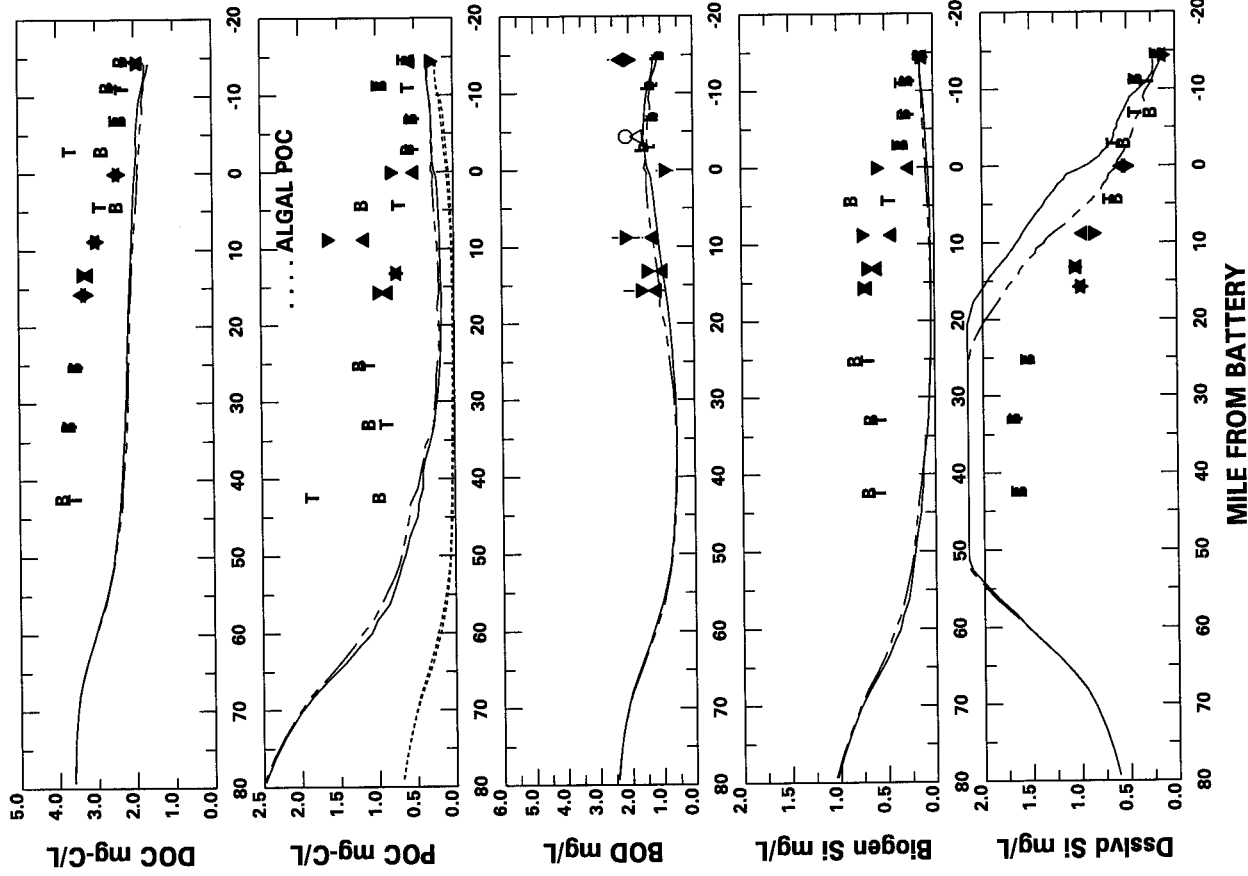
SURF BOT

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MILE FROM BATTERY MODEL

— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995

NYCDEP 5/95

CON ED 5/95

HydroQual 5/95

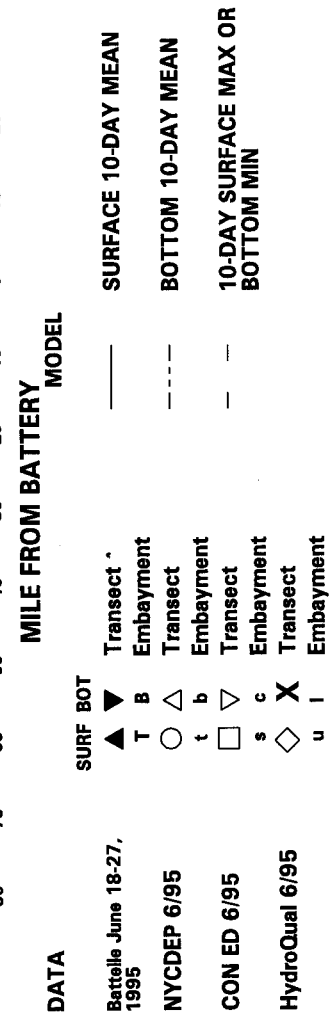
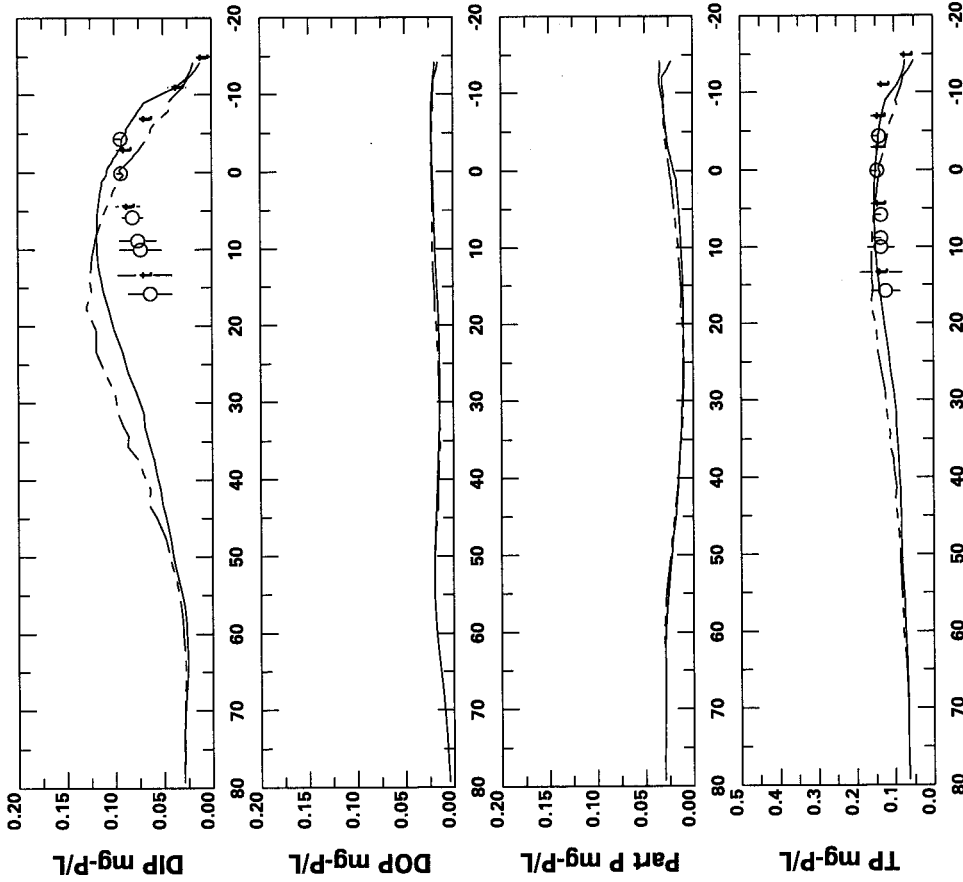
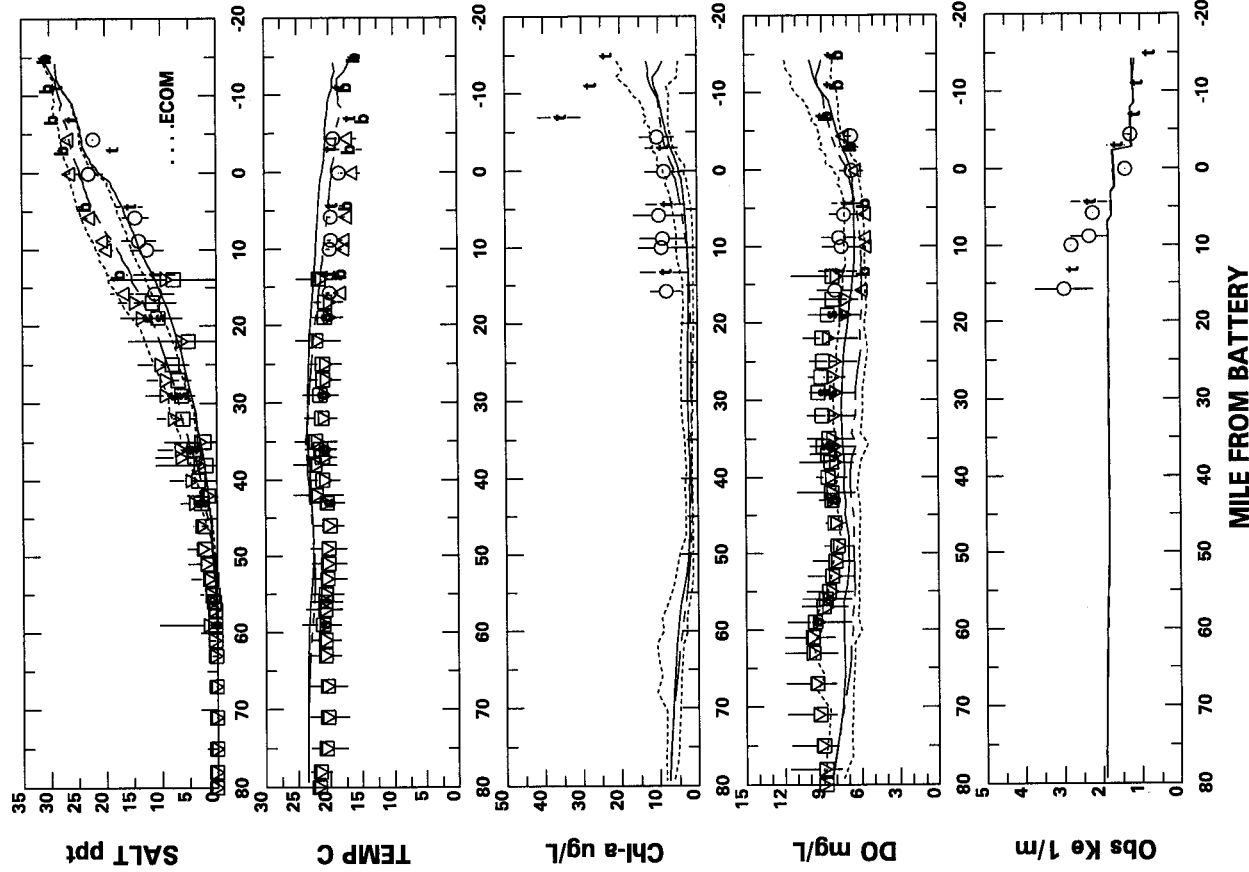
SURF BOT

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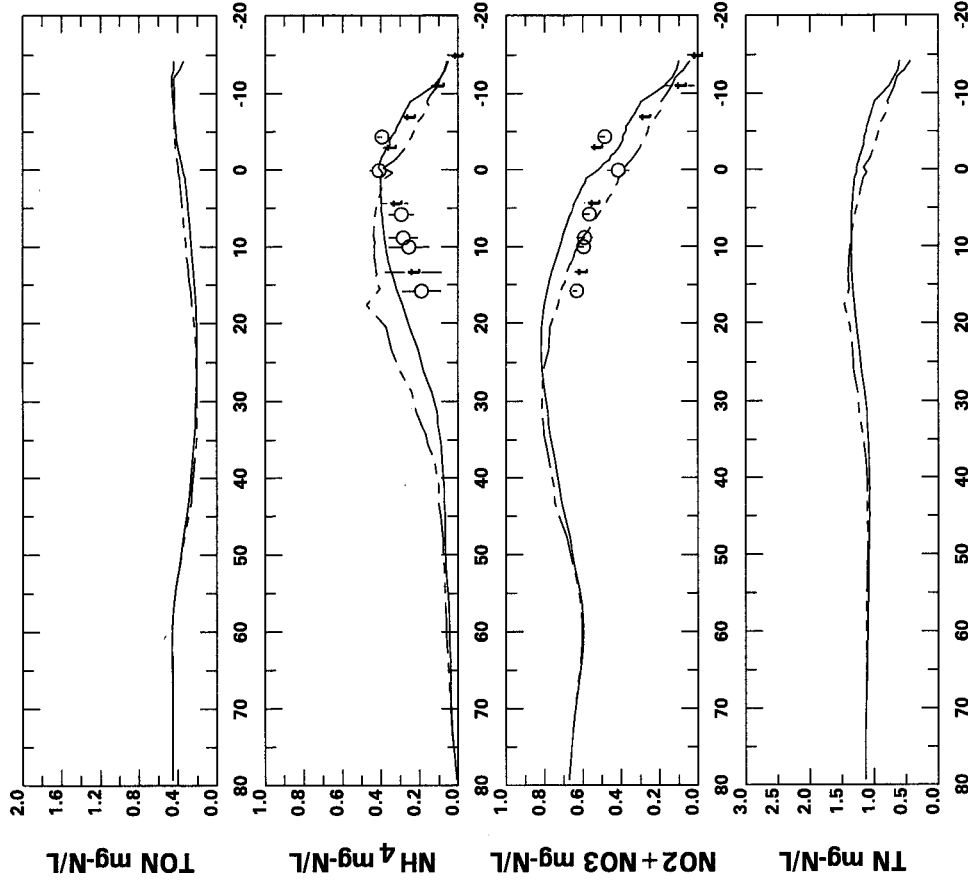
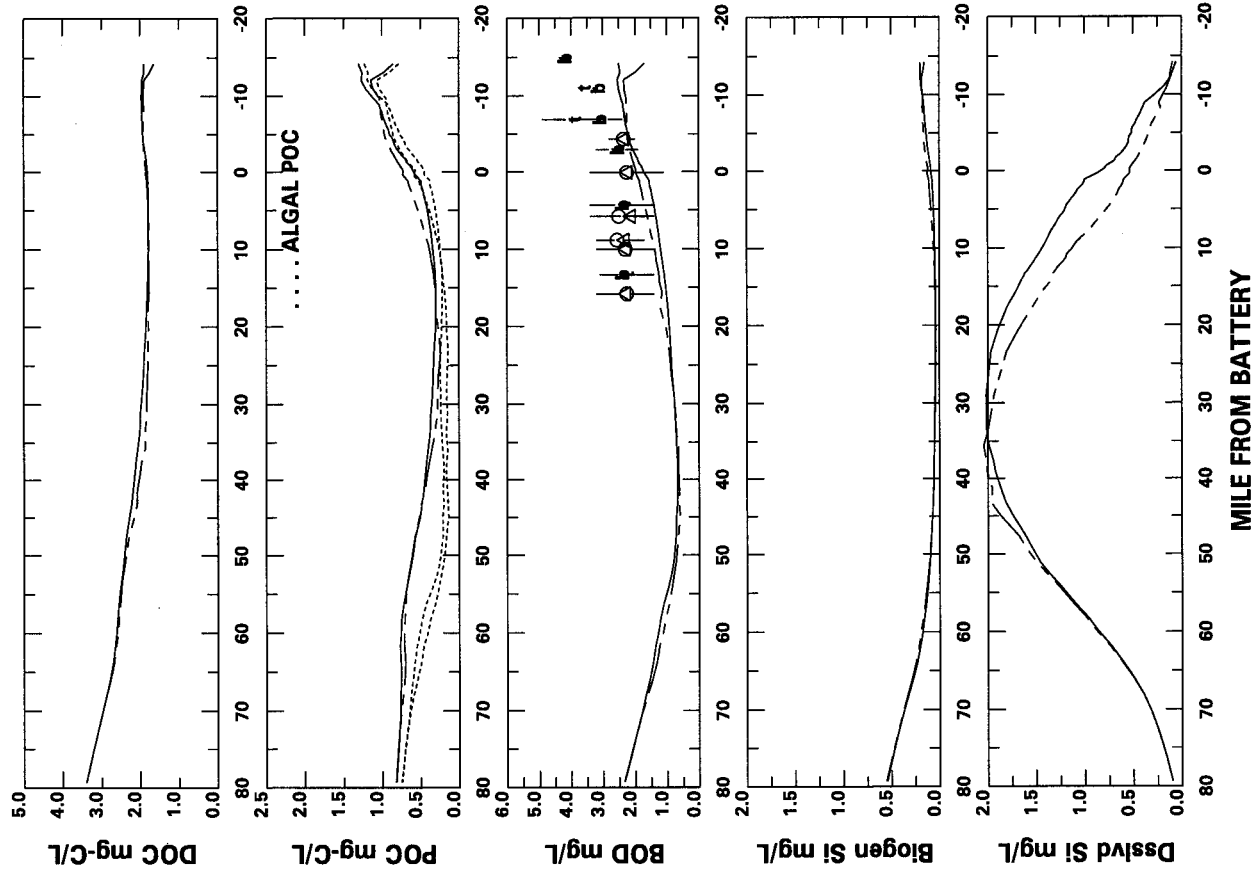
MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle June 18-27, 1995

NYCDEP 6/95

CON ED 6/95

HydroQual 6/95

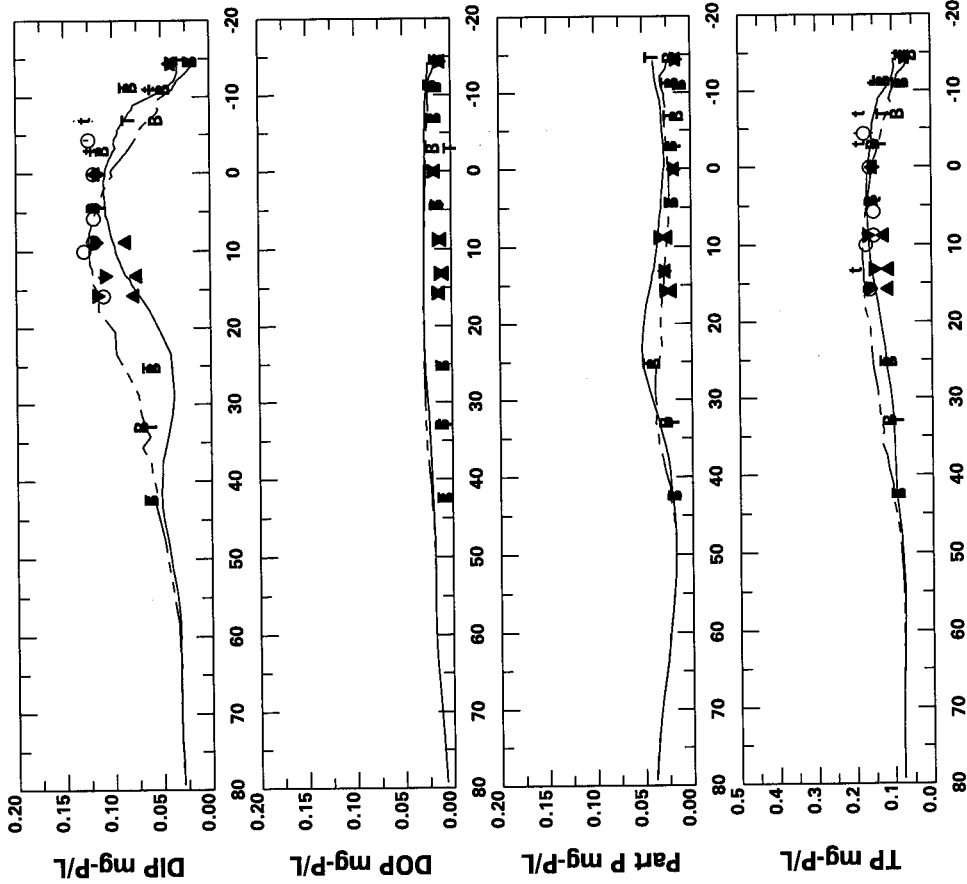
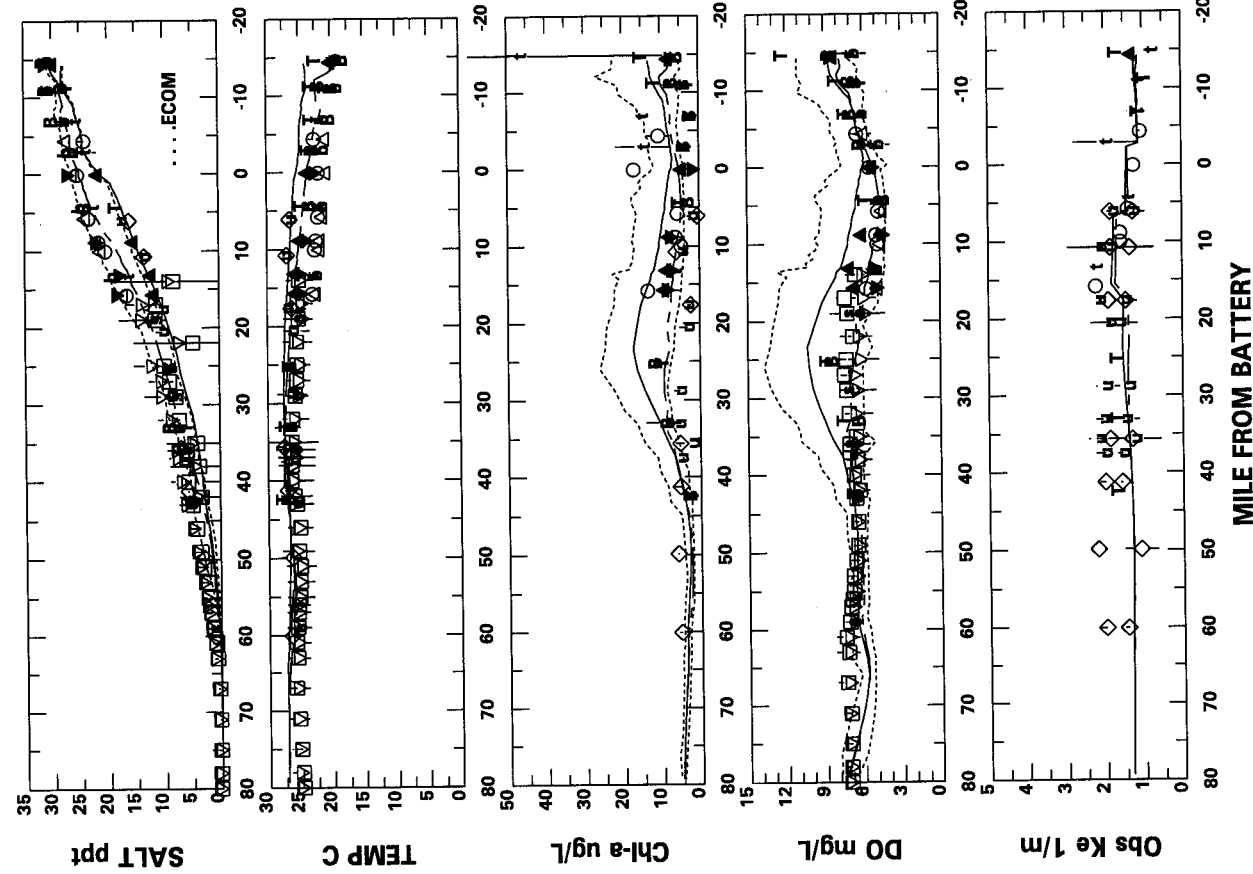
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— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR BOTTOM MIN

MODEL

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2,
1995

NYCDEP 7/95

CON ED 7/95

HydroQual 7/95

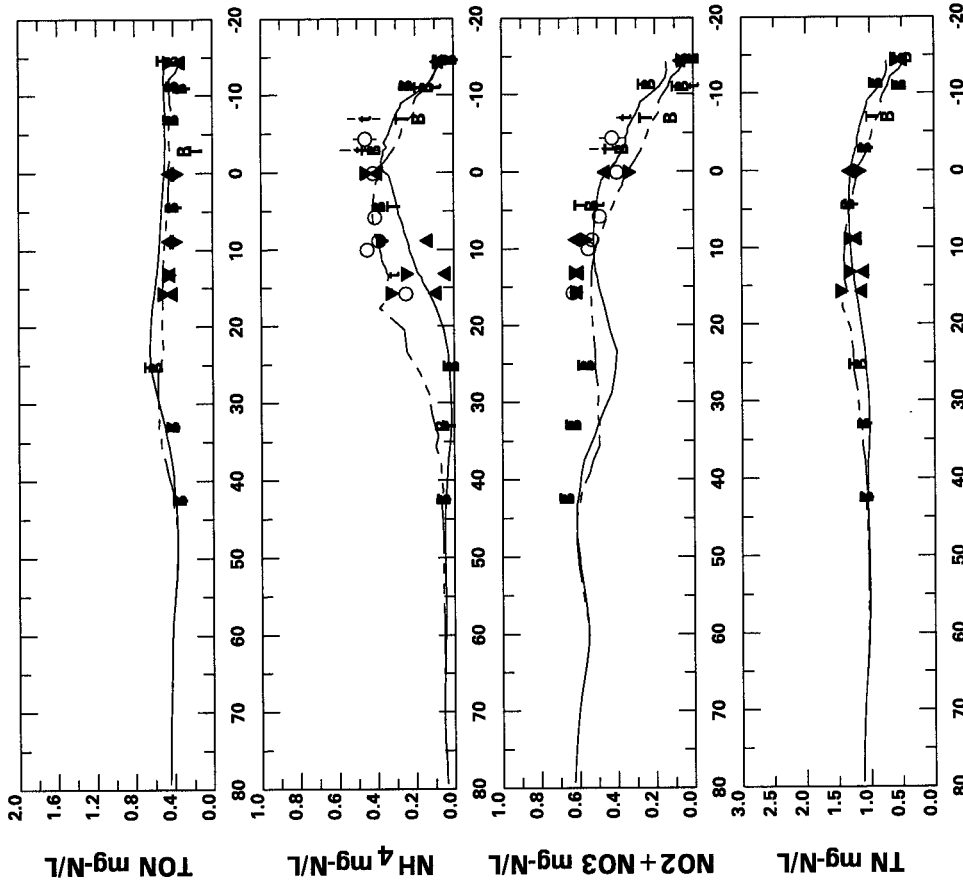
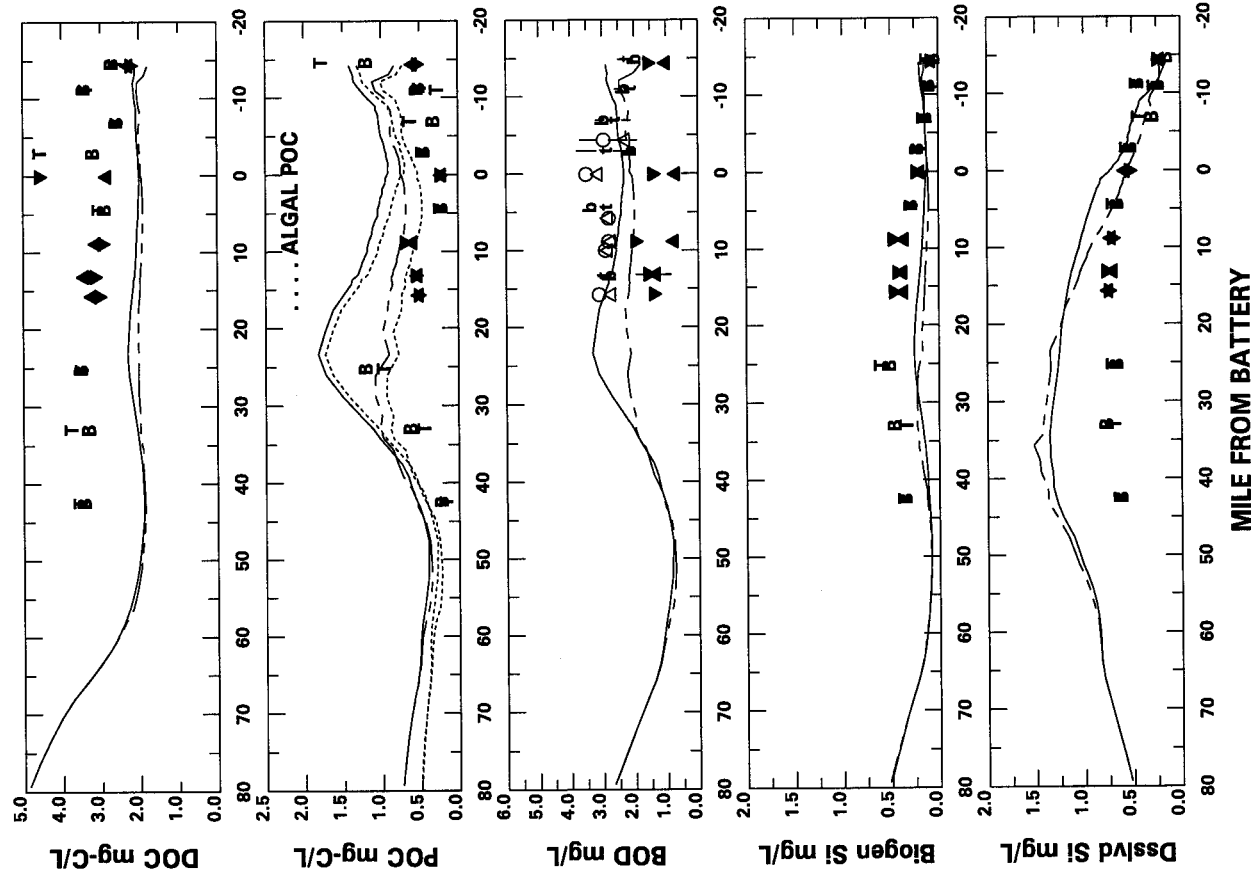
SURF BOT

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MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2, 1995

NYCDEP 7/95

CON ED 7/95

HydroQual 7/95

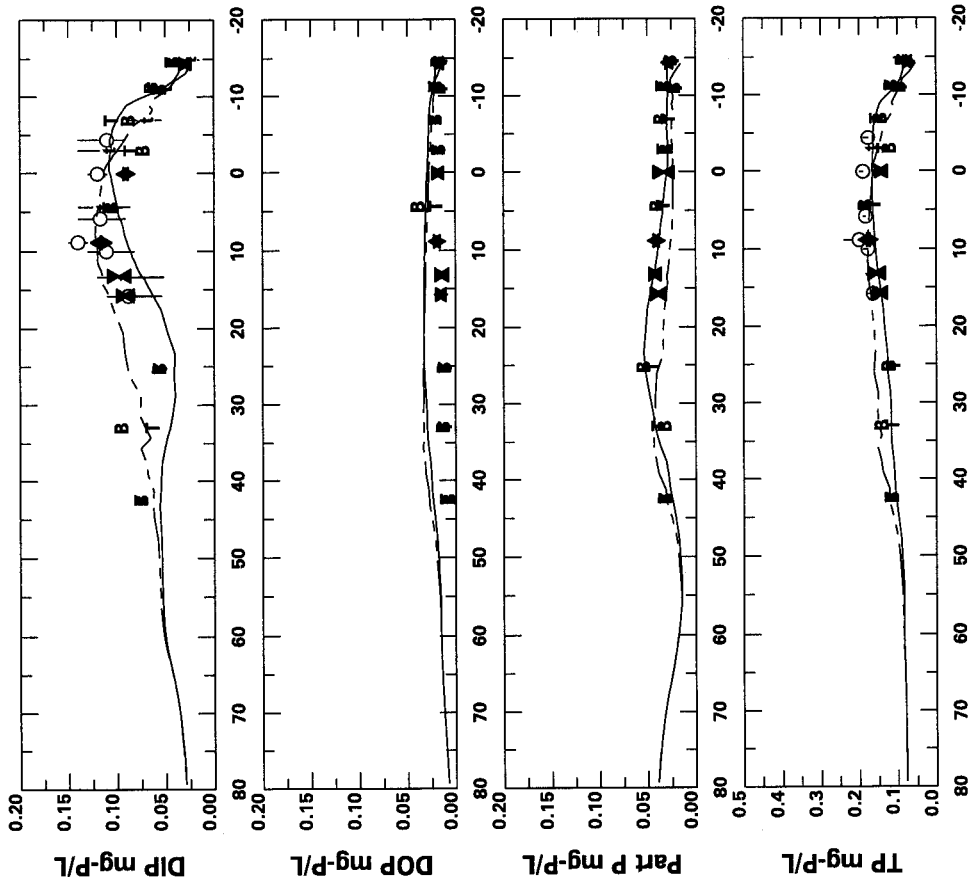
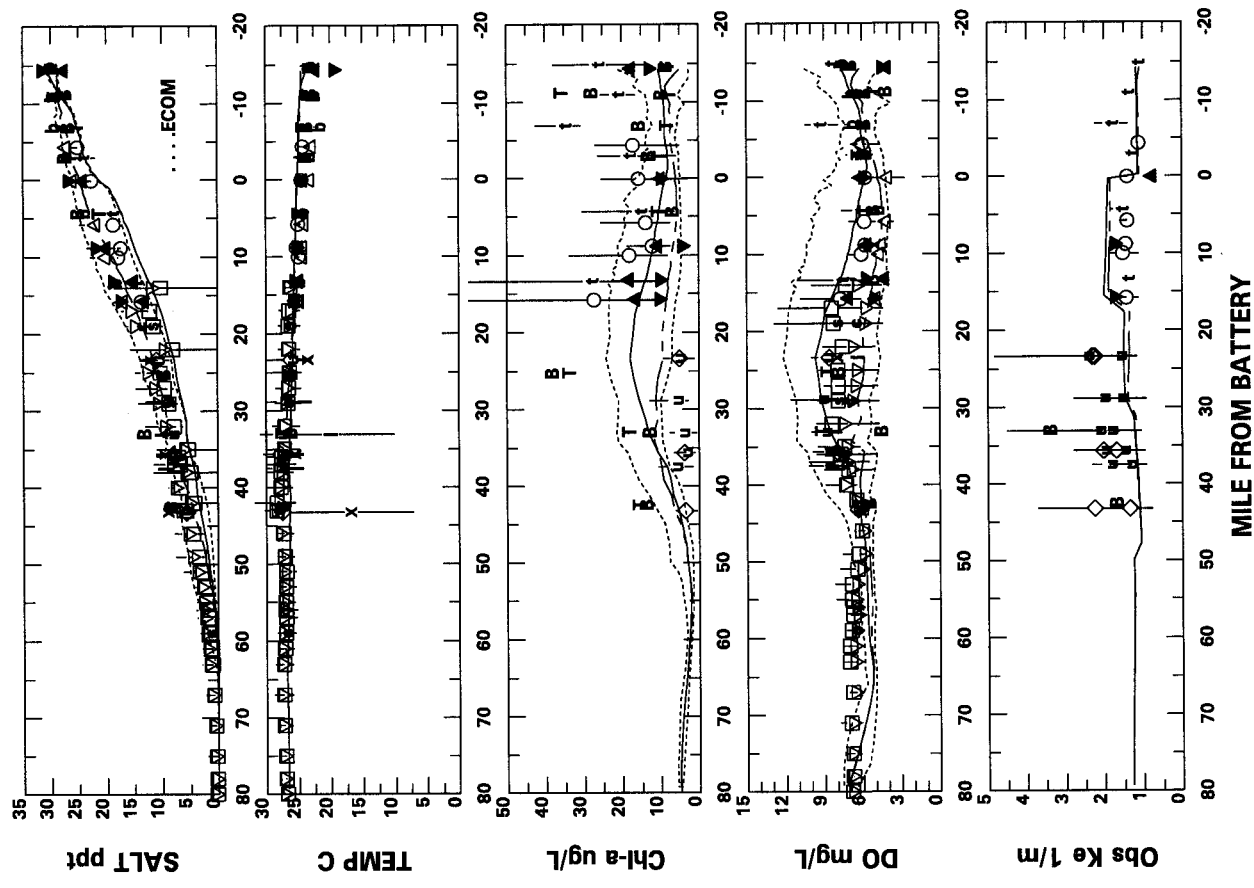
SURF BOT

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MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Aug 20-29, 1995
 NYCDEP 8/95
 CON ED 8/95
 HydroQual 8/95

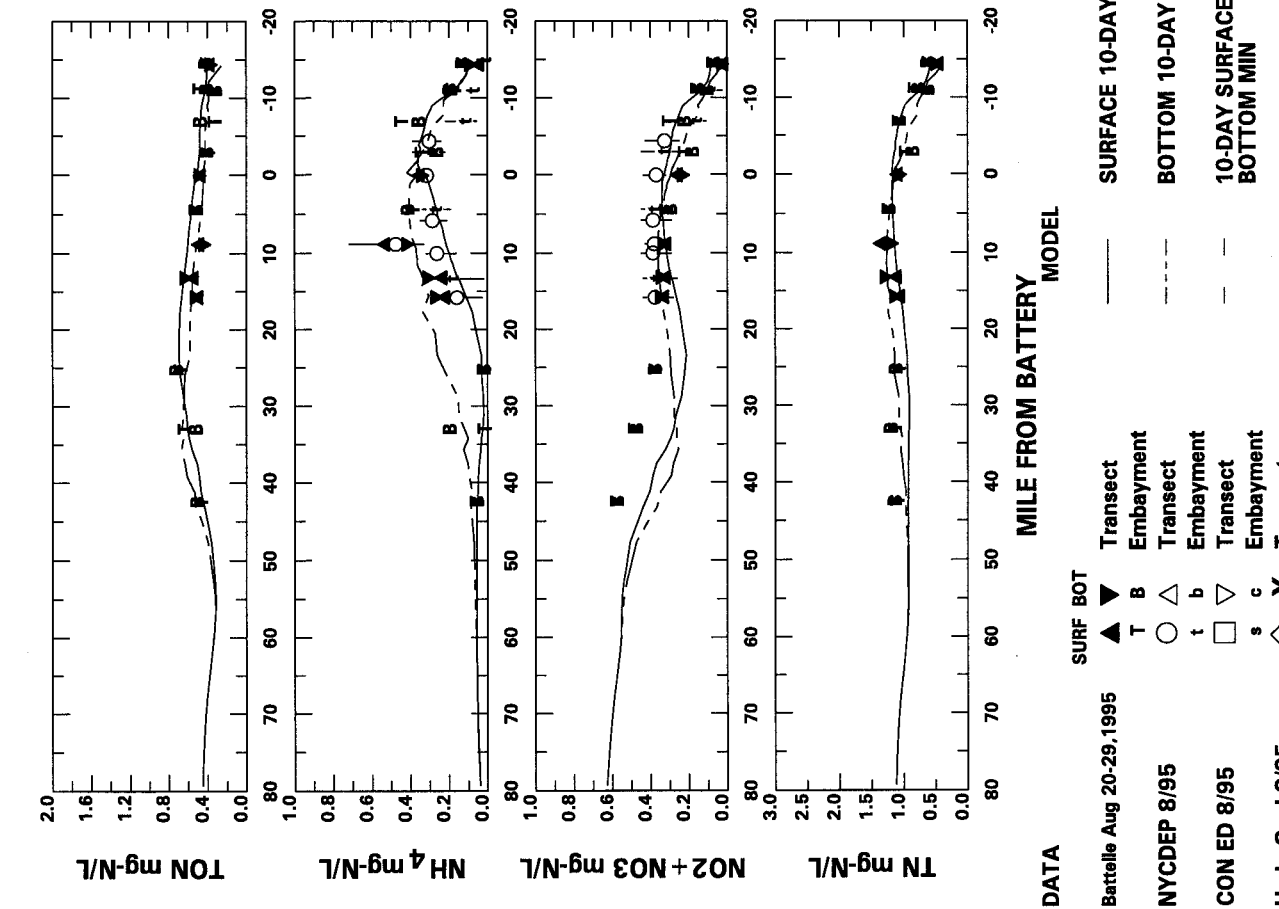
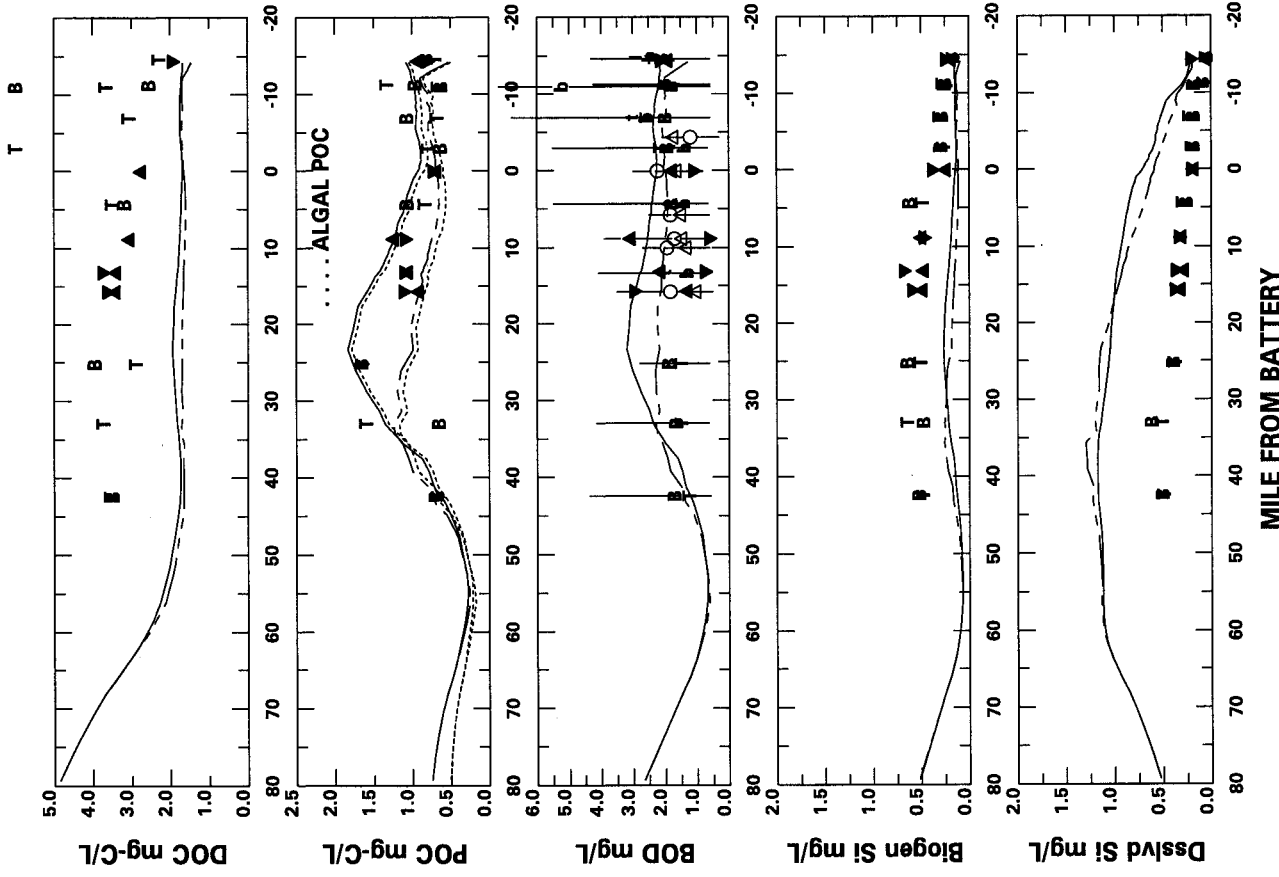
SURF BOT

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MILE FROM BATTERY MODEL

SURFACE 10-DAY MEAN
 BOTTOM 10-DAY MEAN
 10-DAY SURFACE MAX OR
 BOTTOM MIN

**HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3
 SWEM REVISED CALIBRATION**



DATA

SURF BOT

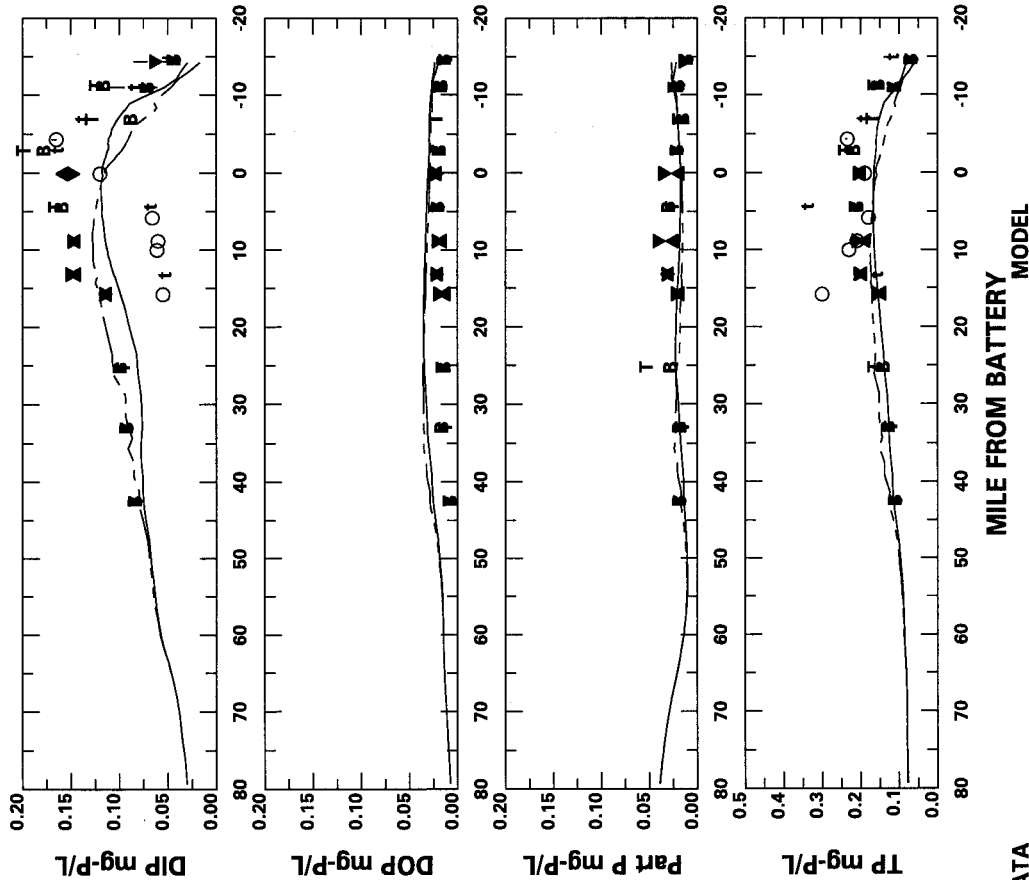
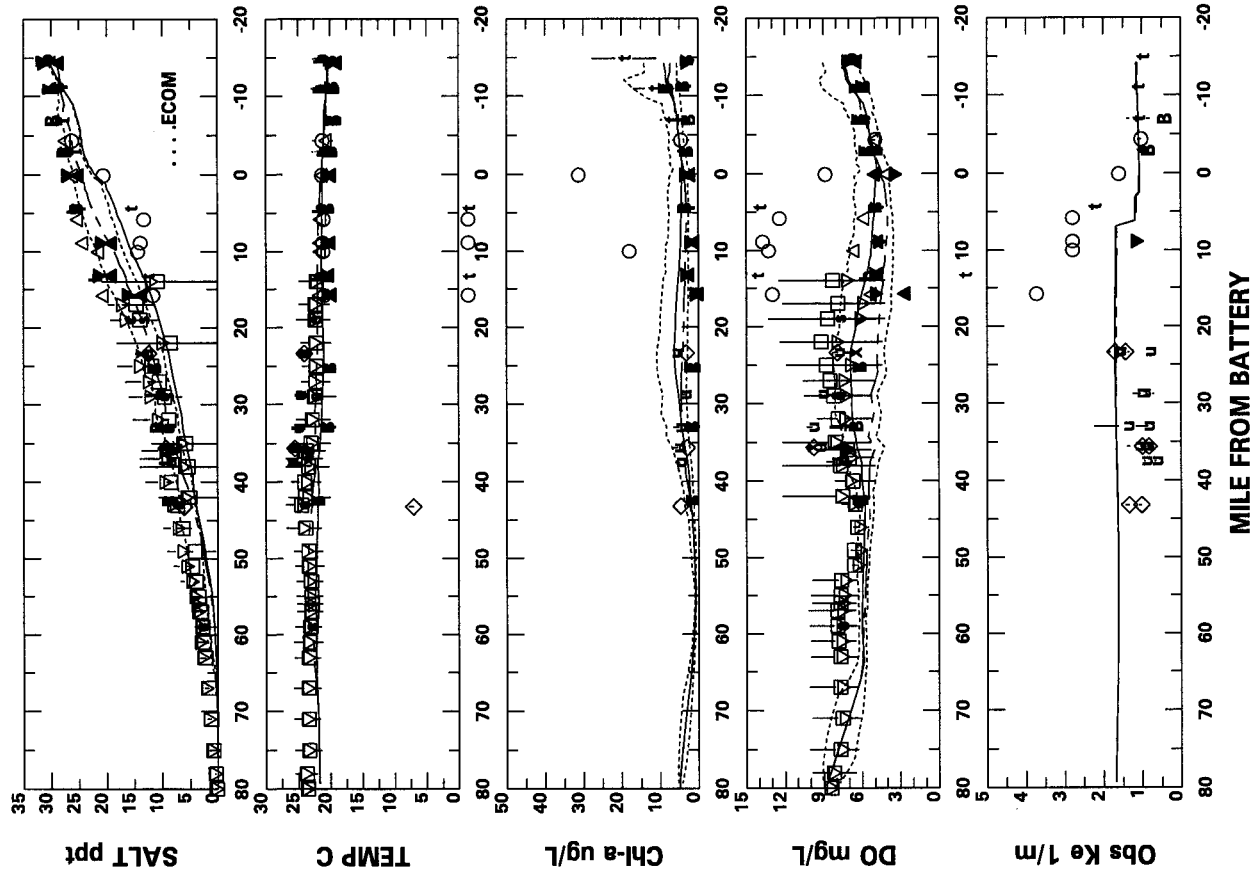
- Battelle Aug 20-29, 1995
- NYCDEP 8/95
- CON ED 8/95
- HydroQual 8/95
- Transect
- Embayment
- Transect
- Embayment
- Transect
- Embayment
- Transect
- Embayment

MILE FROM BATTERY

MODEL

- SURFACE 10-DAY MEAN
- BOTTOM 10-DAY MEAN
- 10-DAY SURFACE MAX OR BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

SURF BOT

Battelle Sep 23-Oct 2, 1995

NYCDEP 9/95

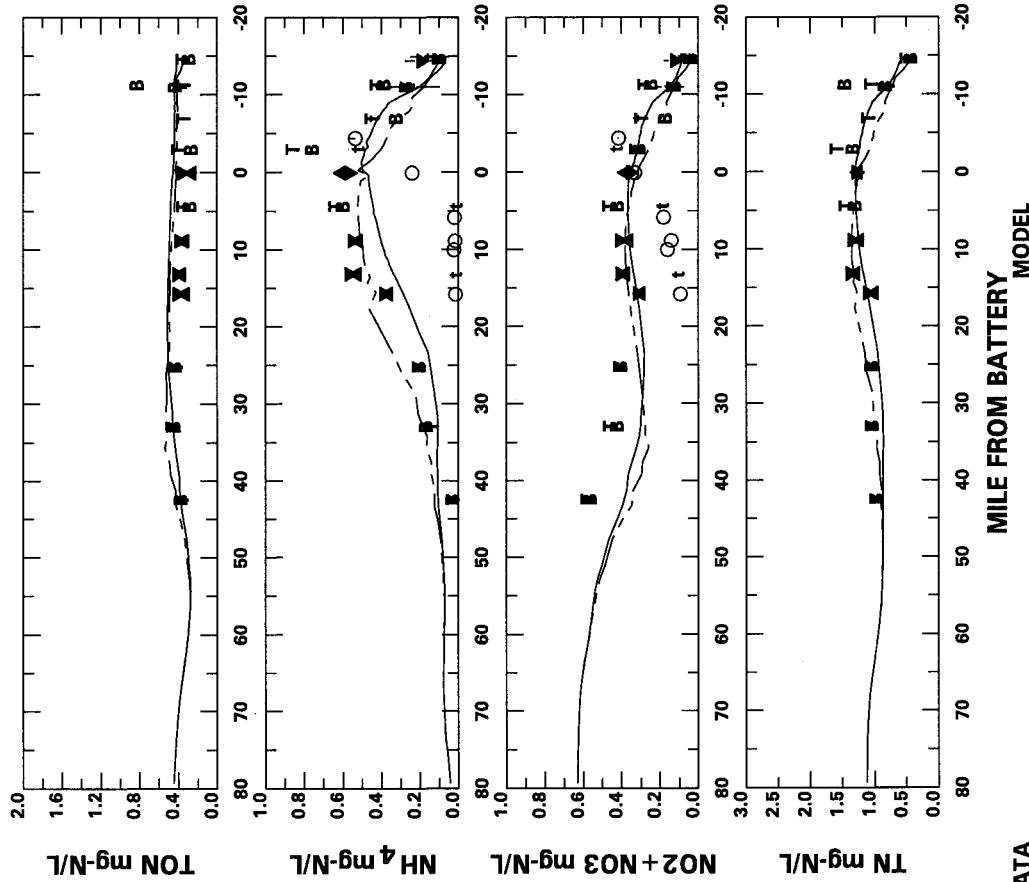
CON ED 9/95

HydroQual 9/95

Transect
Embayment
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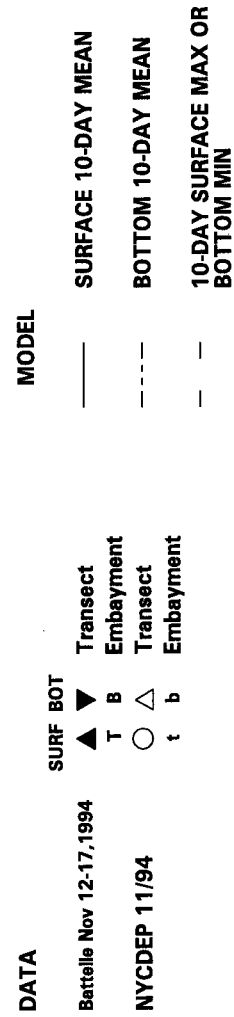
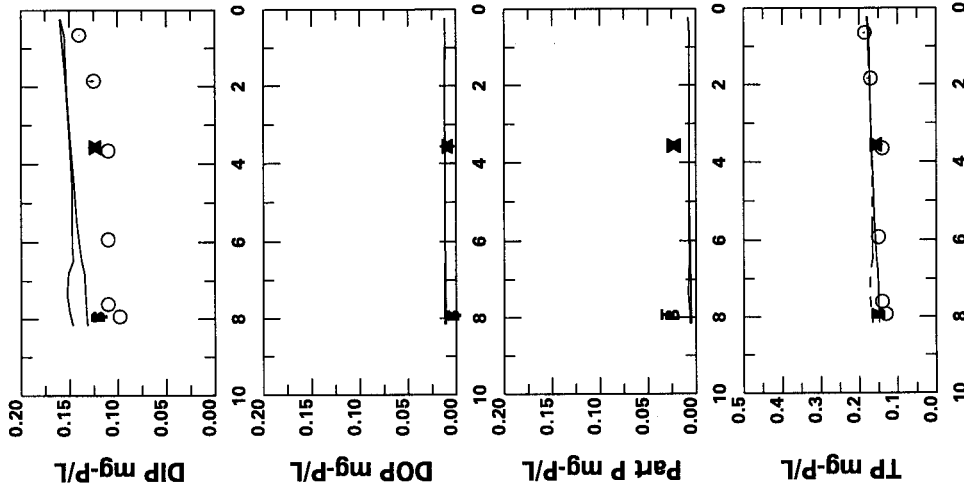
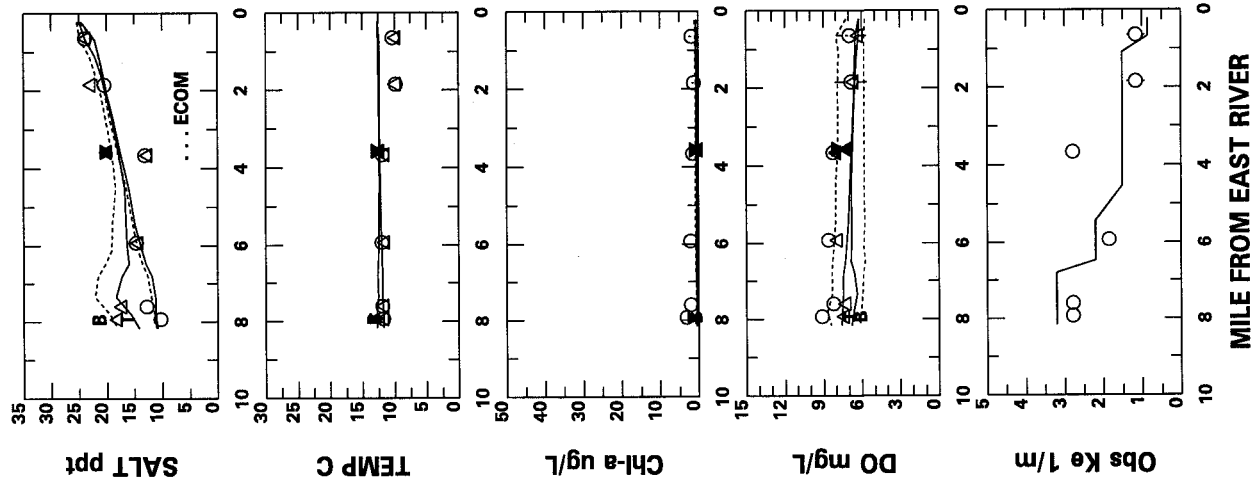
SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR BOTTOM MIN

HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3 SWEM REVISED CALIBRATION

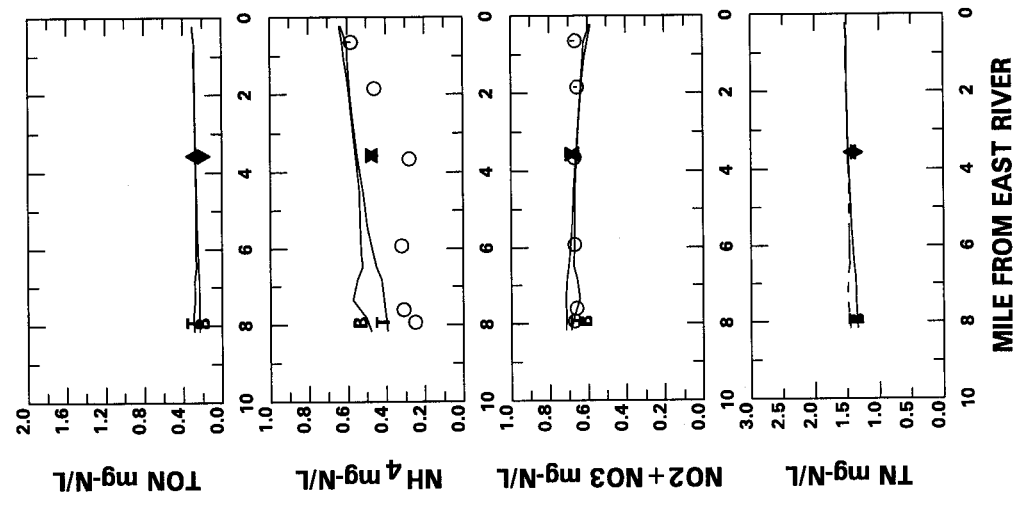
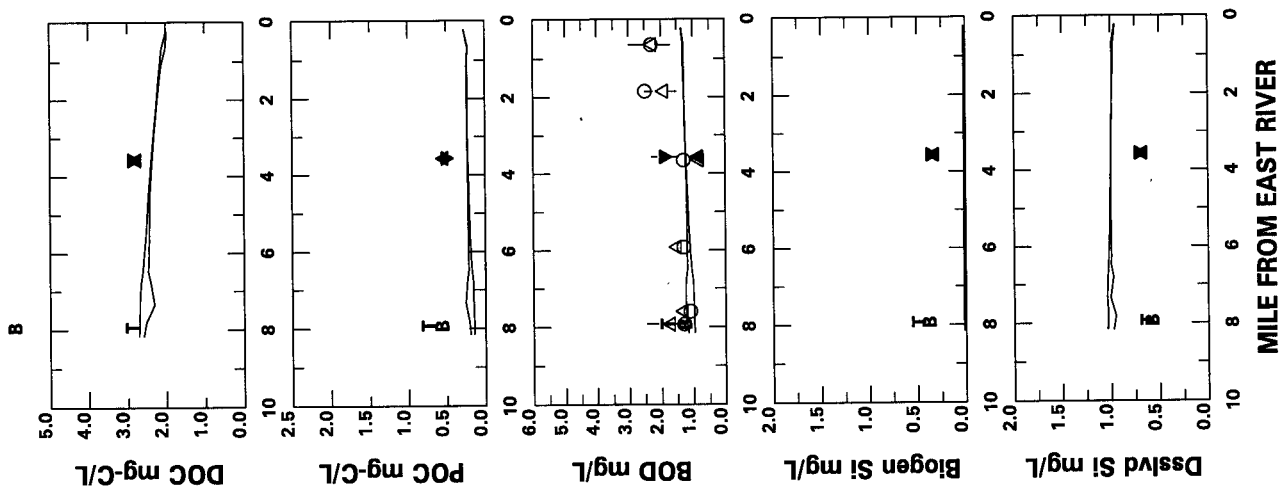


**HUDSON RIVER, UPPER AND LOWER BAY, OCEAN RUN 9495-BC3
SWEM REVISED CALIBRATION**

SPATIAL DISTRIBUTIONS OF HARLEM RIVER

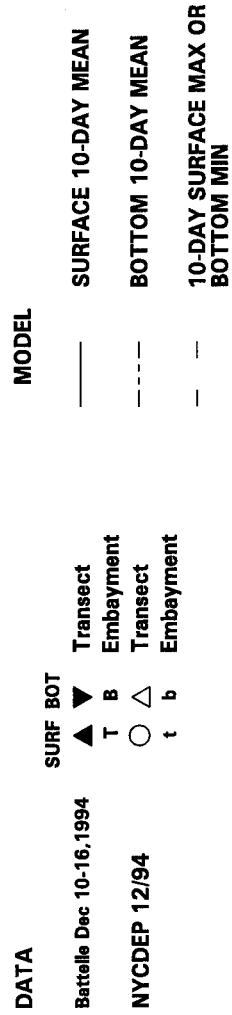
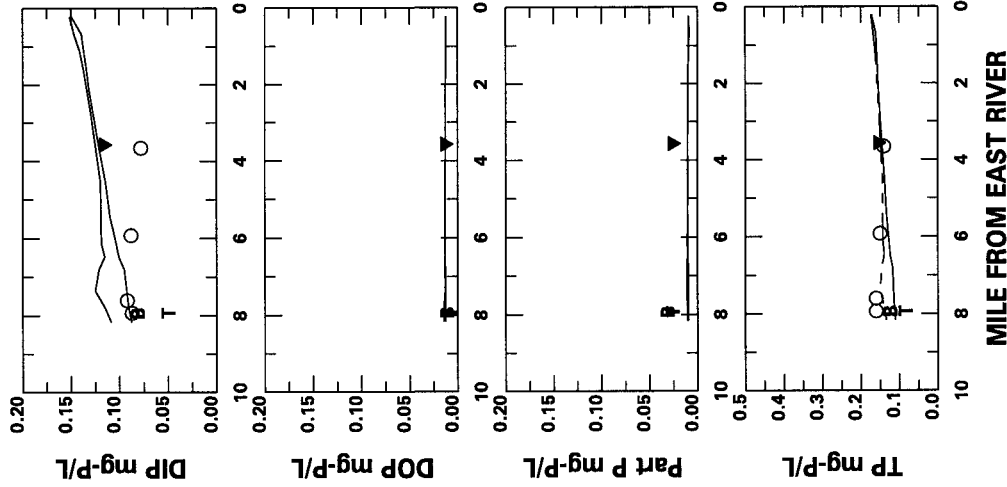
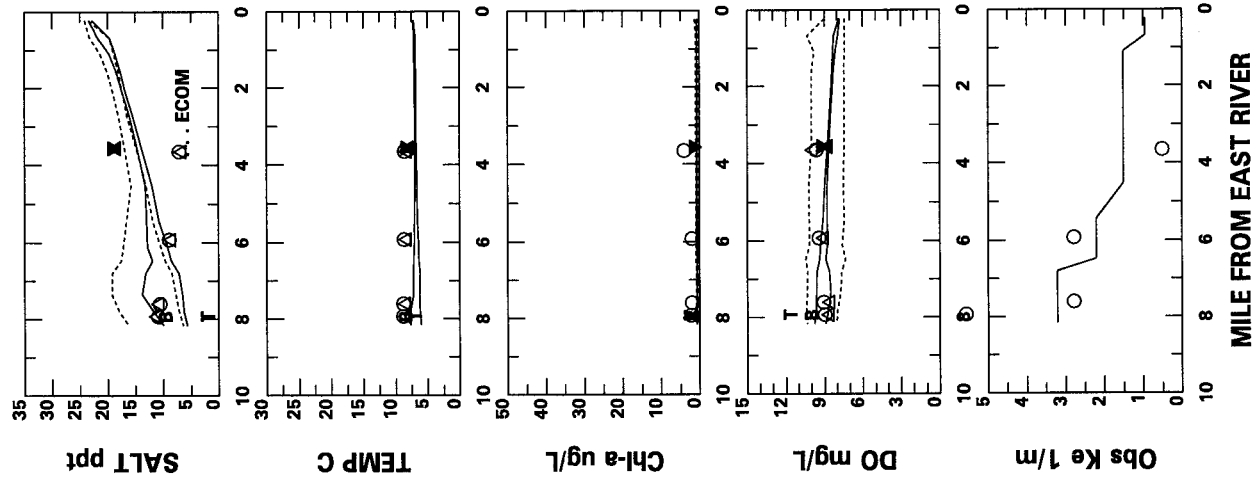


HARLEM RIVER RUN 9495-BC3: SWEM REVISED CALIBRATION

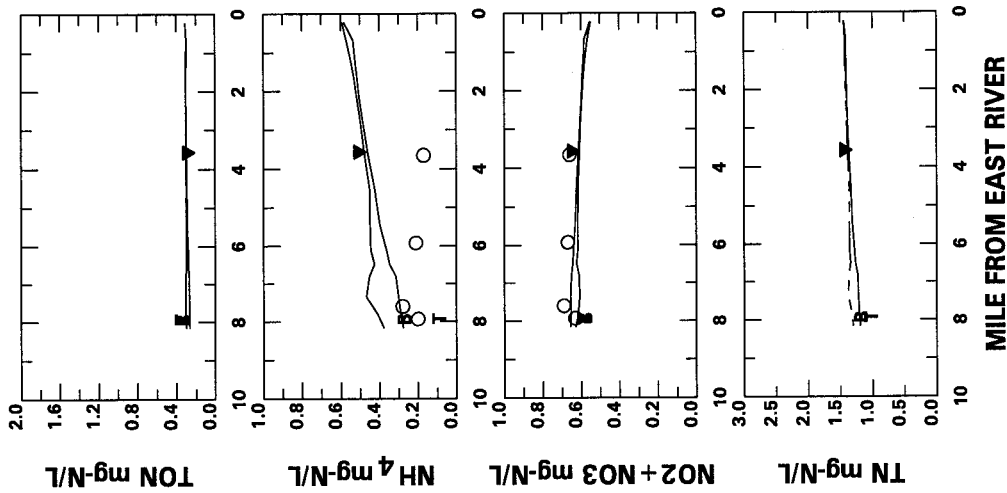
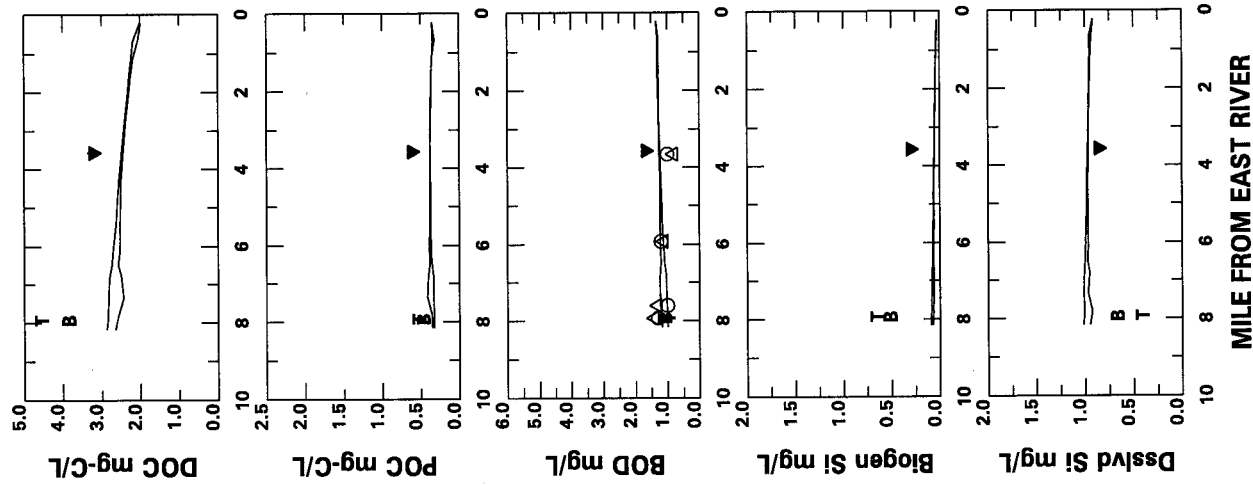


DATA	SURF	BOT	MODEL
Battelle Nov 12-17, 1994	▲	▼	—
NYCDEP 11/94	T	B	---
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			—

HARLEM RIVER
RUN 9495-BC3: SWEM REVISED CALIBRATION



HARLEM RIVER **RUN 9495-BC3: SWEM REVISED CALIBRATION**



DATA

SURF BOT

Battelle Dec 10-16, 1994

NYCDEP 12/94

Transect
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Transect
Embayment

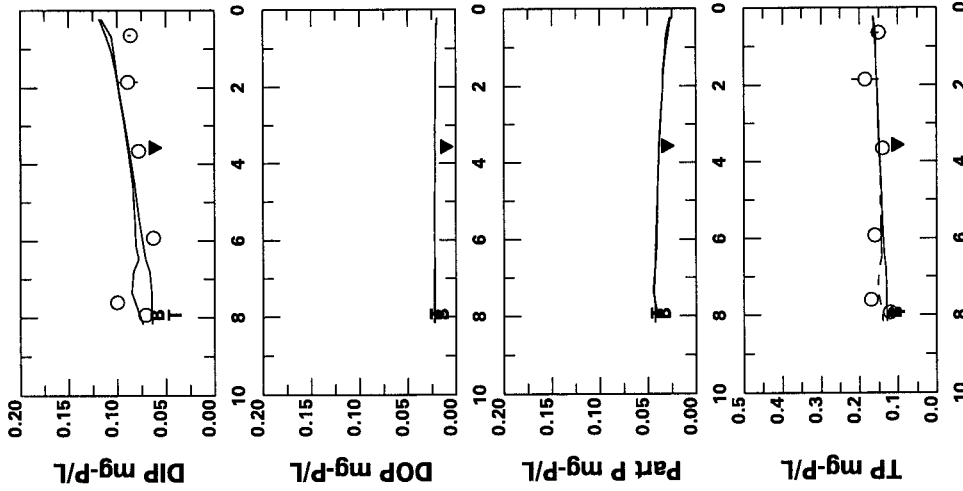
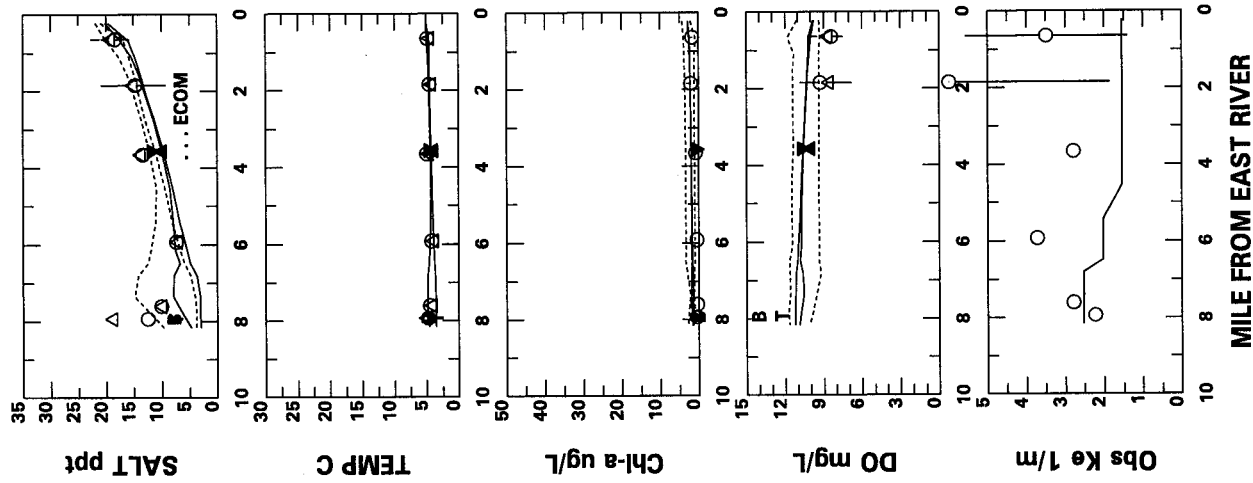
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

**10-DAY SURFACE MAX OR
BOTTOM MIN**

**HARLEM RIVER
RUN 9495-BC3: SWEM REVISED CALIBRATION**



DATA

Battelle Jan 23-31, 1995

NYCDEP 1/95

MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

SURF BOT

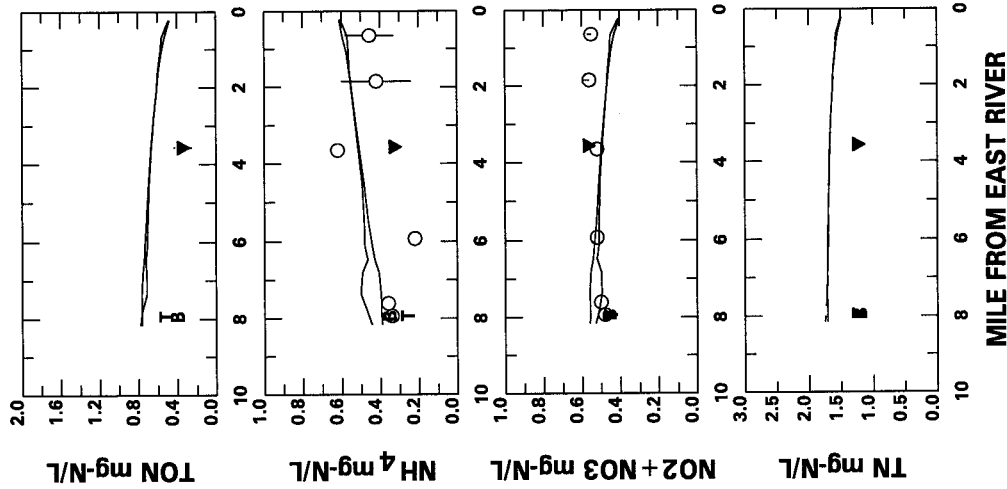
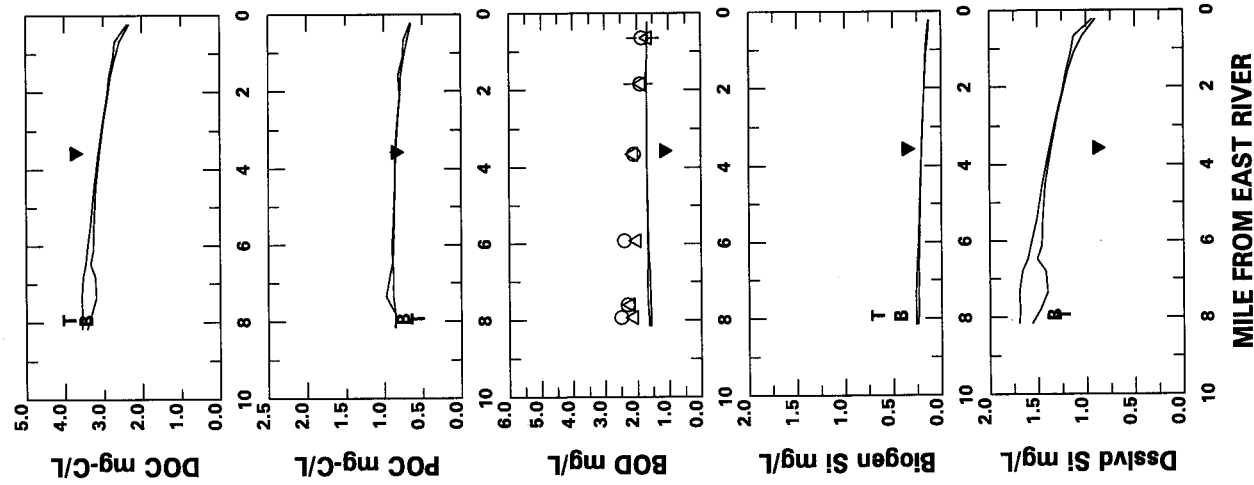
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T B Embayment

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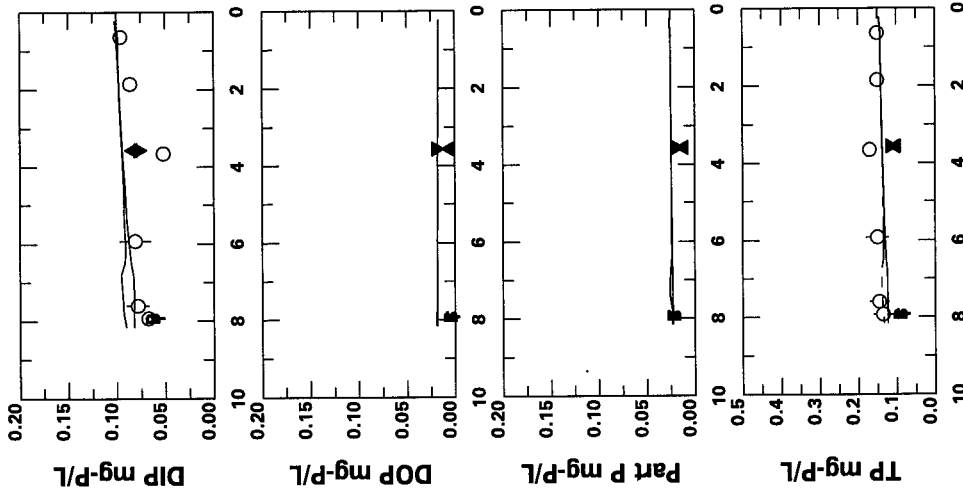
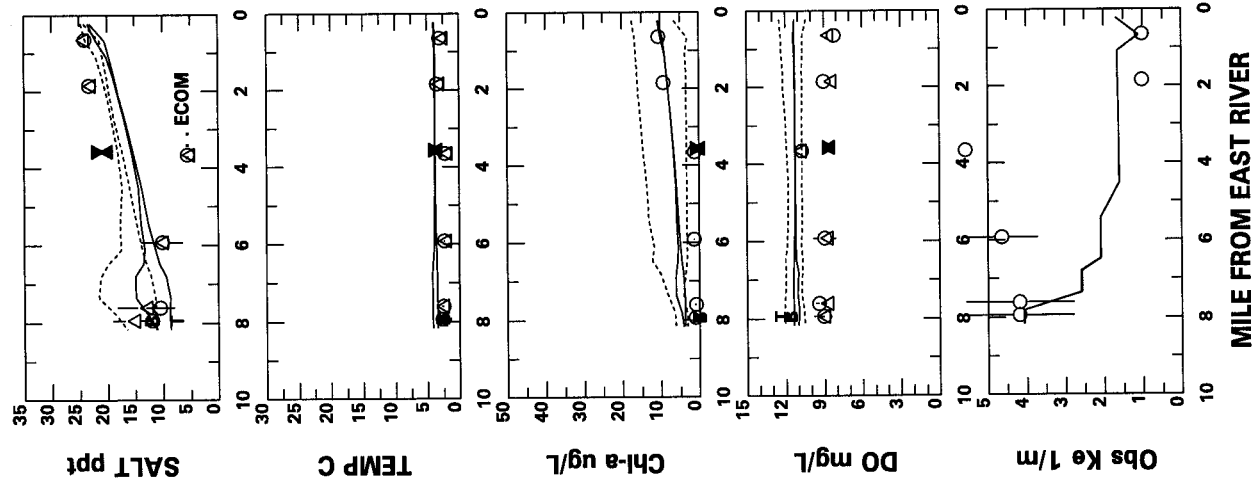
t b Embayment

HARLEM RIVER **RUN 9495-BC3: SWEM REVISED CALIBRATION**



DATA	SURF	BOT	MODEL
Battelle Jan 23-31, 1995	▲	▼	SURFACE 10-DAY MEAN
NYCDEP 1/95	○	△	BOTTOM 10-DAY MEAN
	t	b	10-DAY SURFACE MAX OR BOTTOM MIN

HARLEM RIVER RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

SURF BOT

Battelle Feb 22-Mar 1,
1995

Transect
T B

NYCDEP 2/95

Embayment
t b

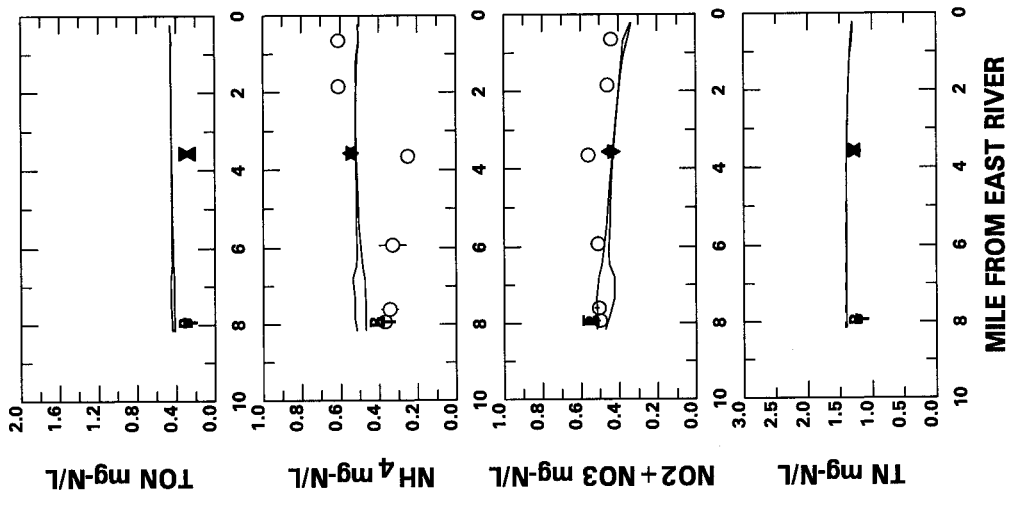
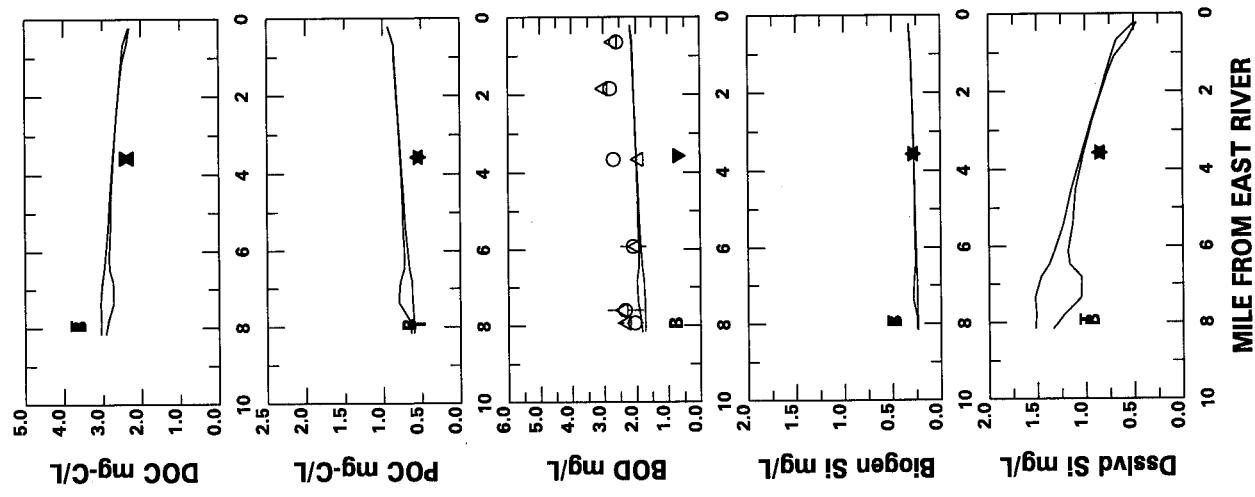
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR
BOTTOM MIN

HARLEM RIVER RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Feb 22-Mar 1, 1995

NYCDEP 2/95

MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

DATA

Battelle Feb 22-Mar 1, 1995

NYCDEP 2/95

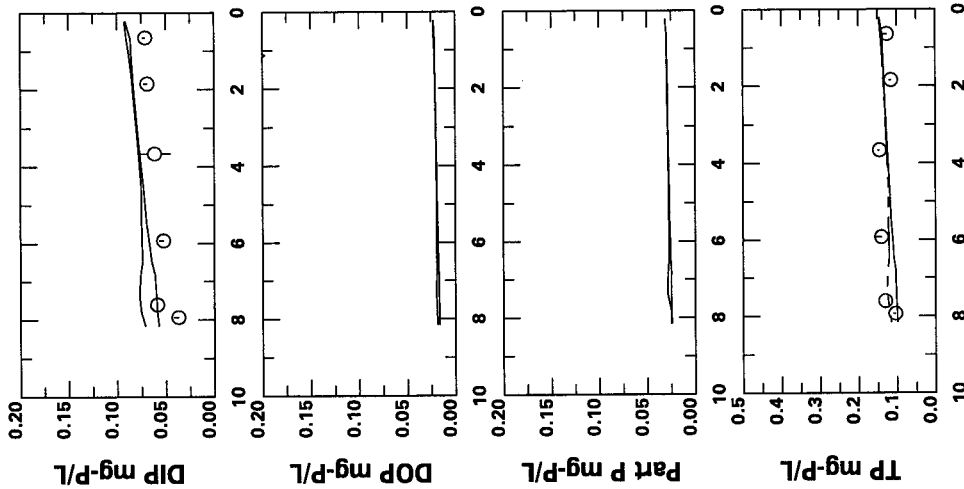
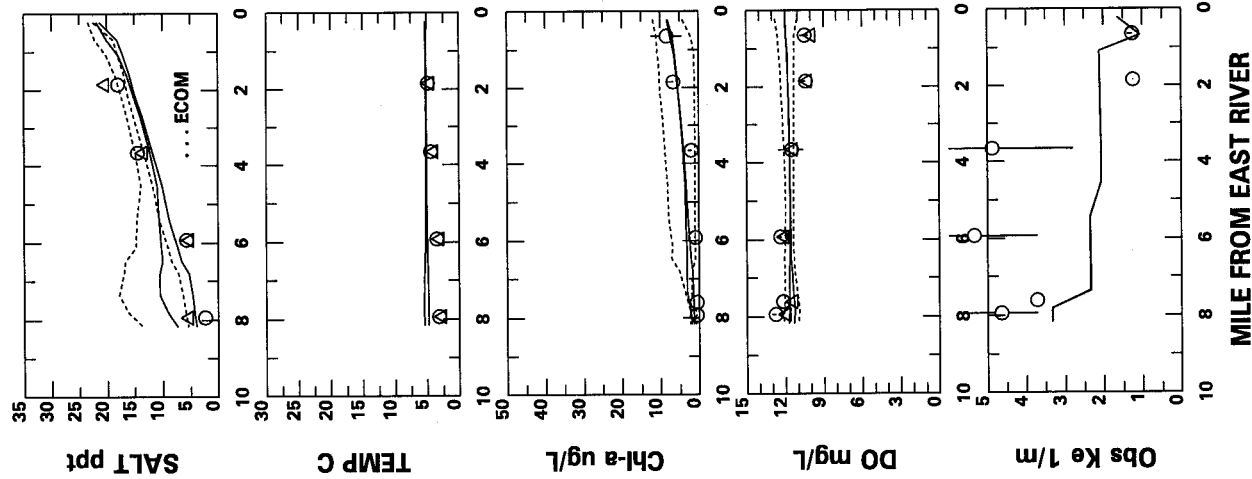
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

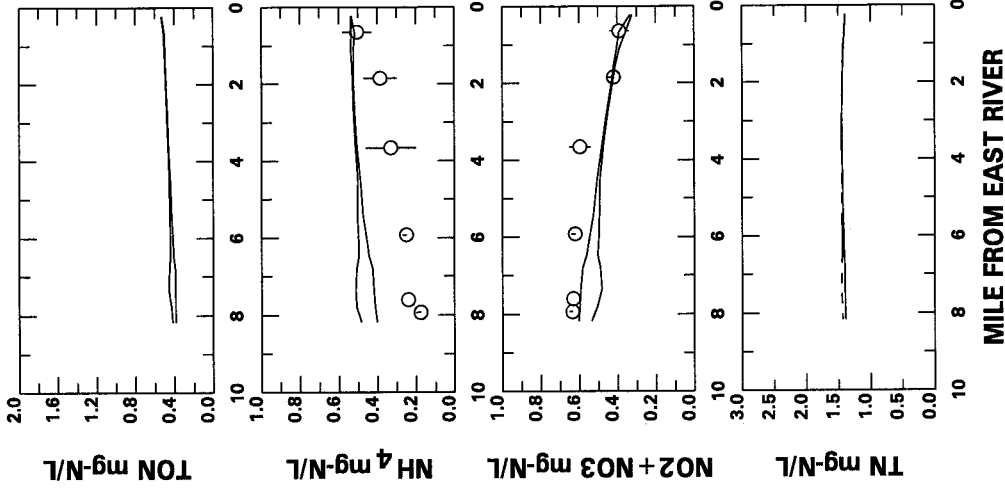
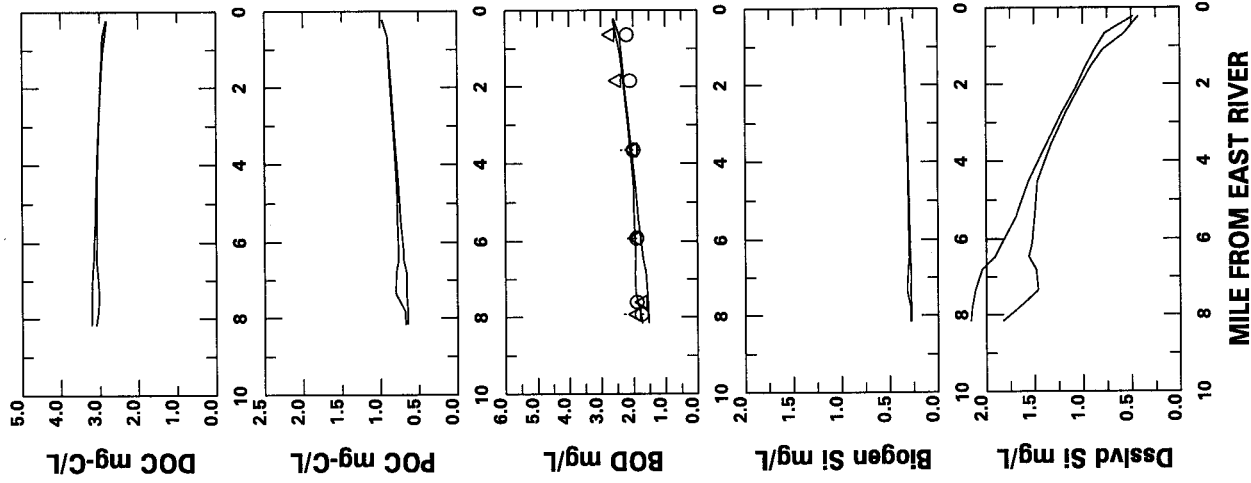
10-DAY SURFACE MAX OR BOTTOM MIN

HARLEM RIVER **RUN 9495-BC3: SWEM REVISED CALIBRATION**



DATA	SURF BOT	MODEL
Battelle March 9-18, 1995	▲ Transect	— SURFACE 10-DAY MEAN
	T Embayment	--- BOTTOM 10-DAY MEAN
NYCDEP 3/95	○ Transect	- - - 10-DAY SURFACE MAX OR BOTTOM MIN
	t b Embayment	

HARLEM RIVER **RUN 9495-BC3: SWEM REVISED CALIBRATION**



DATA

Battelle March 9-18, 1995

NYCDEP 3/95

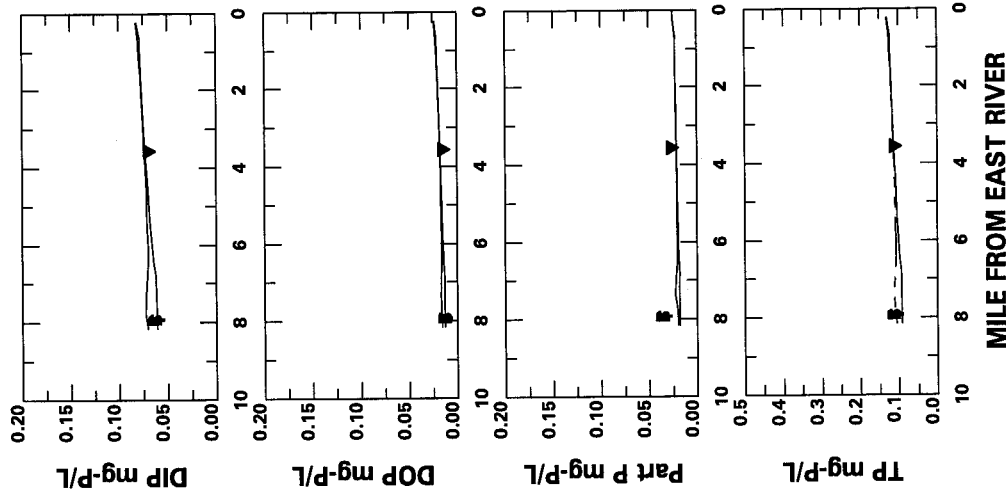
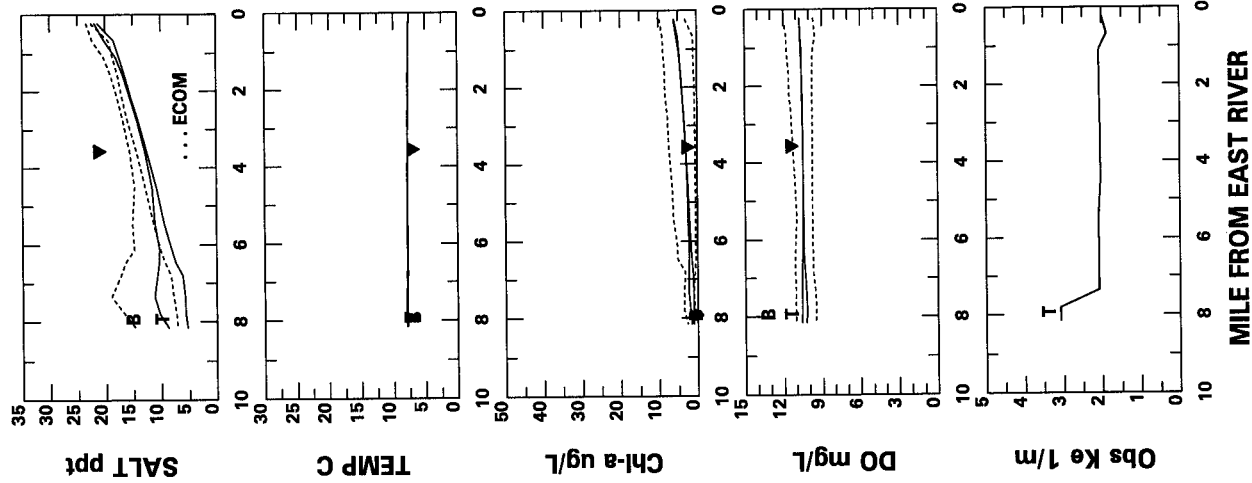
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

HARLEM RIVER RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8,
1995

NYCDEP 4/95

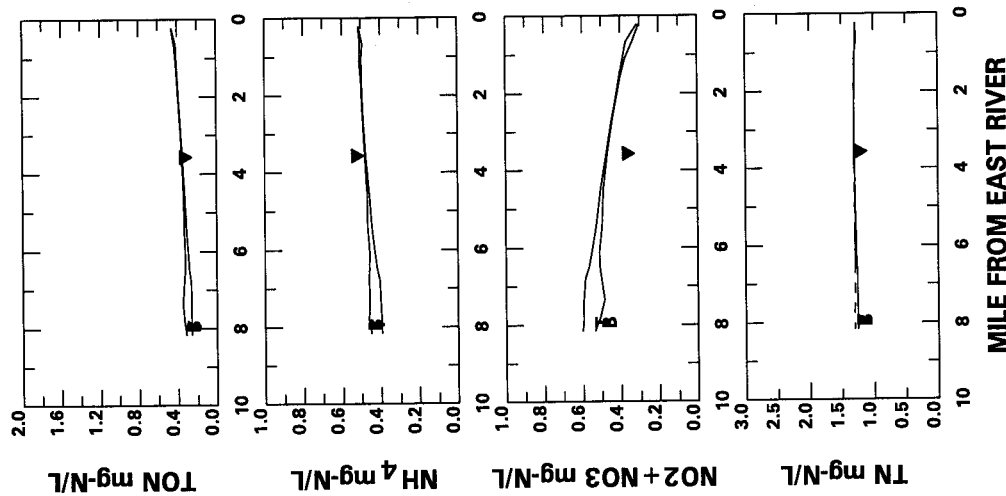
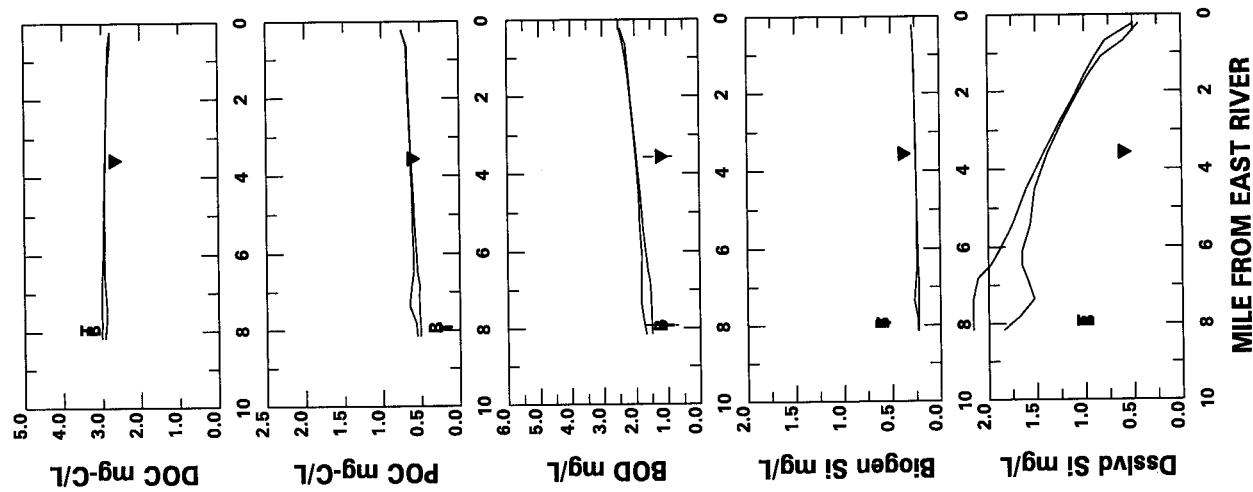
SURF BOT

▲ ▼ Transect
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○ △ Transect
t b Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - 10-DAY SURFACE MAX OR
BOTTOM MIN

HARLEM RIVER RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8, 1995

NYCDEP 4/95

MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

SURF BOT

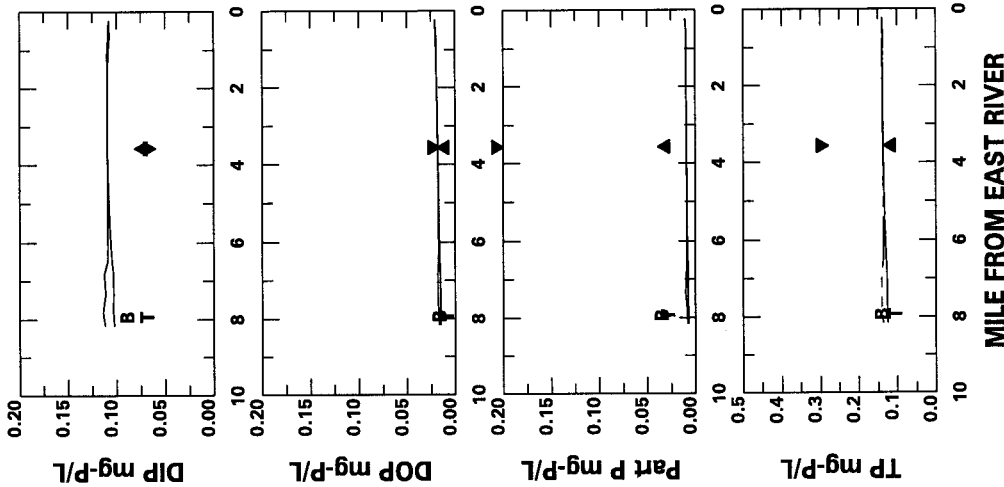
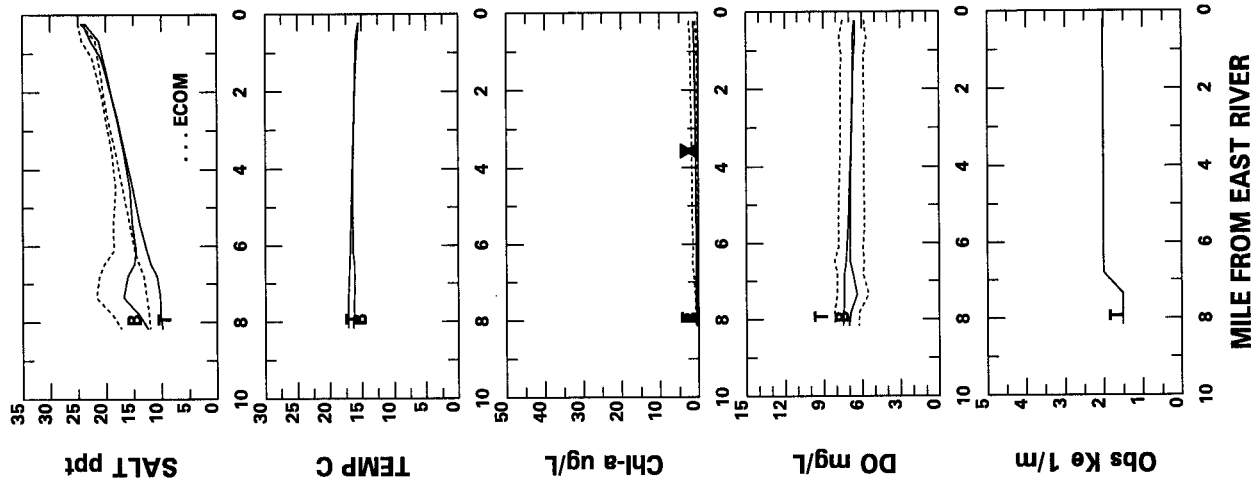
Transect

Embayment

Transect

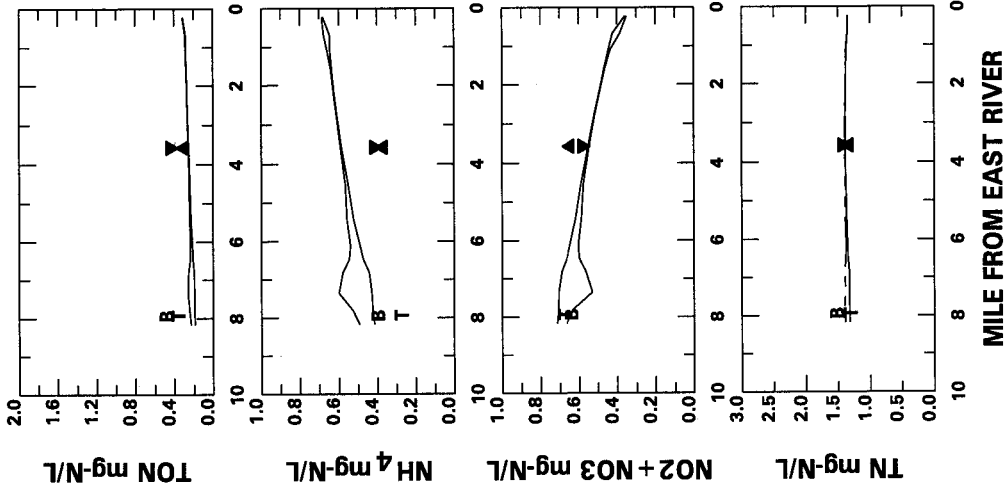
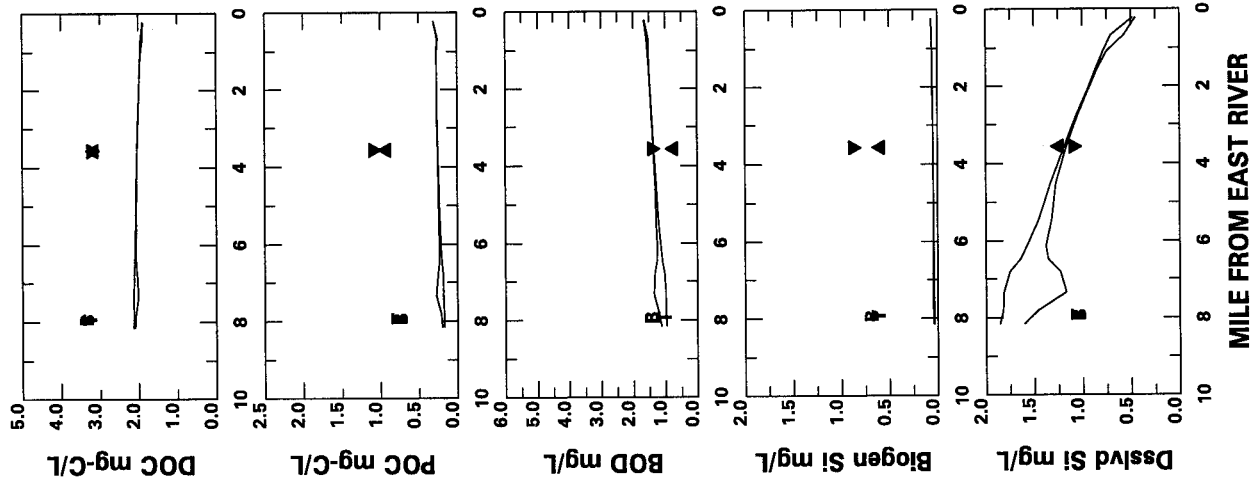
Embayment

HARLEM RIVER RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL
Battelle May 20-26, 1995	▲ T	—
NYCDEP 5/95	○ t	- - -
	△ B	- - -
	▽ b	- - -
		—

HARLEM RIVER **RUN 9495-BC3: SWEM REVISED CALIBRATION**



DATA

Battelle May 20-26, 1995

NYCDEP 5/95

MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

DATA

Battelle May 20-26, 1995

NYCDEP 5/95

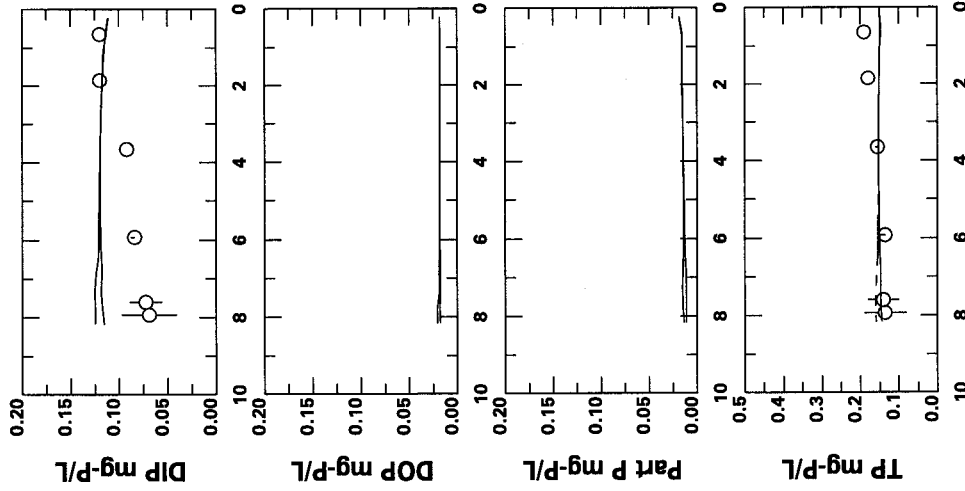
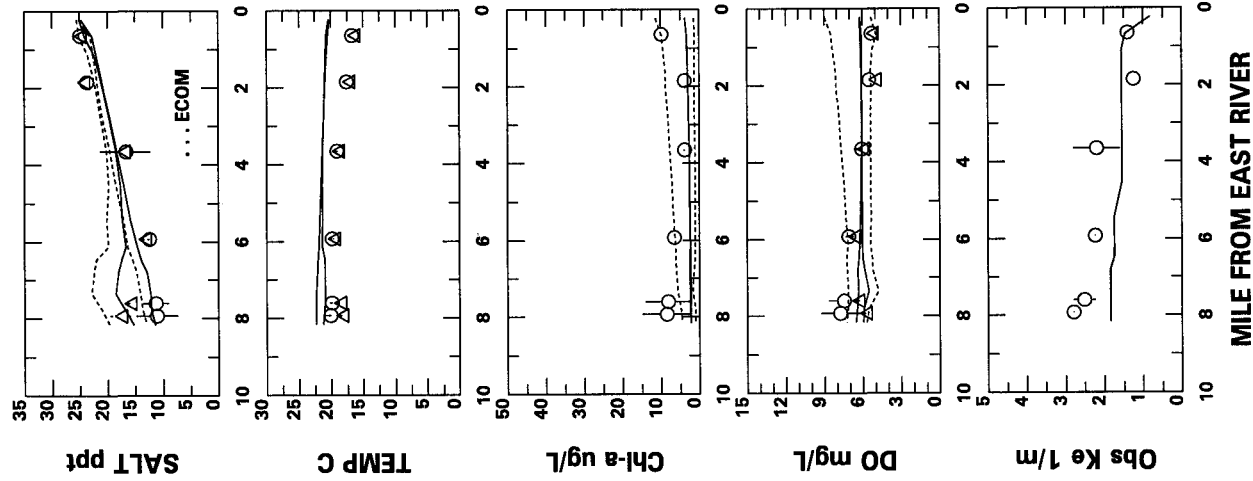
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

HARLEM RIVER RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle June 18-27,
1995

NYCDEP 6/95

SURF BOT

▲ ▼ Transect
T B Embayment
○ △ Transect
t b Embayment

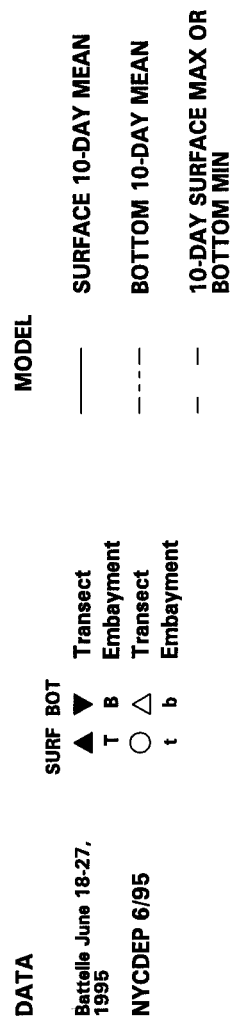
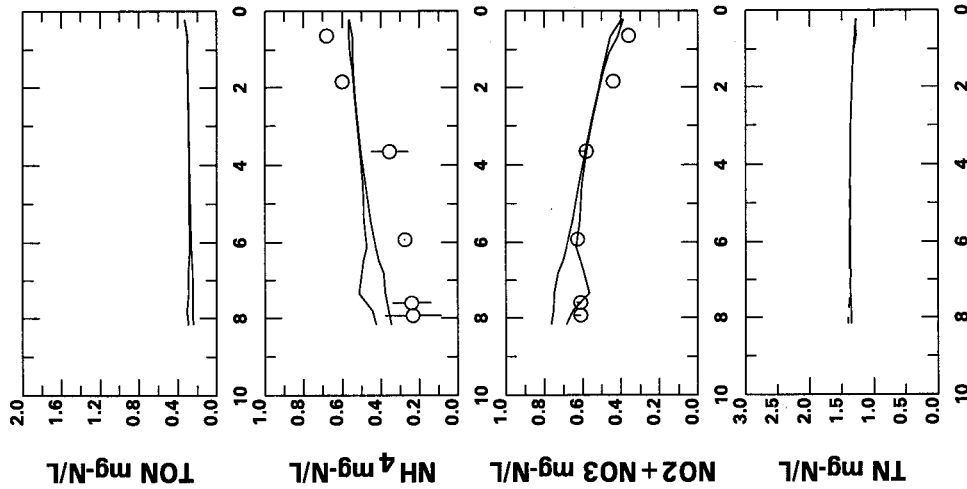
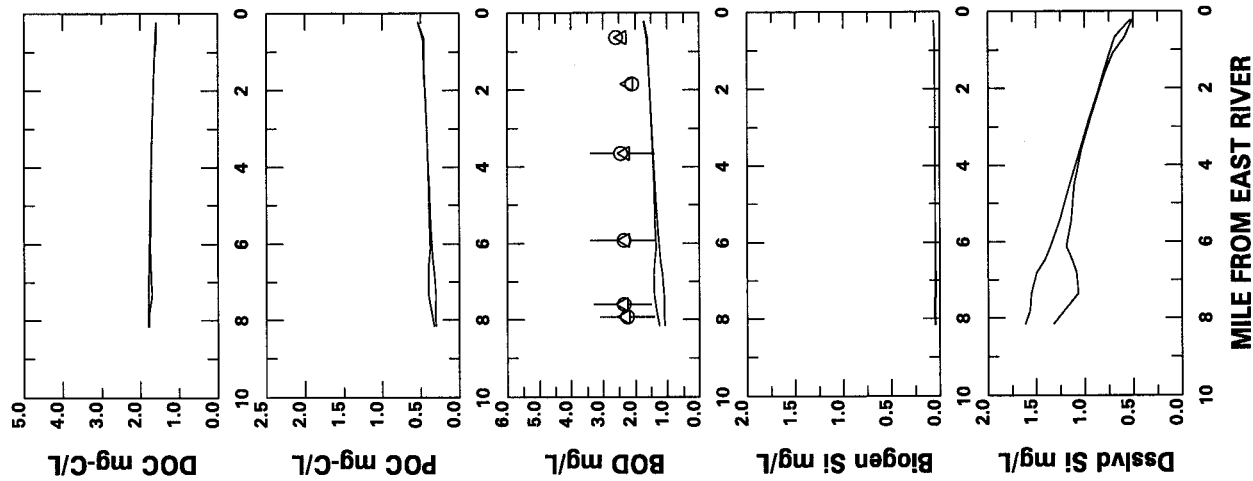
MODEL

— SURFACE 10-DAY MEAN

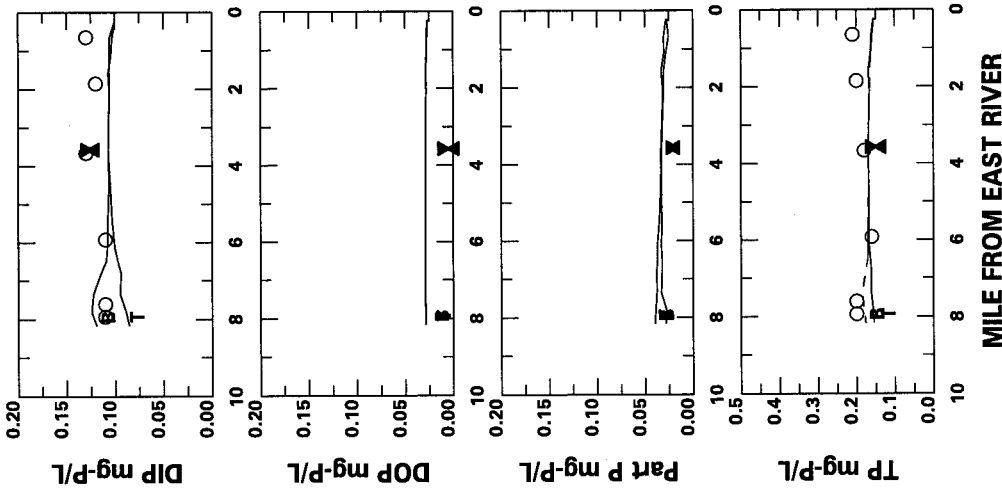
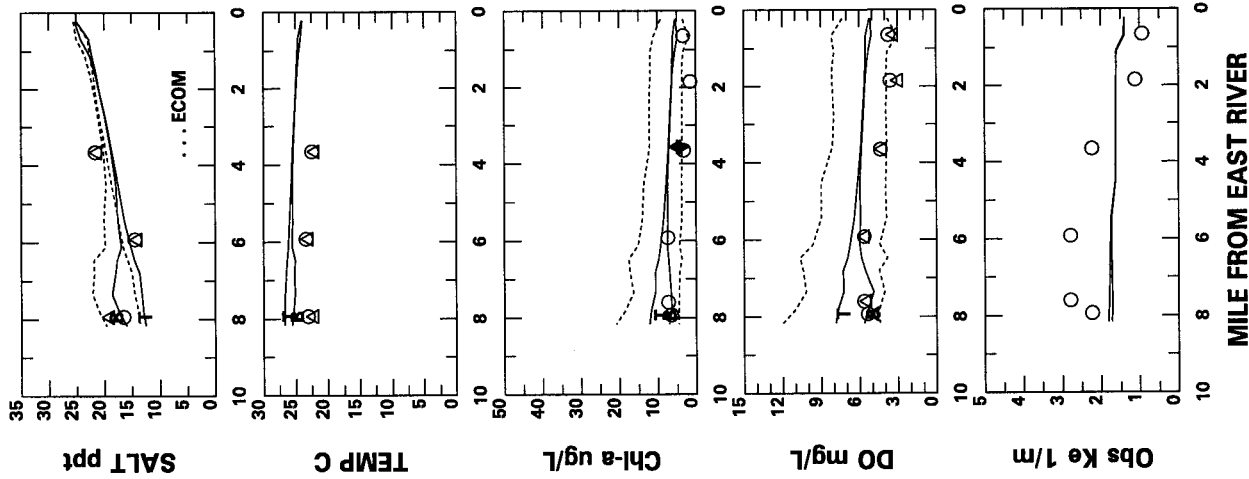
- - - BOTTOM 10-DAY MEAN

- - 10-DAY SURFACE MAX OR
BOTTOM MIN

HARLEM RIVER **RUN 9495-BC3: SWEM REVISED CALIBRATION**

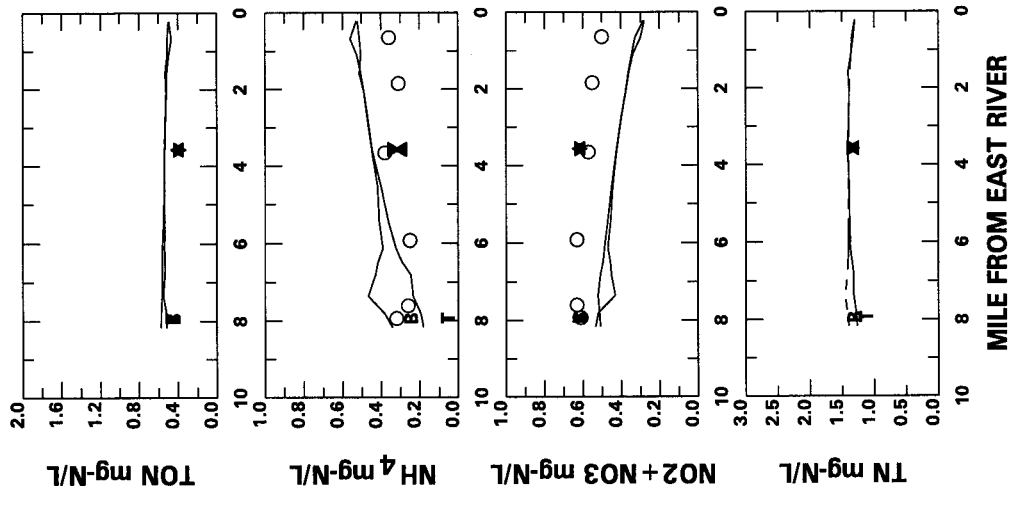
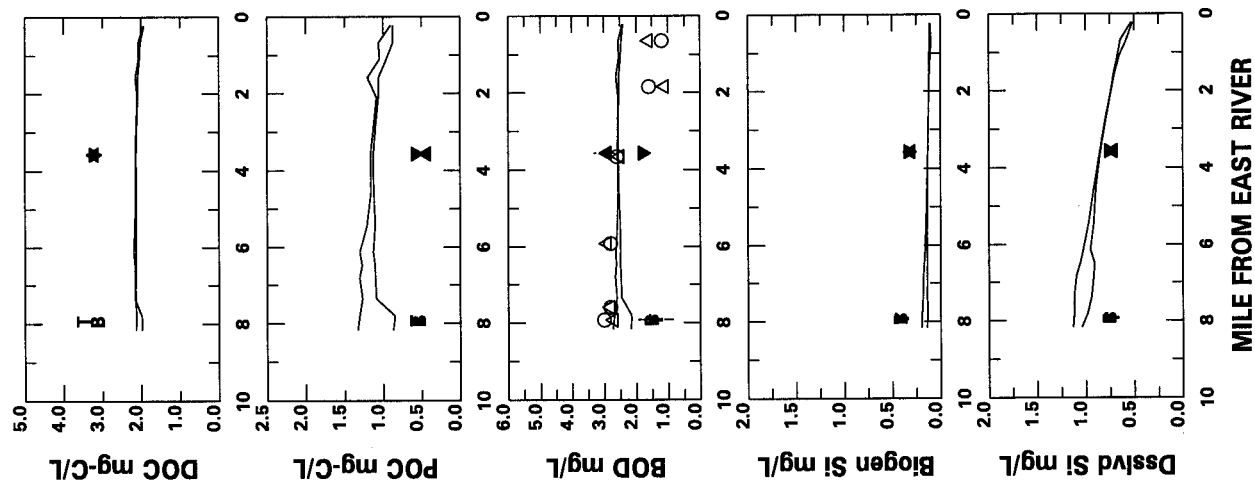


HARLEM RIVER **RUN 9495-BC3: SWEM REVISED CALIBRATION**



DATA	SURF BOT	MODEL
Battelle July 20-Aug 2, 1995	▲ Transect	— SURFACE 10-DAY MEAN
NYCDEP 7/95	T B Embayment	--- BOTTOM 10-DAY MEAN
	○ t b Embayment	- - 10-DAY SURFACE MAX OR BOTTOM MIN

HARLEM RIVER RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2, 1995

NYCDEP 7/95

SURF BOT

Transect Embayment

Transect Embayment

Transect Embayment

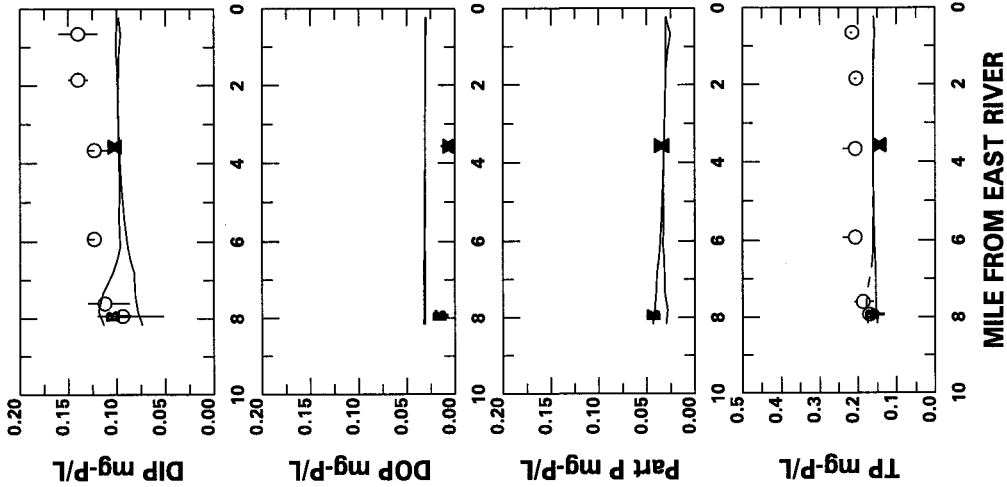
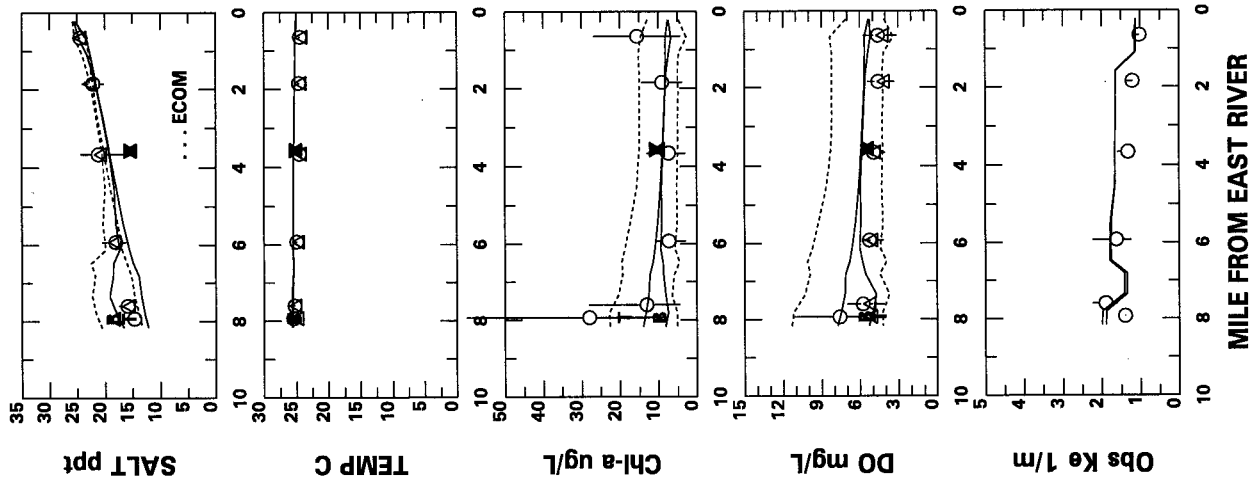
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

HARLEM RIVER RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Aug 20-29, 1995

NYCDEP 8/95

MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

DATA

Battelle Aug 20-29, 1995

NYCDEP 8/95

MODEL

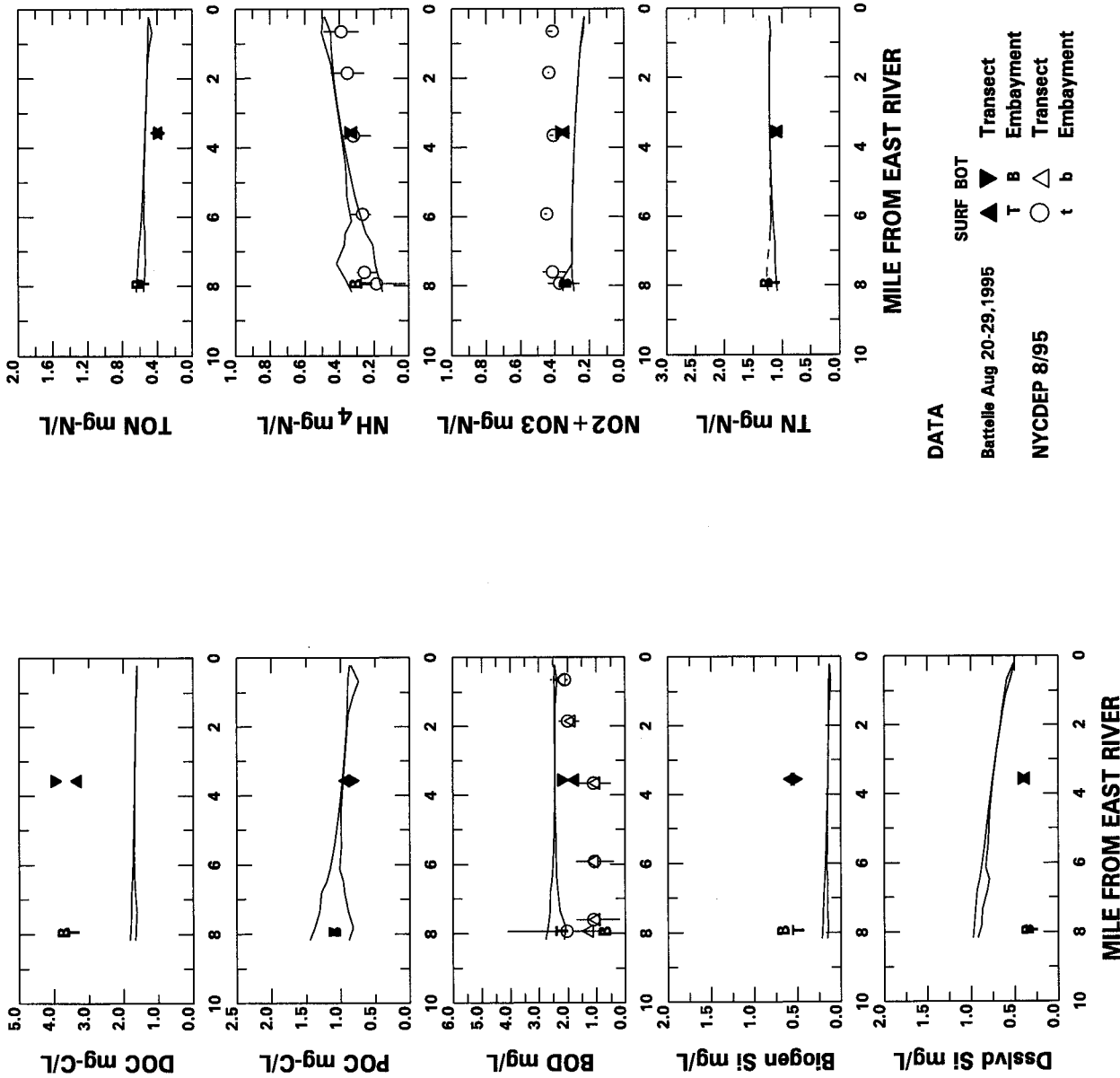
SURFACE 10-DAY MEAN

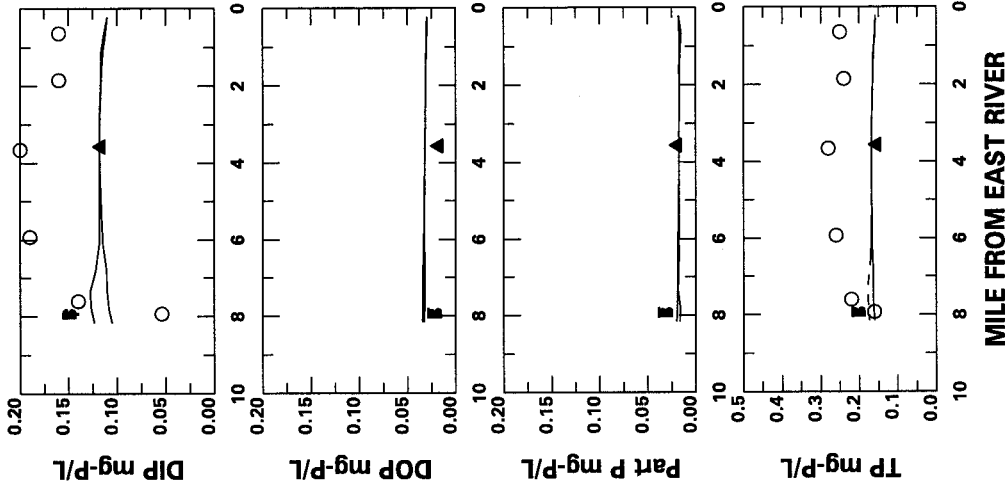
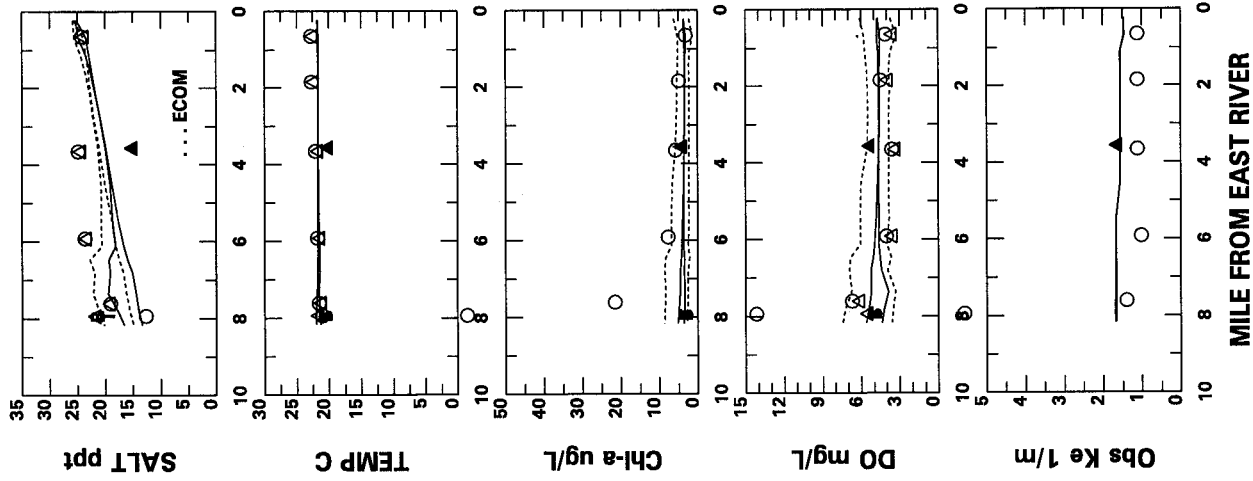
BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

HARLEM RIVER **RUN 9495-BC3: SWEM REVISED CALIBRATION**

HARLEM RIVER
RUN 9495-BC3: SWEM REVISED CALIBRATION





DATA

Battelle Sep 23-Oct 2, 1995

NYCDEP 9/95

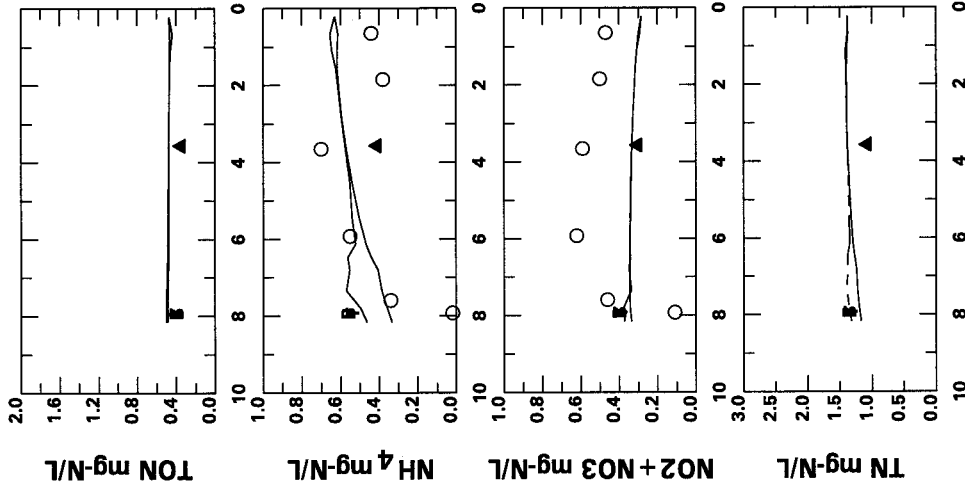
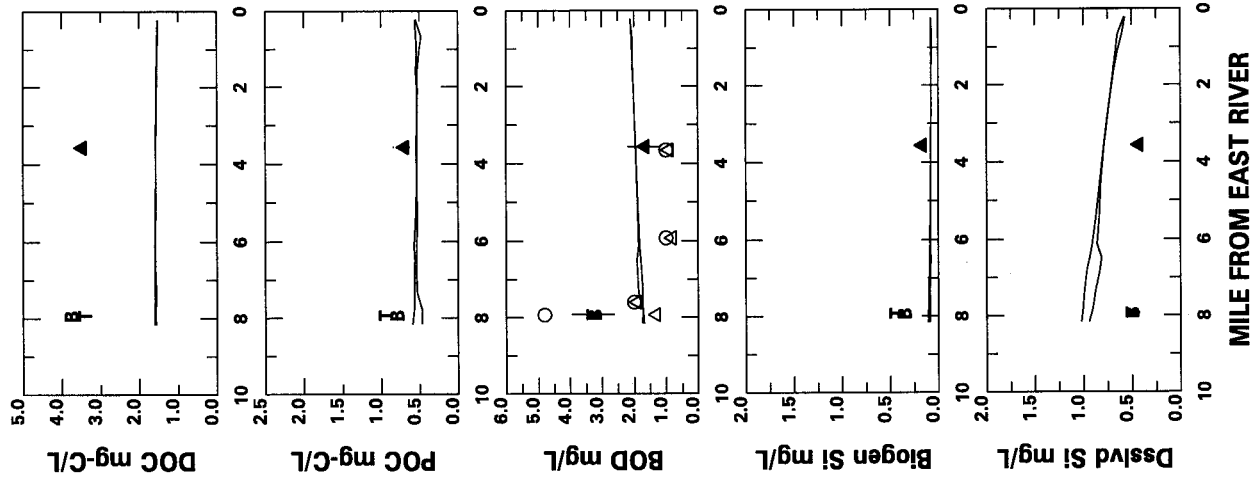
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

HARLEM RIVER RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Sep 23-Oct 2, 1995

NYCDEP 9/95

SURF BOT

▲ Transect
 T Embayment
 ○ Transect
 t Embayment

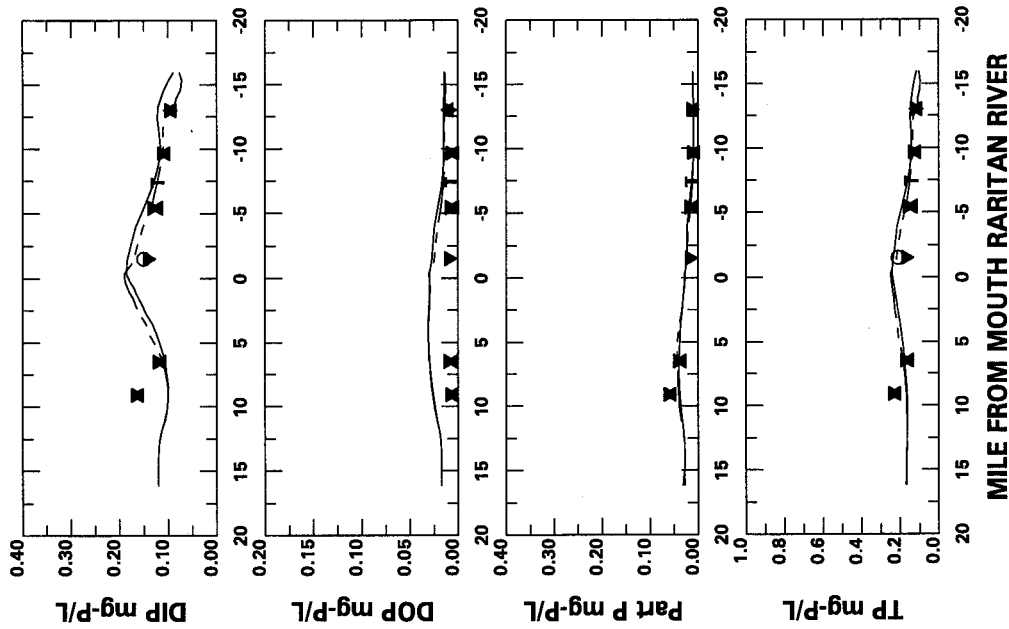
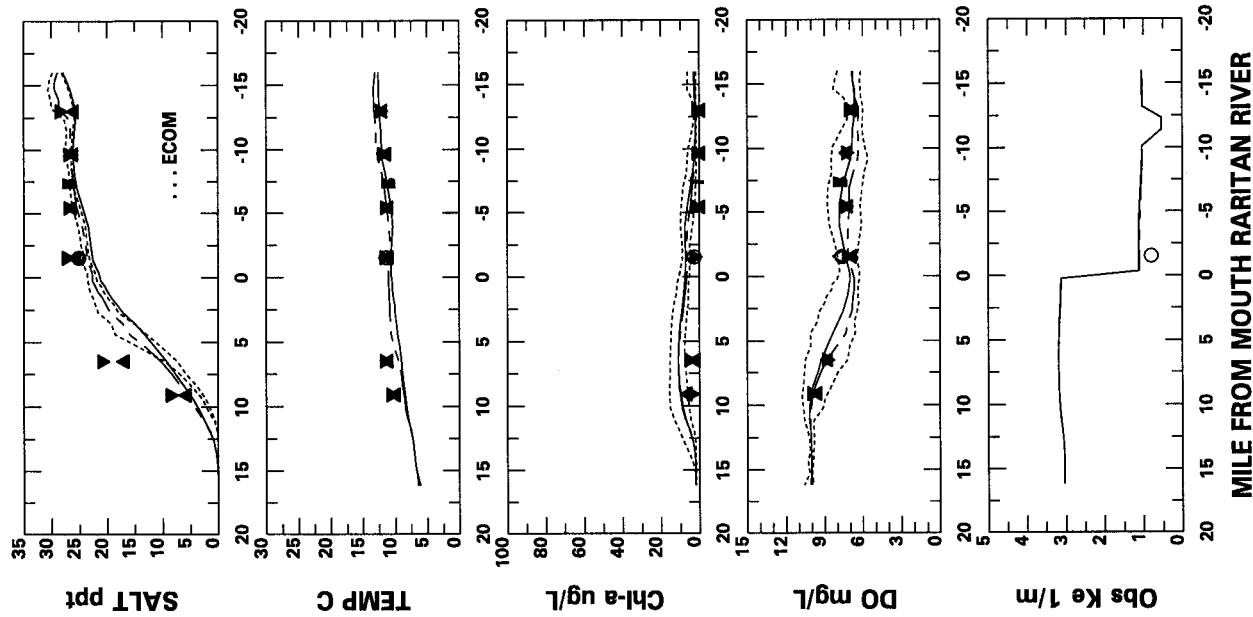
MILE FROM EAST RIVER

MODEL

— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

HARLEM RIVER RUN 9495-BC3: SWEM REVISED CALIBRATION

**SPATIAL DISTRIBUTIONS OF
RARITAN RIVER, RARITAN BAY
NORTH TRANSECT**



DATA

Battelle Nov 12-17, 1994

NYCDEP 11/94

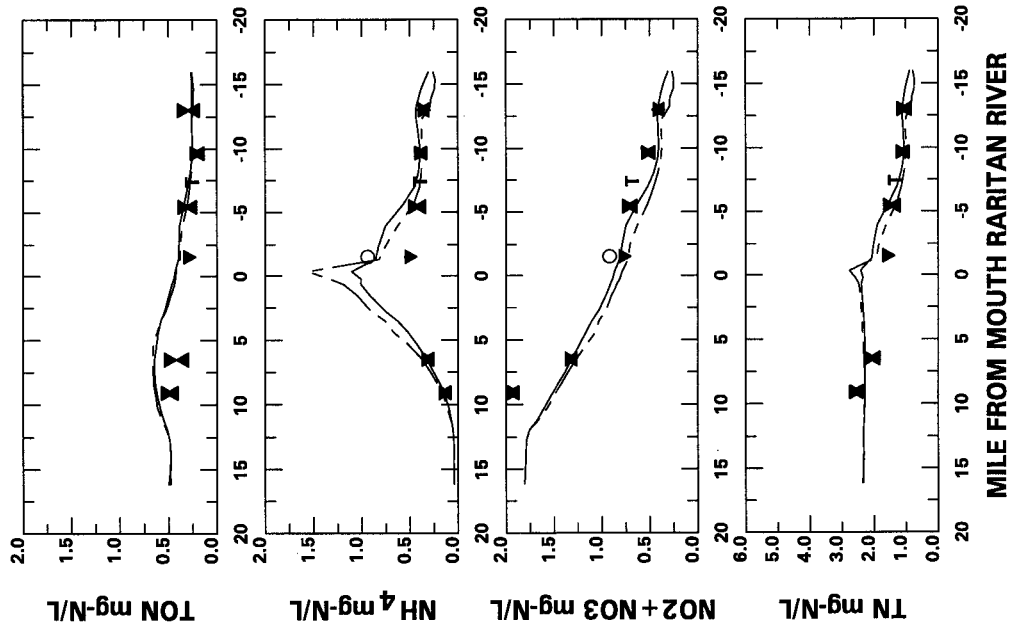
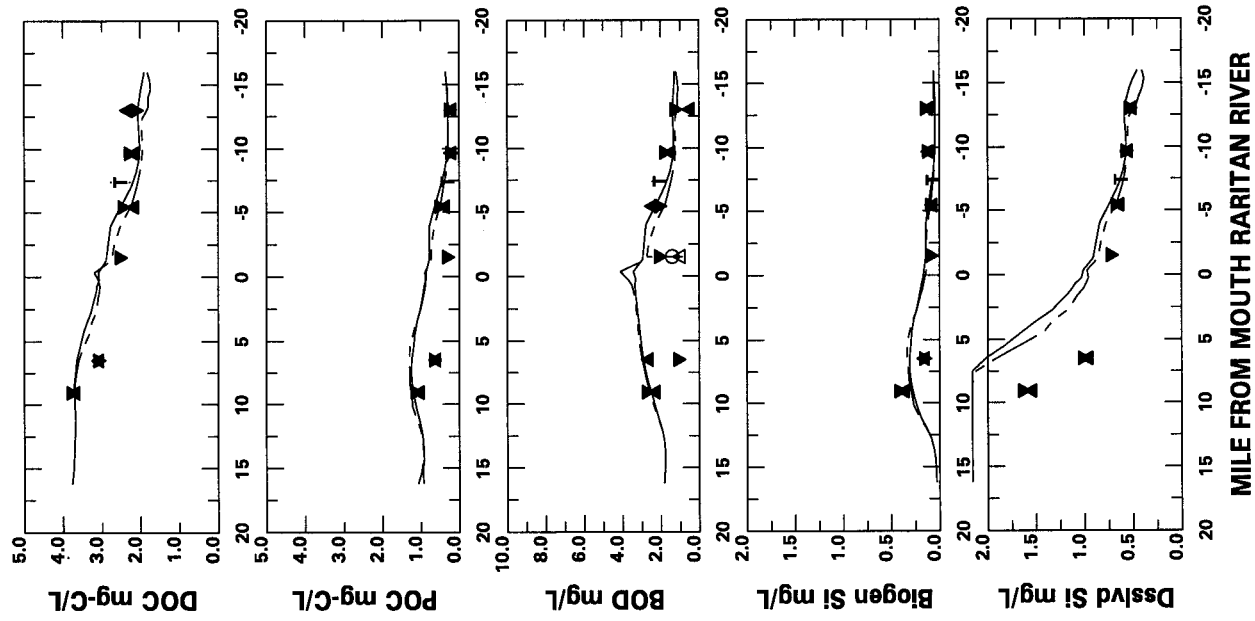
SURF BOT

▲ Transect
T B Embayment
○ Transect
t b Embayment

MODEL

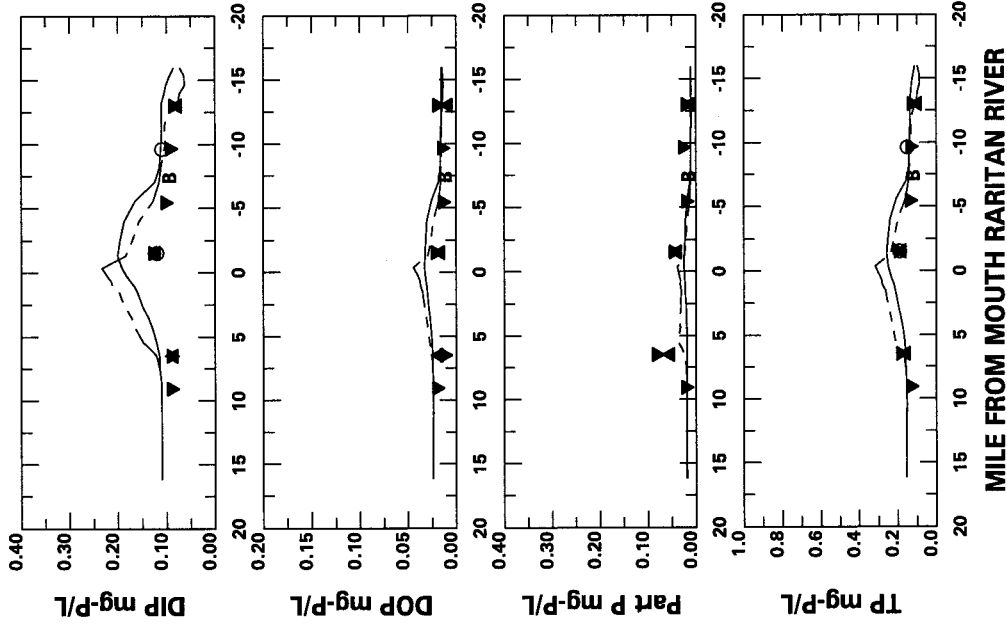
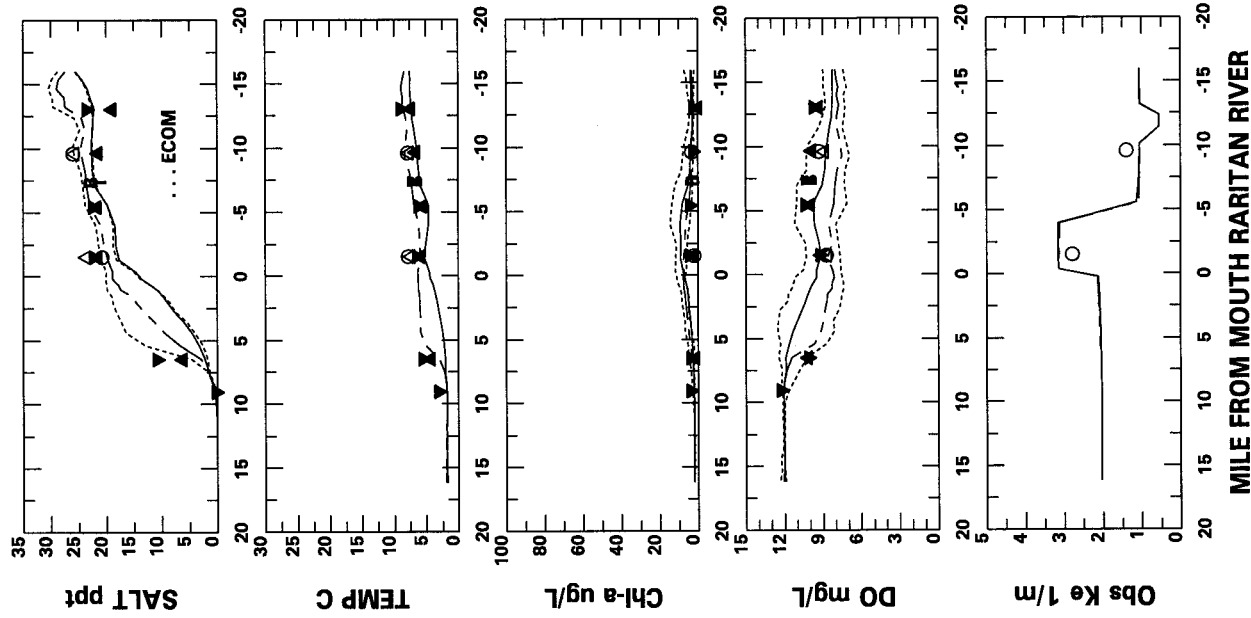
— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

RARITAN RIVER AND NORTH SHORE OF RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



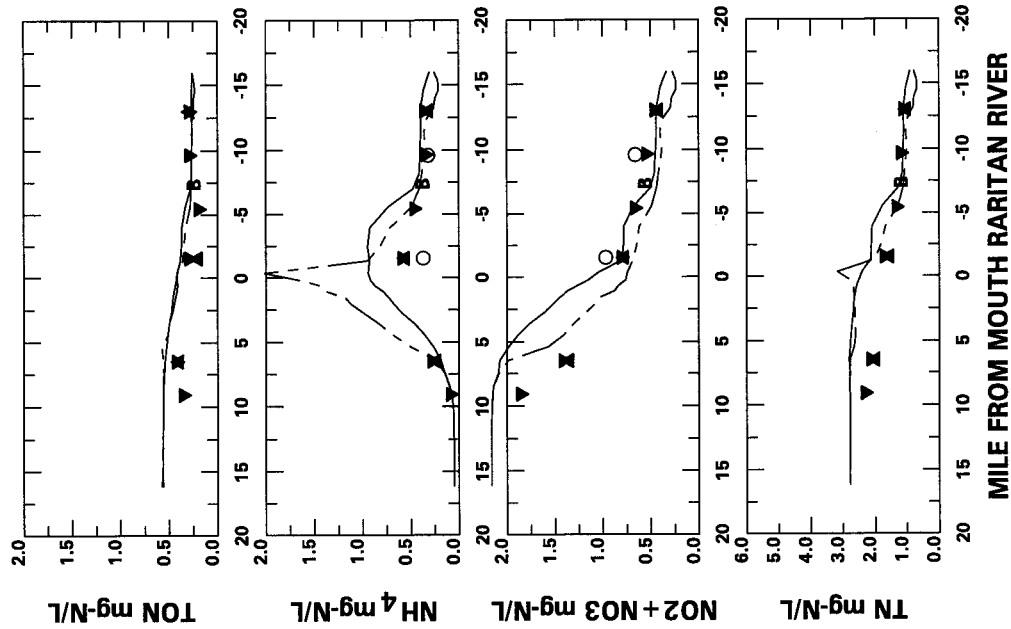
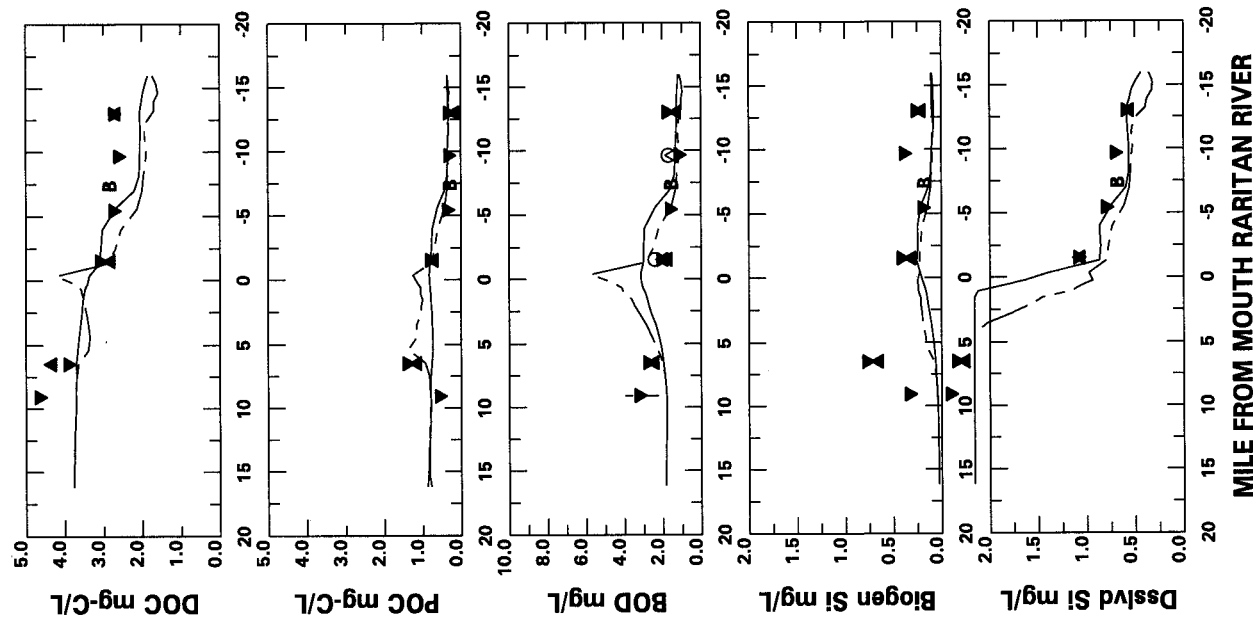
DATA	SURF	BOT	MODEL	
Battelle Nov 12-17, 1994	▲	▼	Transect	SURFACE 10-DAY MEAN
	T	B	Embayment	BOTTOM 10-DAY MEAN
NYCDEP 11/94	○	△	Transect	10-DAY SURFACE MAX OR
	t	b	Embayment	BOTTOM MIN

RARITAN RIVER AND NORTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL			
			Transect	SURFACE 10-DAY MEAN	
Battelle Dec 10-16, 1994	▲ T	—	Embayment	—	
	△ B	---	Transect	---	BOTTOM 10-DAY MEAN
NYCDEP 12/94	○ t	- - -	Embayment	- - -	10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND NORTH SHORE OF RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Dec 10-16, 1994

NYCDEP 12/94

SURF BOT

Transect

Embayment

Transect

Embayment

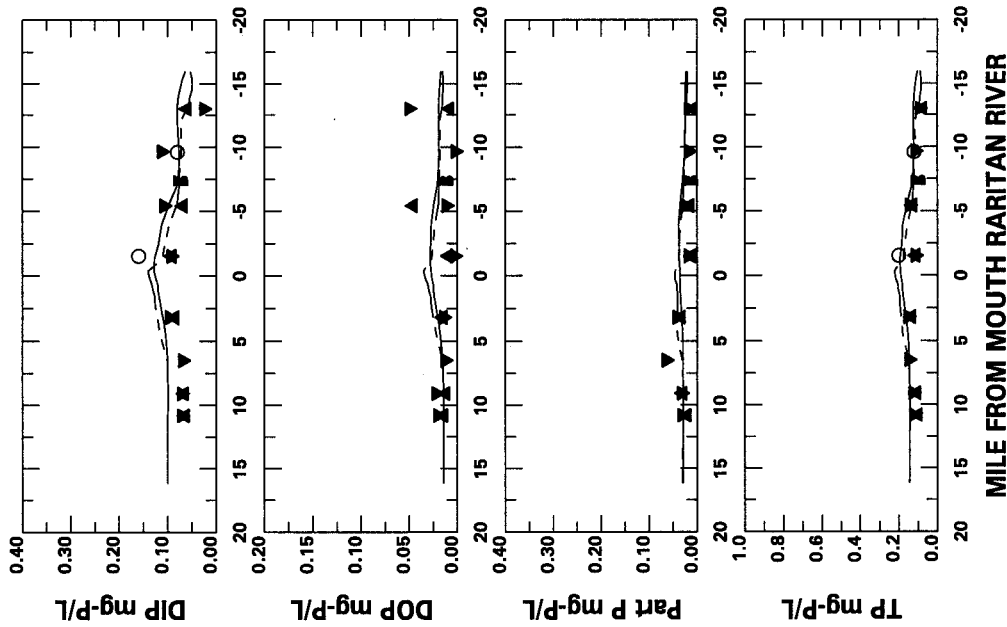
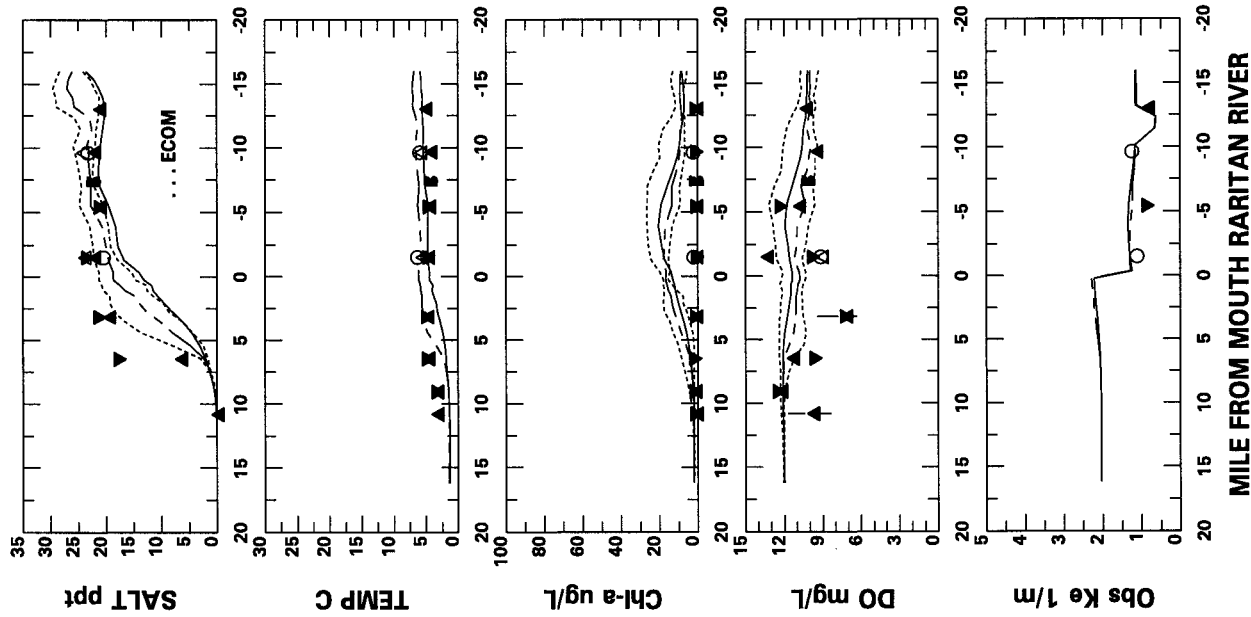
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

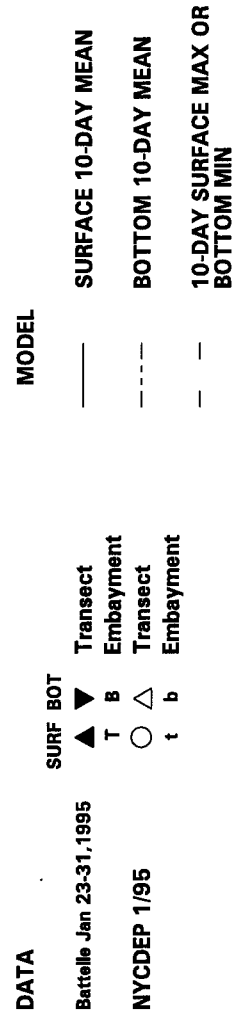
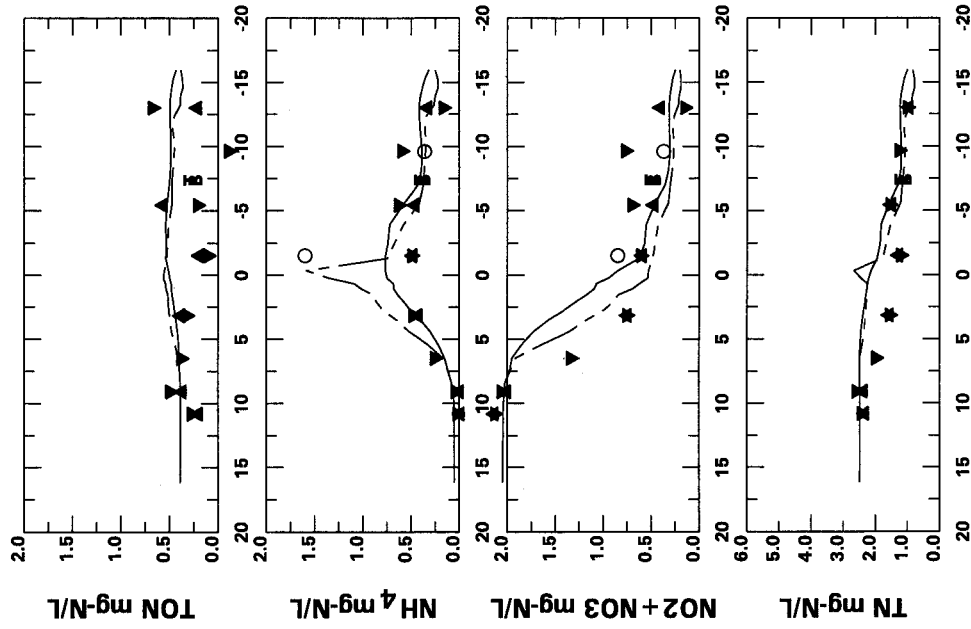
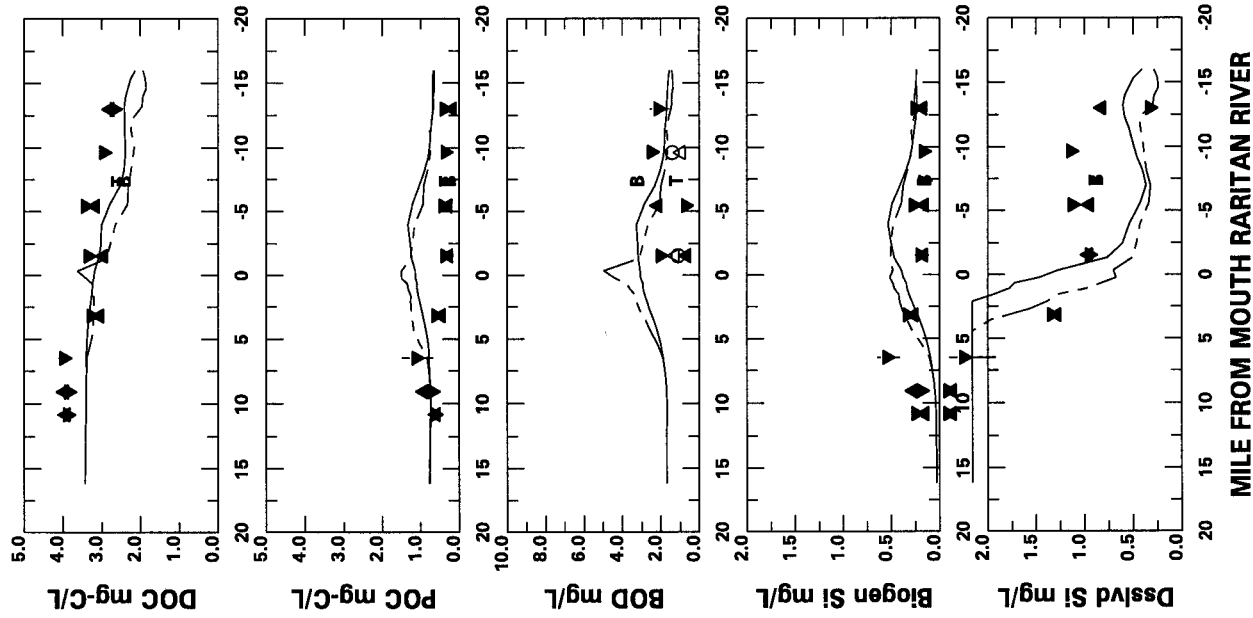
10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND NORTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION

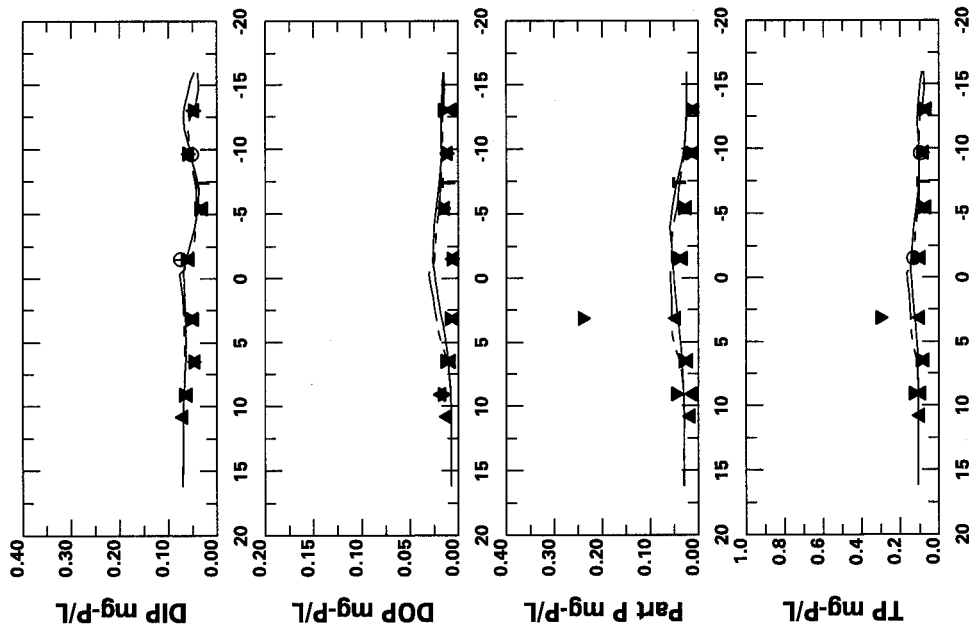
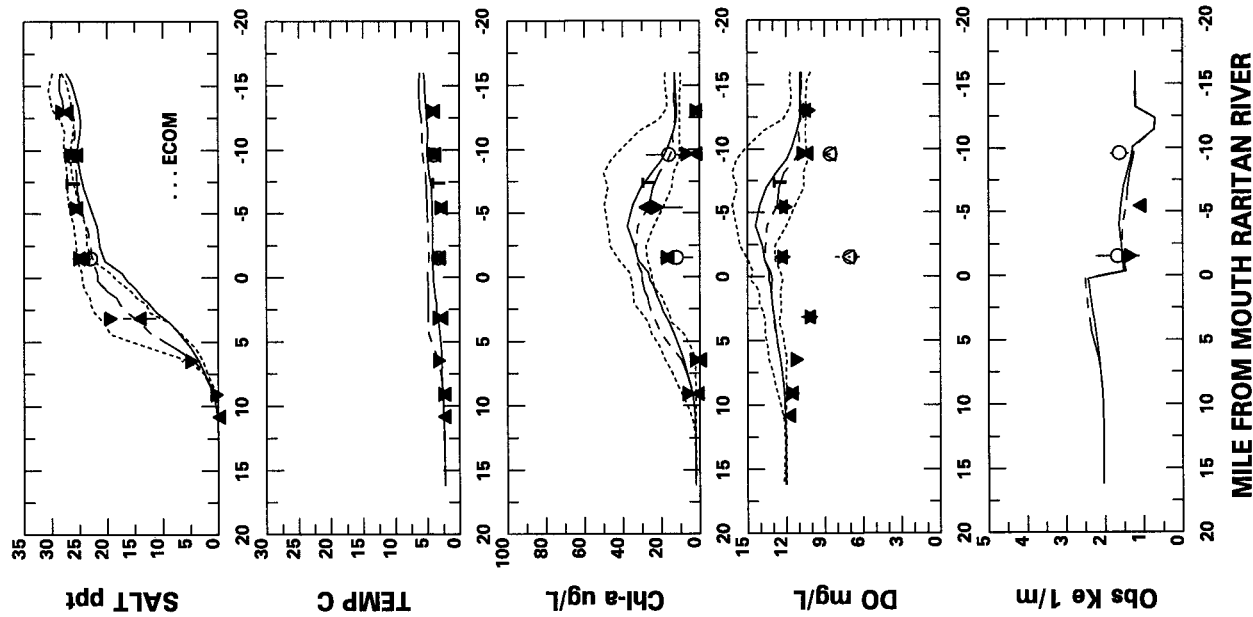


DATA	SURF BOT	MODEL
Battelle Jan 23-31, 1995	Transect	SURFACE 10-DAY MEAN
	T B Embayment	BOTTOM 10-DAY MEAN
NYCDEP 1/95	Transect	10-DAY SURFACE MAX OR
	t b Embayment	BOTTOM MIN

RARITAN RIVER AND NORTH SHORE OF RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



RARITAN RIVER AND NORTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Feb 22-Mar 1,
1995

NYCDEP 2/95

SURF BOT

▲ Transect
T B Embayment
○ Transect
t b Embayment

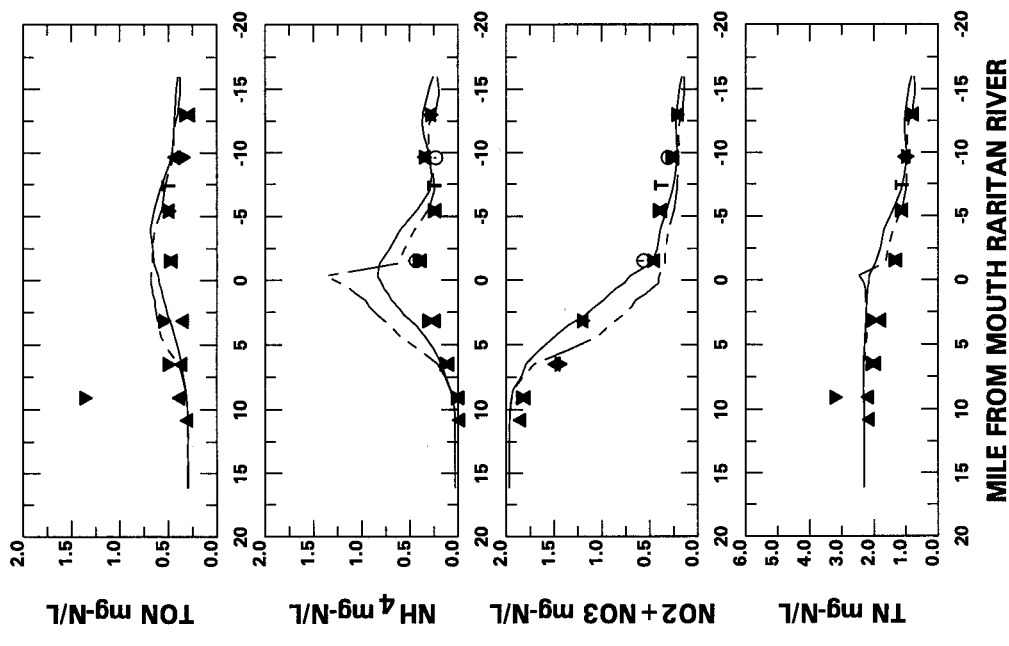
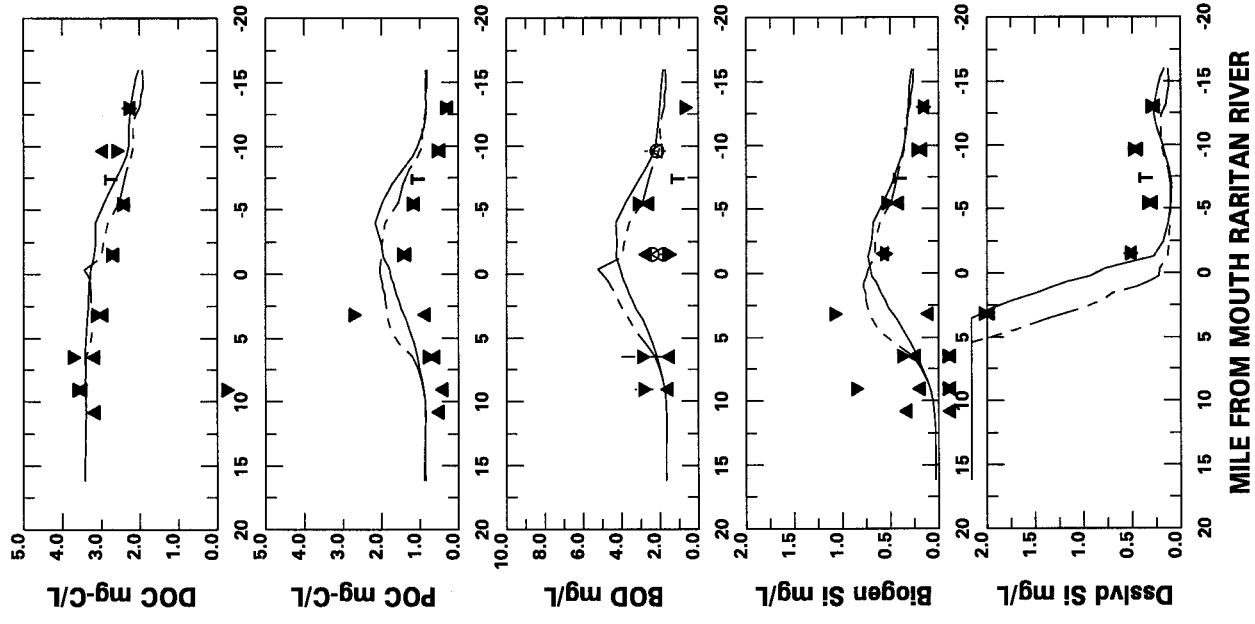
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

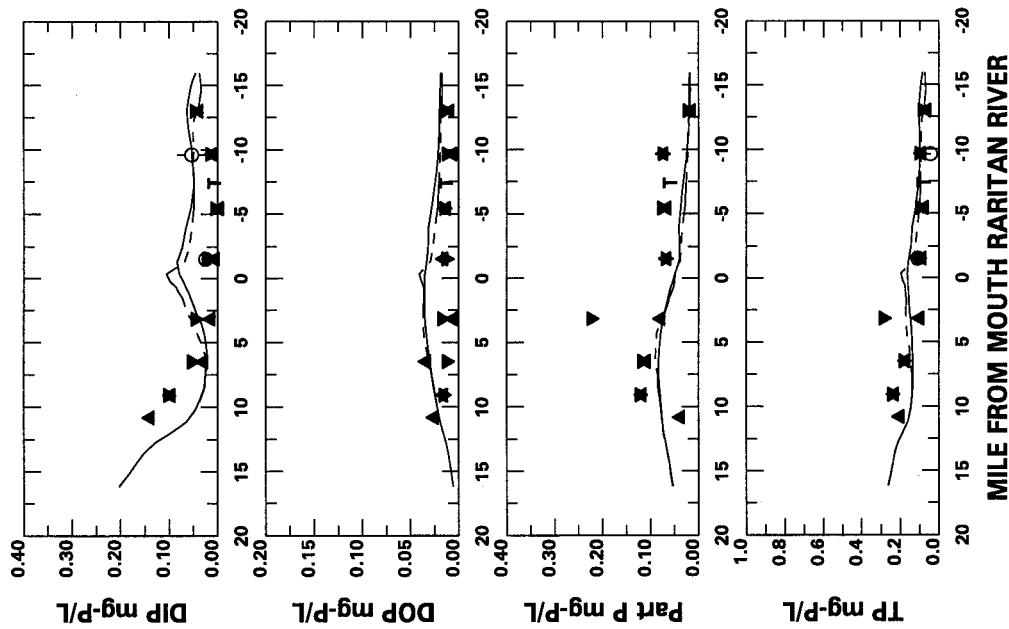
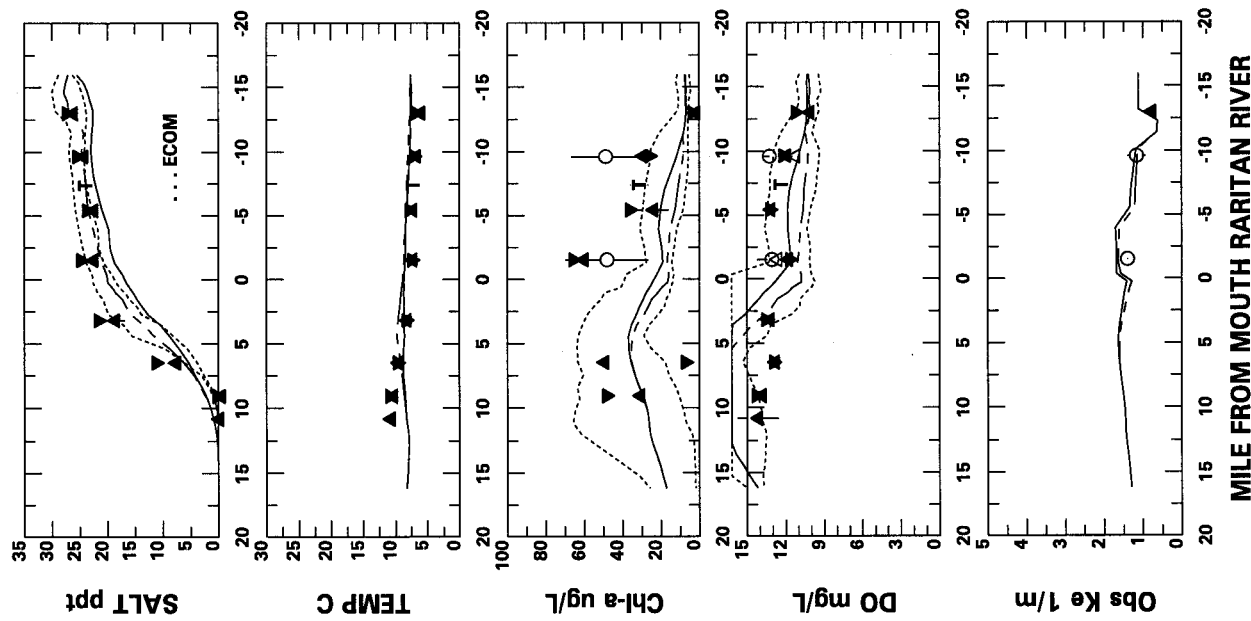
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

RARITAN RIVER AND NORTH SHORE OF RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA	SURF	BOT	MODEL	
Battelle Feb 22-Mar 1, 1995	▲	▼	—	SURFACE 10-DAY MEAN
NYCDEP 2/95	T	B	- - -	BOTTOM 10-DAY MEAN
	○	△	- - -	10-DAY SURFACE MAX OR BOTTOM MIN
	t	b	- - -	

RARITAN RIVER AND NORTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8,
1995

NYCDEP 4/95

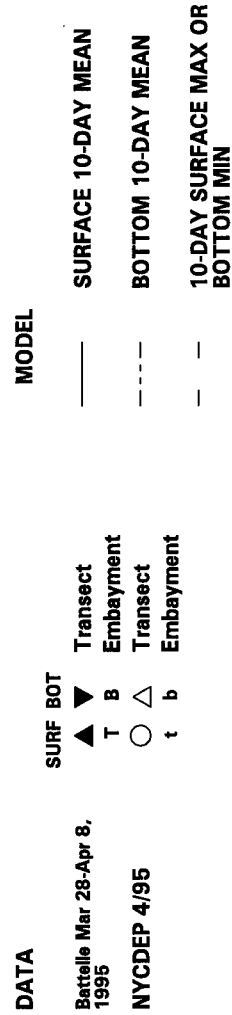
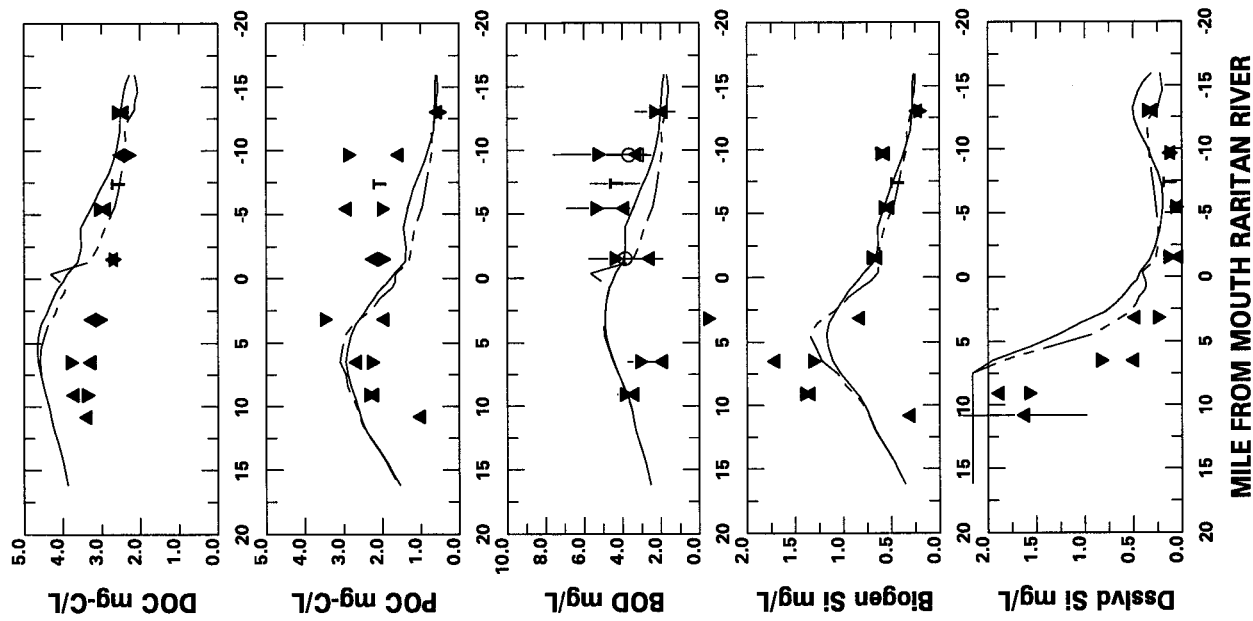
SURF BOT

▲ Transect
T B Embayment
○ Transect
t b Embayment

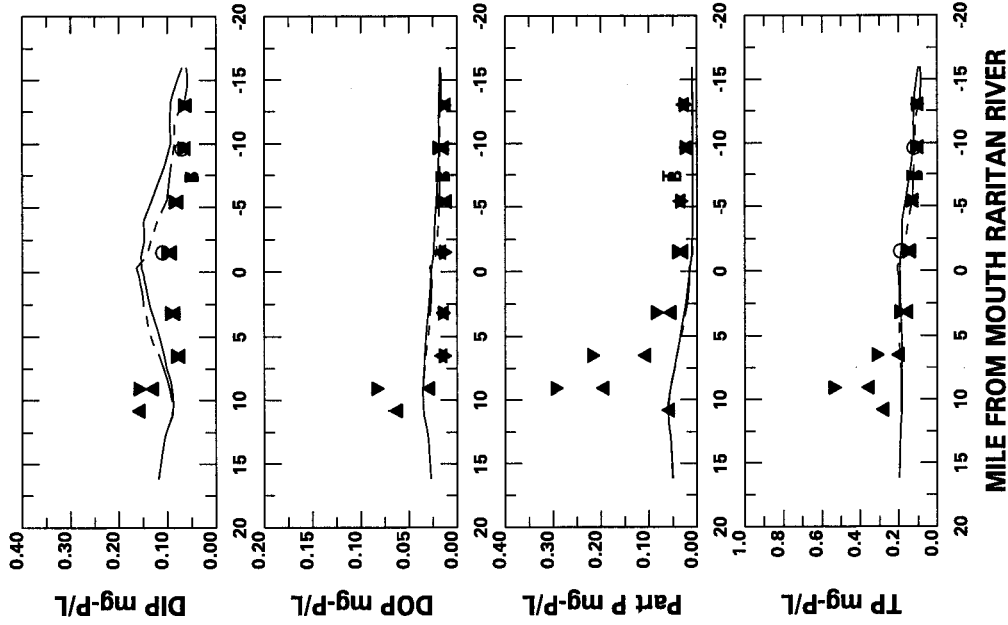
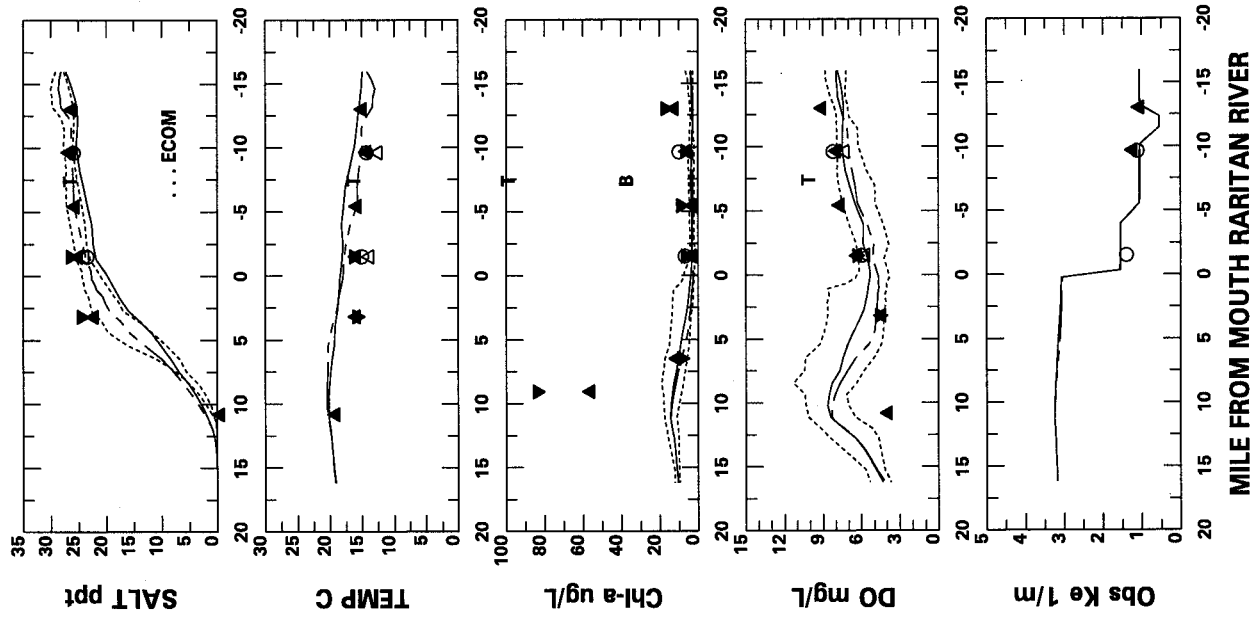
MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - 10-DAY SURFACE MAX OR
BOTTOM MIN

RARITAN RIVER AND NORTH SHORE OF RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION

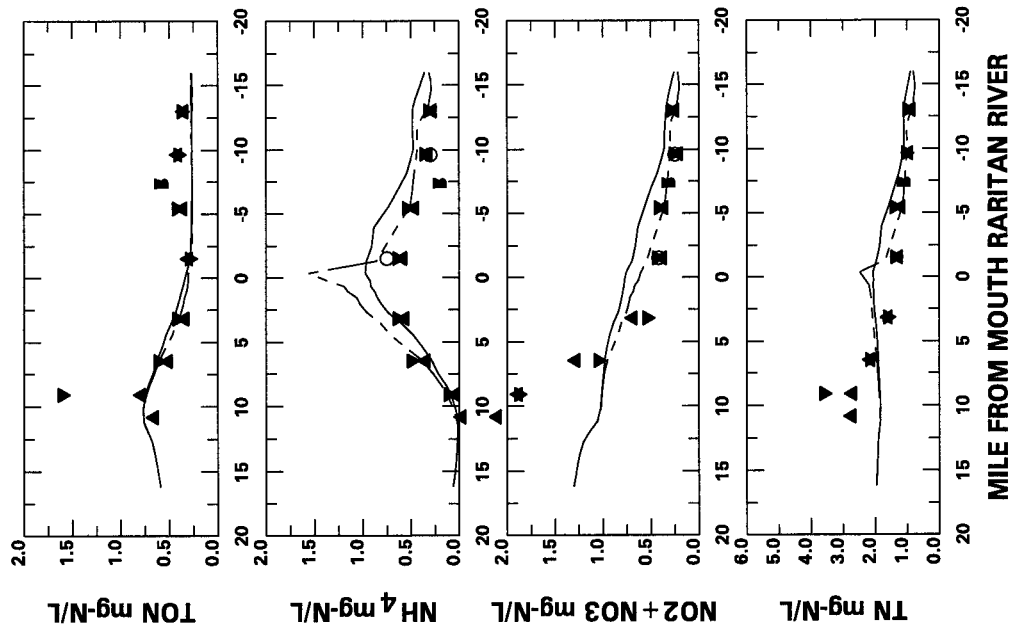


RARITAN RIVER AND NORTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL
Battelle May 20-26, 1995	▲ Transect	— SURFACE 10-DAY MEAN
	▼ Embayment	--- BOTTOM 10-DAY MEAN
NYCDEP 5/95	○ Transect	- - - 10-DAY SURFACE MAX OR BOTTOM MIN
	● Embayment	

RARITAN RIVER AND NORTH SHORE OF RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



MODEL

Transect
Embayment

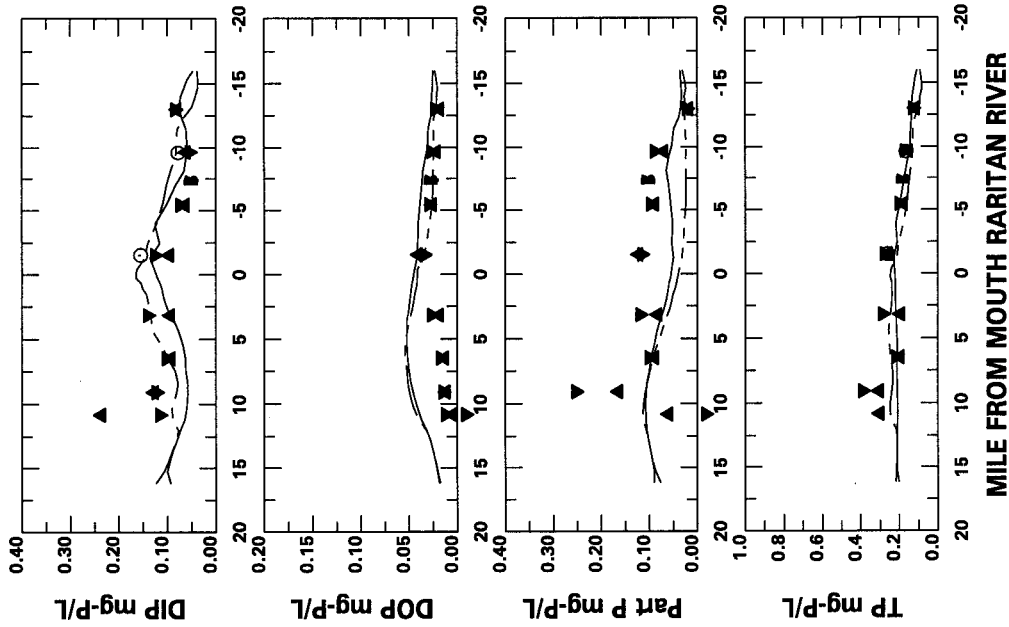
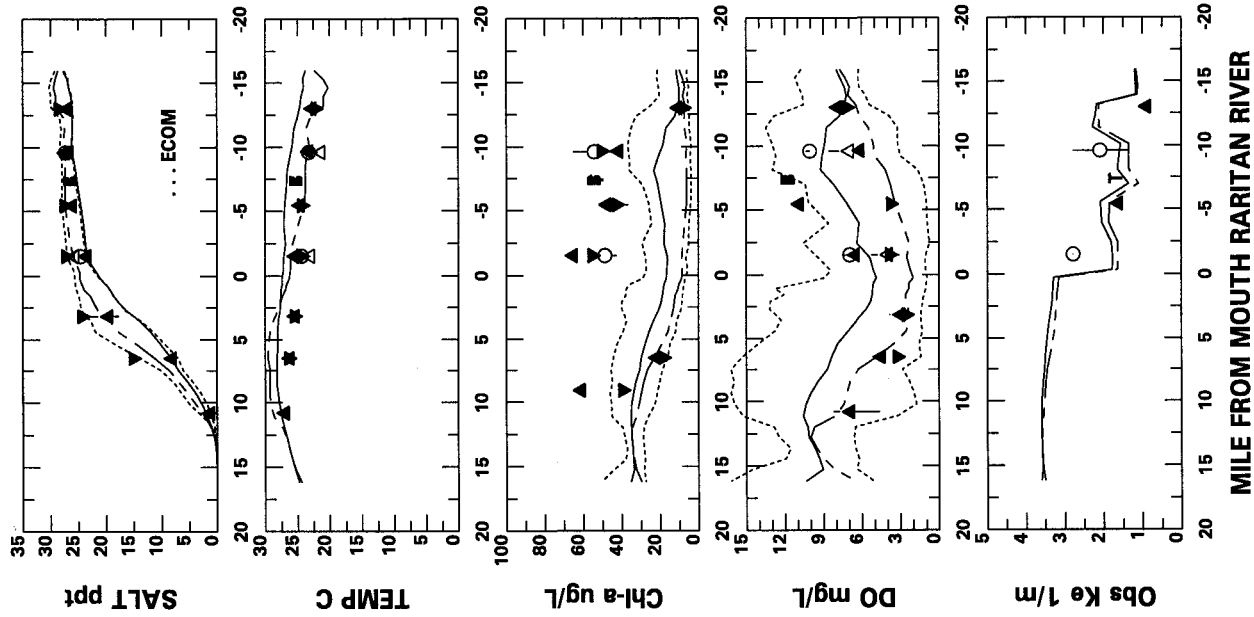
SURFACE 10-DAY MEAN

	○	△	
Embankment			
Transect			
Embayment	t	b	

BOTTOM 10-DAY MEAN

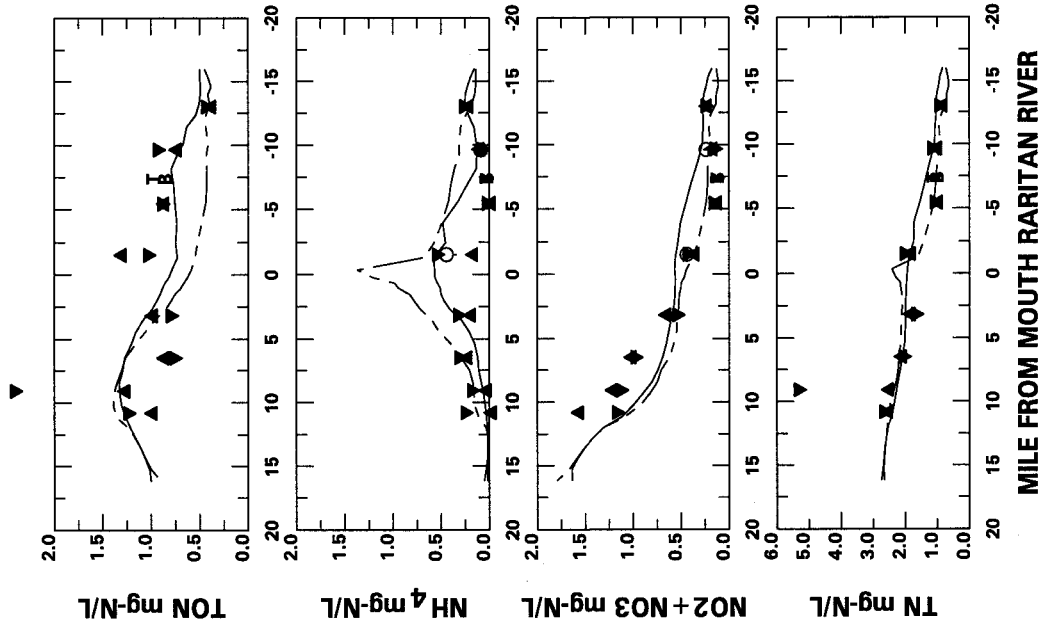
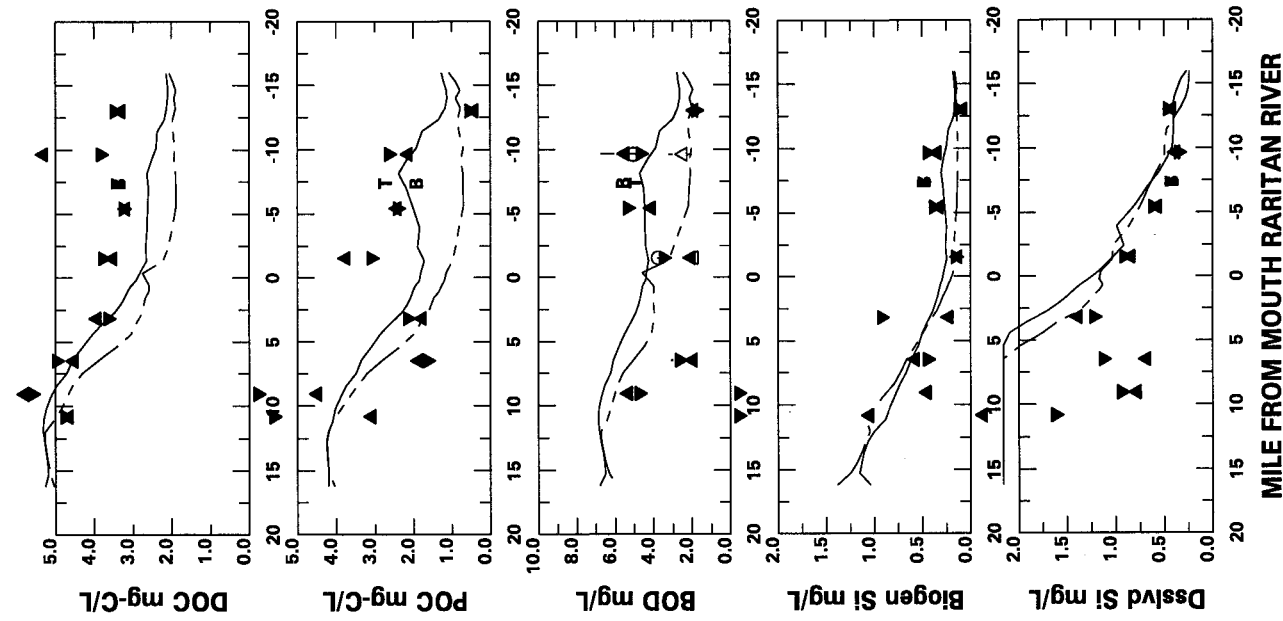
10-DAY SURFACE MAX OR
BOTTOM MIN

DATE: Wed Apr 29 TIME: 14:35:19



DATA	SURF BOT	MODEL
Battelle July 20-Aug 2, 1995	Transect	SURFACE 10-DAY MEAN
NYCDEP 7/95	T B	BOTTOM 10-DAY MEAN
	o t	10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND NORTH SHORE OF RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2, 1995

NYCDEP 7/95

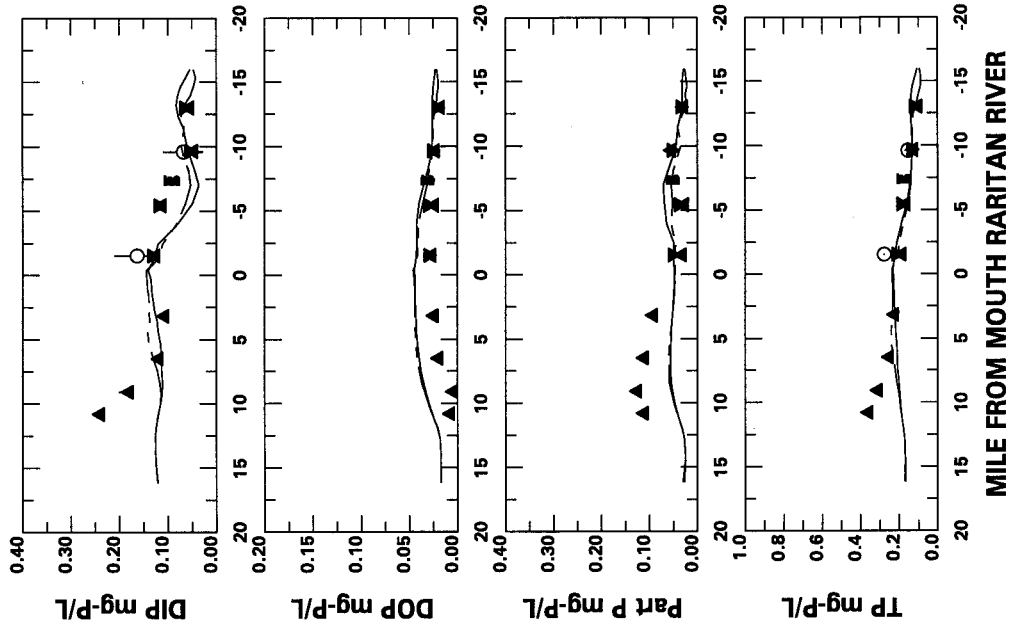
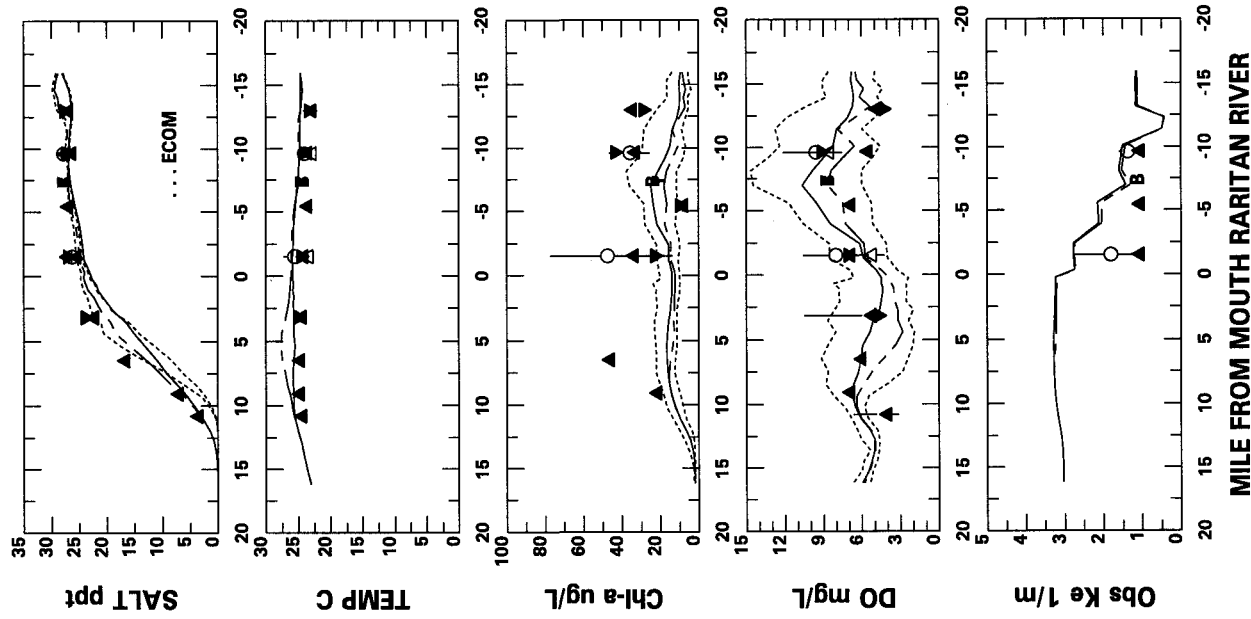
SURF BOT

▲ Transect
 T Embayment
 ○ Transect
 t Embayment

MODEL

— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND NORTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Aug 20-29, 1995

NYCDEP 8/95

MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

SURF BOT

Transect

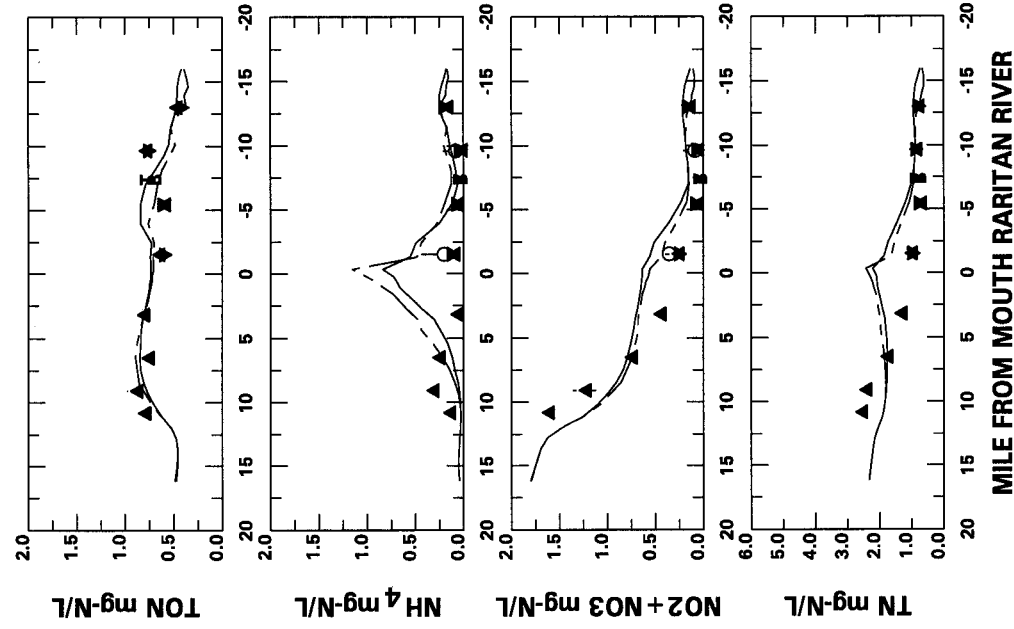
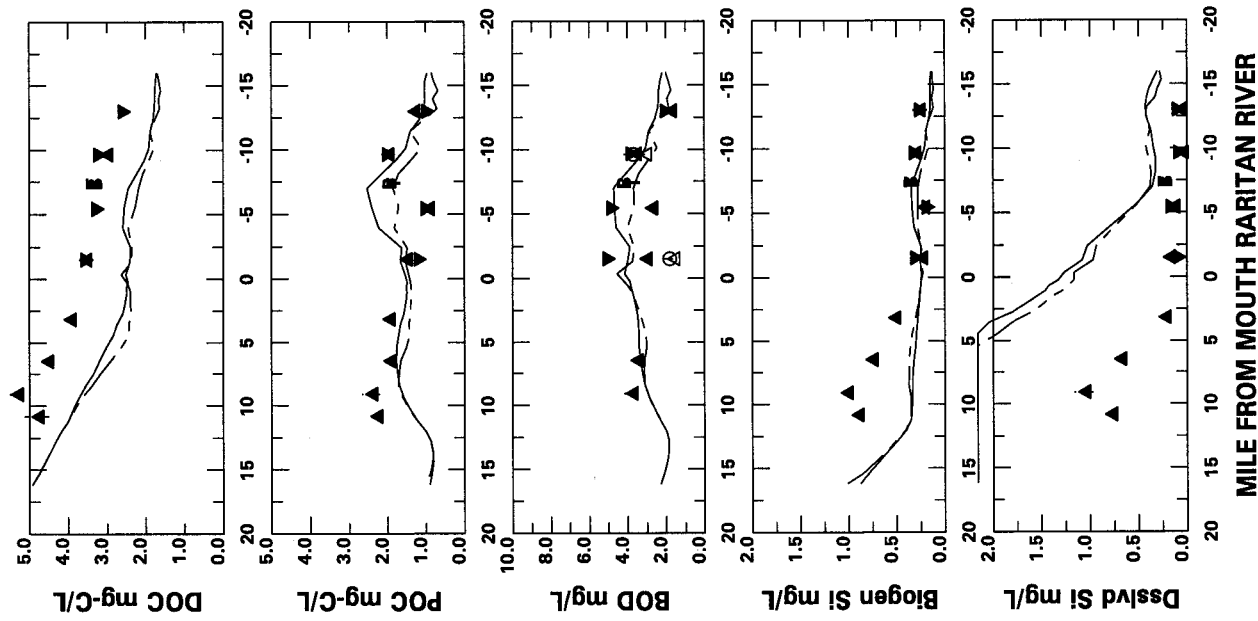
Embayment

T B

○ △

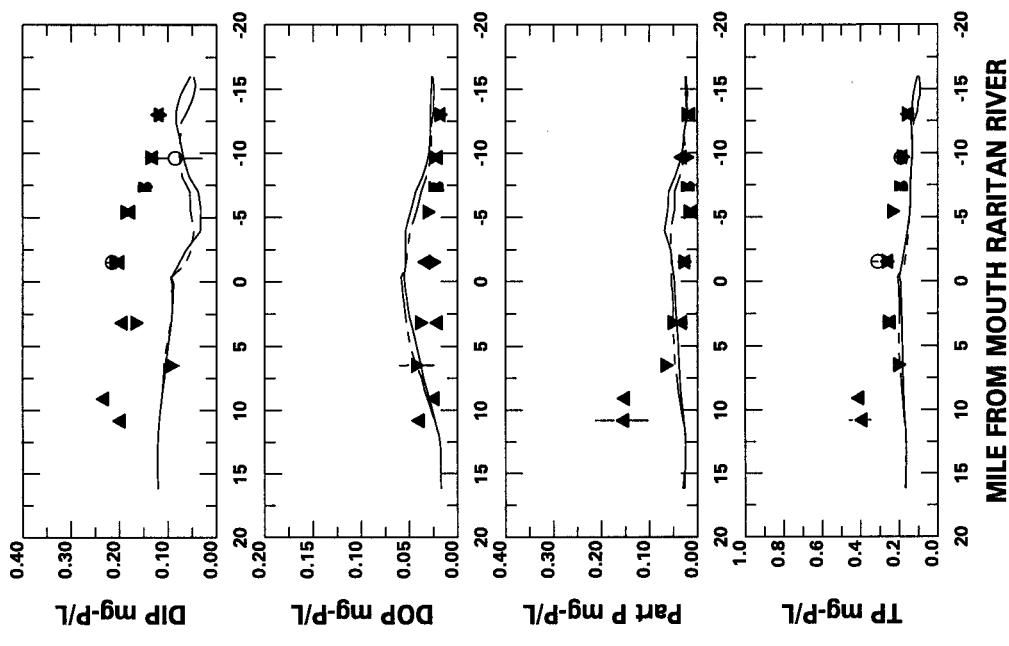
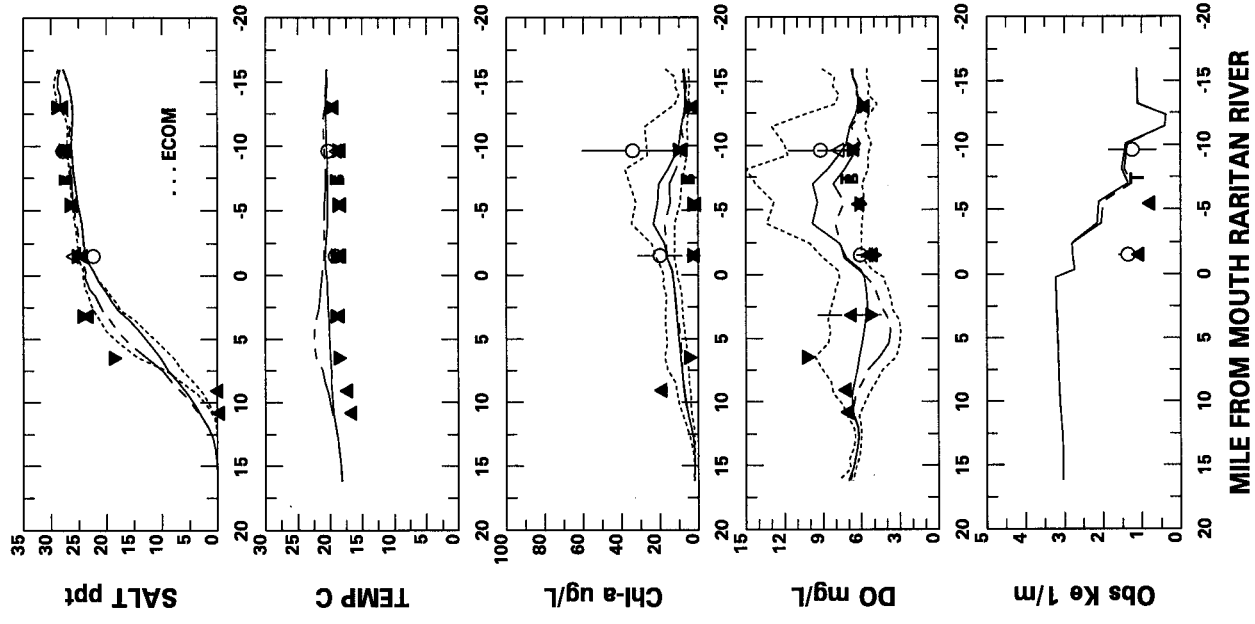
t b

RARITAN RIVER AND NORTH SHORE OF RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



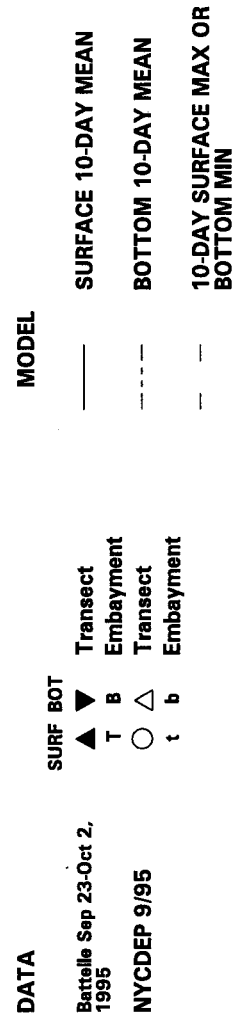
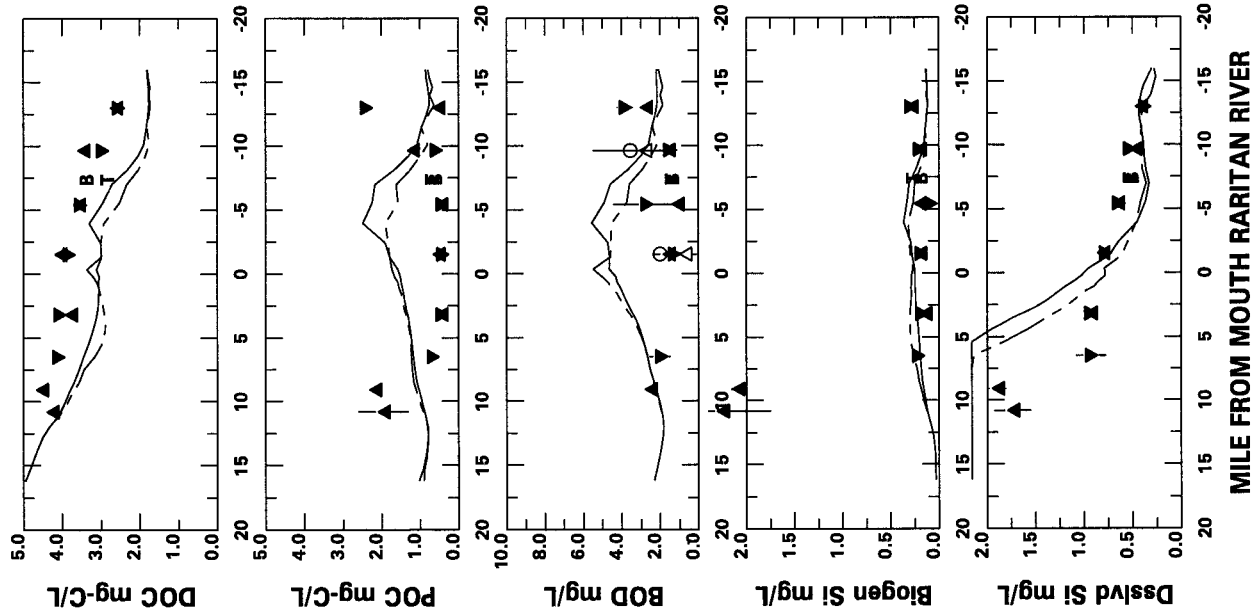
DATA	SURF BOT	MODEL
Battelle Aug 20-29, 1995	Transect	SURFACE 10-DAY MEAN
	T B	BOTTOM 10-DAY MEAN
NYCDEP 8/95	Transect	10-DAY SURFACE MAX OR
	t b	BOTTOM MIN

RARITAN RIVER AND NORTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



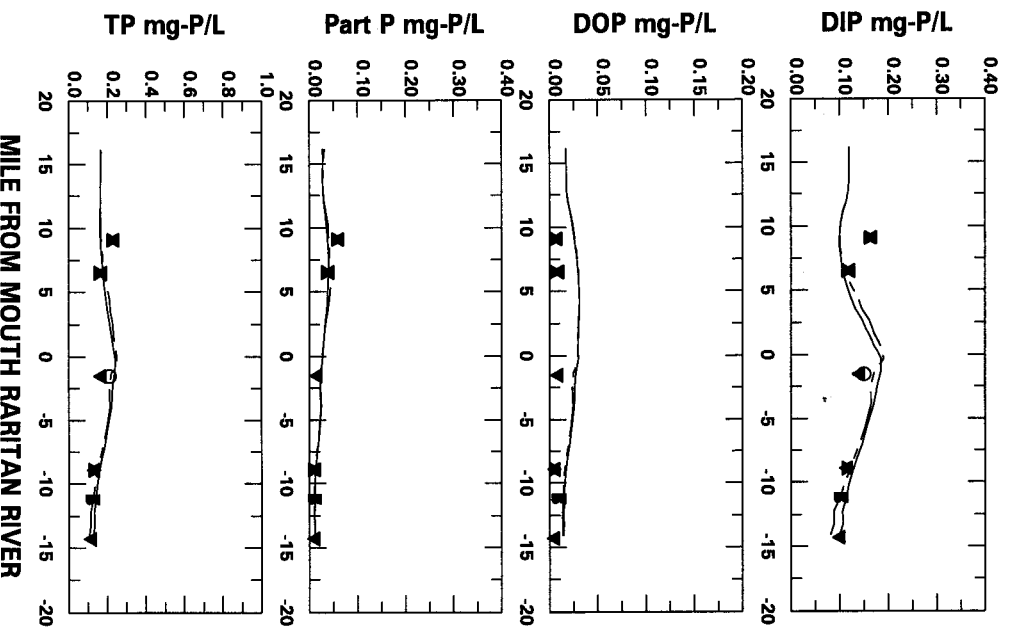
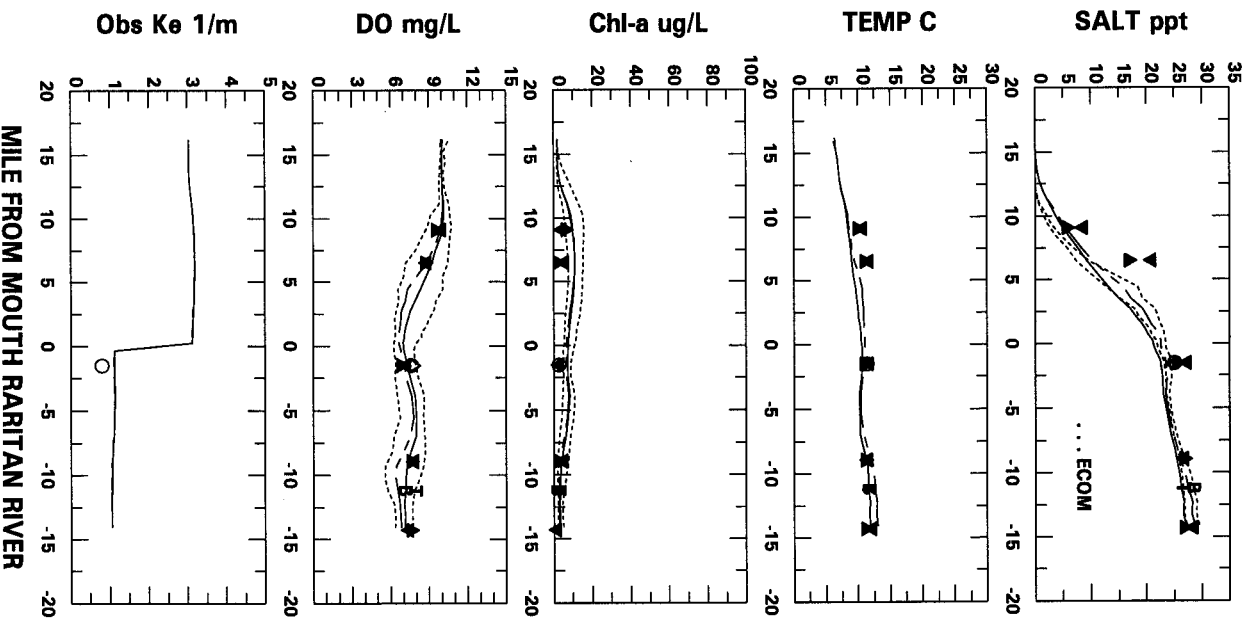
DATA	SURF BOT	Transect Embayment	MODEL	SURFACE 10-DAY MEAN
Battelle Sep 23-Oct 2, 1995	▲ T	Embayment	—	BOTTOM 10-DAY MEAN
NYCDEP 9/95	○ t	Transect	- - -	10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND NORTH SHORE OF RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



RARITAN RIVER AND NORTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION

**SPATIAL DISTRIBUTIONS OF
RARITAN RIVER, RARITAN BAY
SOUTH TRANSECT**



DATA

Battelle Nov 12-17, 1994

NYCDEP 11/94

SURF BOT

▲ ▼ Transect

T B Embayment

○ △ Transect

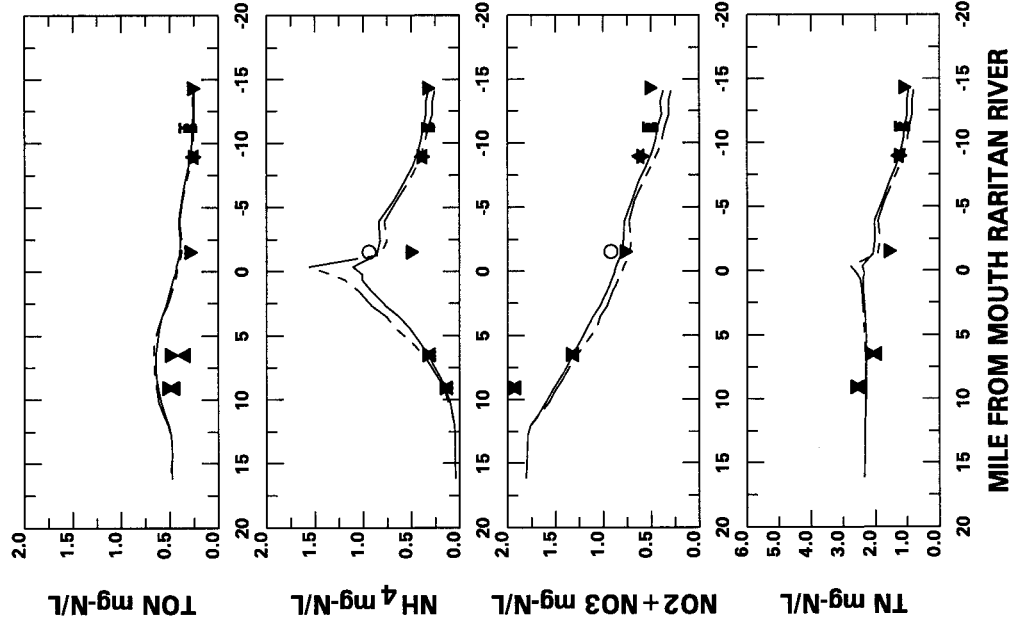
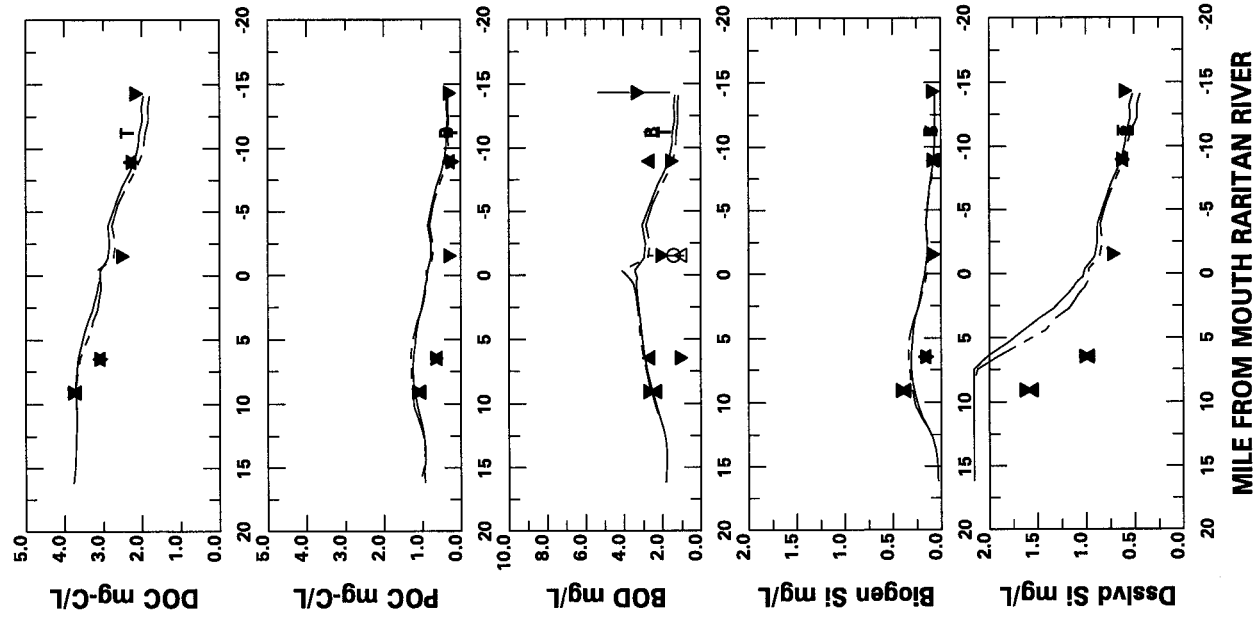
† b Embayment

MODEL

— SURFACE 10-DAY MEAN

--- BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN



DATA

Battelle Nov 12-17, 1994

NYCDEP 11/94

SURF BOT

▲ T
△ t

▼ B
○ b

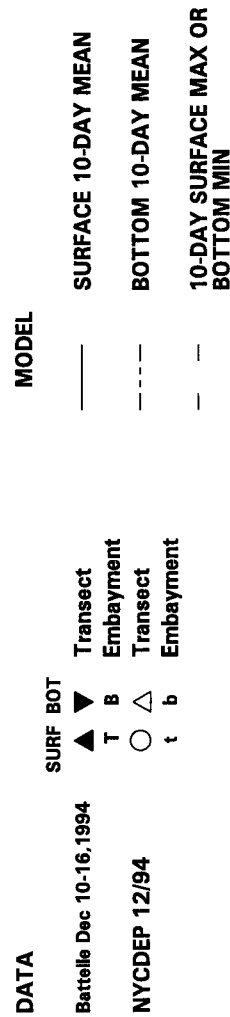
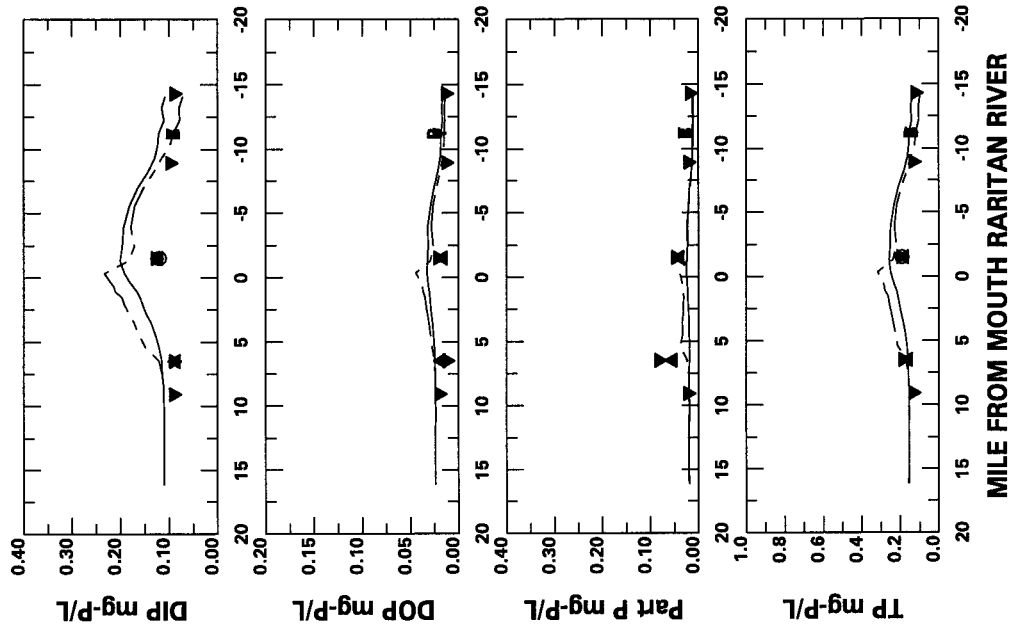
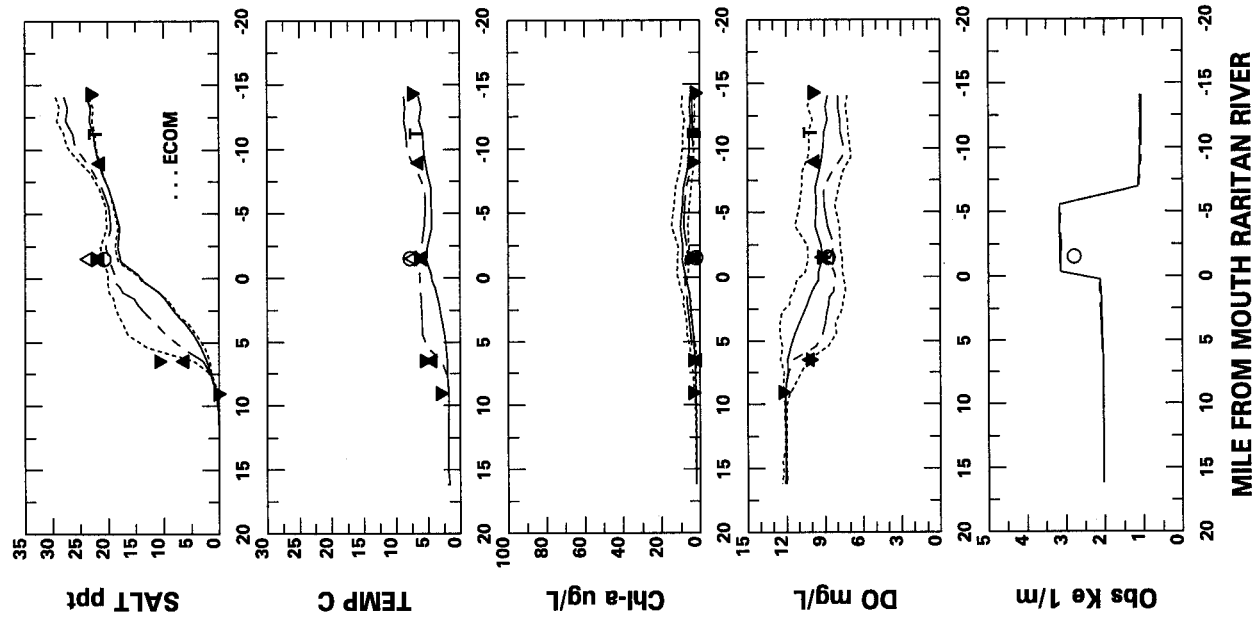
MODEL

— SURFACE 10-DAY MEAN

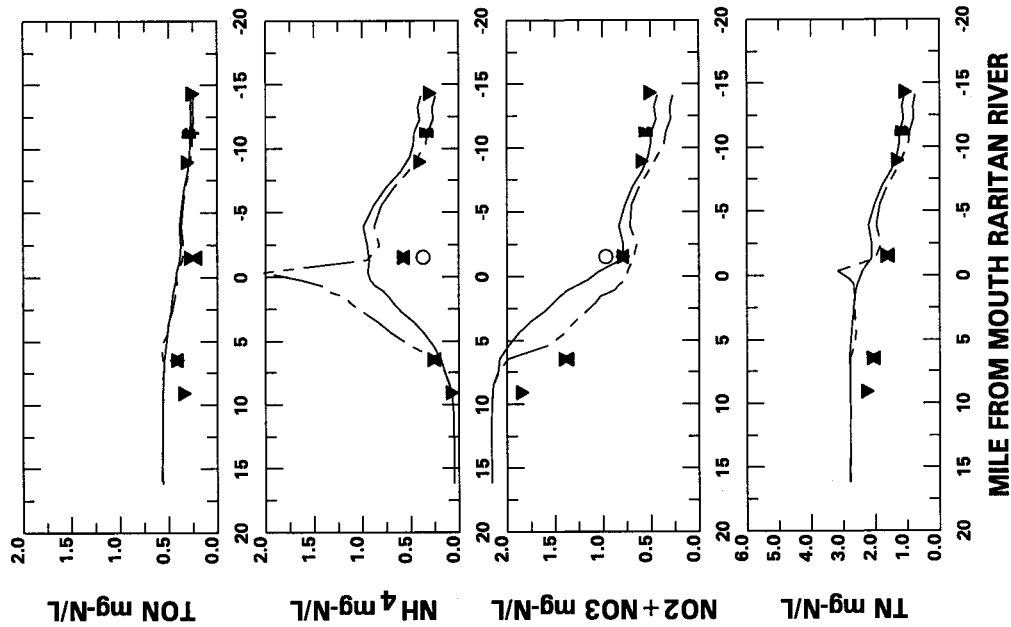
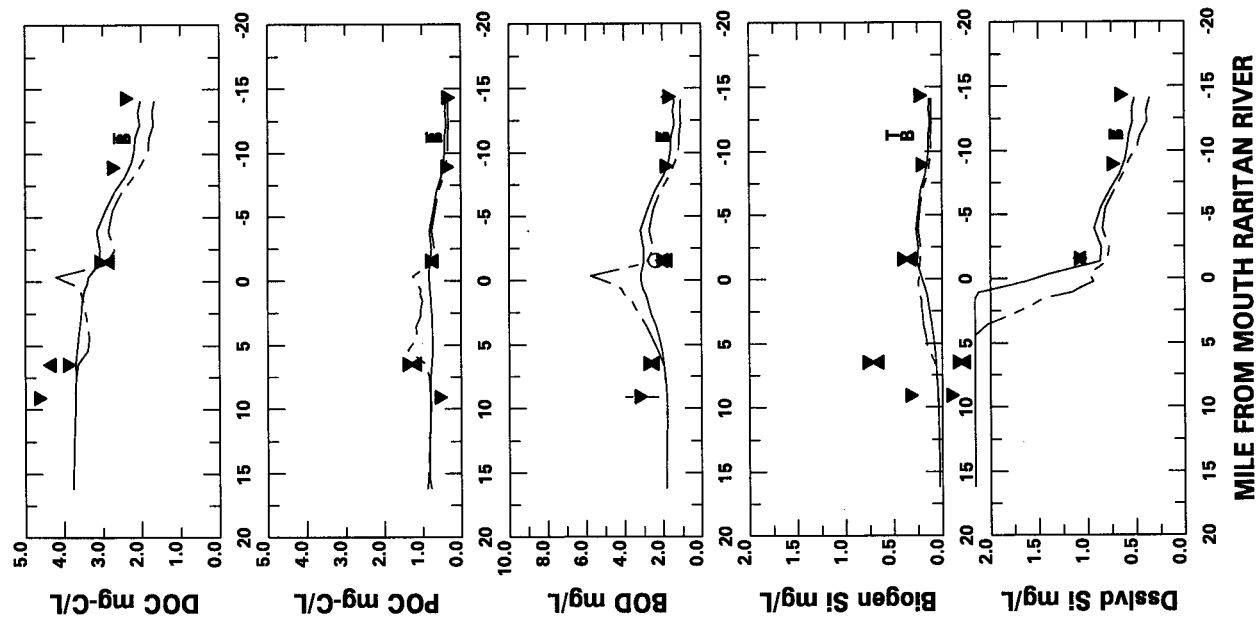
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 **SWEM REVISED CALIBRATION**



RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 **SWEM REVISED CALIBRATION**



DATA

Battelle Dec 10-16, 1994

NYCDEP 12/94

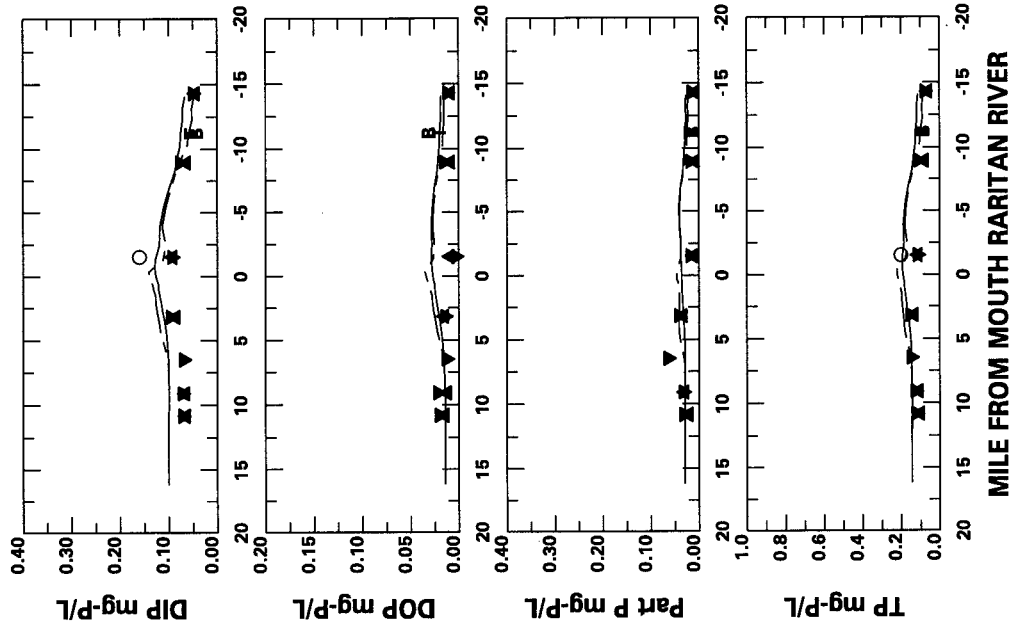
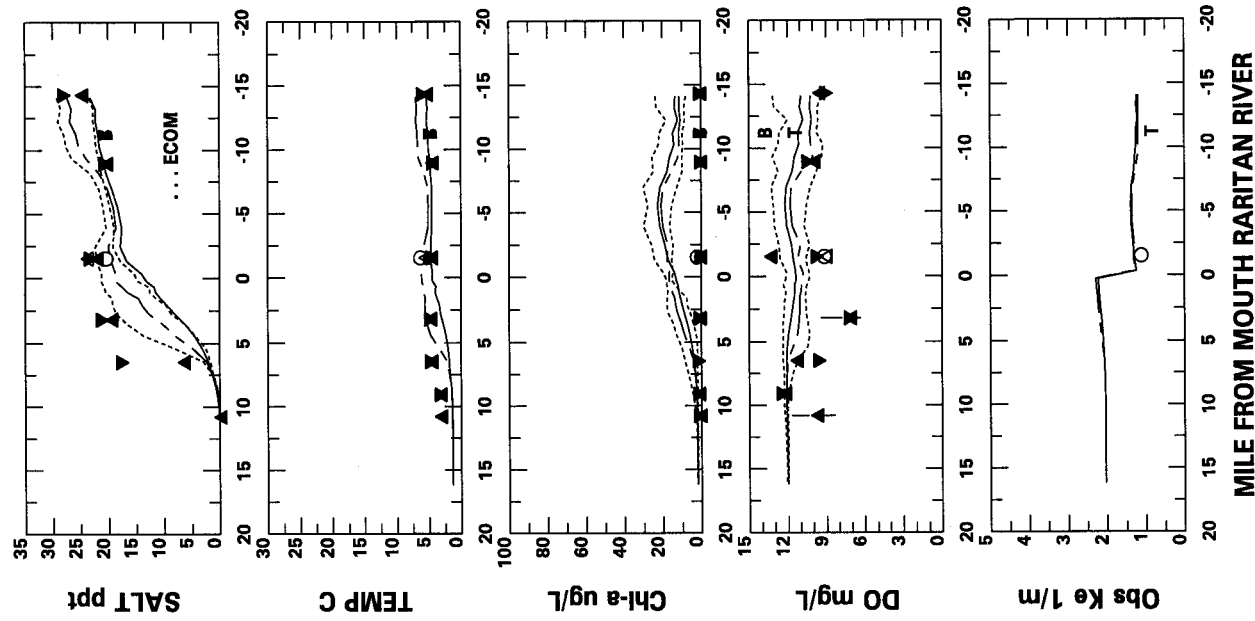
SURF BOT

▲ Transect
T Embayment
○ Transect
t Embayment

MODEL

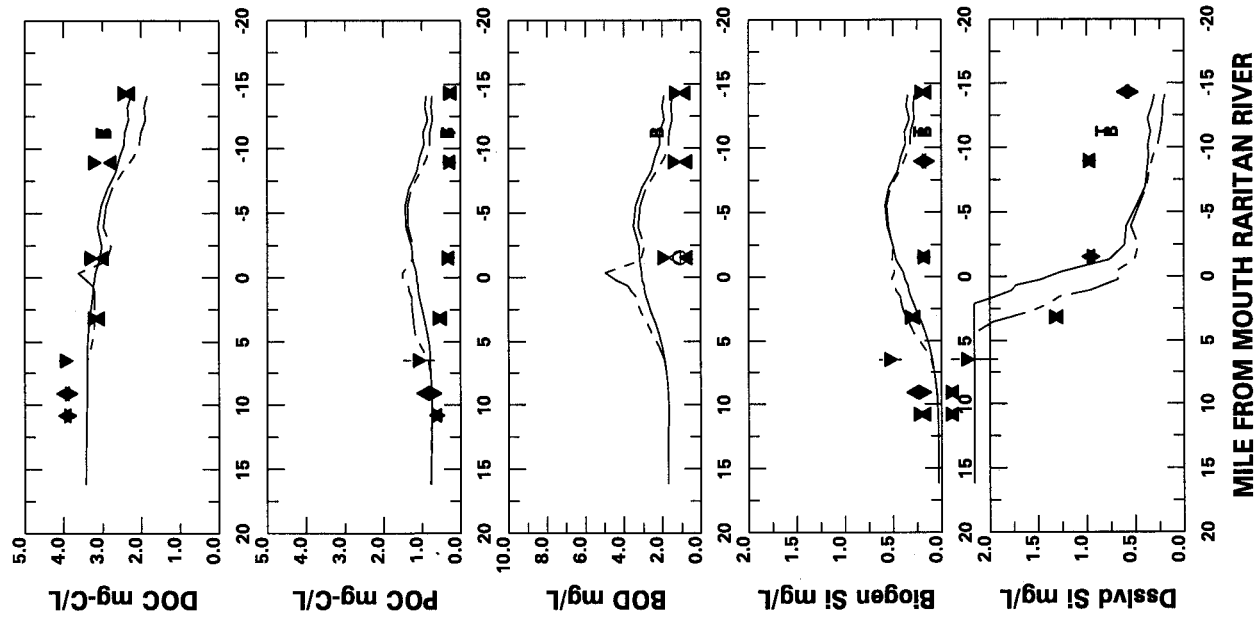
— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL
Battelle Jan 23-31, 1995	Transect	SURFACE 10-DAY MEAN
	T B Embayment	BOTTOM 10-DAY MEAN
NYCDEP 1/95	Transect	10-DAY SURFACE MAX OR
	t b Embayment	BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Jan 23-31, 1995

NYCDEP 1/95

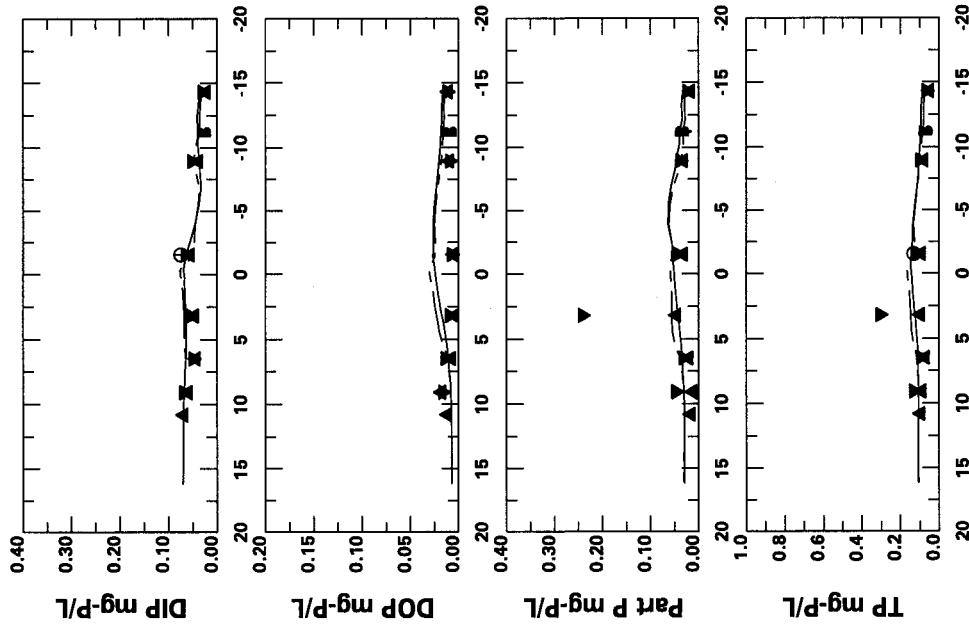
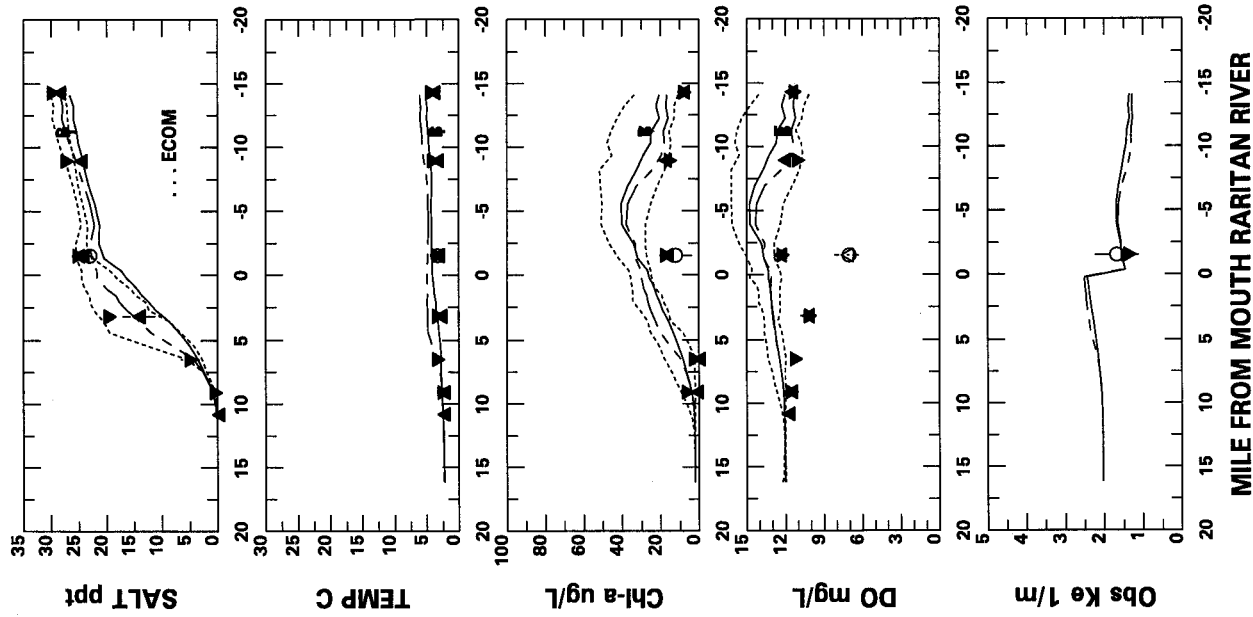
SURF BOT

▲ Transect
 T Embayment
 ○ Transect
 t Embayment

MODEL

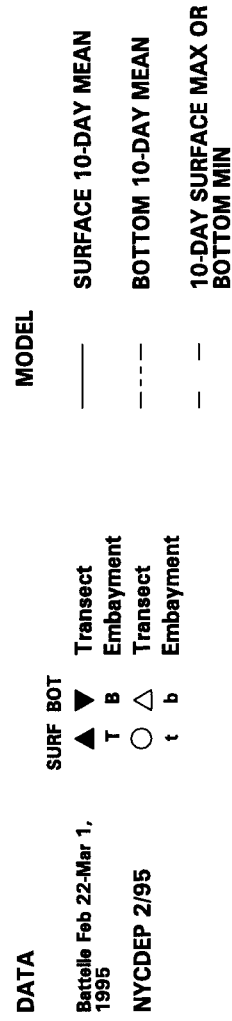
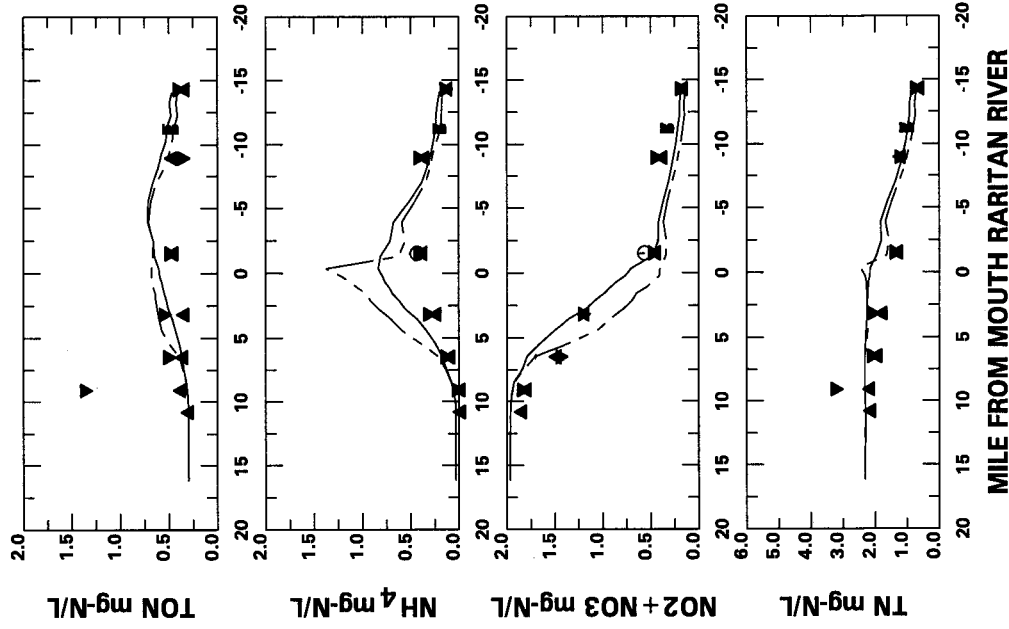
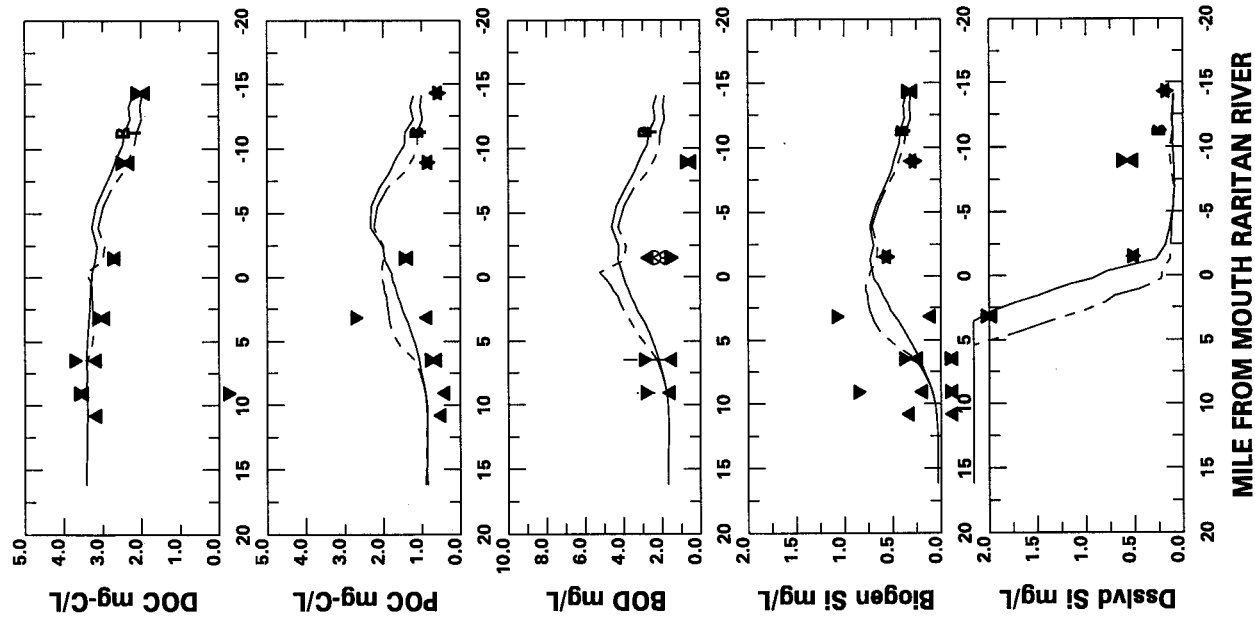
— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR
 BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION

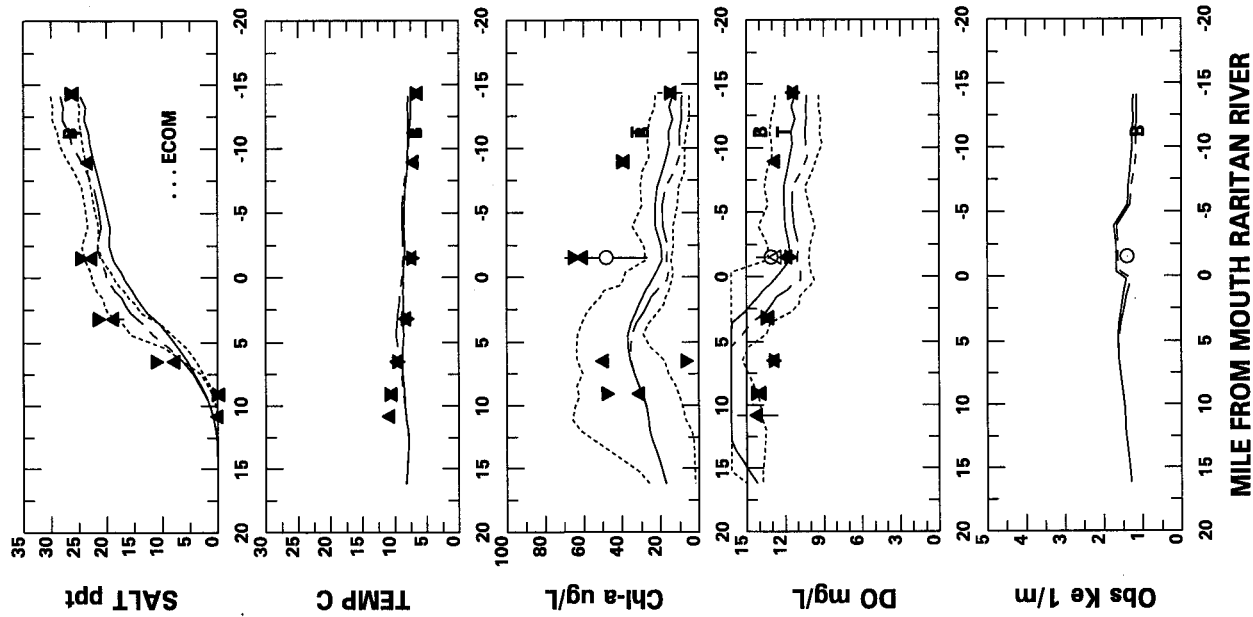


DATA	SURF BOT	MODEL
Battelle Feb 22-Mar 1, 1996	▲ T	— SURFACE 10-DAY MEAN
	▼ B	--- BOTTOM 10-DAY MEAN
NYCDEP 2/95	○ t	- - 10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Bettelle Mar 28-Apr 8,
1995

NYCDEP 4/95

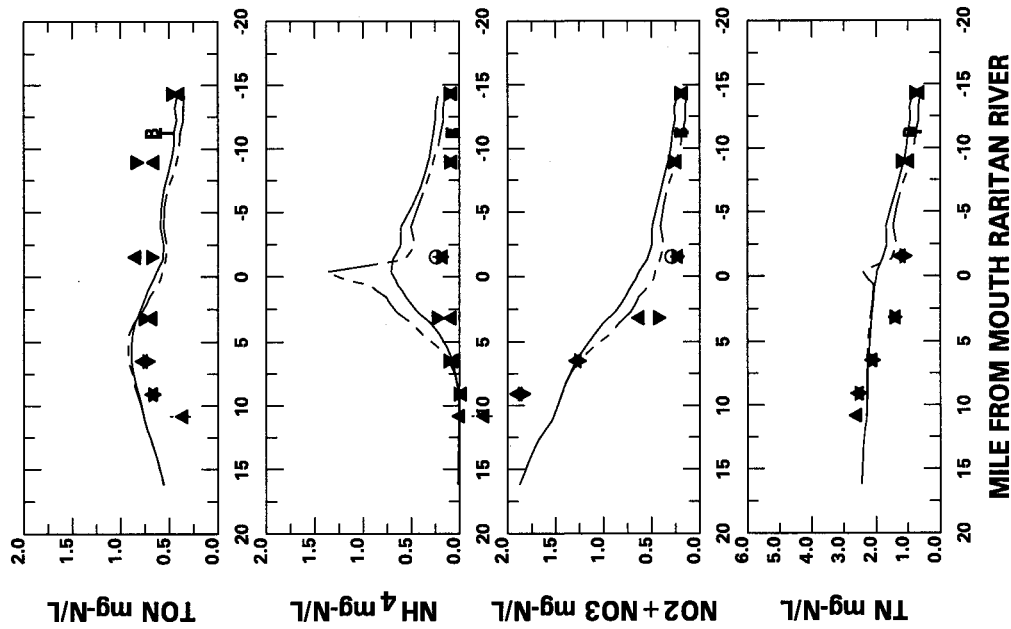
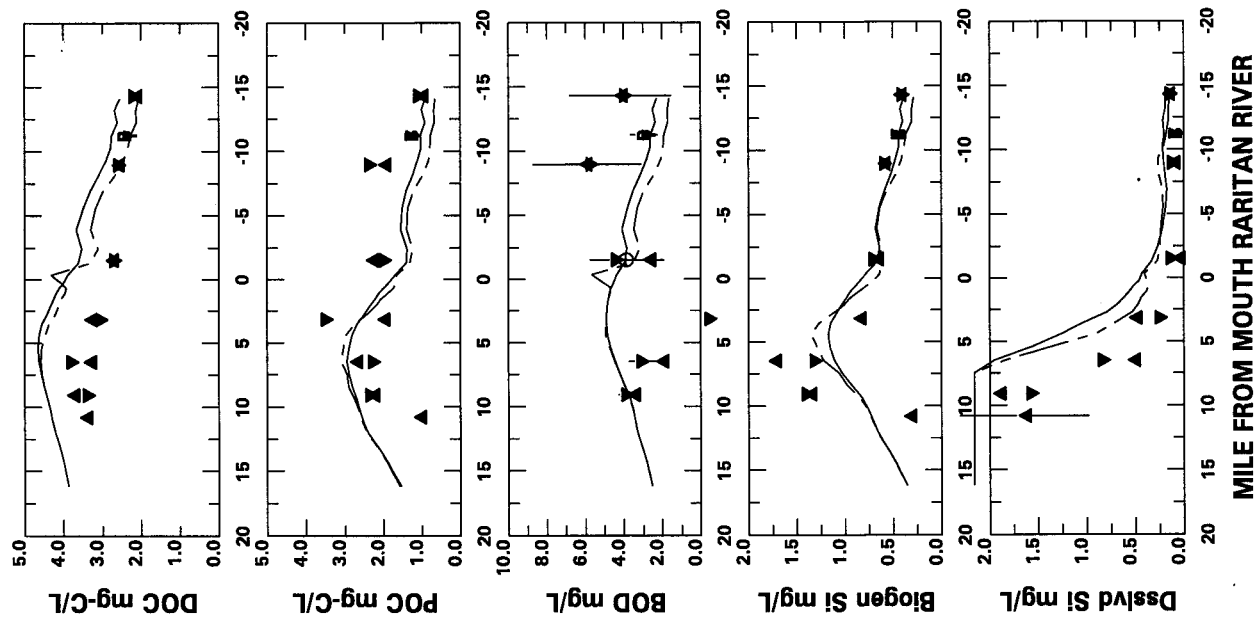
SURF BOT

▲ Transect
▼ Embayment
○ Transect
● Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8, 1995

NYCDEP 4/95

SURF BOT

▲ Transect

△ Embayment

○ Transect

● Embayment

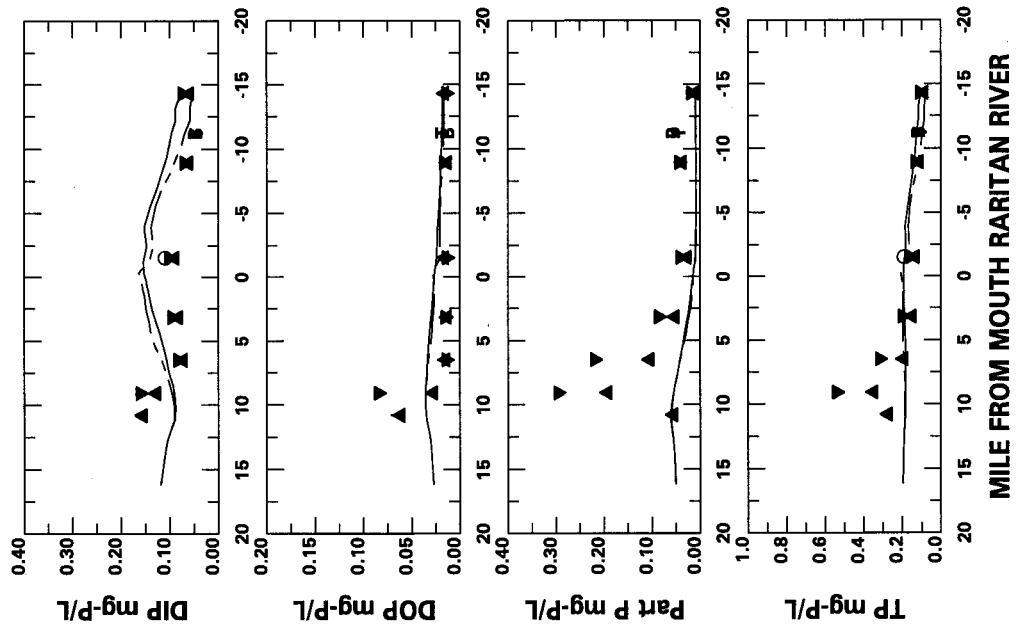
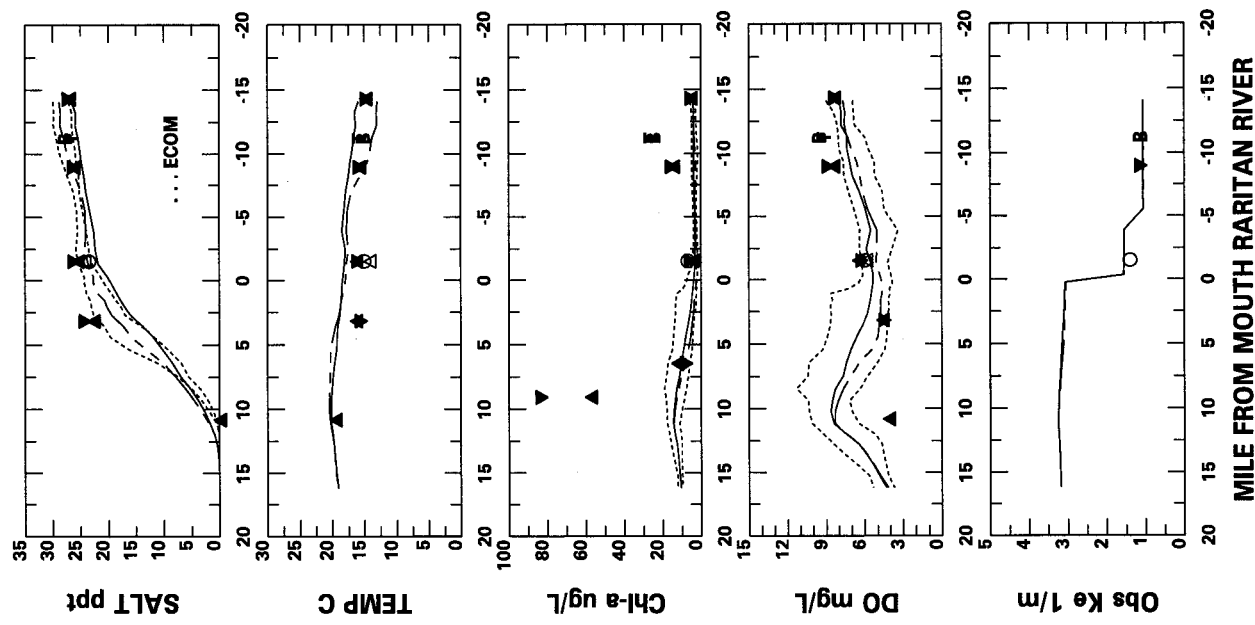
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995

NYCDEP 5/95

MODEL

SURF BOT

Transect

Embayment

Transect

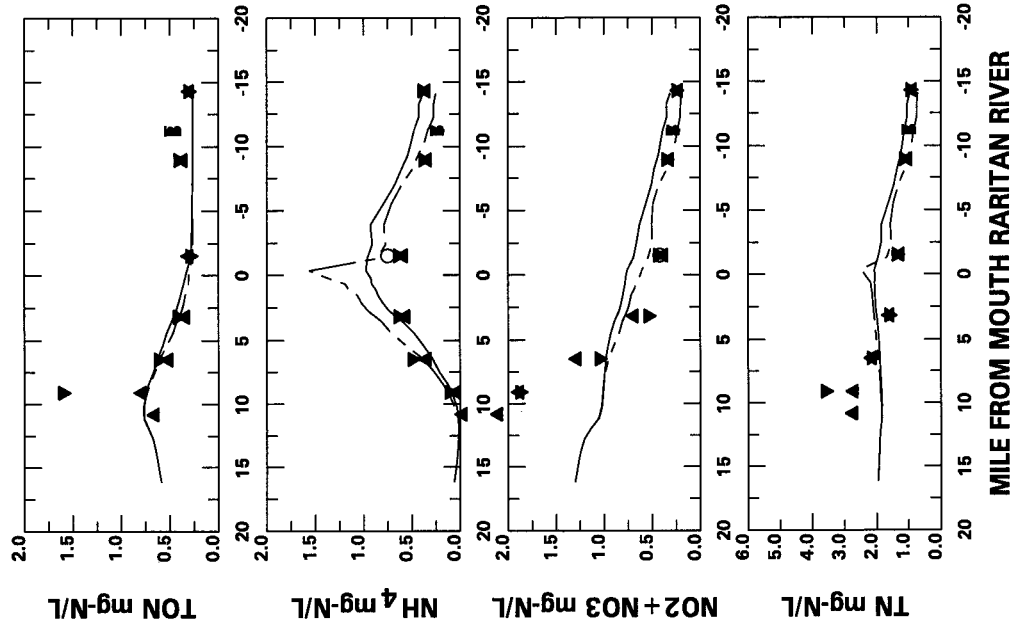
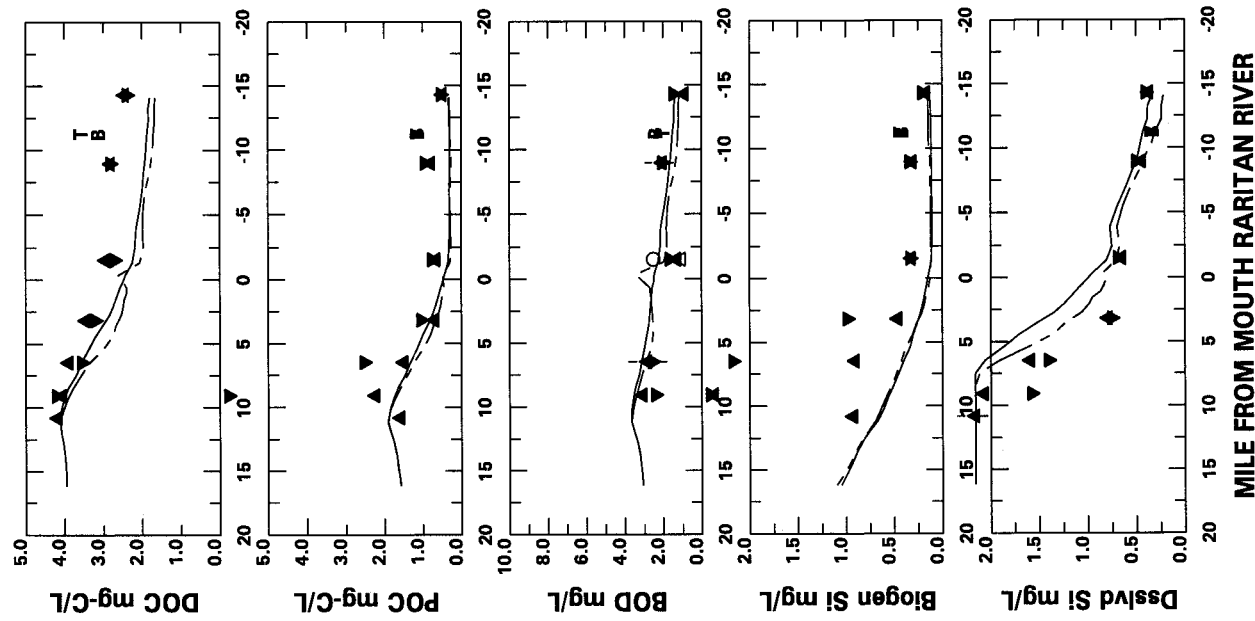
Embayment

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995

NYCDEP 5/95

MODEL

SURF BOT

Transect

Embayment

Transect

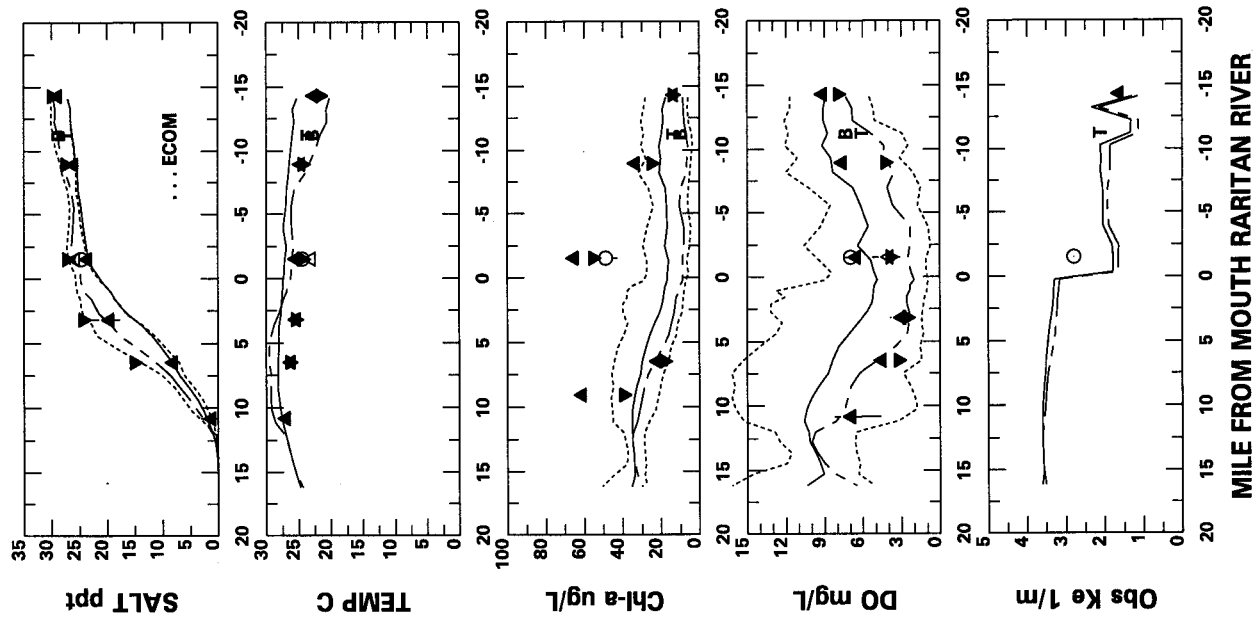
Embayment

SURFACE 10-DAY MEAN

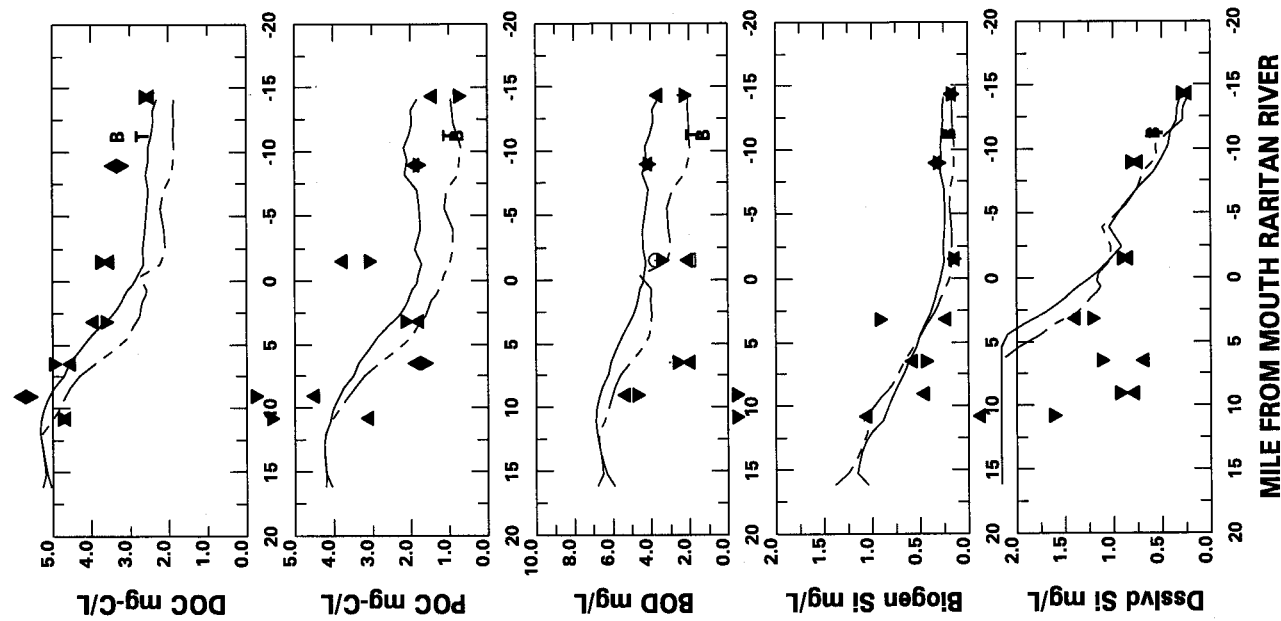
BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2, 1995

NYCDEP 7/95

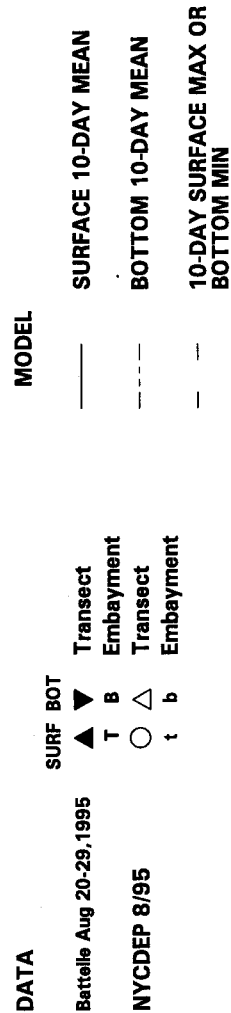
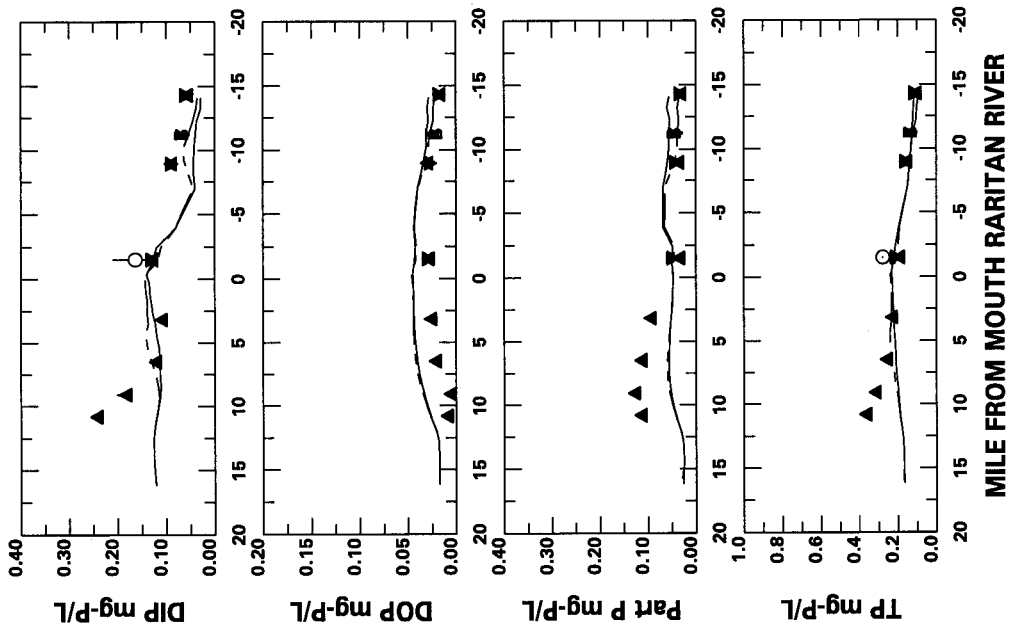
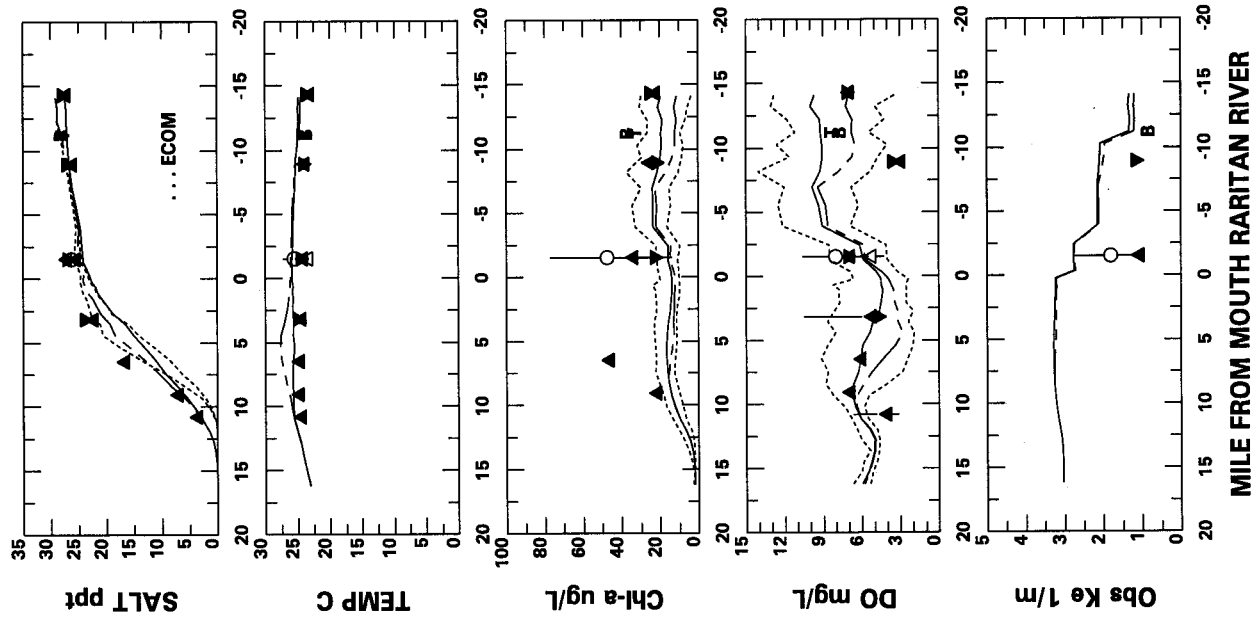
SURF BOT

▼ Transect
 ▲ Embayment
 ○ Transect
 t Embayment

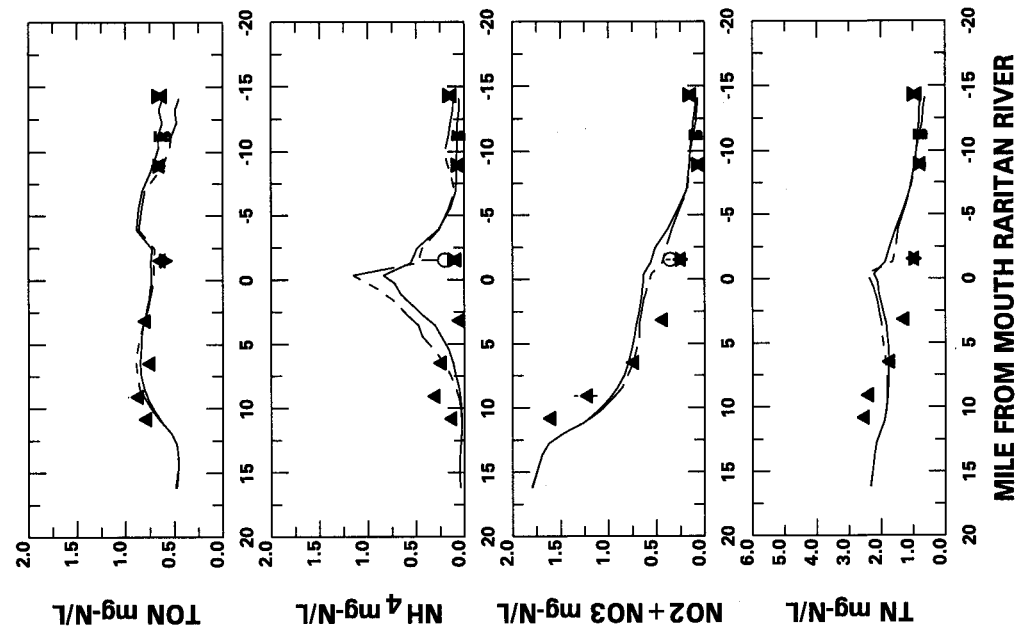
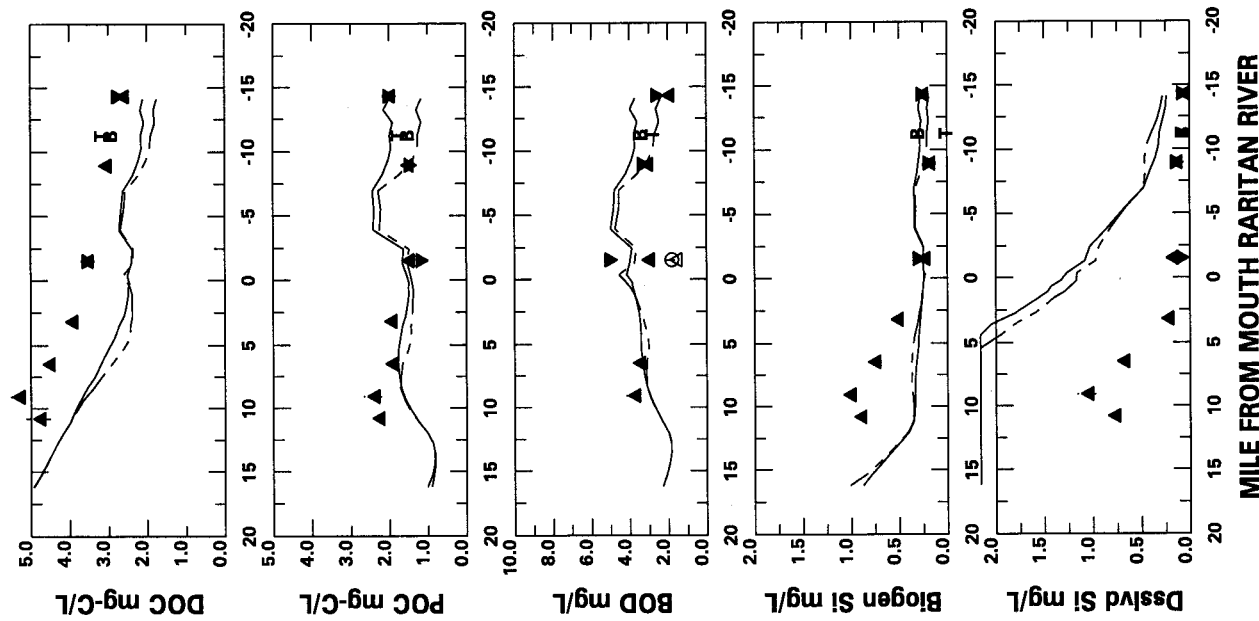
MODEL

— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION

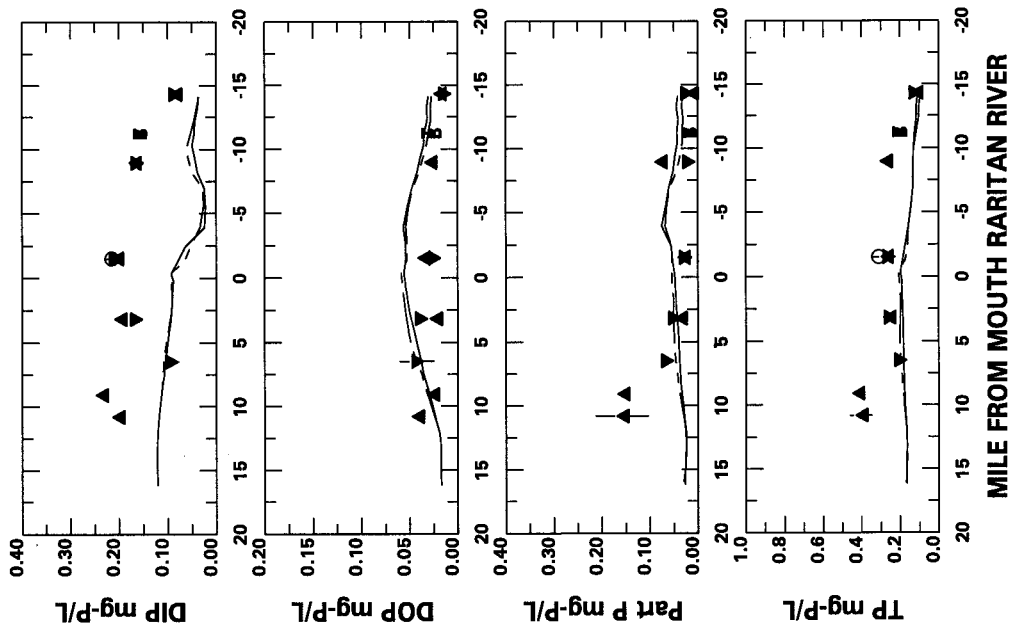
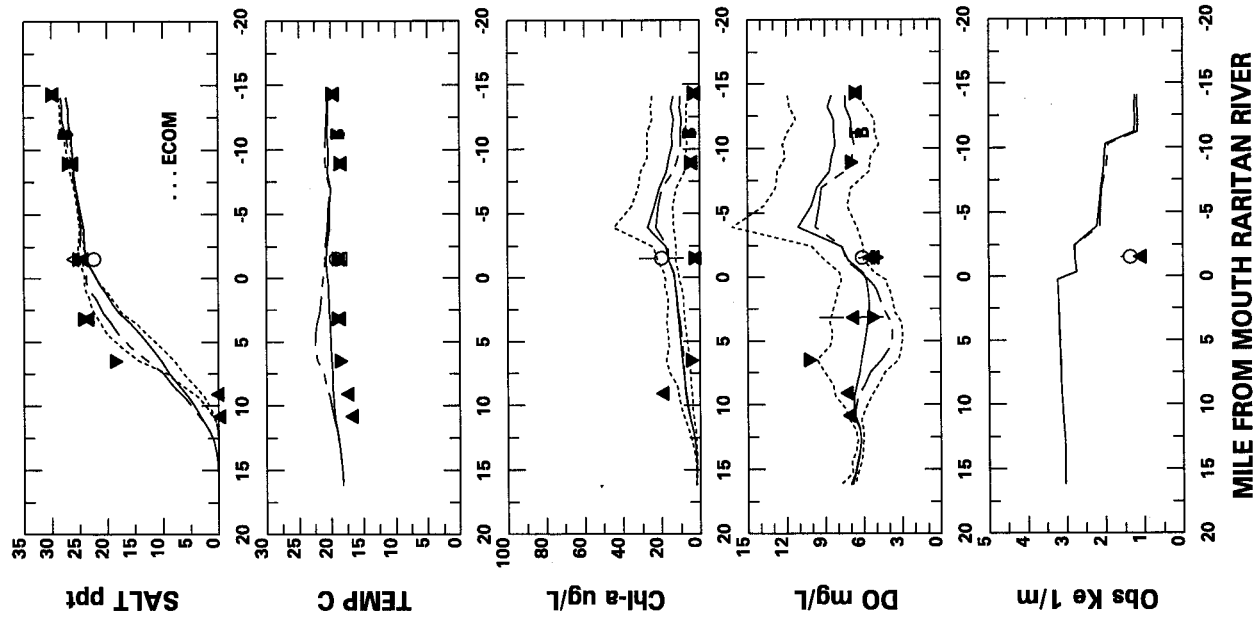


RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



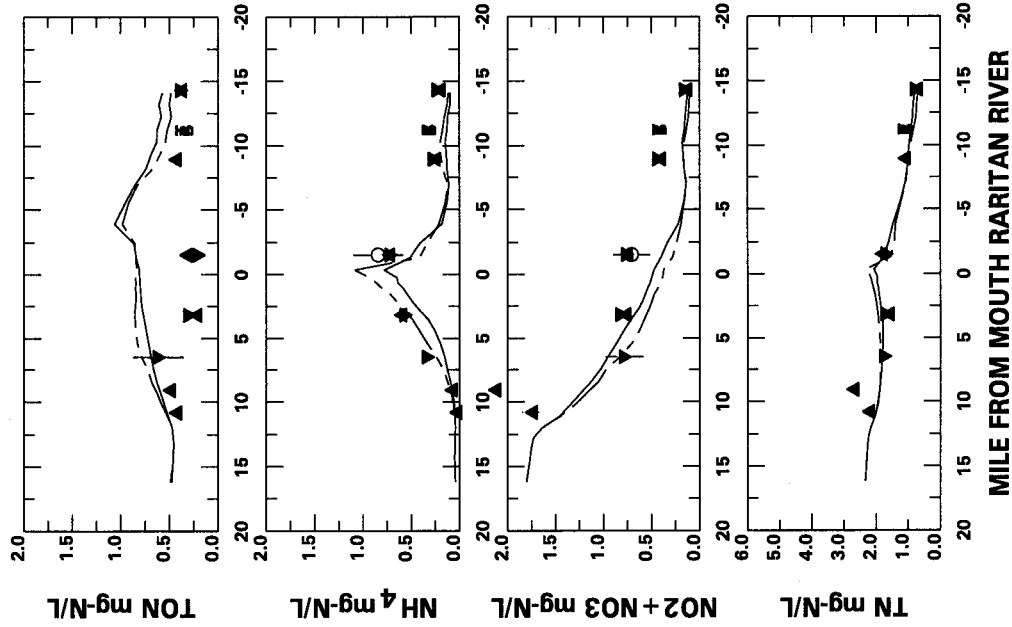
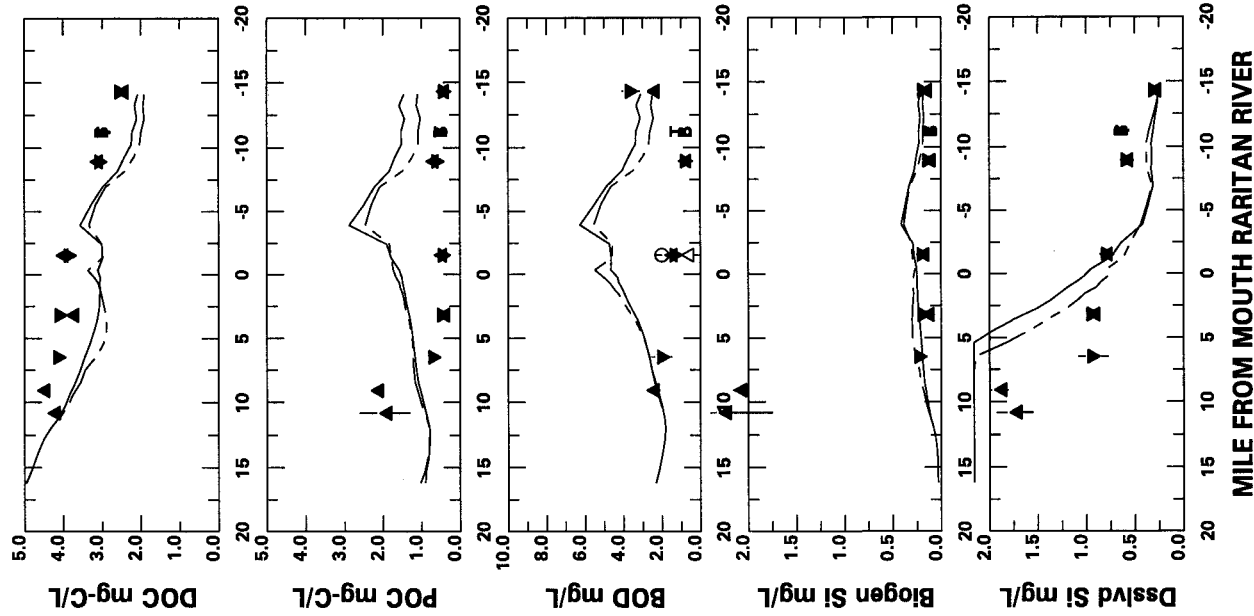
DATA	SURF BOT	MODEL
Battelle Aug 20-29, 1995	▲ Transect	— SURFACE 10-DAY MEAN
	△ Embayment	--- BOTTOM 10-DAY MEAN
NYCDEP 8/95	○ Transect	- - 10-DAY SURFACE MAX OR
	△ Embayment	BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL
Battelle Sep 23-Oct 2, 1995	▲ Transect	— SURFACE 10-DAY MEAN
	T Embayment	--- BOTTOM 10-DAY MEAN
NYCDEP 9/95	○ Transect	- - 10-DAY SURFACE MAX OR BOTTOM MIN
	t Embayment	

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Sep 23-Oct 2, 1995

NYCDEP 9/95

SURF BOT

▲ T
▼ B
○ t
△ t
▽ b

Transect
Embayment
Transect
Embayment

MODEL

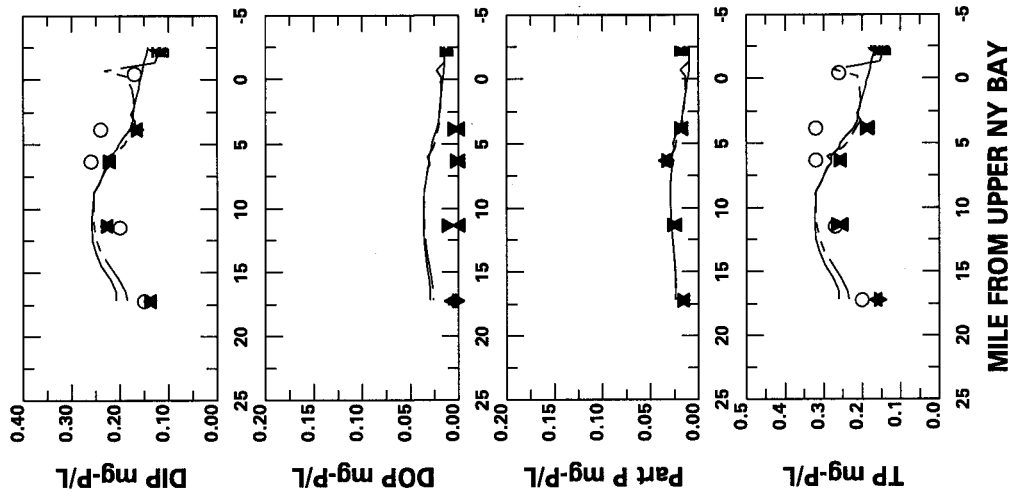
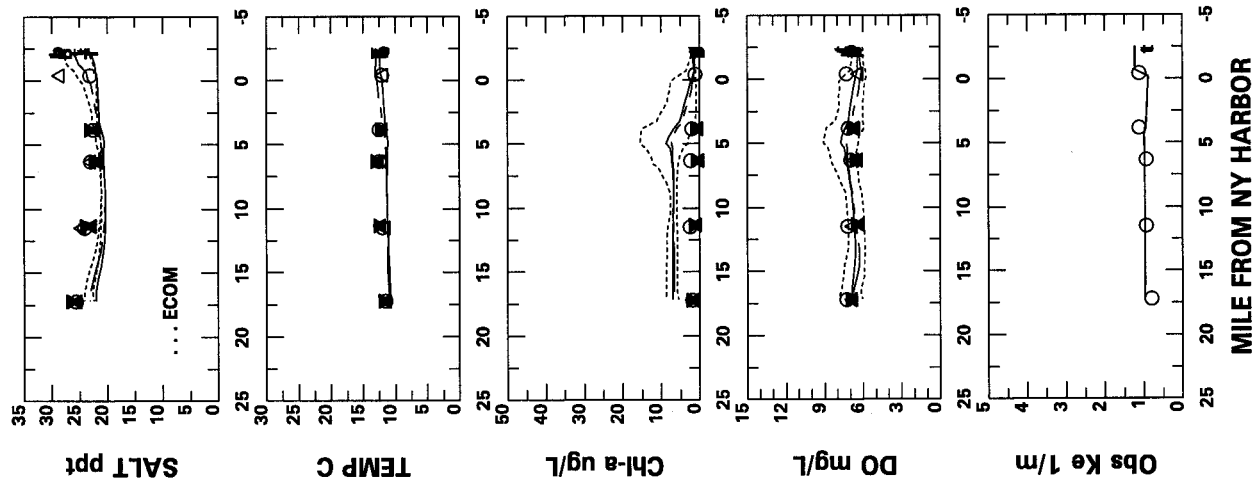
— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

RARITAN RIVER AND SOUTH SHORE RARITAN BAY RUN 9495-BC3 SWEM REVISED CALIBRATION

**SPATIAL DISTRIBUTIONS OF
KILL VAN KULL, ARTHUR KILL**



DATA

Battelle Nov 12-17, 1994

NYCDEP 11/94

SURF BOT

▲ T ▼ B ○ t

Transect Embayment Transect Embayment

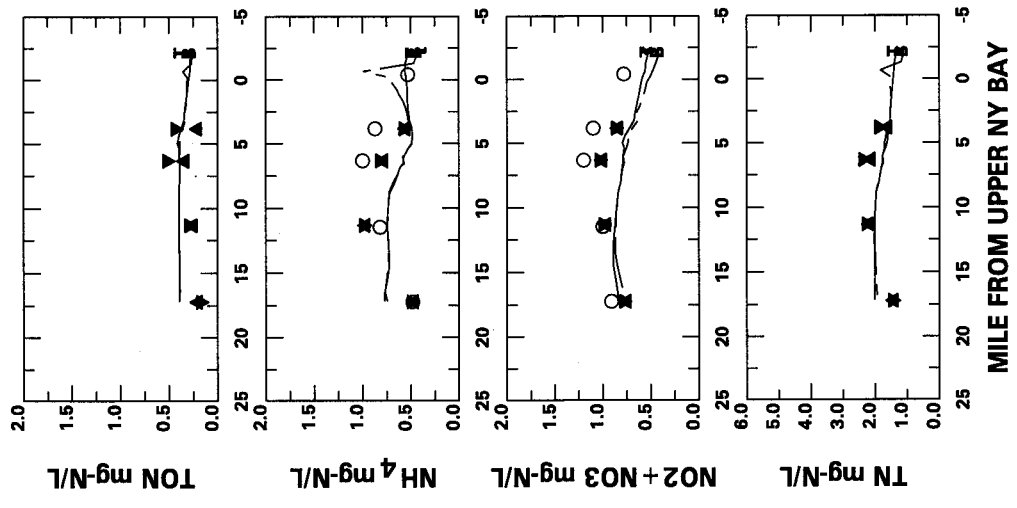
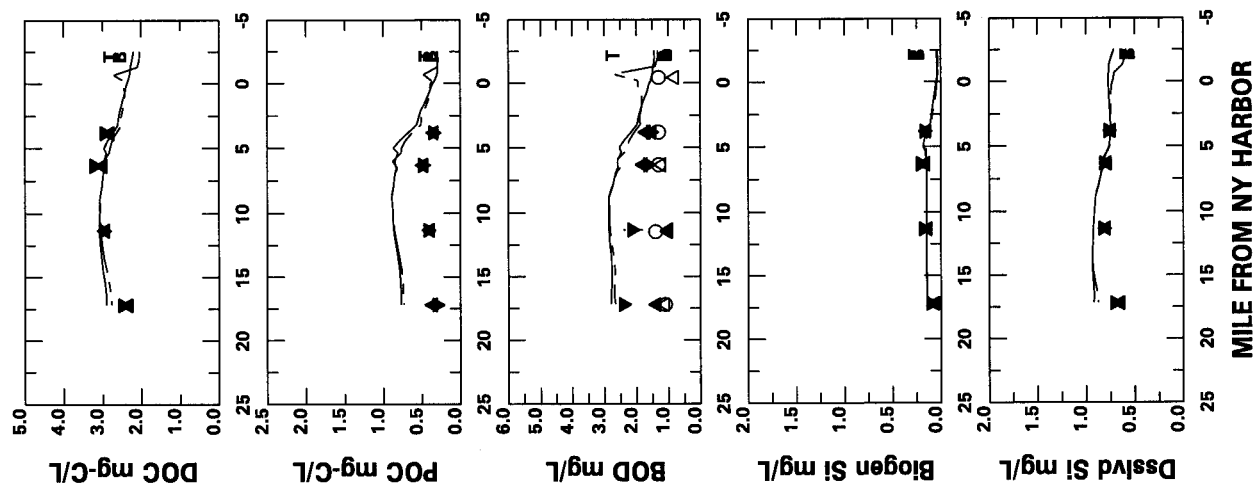
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

ARTHUR KILL AND KILL VAN KULL
 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Nov 12-17, 1994 **SURF BOT**

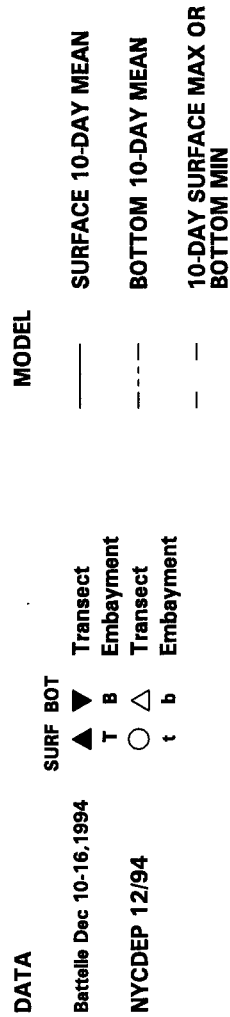
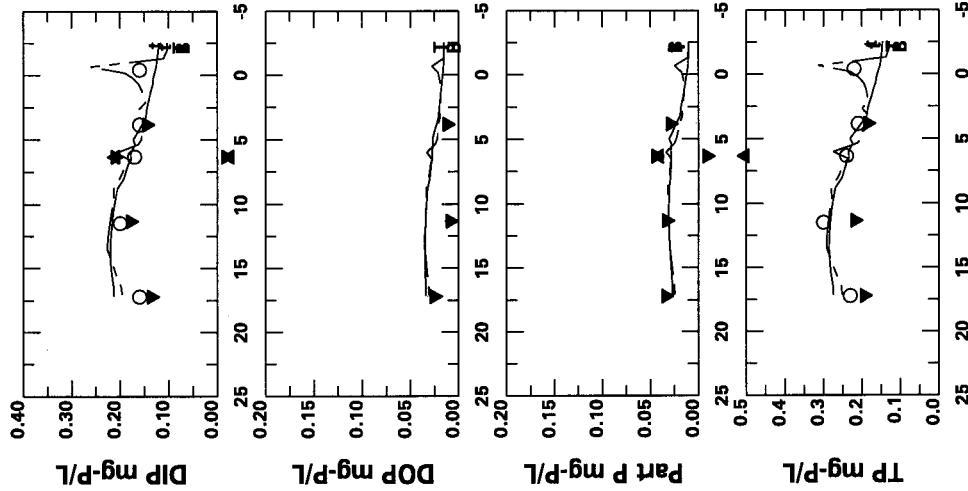
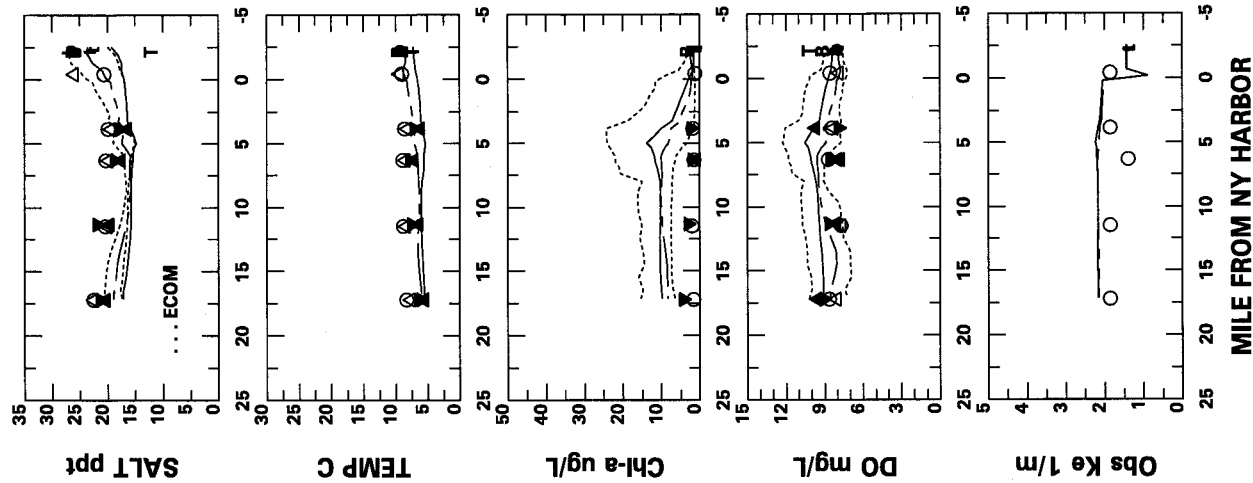
NYCDEP 11/94

▲ Transect
 T B Embayment
 ○ Transect
 t b Embayment

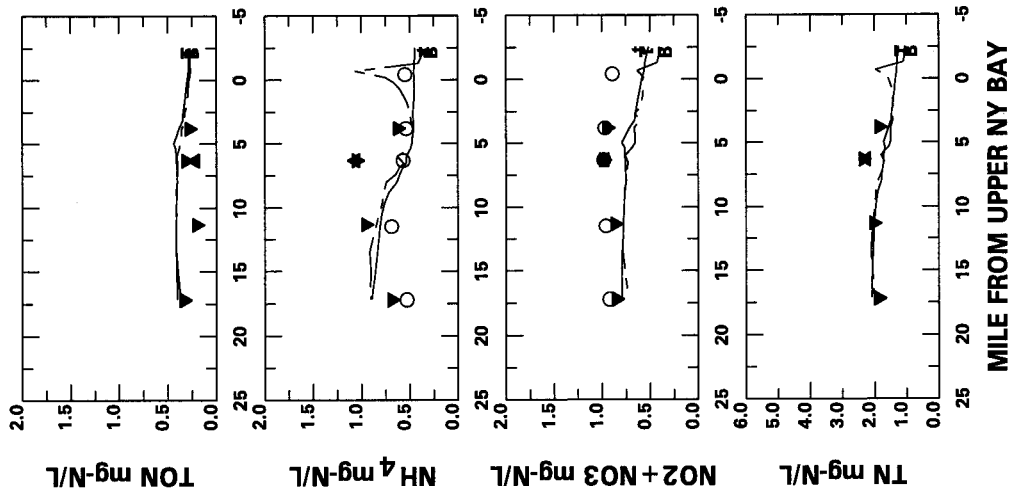
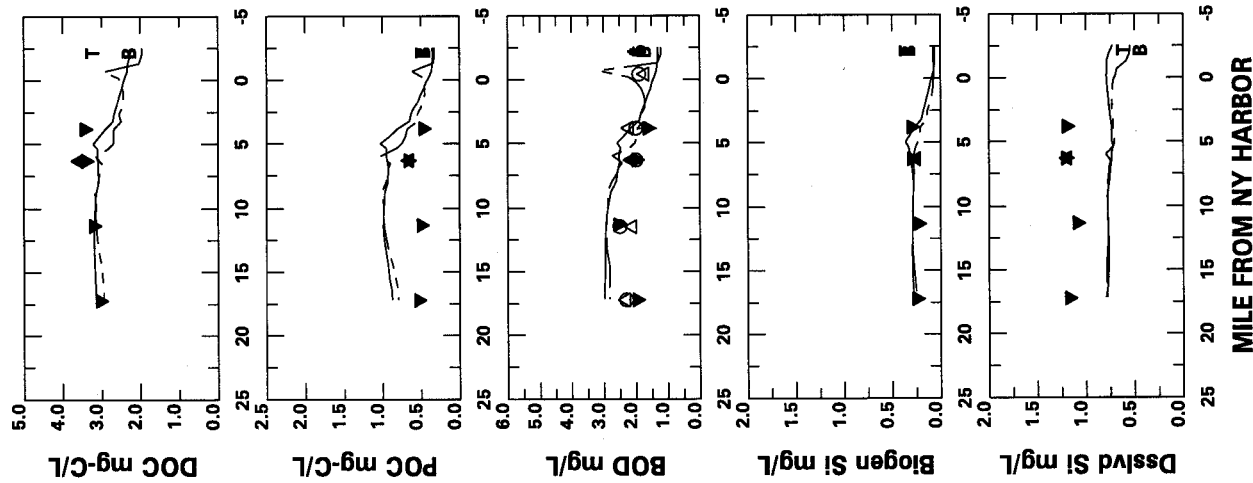
MODEL

— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR BOTTOM MIN

**ARTHUR KILL AND KILL VAN KULL
RUN 9495-BC3: SWEM REVISED CALIBRATION**



ARTHUR KILL AND KILL VAN KULL
 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Dec 10-16, 1994

NYCDEP 12/94

MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

SURF BOT

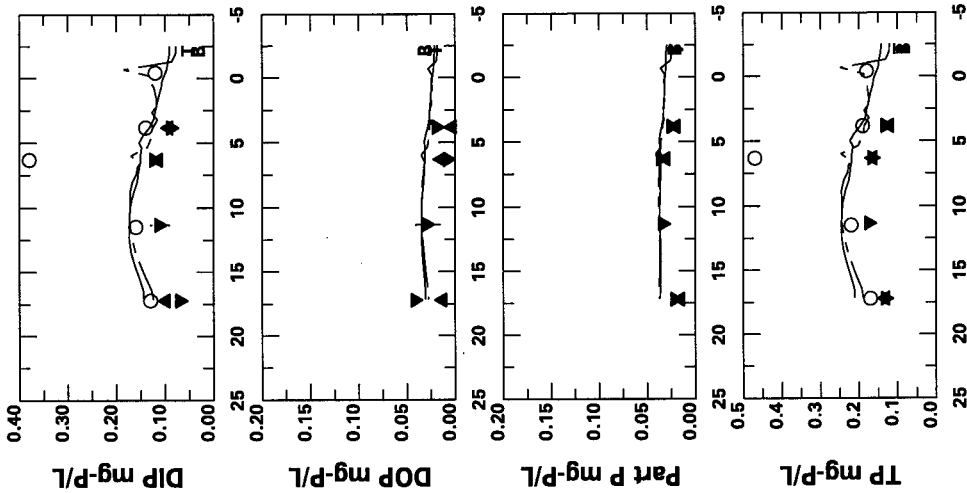
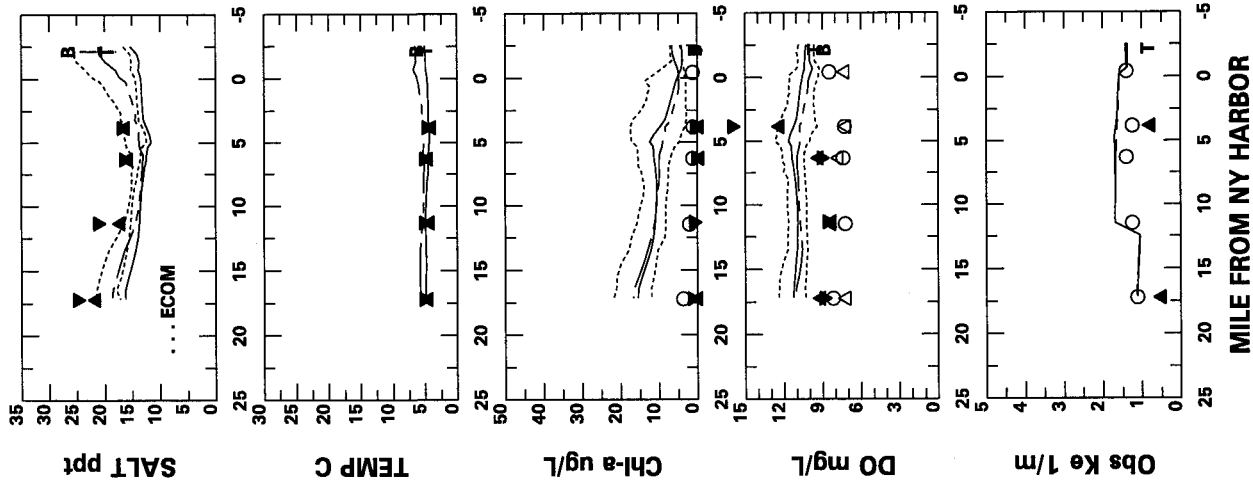
Transect

Embayment

Transect

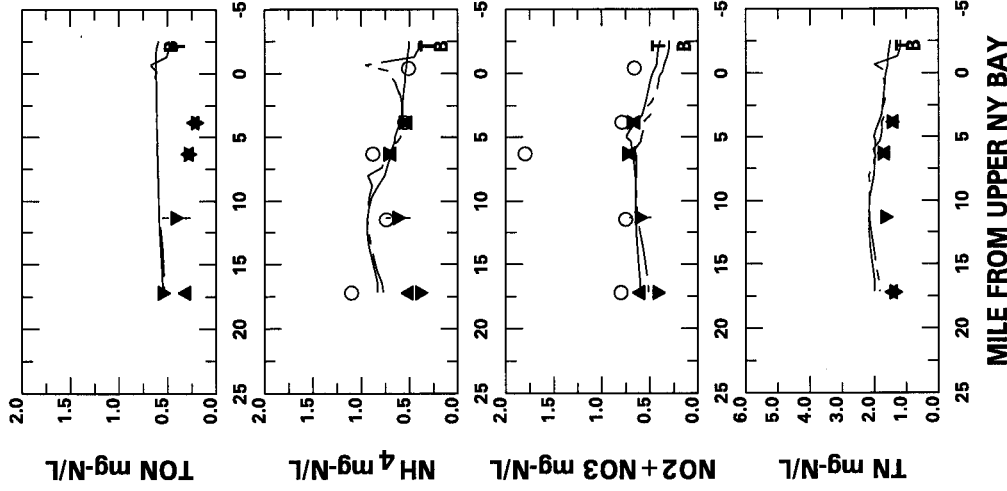
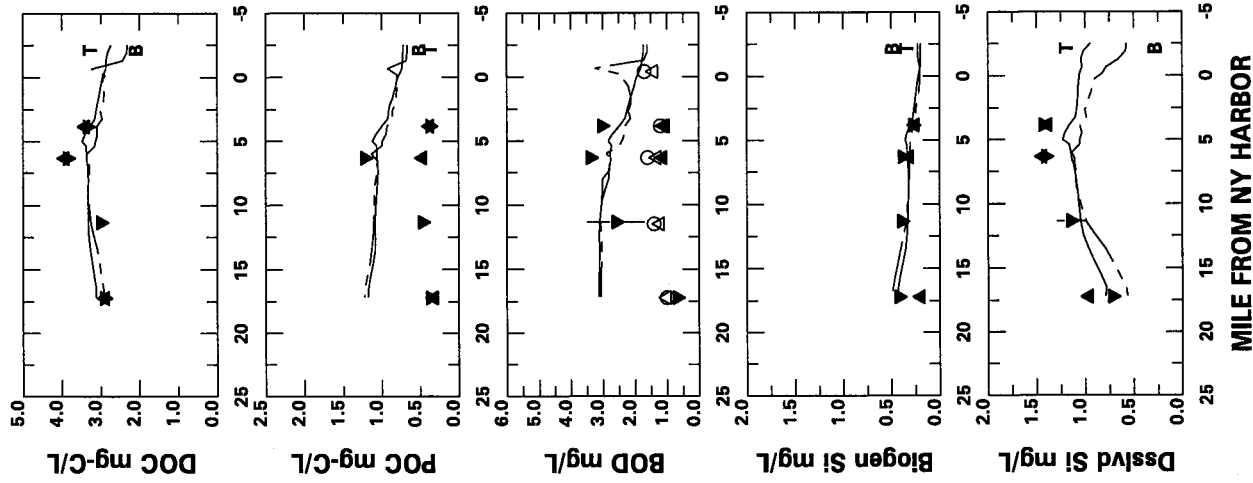
Embayment

ARTHUR KILL AND KILL VAN KULL
 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA	SURF	BOT	MODEL
Battelle Jan 23-31, 1995	Transect	Transect	SURFACE 10-DAY MEAN
	T	B	BOTTOM 10-DAY MEAN
NYCDEP 1/95	Embayment	Embayment	10-DAY SURFACE MAX OR BOTTOM MIN
	t	b	

ARTHUR KILL AND KILL VAN KULL
 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATE: Wed Apr 29 TIME: 14:41:24

ARTHUR KILL AND KILL VAN KULL
 RUN 9495-BC3: SWEM REVISED CALIBRATION

DATA

Battelle Jan 23-31, 1995

NYCDEP 1/95

SURF BOT

Transect

Embayment

Transect

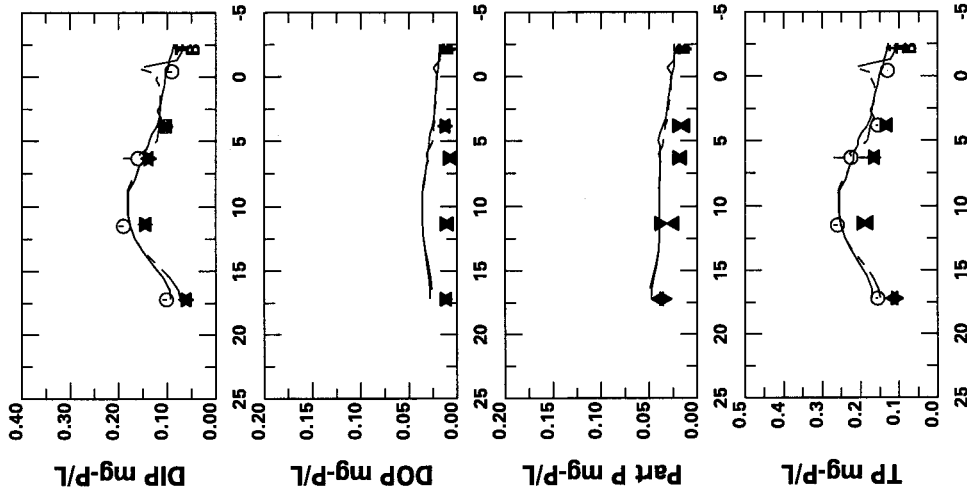
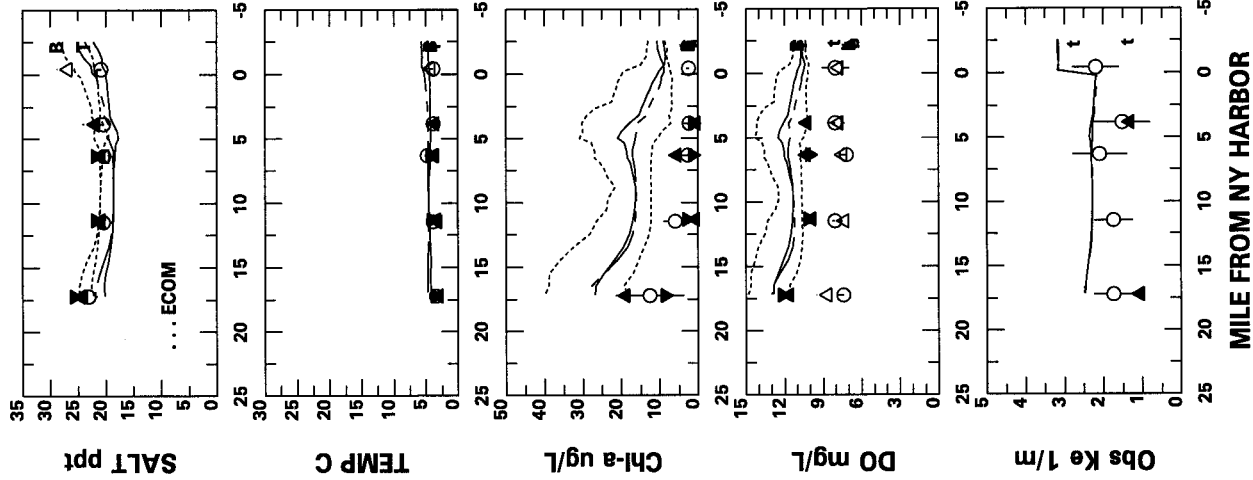
Embayment

MODEL

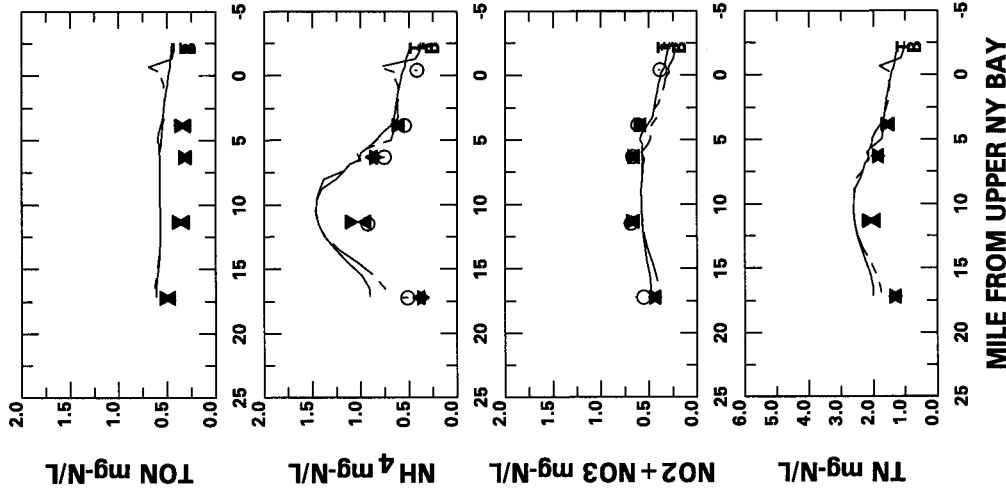
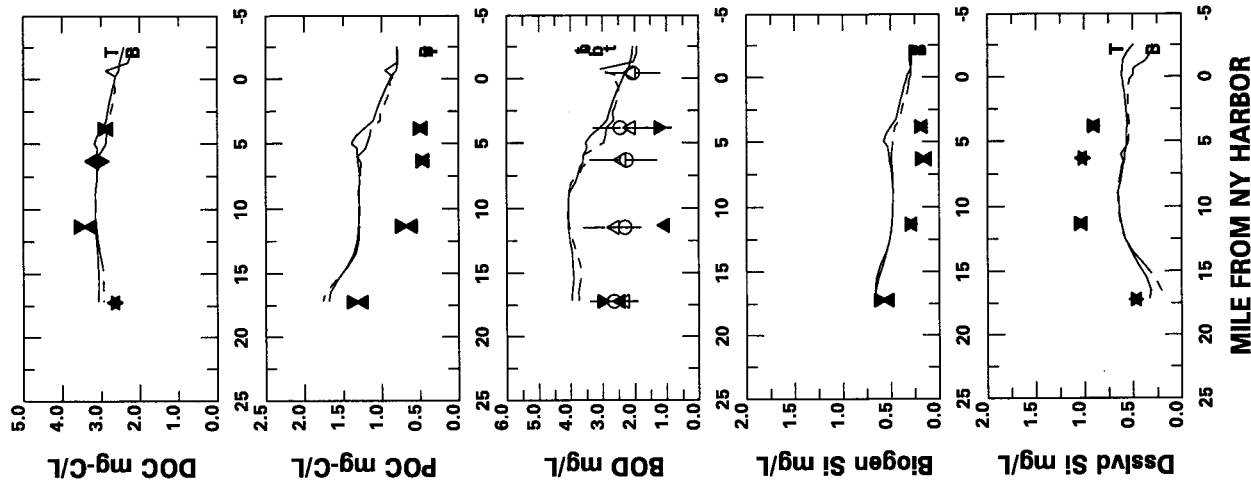
SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

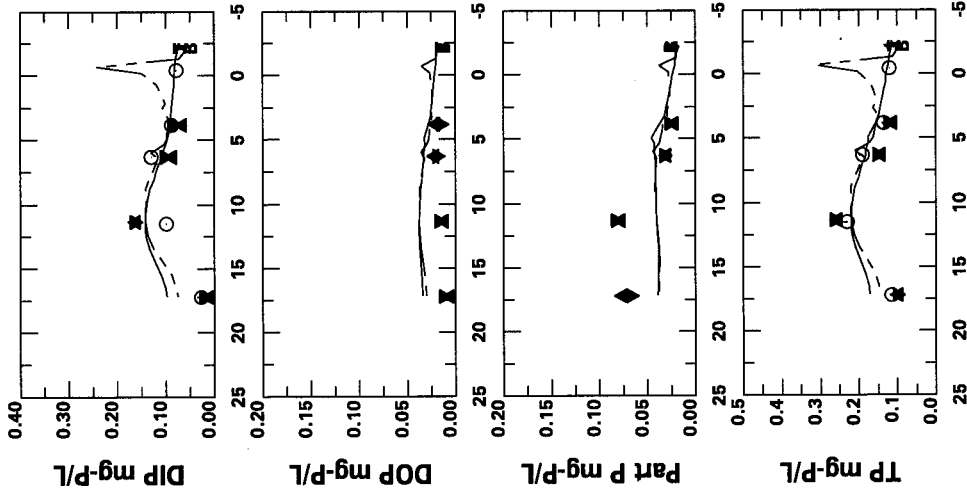
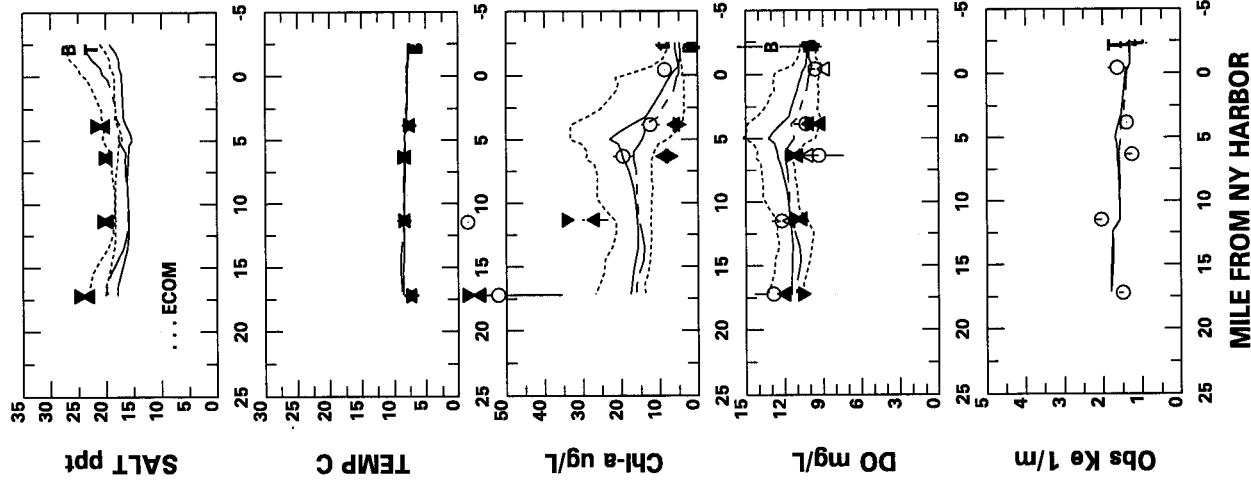


ARTHUR KILL AND KILL VAN KULL RUN 9495-BC3: SWEM REVISED CALIBRATION



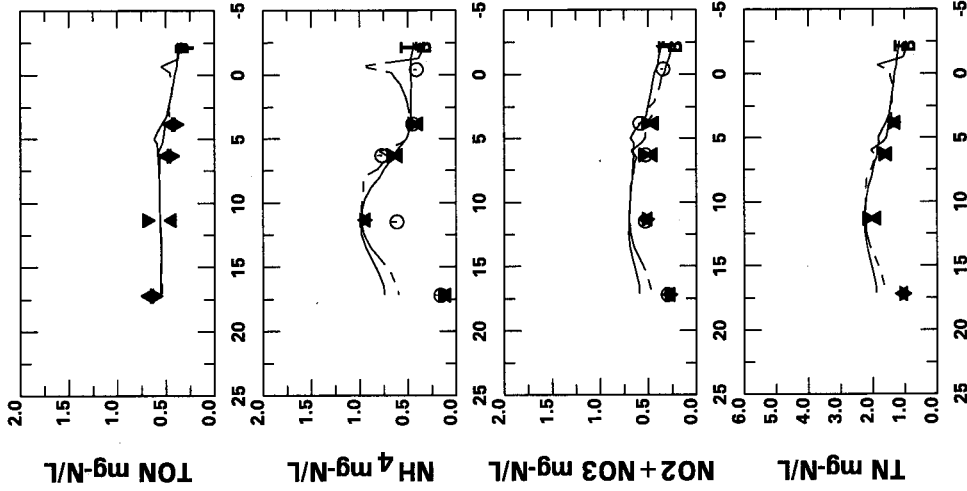
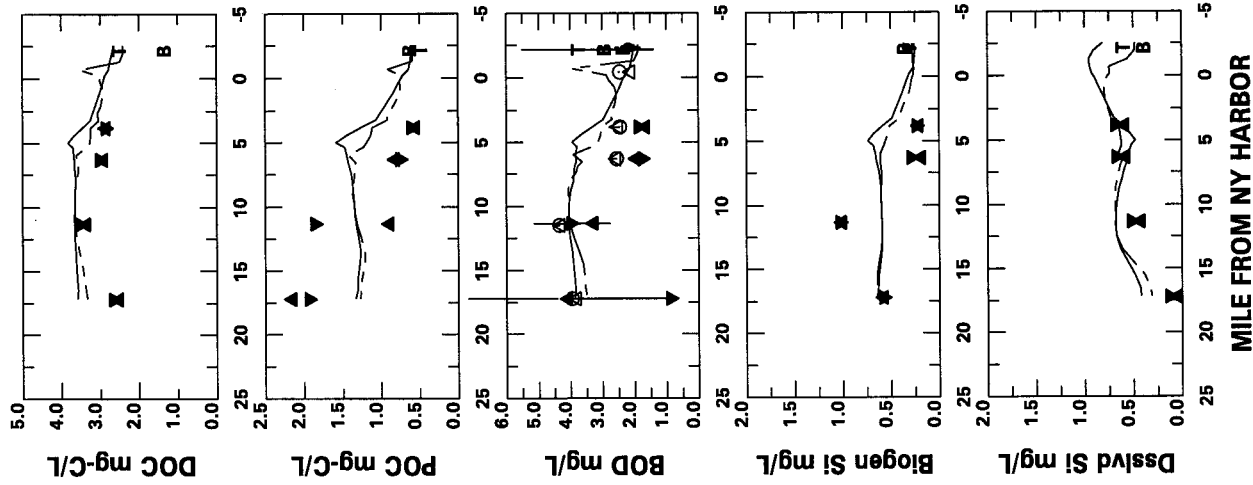
DATA	SURF	BOT	MODEL	
Battelle Feb 22-Mar 1, 1995	▲	▼	—	SURFACE 10-DAY MEAN
	T	B	---	BOTTOM 10-DAY MEAN
NYCDEP 2/95	○	△	- - -	10-DAY SURFACE MAX OR BOTTOM MIN
	t	b	- - -	

**ARTHUR KILL AND KILL VAN KULL
RUN 9495-BC3: SWEM REVISED CALIBRATION**



DATA	SURF BOT	MODEL
Battelle Mar 28-Apr 8, 1995	▲ Transect	— SURFACE 10-DAY MEAN
	T Embayment	--- BOTTOM 10-DAY MEAN
NYCDEP 4/95	○ Transect	- - - 10-DAY SURFACE MAX OR BOTTOM MIN
	t Embayment	

ARTHUR KILL AND KILL VAN KULL
 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8,
1995

NYCDEP 4/95

SURF BOT

Transect
T B
Embayment
t b

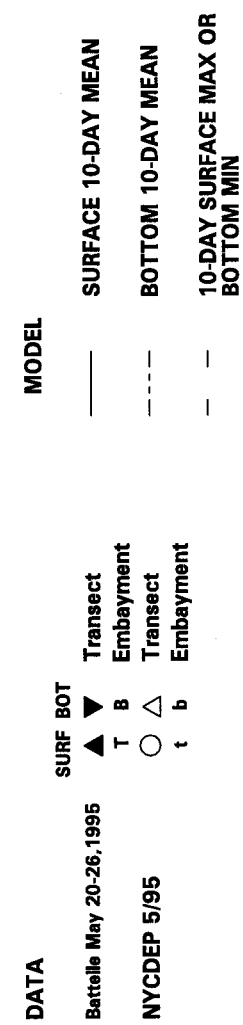
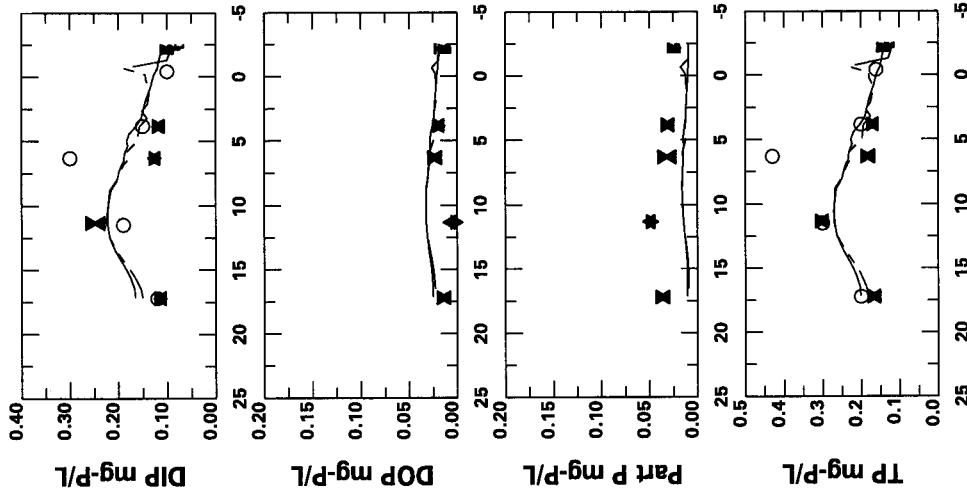
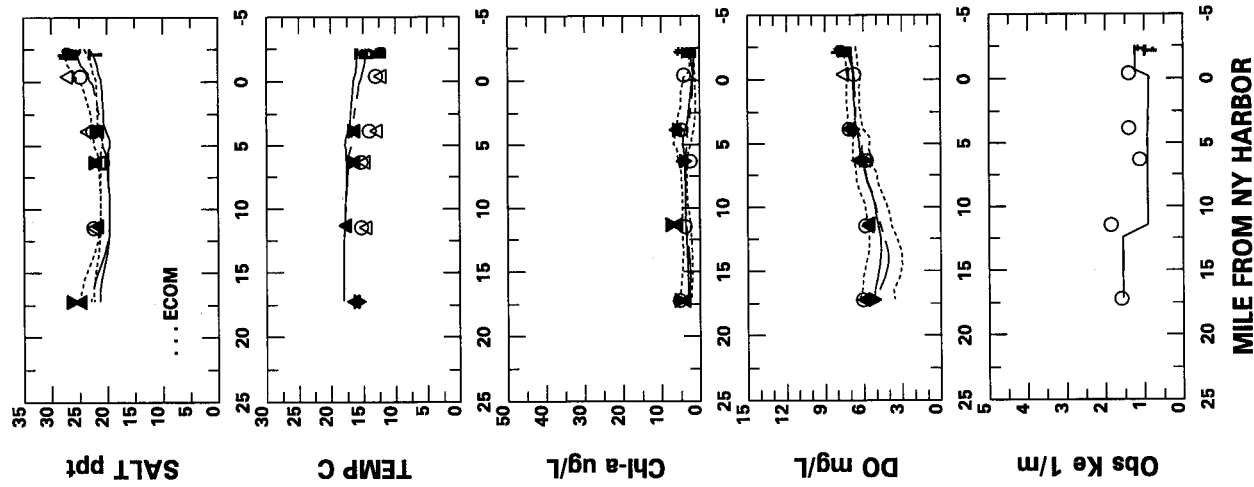
MODEL

— SURFACE 10-DAY MEAN

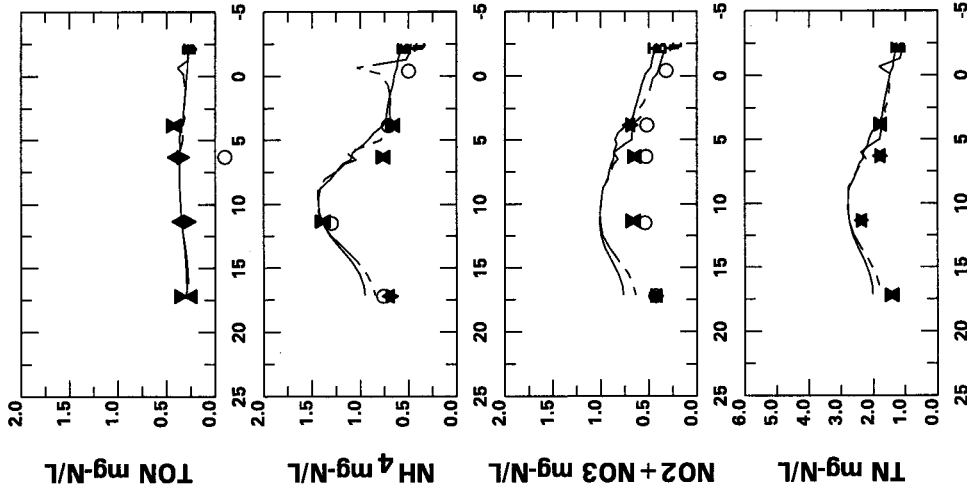
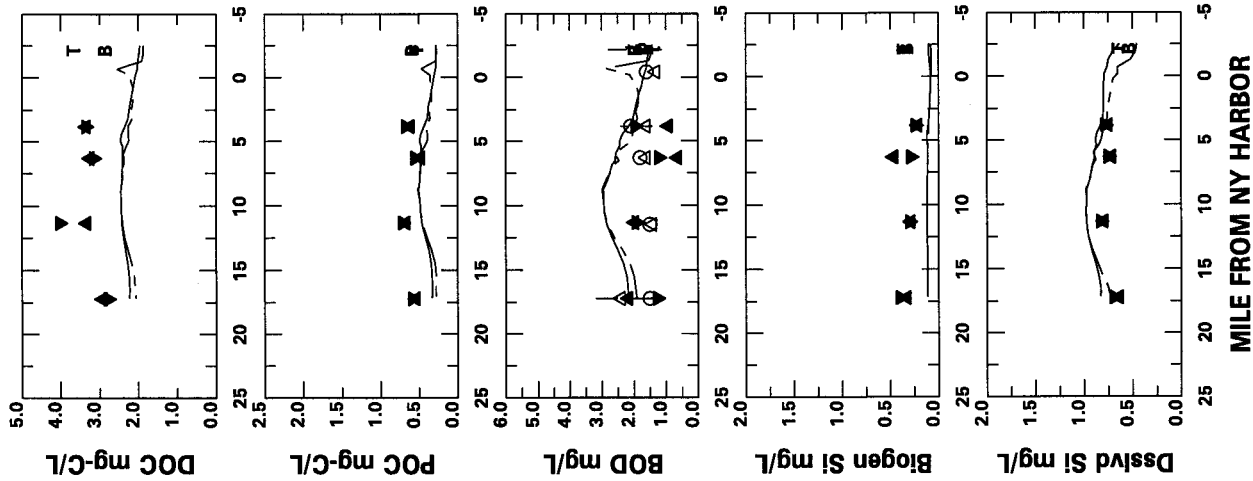
- - - BOTTOM 10-DAY MEAN

- 10-DAY SURFACE MAX OR
BOTTOM MIN

ARTHUR KILL AND KILL VAN KULL RUN 9495-BC3: SWEM REVISED CALIBRATION



ARTHUR KILL AND KILL VAN KULL
 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

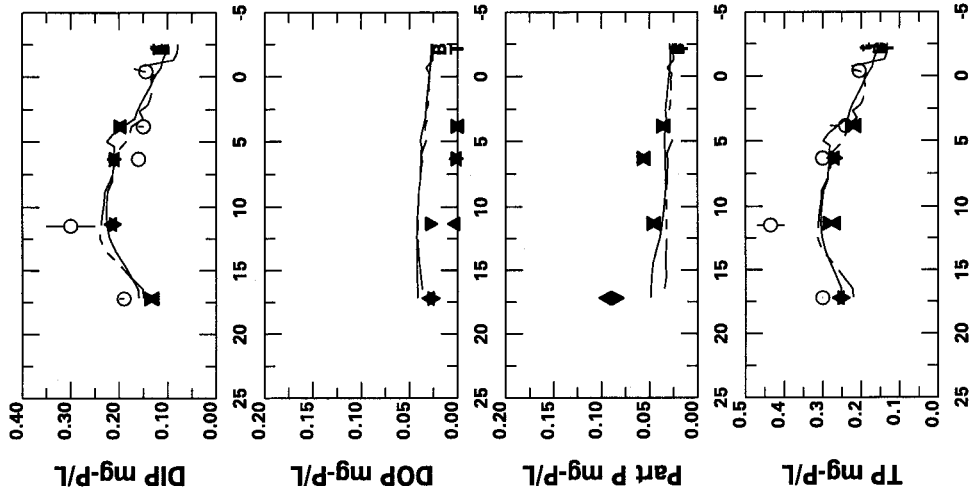
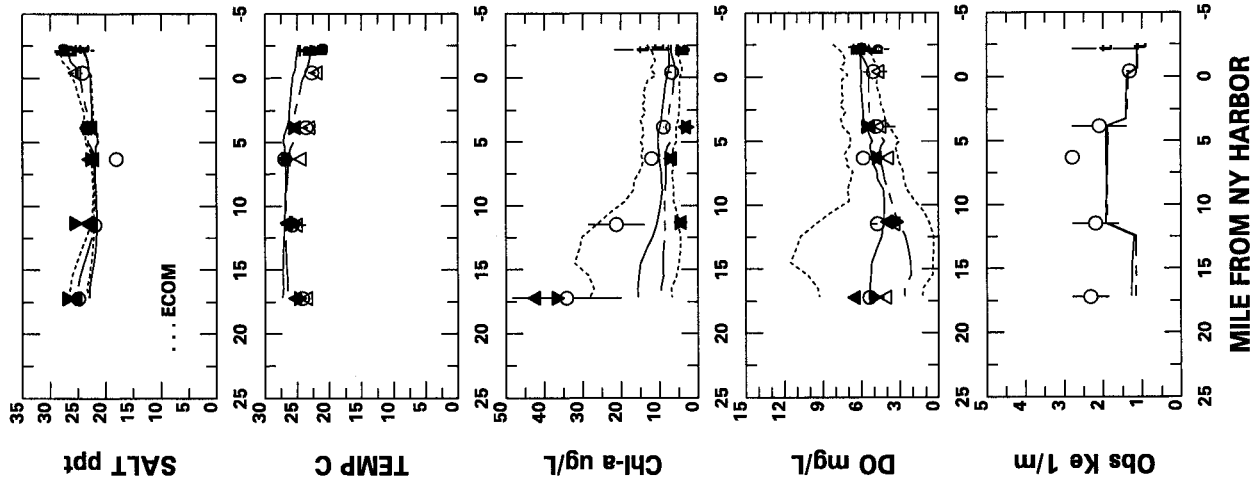
Battelle May 20-26, 1995

NYCDEP 5/95

MODEL

SURFACE 10-DAY MEAN
 BOTTOM 10-DAY MEAN
 10-DAY SURFACE MAX OR
 BOTTOM MIN

ARTHUR KILL AND KILL VAN KULL RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2, 1995

NYCDEP 7/95

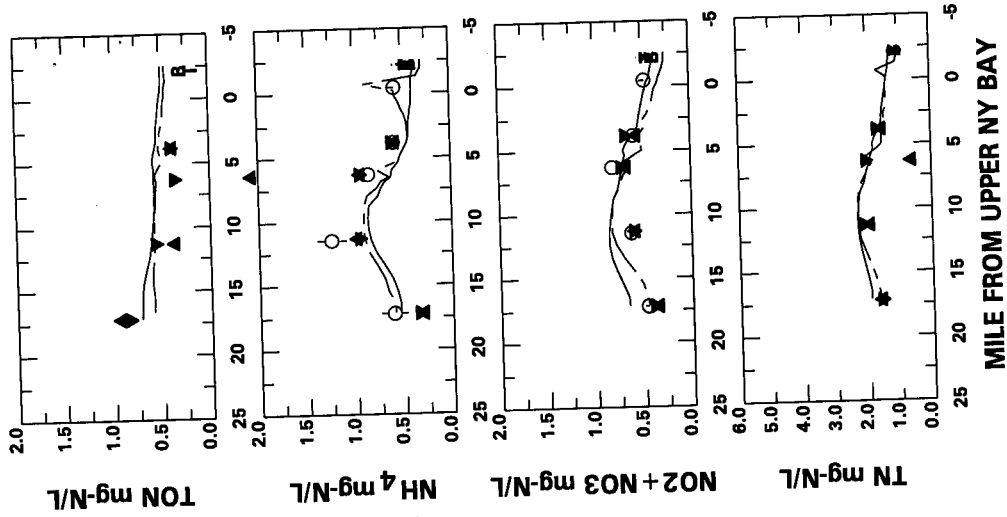
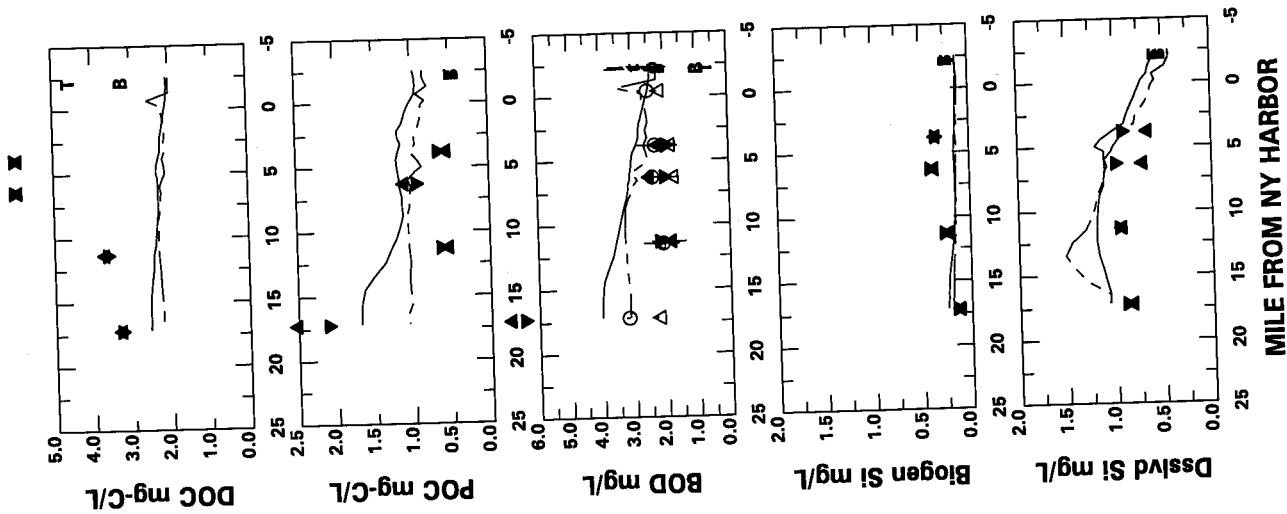
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

ARTHUR KILL AND KILL VAN KULL
 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2, 1995

NYCDEP 7/95

MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

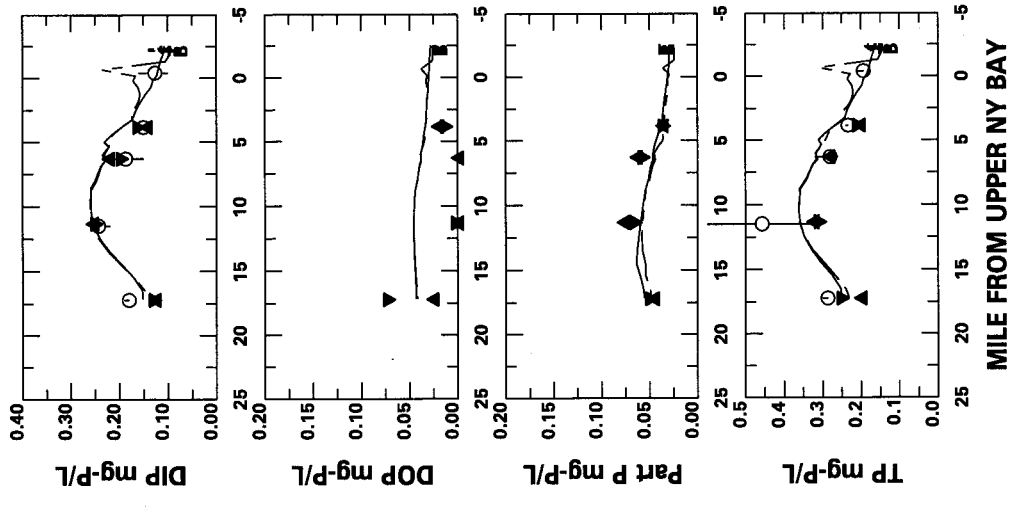
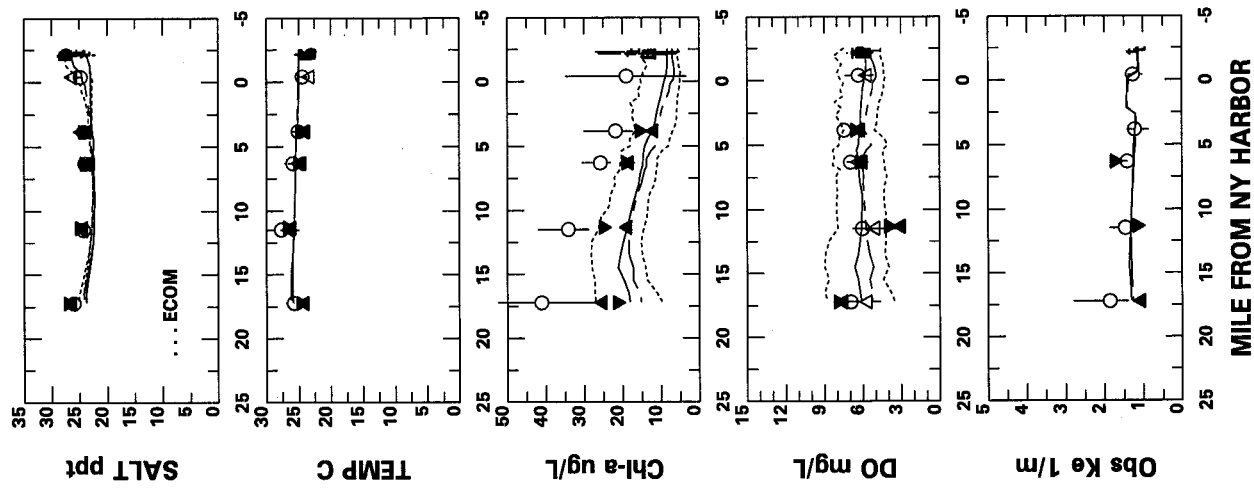
SURF BOT

T B

Transect Embayment

t b

ARTHUR KILL AND KILL VAN KULL RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Aug 20-29, 1995 NYCDEP 8/95

MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

SURF BOT

▲ ▼ Transect

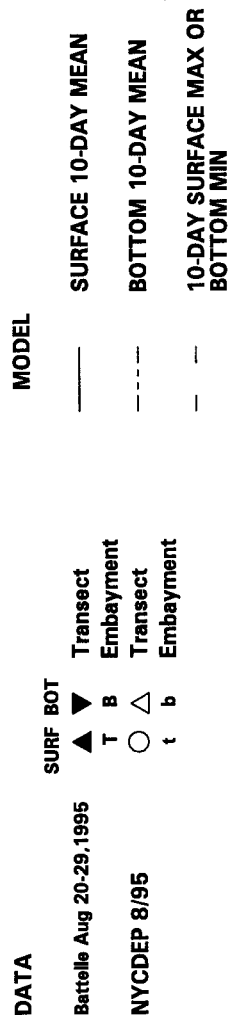
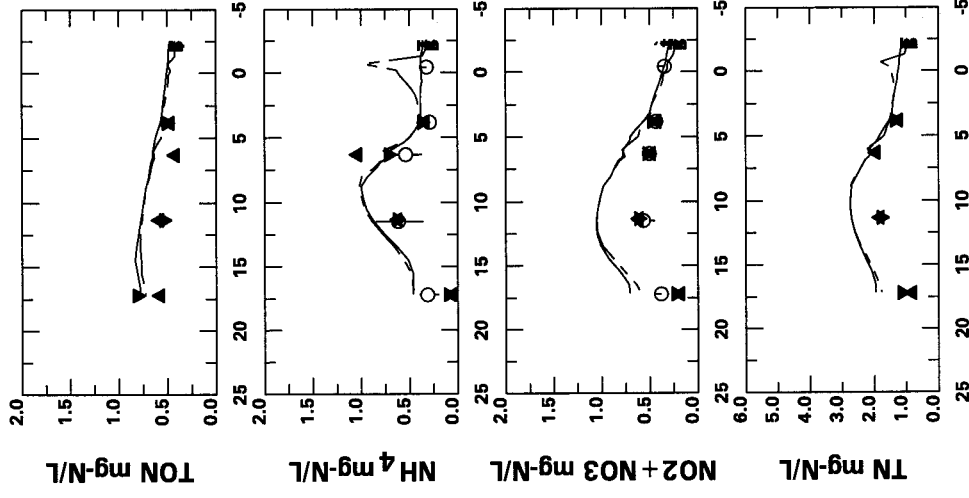
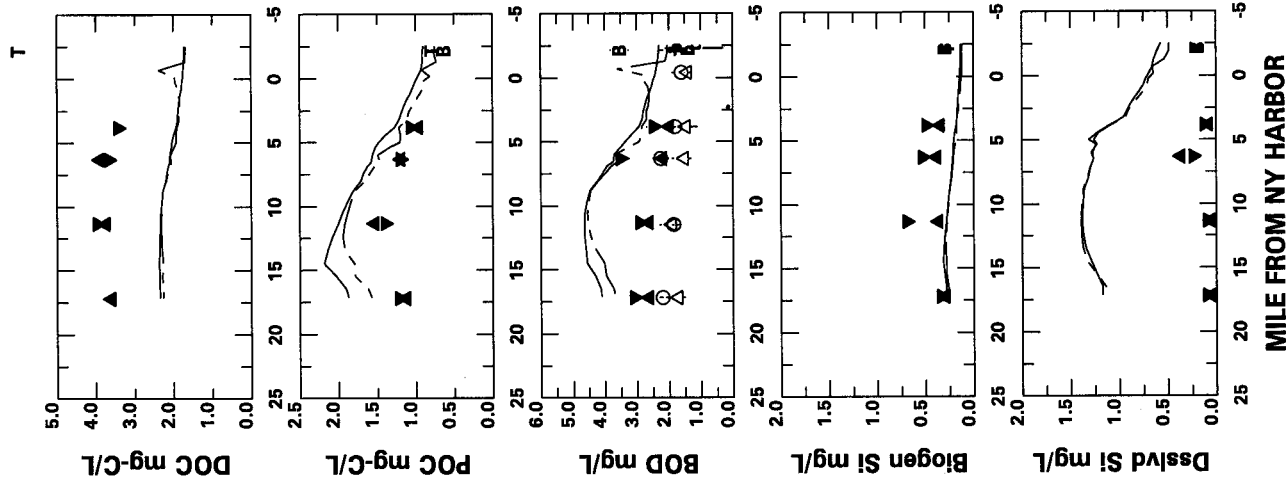
T B Embayment

○ △ Transect

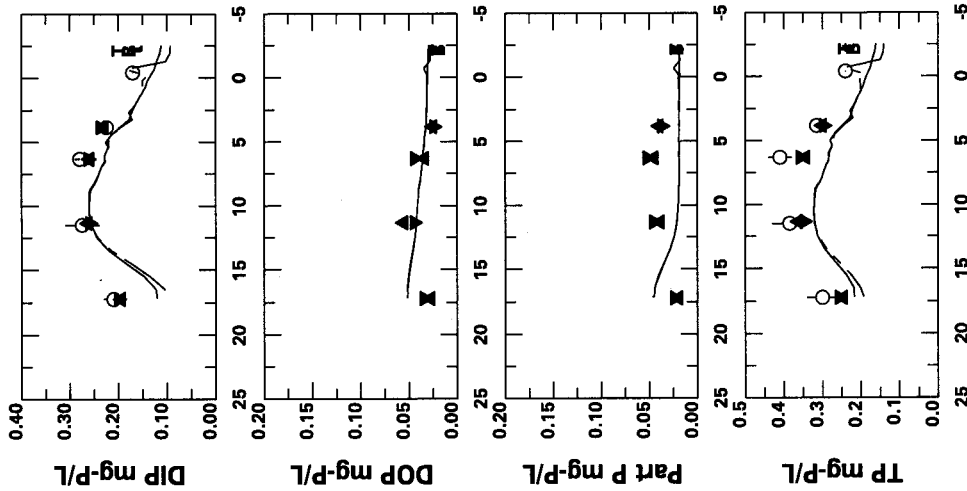
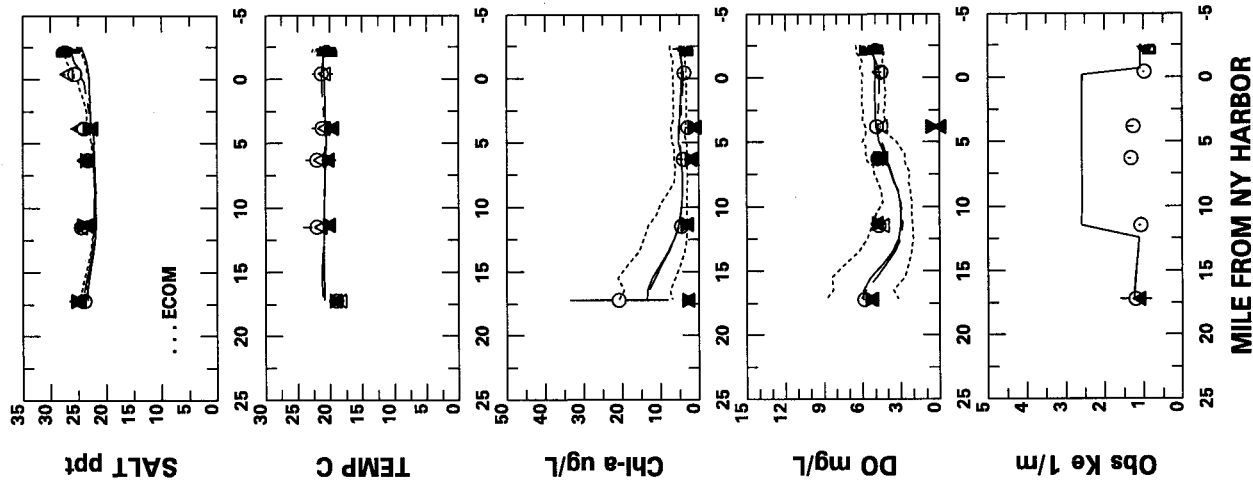
t b Embayment

ARTHUR KILL AND KILL VAN KULL

RUN 9495-BC3: SWEM REVISED CALIBRATION



ARTHUR KILL AND KILL VAN KULL RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Sep 23-Oct 2, 1995

NYCDEP 9/95

SURF BOT

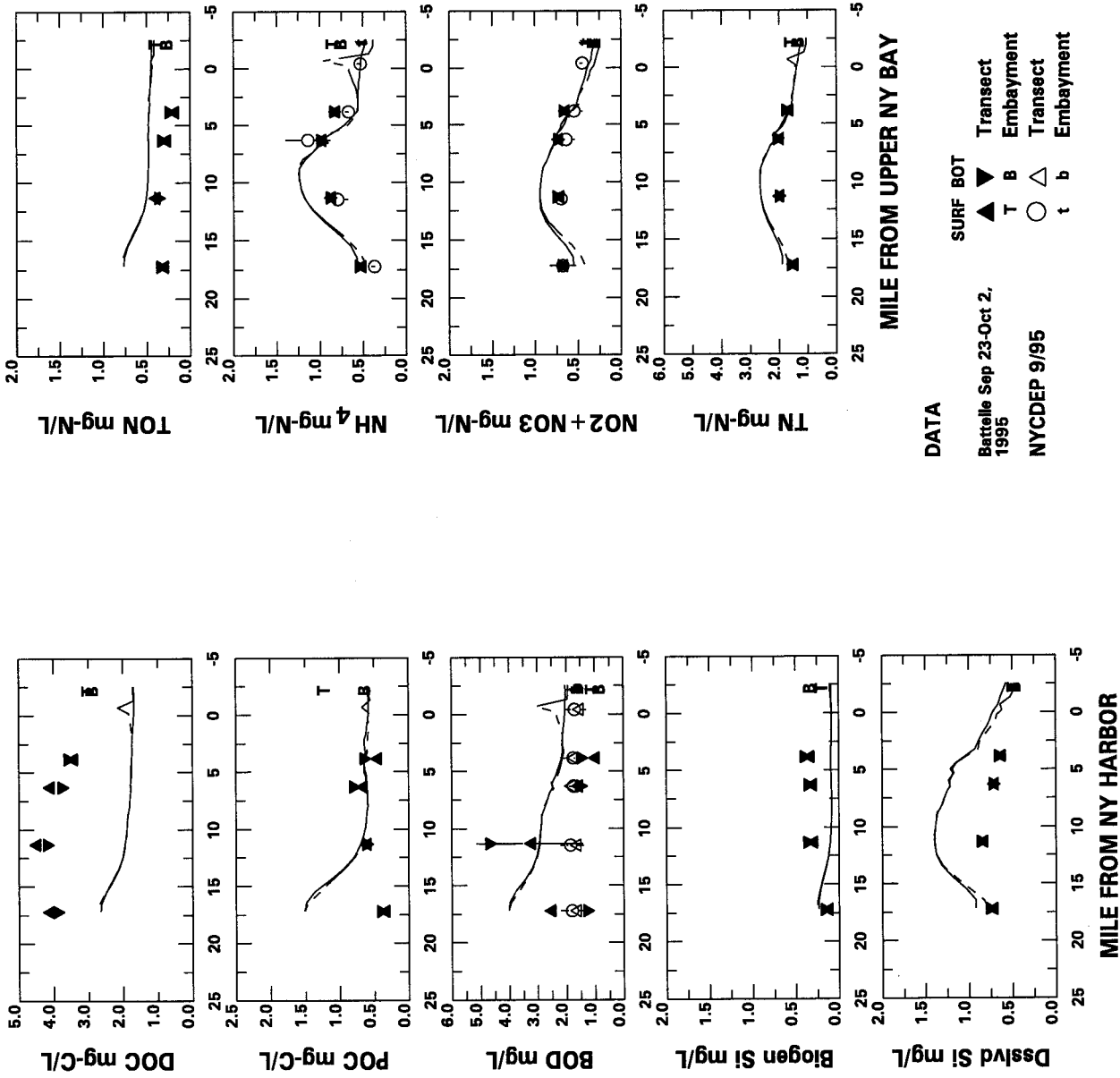
▲ Transect
 T Embayment
 ○ Transect
 t Embayment

MODEL

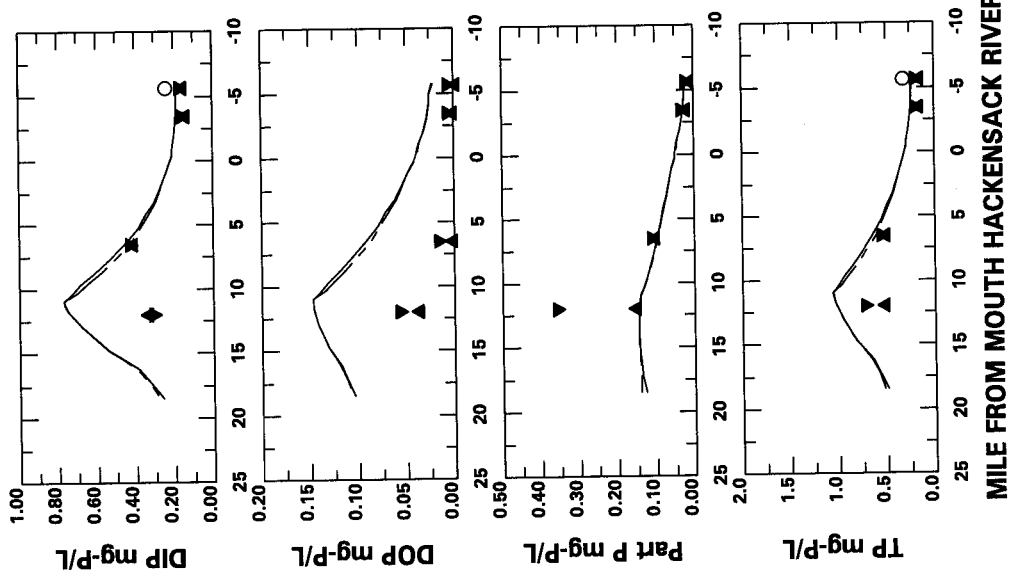
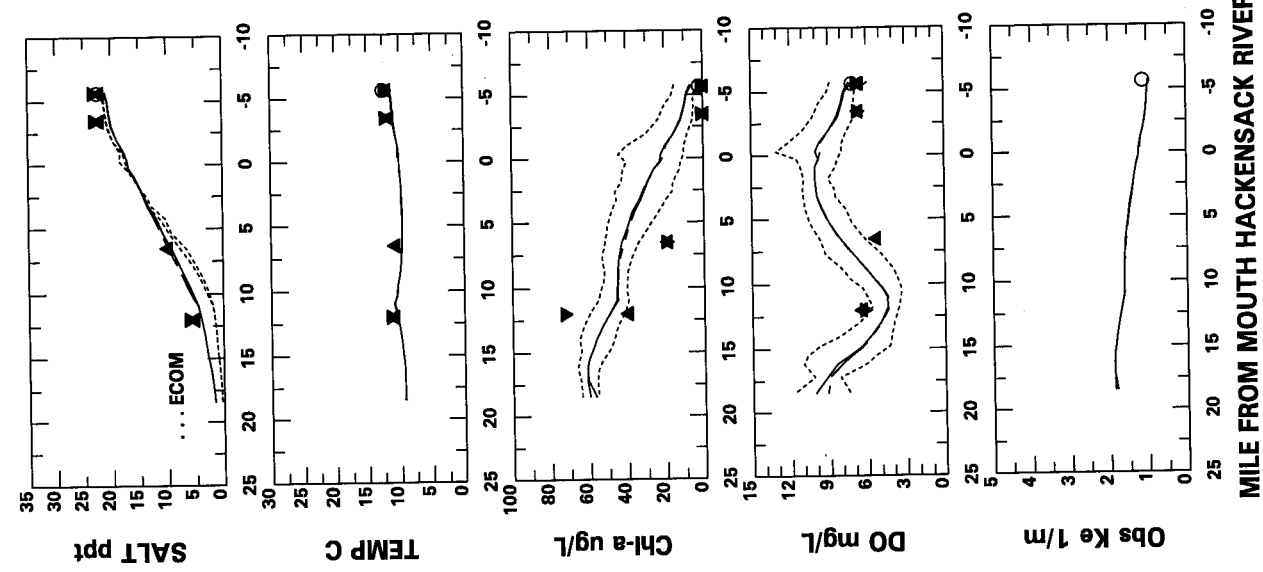
— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR BOTTOM MIN

ARTHUR KILL AND KILL VAN KULL RUN 9495-BC3: SWEM REVISED CALIBRATION

ARTHUR KILL AND KILL VAN KULL
RUN 9495-BC3: SWEM REVISED CALIBRATION

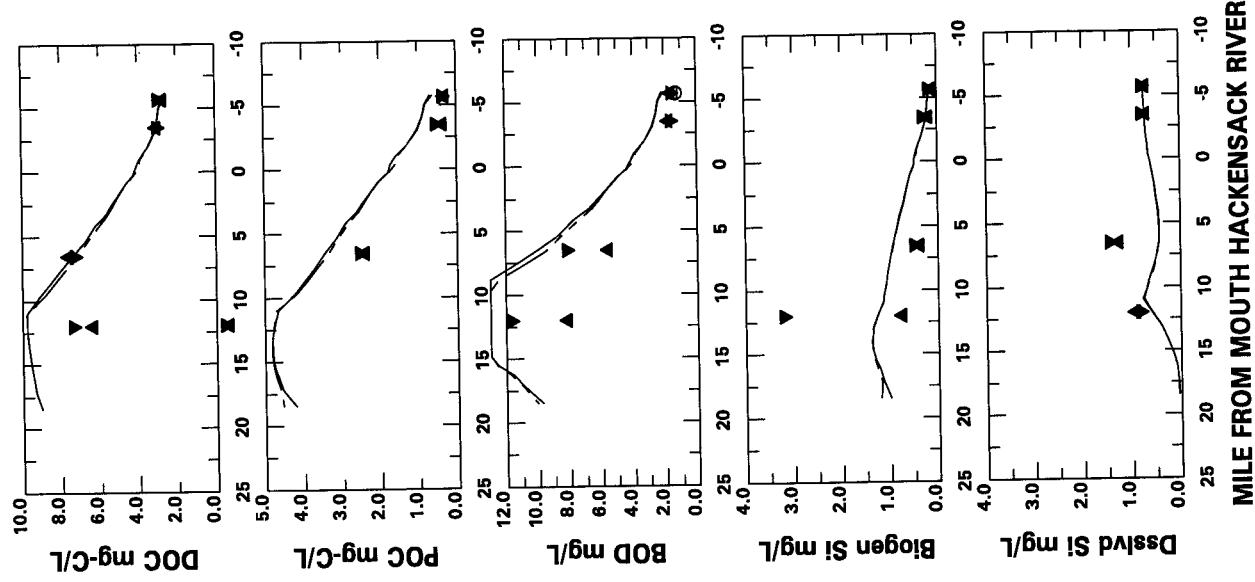
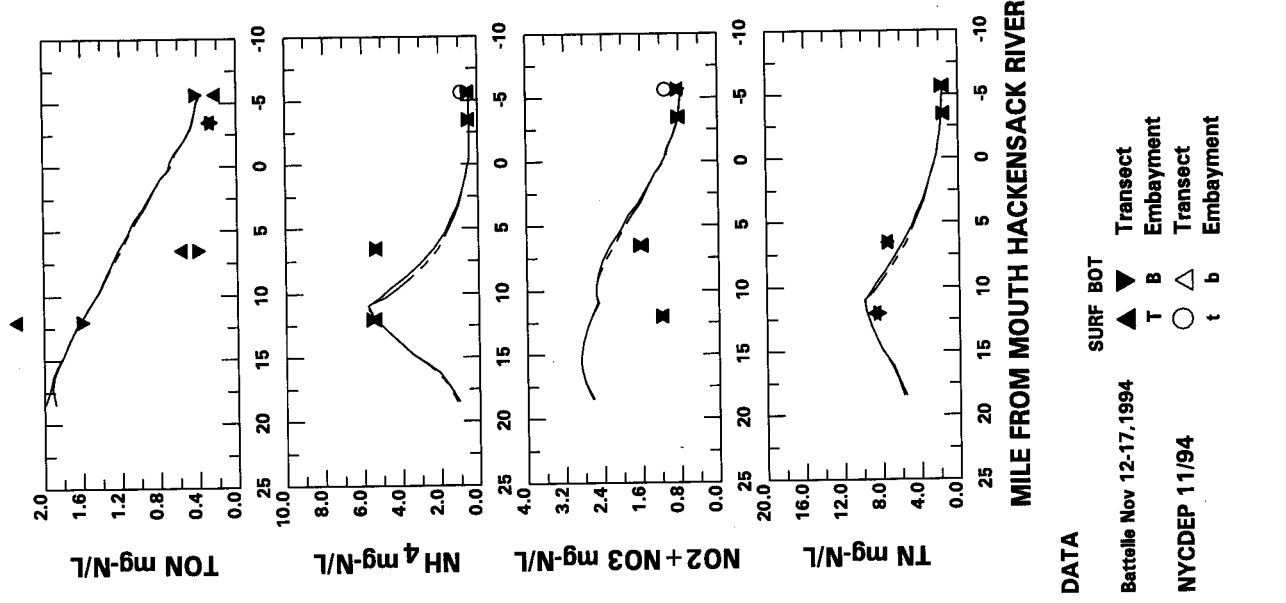


SPATIAL DISTRIBUTIONS OF HACKENSACK RIVER, NEWARK BAY

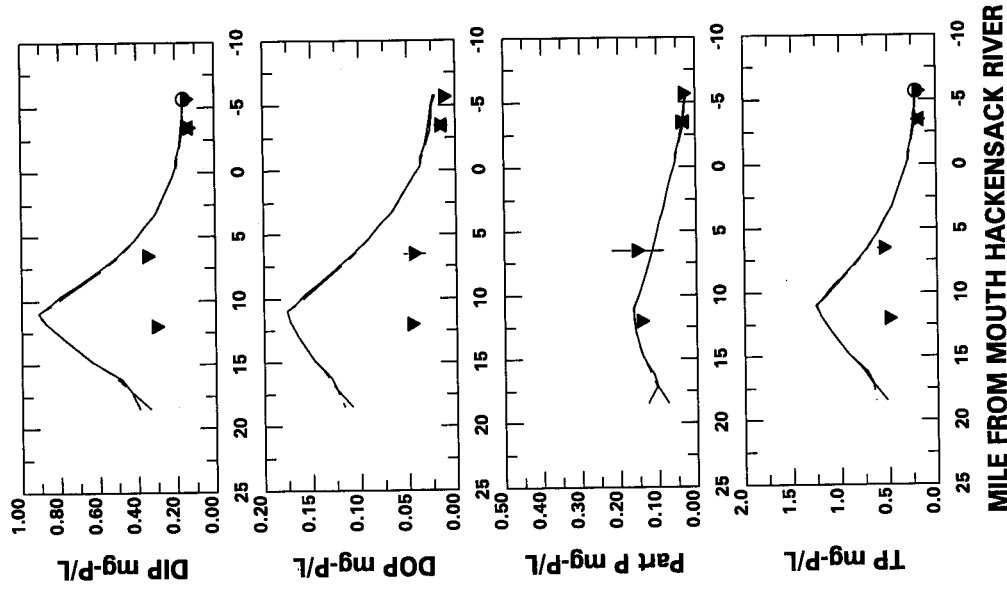
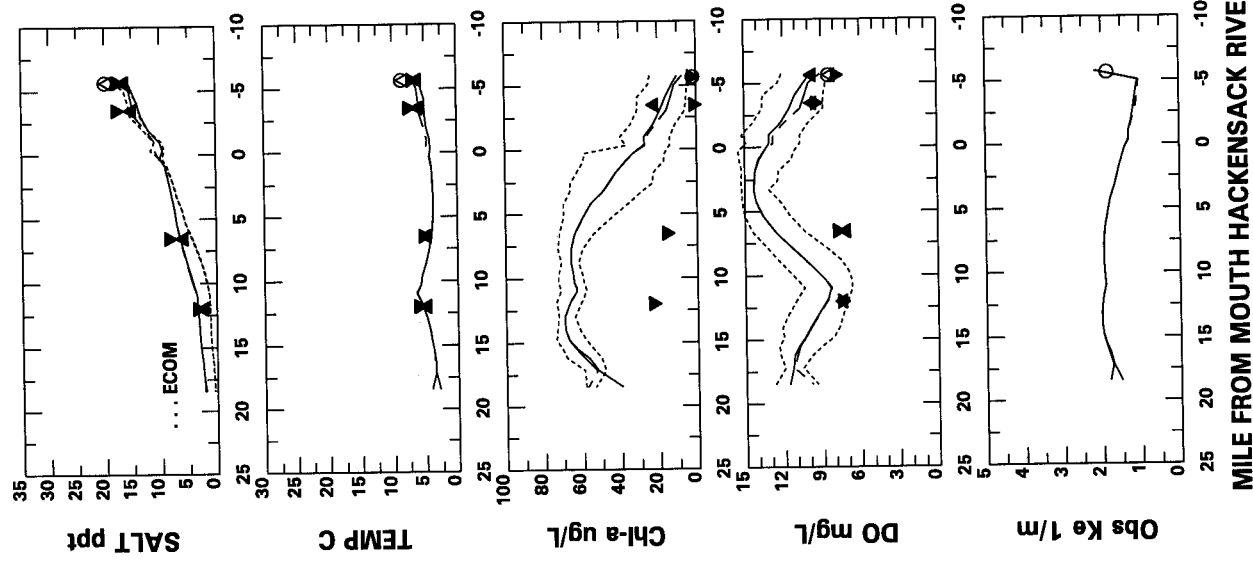


DATA		MODEL	
Battelle Nov 12-17, 1994	Transect	—	SURFACE 10-DAY MEAN
	Embayment	---	BOTTOM 10-DAY MEAN
NYCDEP 11/94	Transect	---	10-DAY SURFACE MAX OR
	Embayment	---	BOTTOM MIN

HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION



HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Dec 10-16, 1994
NYCDEP 12/94

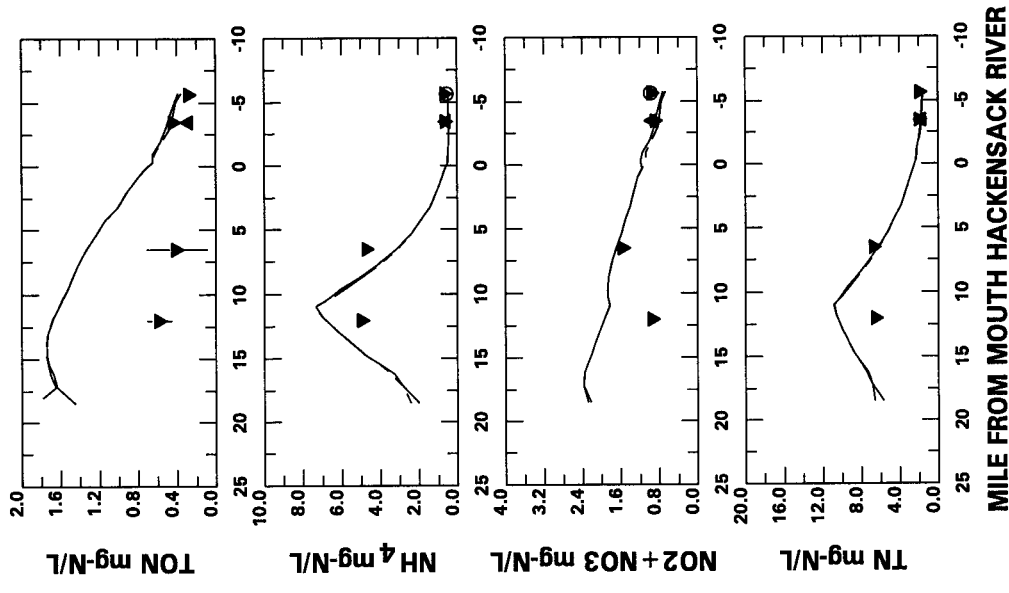
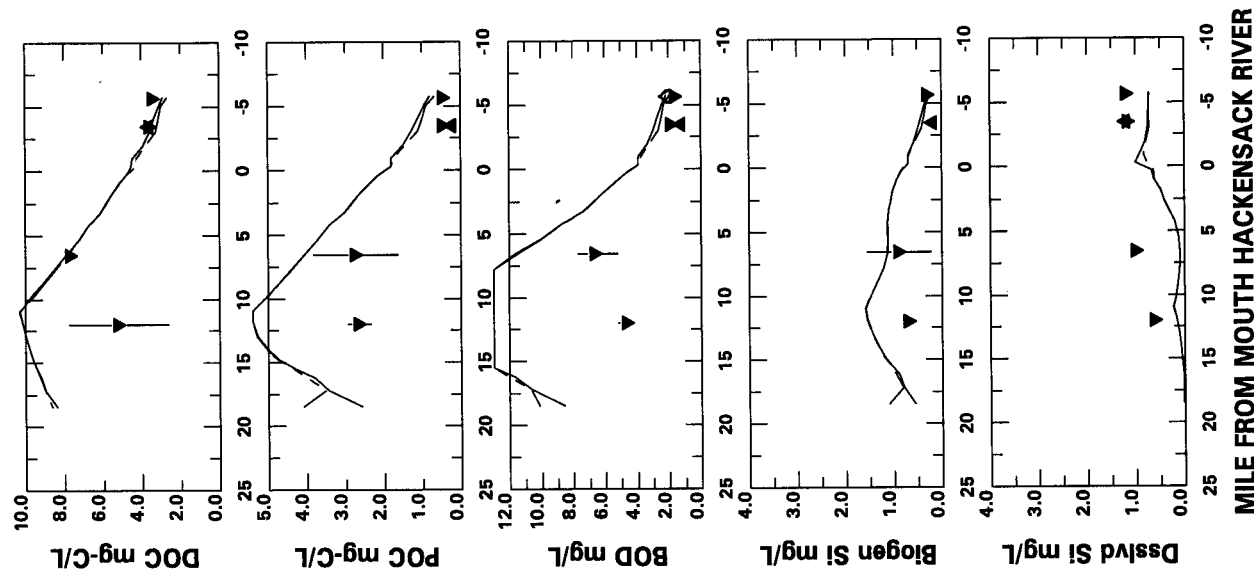
SURF BOT
T B
t b

Transect
Embayment
Transect
Embayment

MODEL

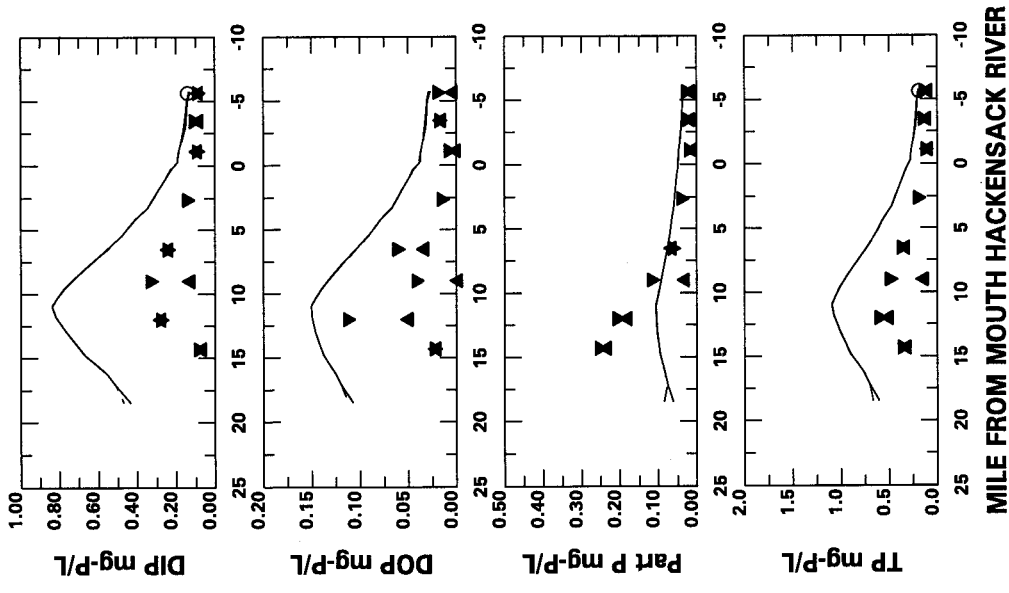
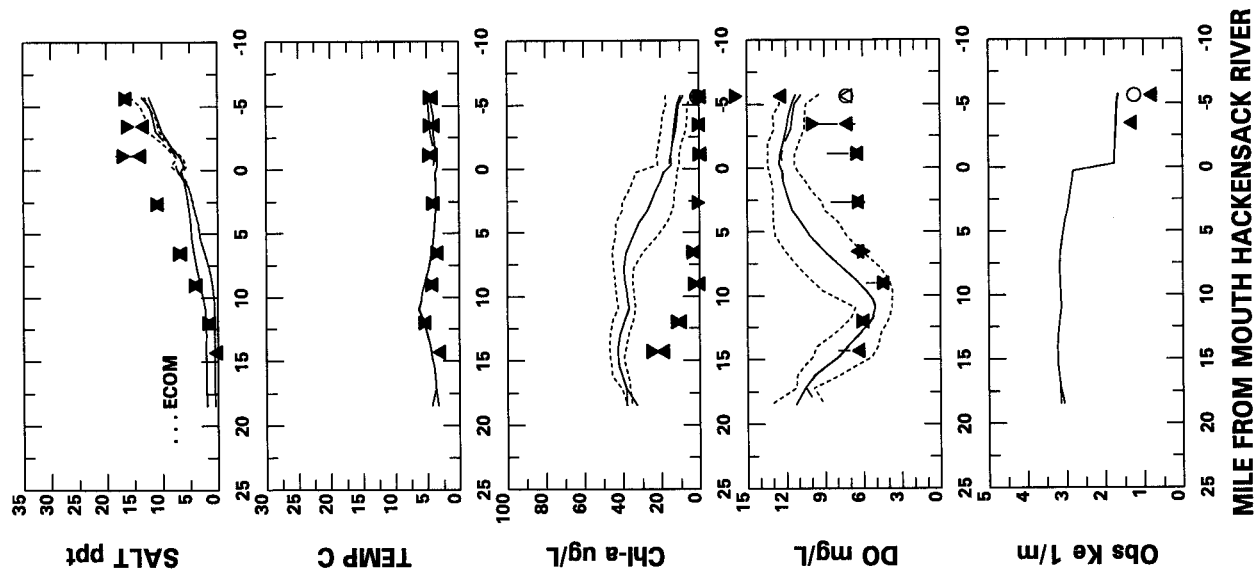
— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL
Battelle Dec 10-16, 1994	▲ Transect	— SURFACE 10-DAY MEAN
	T B Embayment	--- BOTTOM 10-DAY MEAN
NYCDEP 12/94	○ Transect	- - 10-DAY SURFACE MAX OR
	t b Embayment	BOTTOM MIN

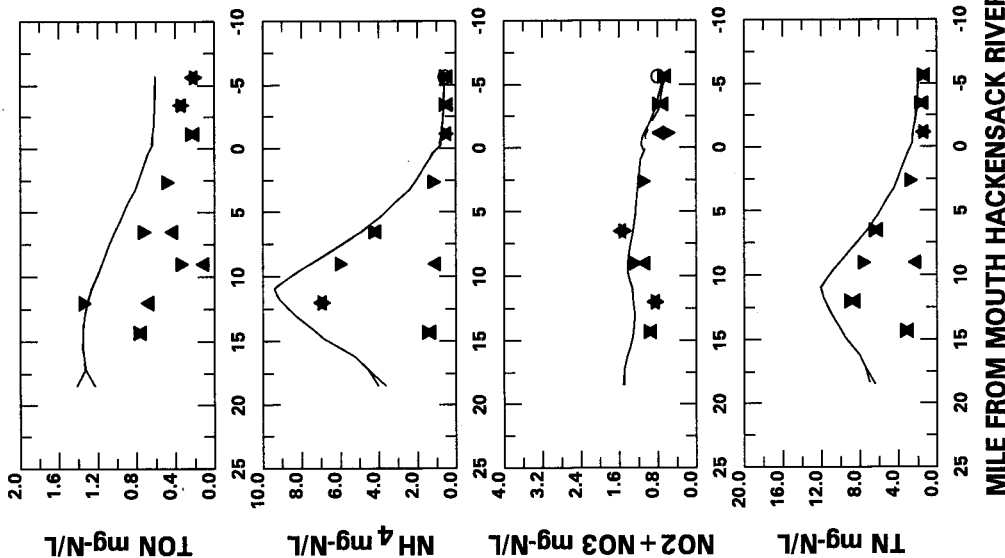
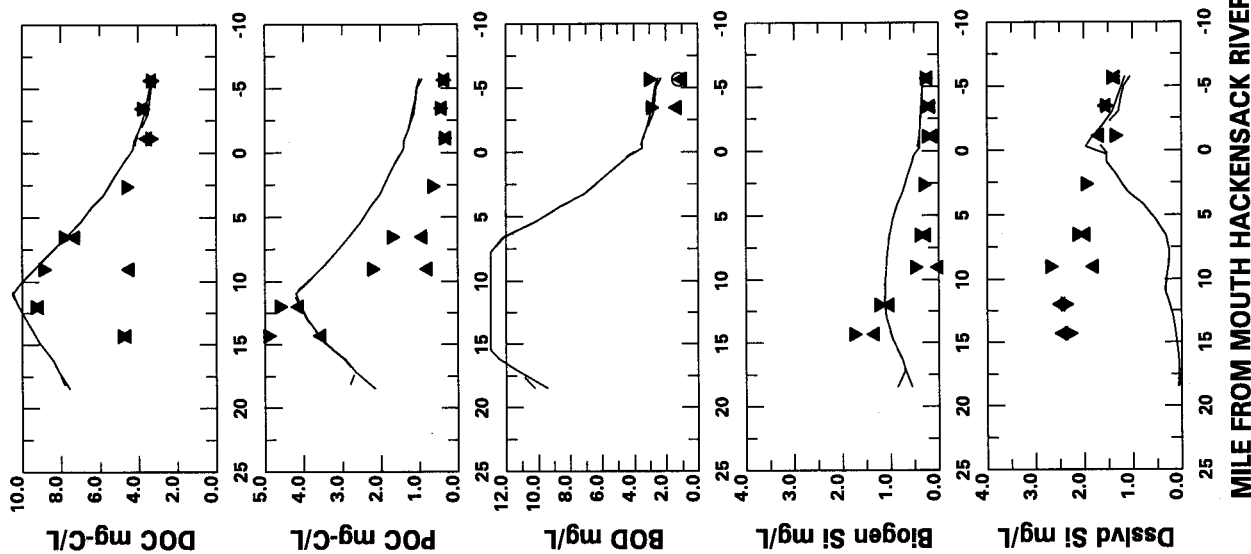
HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL
Battelle Jan 23-31, 1995	▲ Transect	— SURFACE 10-DAY MEAN
	T B Embayment	--- BOTTOM 10-DAY MEAN
NYCDEP 1/95	○ Transect	- - 10-DAY SURFACE MAX OR
	t b Embayment	BOTTOM MIN

HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION

HACKENSACK RIVER AND NEWARK BAY
RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Jan 23-31, 1995

NYCDEP 1/95

SURF BOT

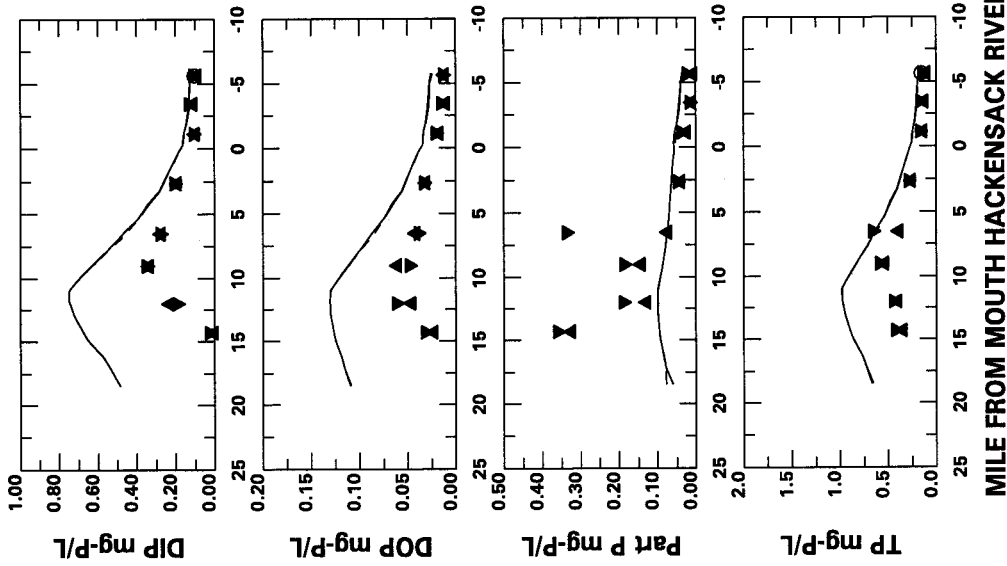
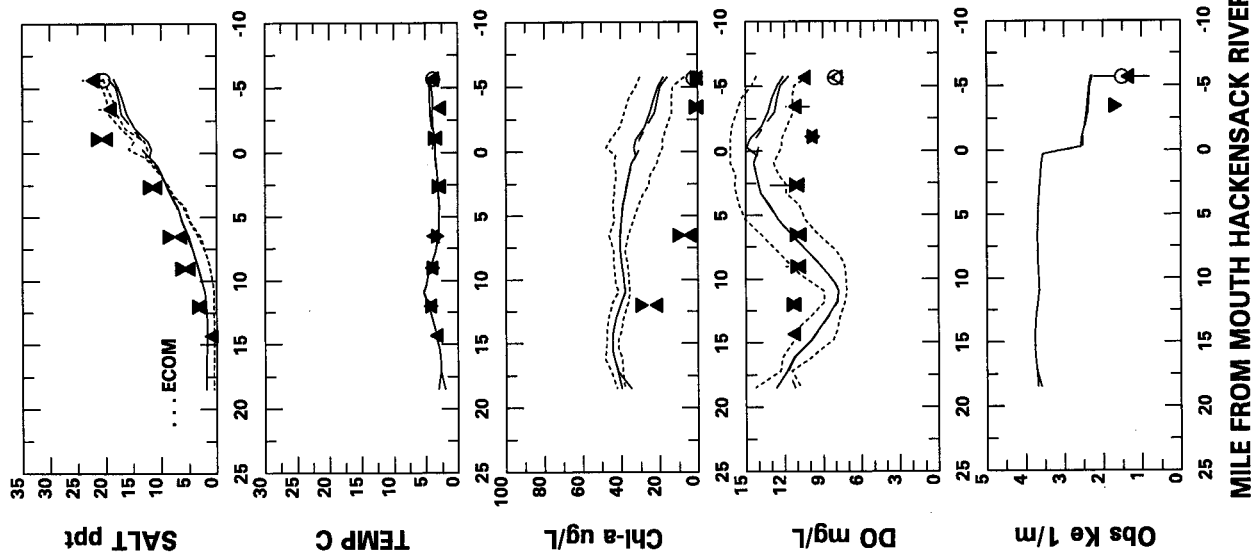
▲ Transect
▼ Embayment
○ T
△ B
● t
● b

MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN



DATA

Battelle Feb 22-Mar 1,
1995

NYCDEP 2/95

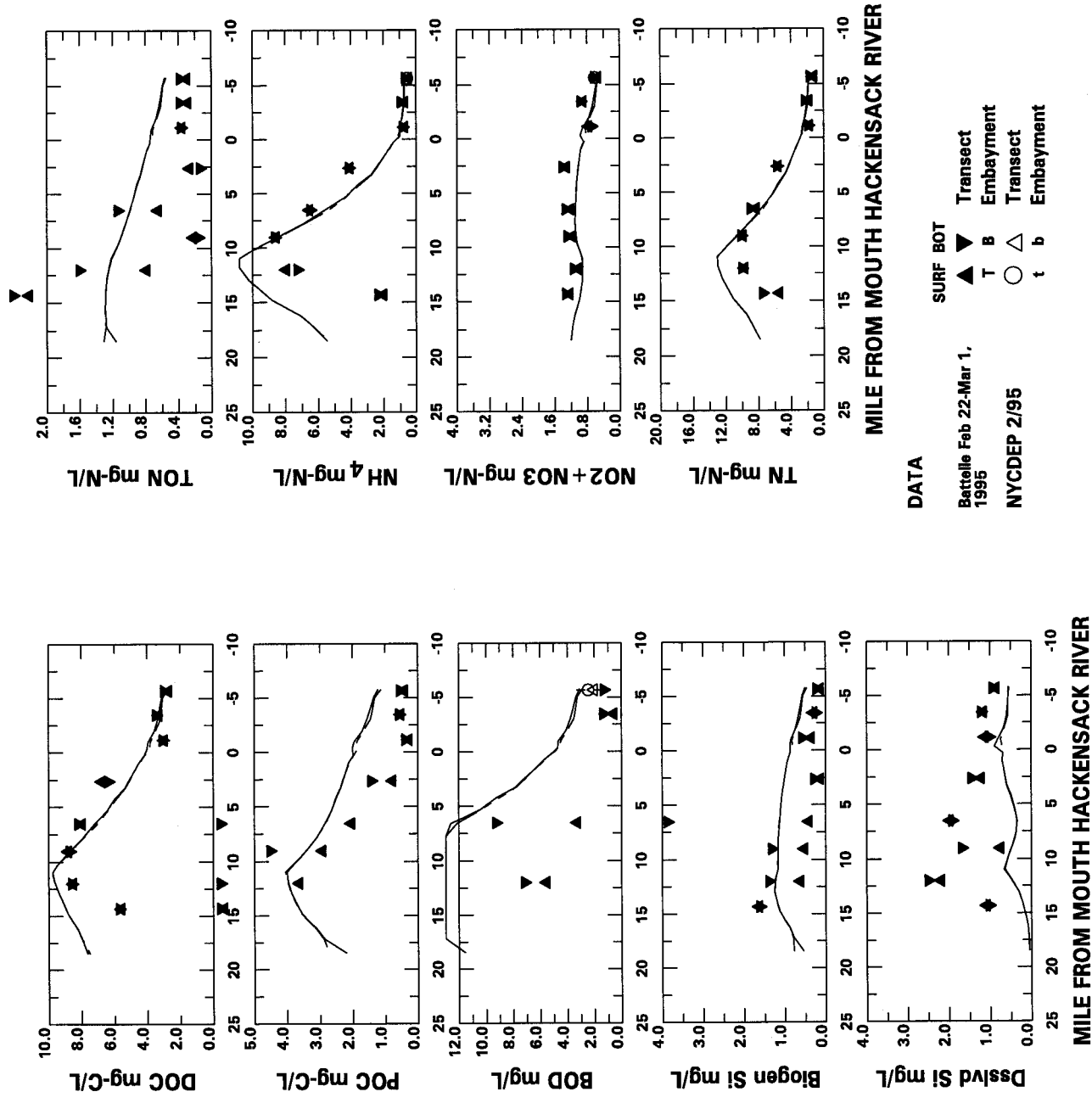
SURF BOT

▲ ▼ Transect
T B Embayment
○ △ Transect
t b Embayment

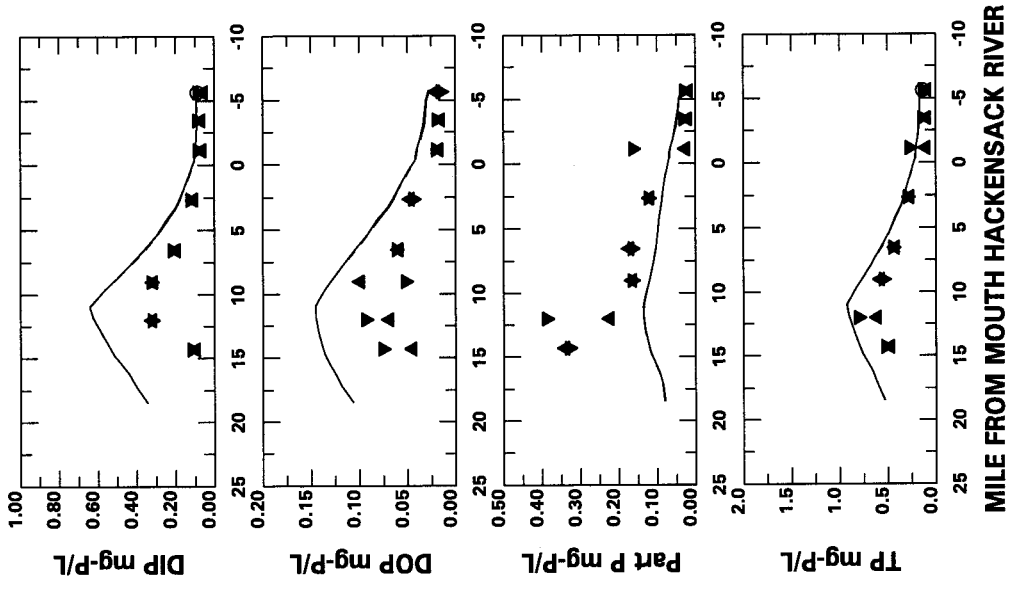
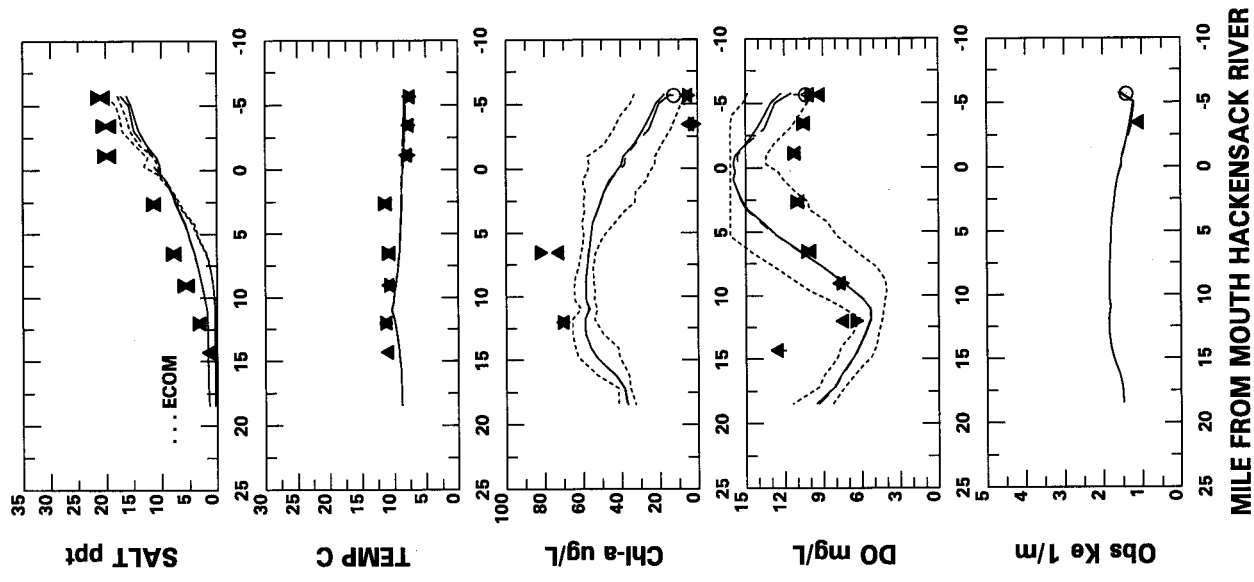
MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION

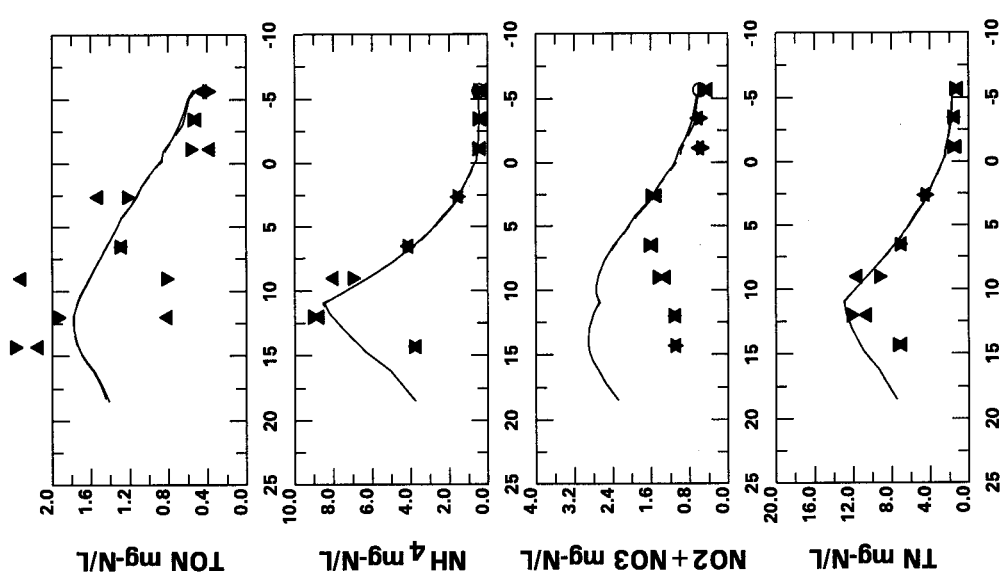
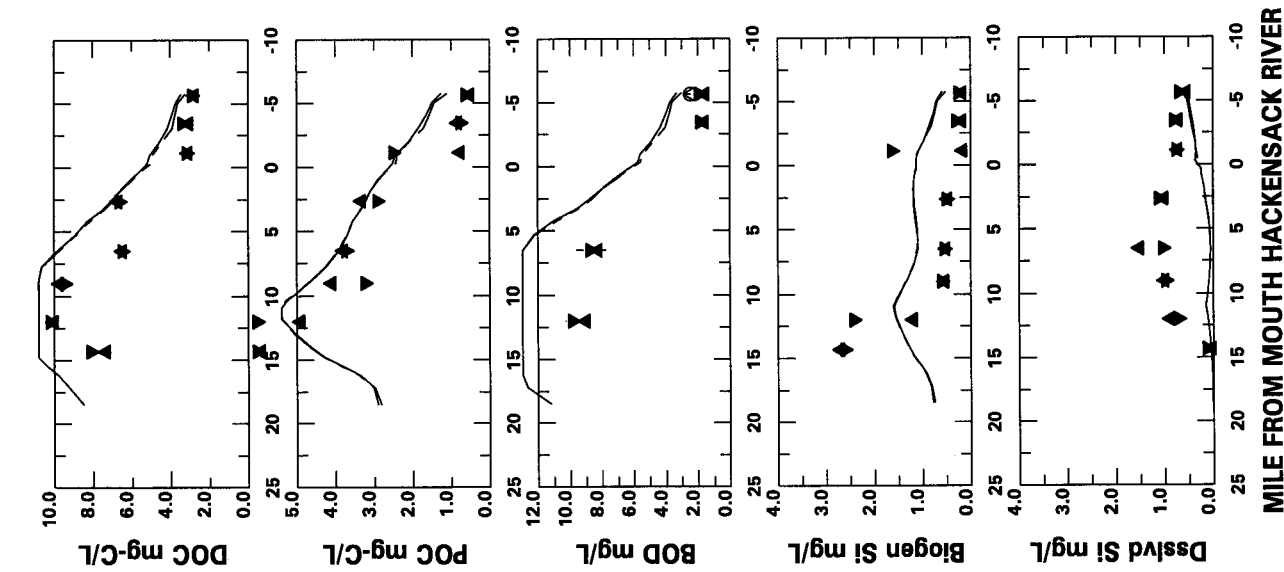


HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL	HACKENSACK RIVER AND NEWARK BAY		
			Battelle Mar 28-Apr 8, 1995	Transsect	SURFACE 10-DAY MEAN
	T B	---	Embayment	---	BOTTOM 10-DAY MEAN
	o t	---	Transsect	---	10-DAY SURFACE MAX OR BOTTOM MIN
			NYCDEP 4/95	Embayment	

HACKENSACK RIVER AND NEWARK BAY **RUN 9495-BC3: SWEM REVISED CALIBRATION**



DATA

Battelle Mar 28-Apr 8, 1995

NYCDEP 4/95

MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

SURF BOT

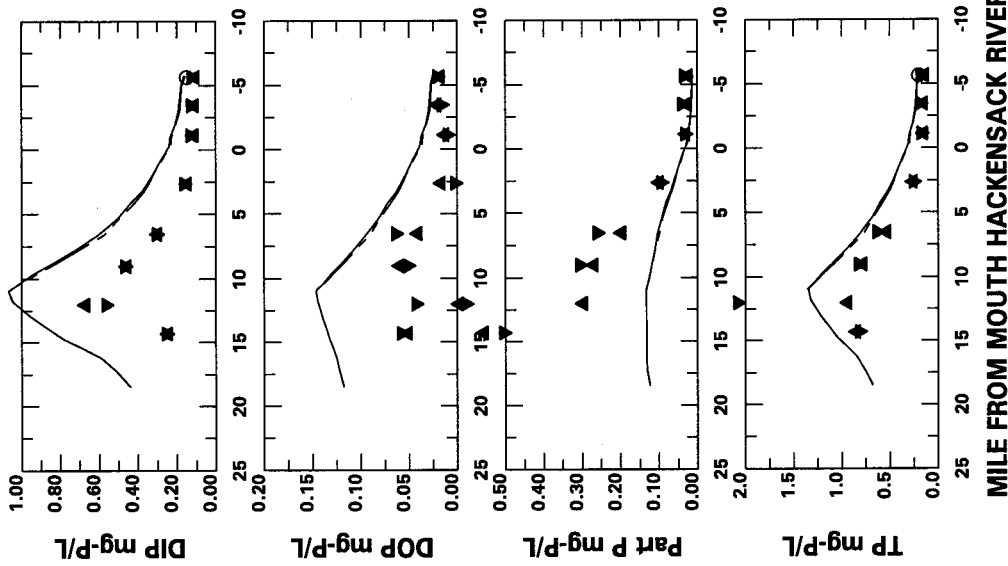
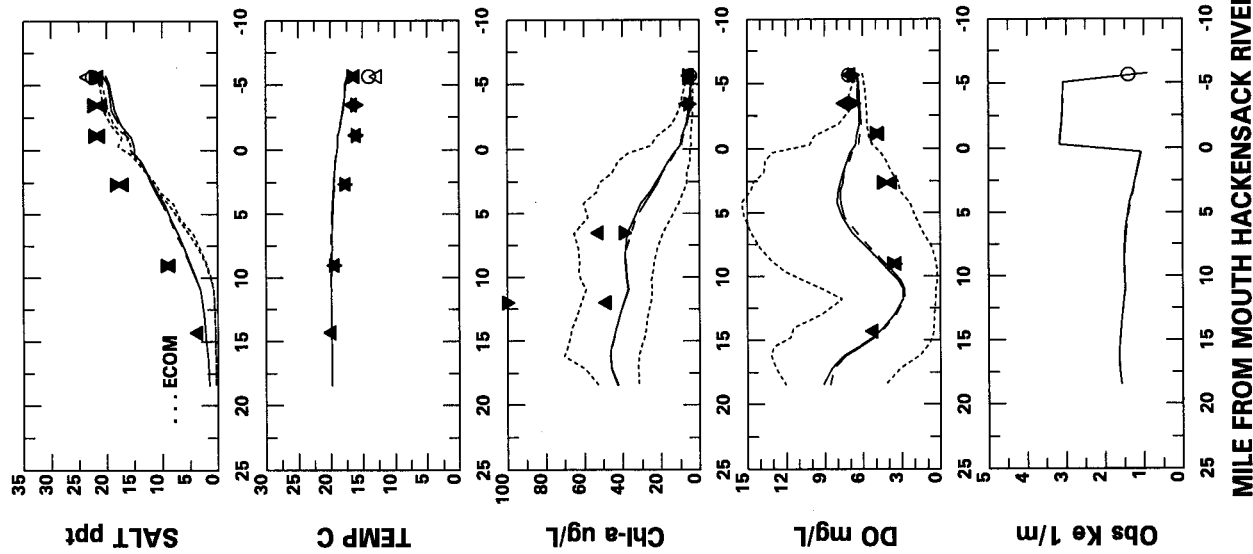
▲ Transect

△ Embayment

○ Transect

t Embayment

HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995

SURF BOT

▲ Transect
T Embayment
○ Transect
t Embayment

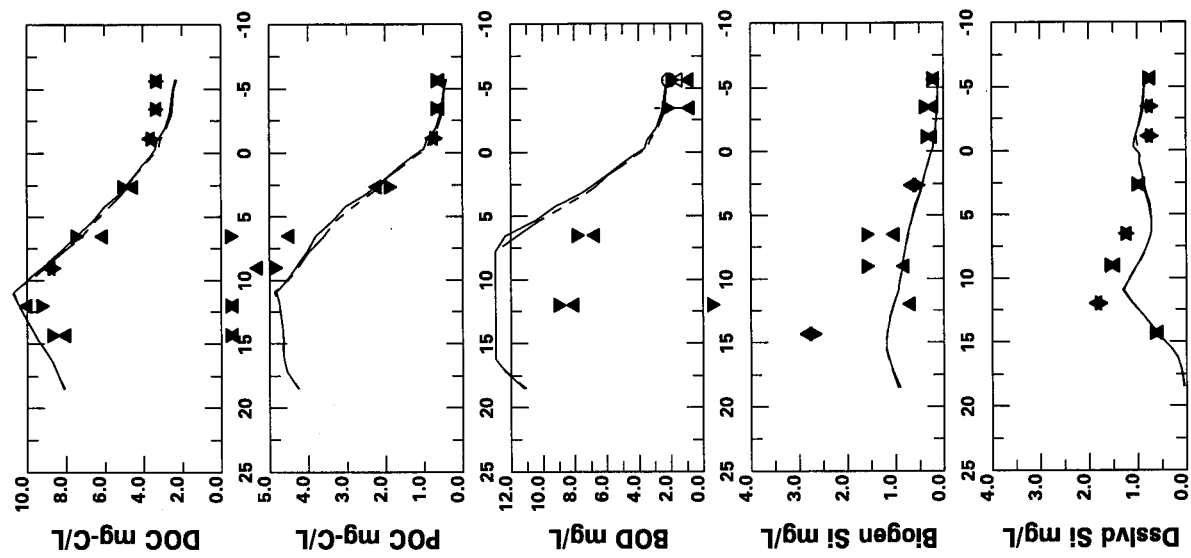
MODEL

— SURFACE 10-DAY MEAN

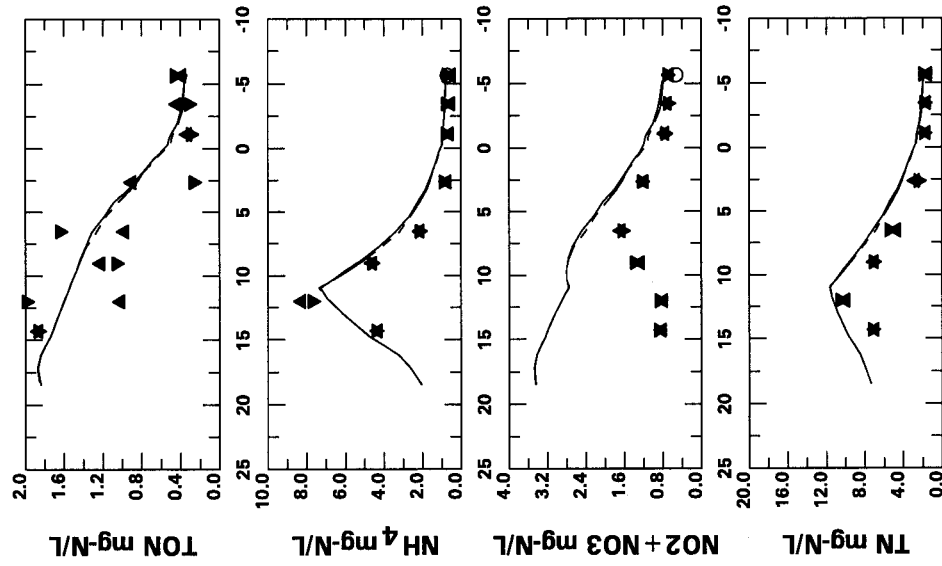
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM MOUTH HACKENSACK RIVER



MILE FROM MOUTH HACKENSACK RIVER

DATA

Battelle May 20-26, 1995

NYCDEP 5/95

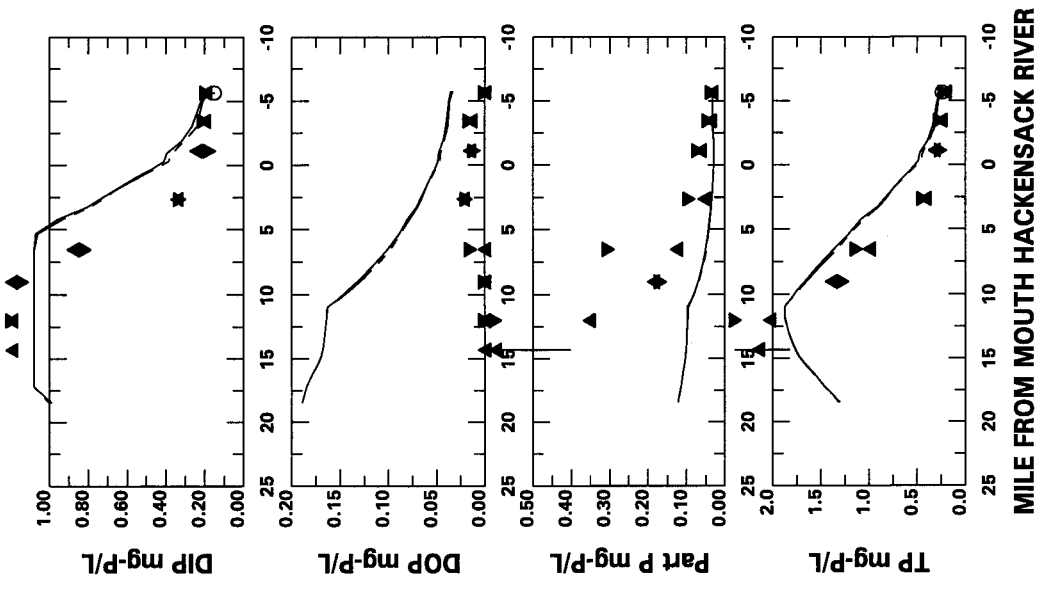
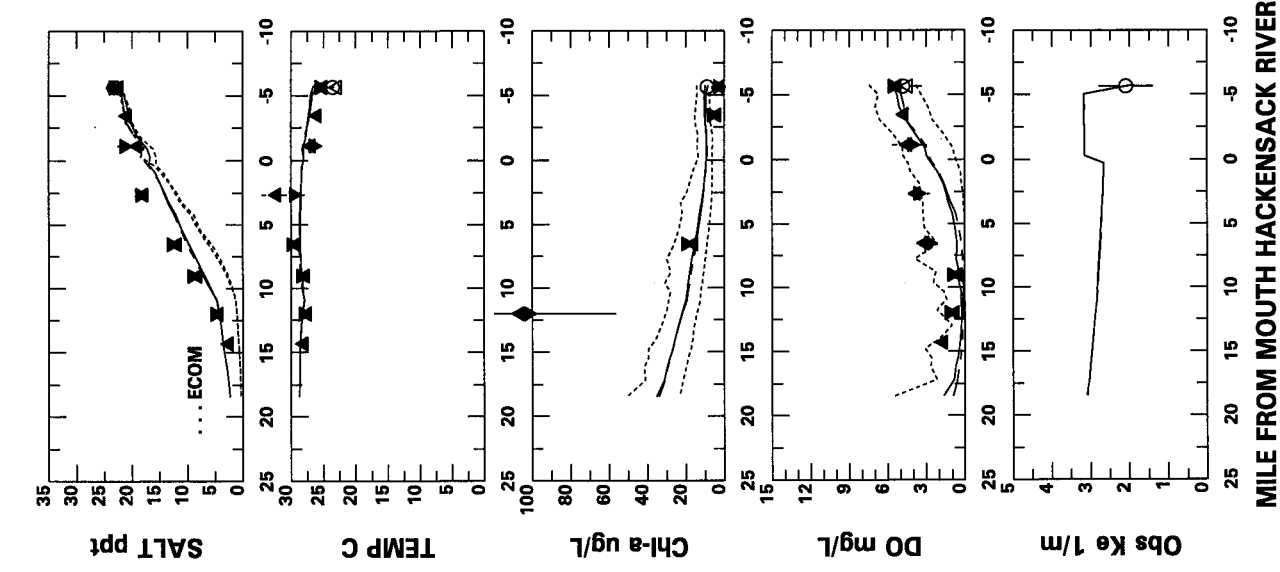
SURF BOT

Transect T B Embayment
Transect t b Embayment

MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2, 1995

NYCDEP 7/95

MODEL

SURF BOT

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

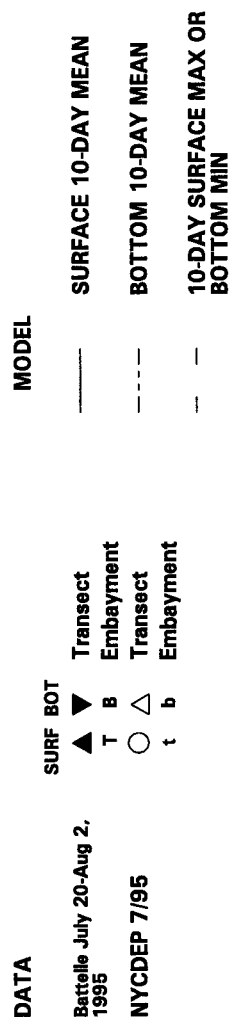
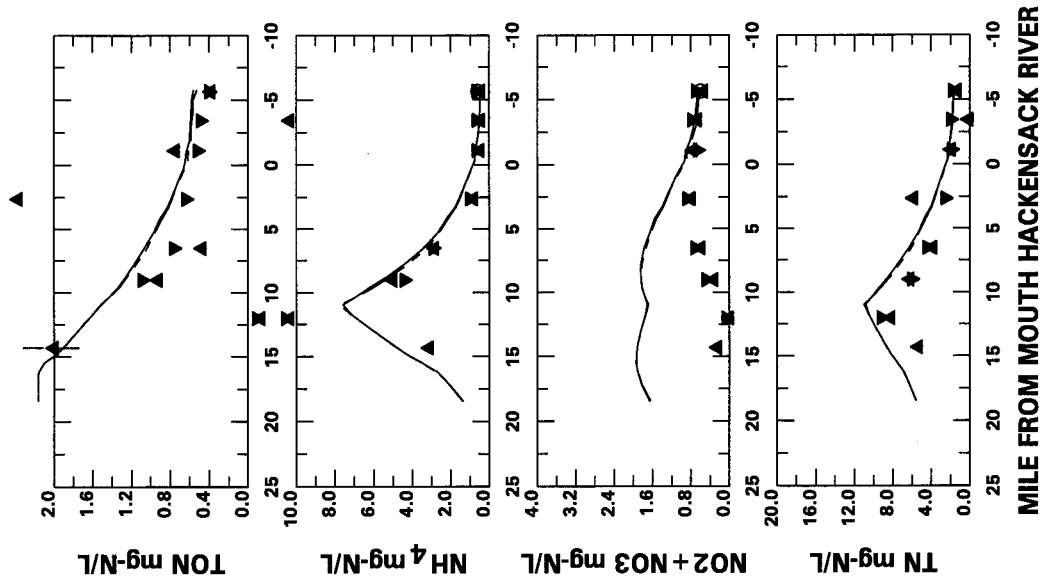
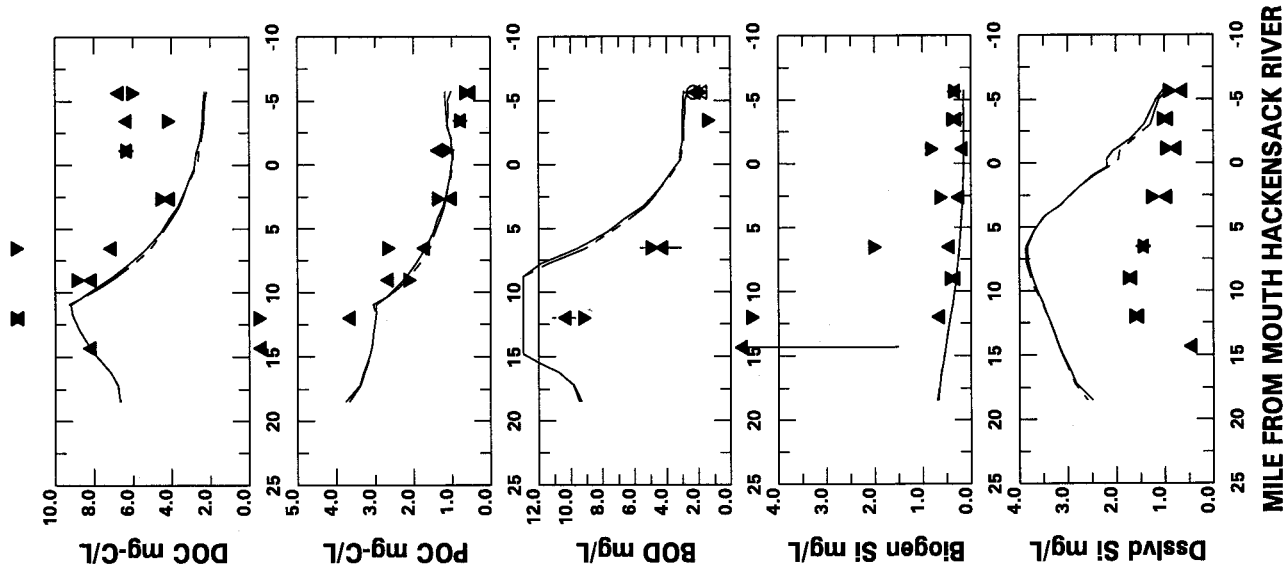
▲ Transect T

▼ Embayment B

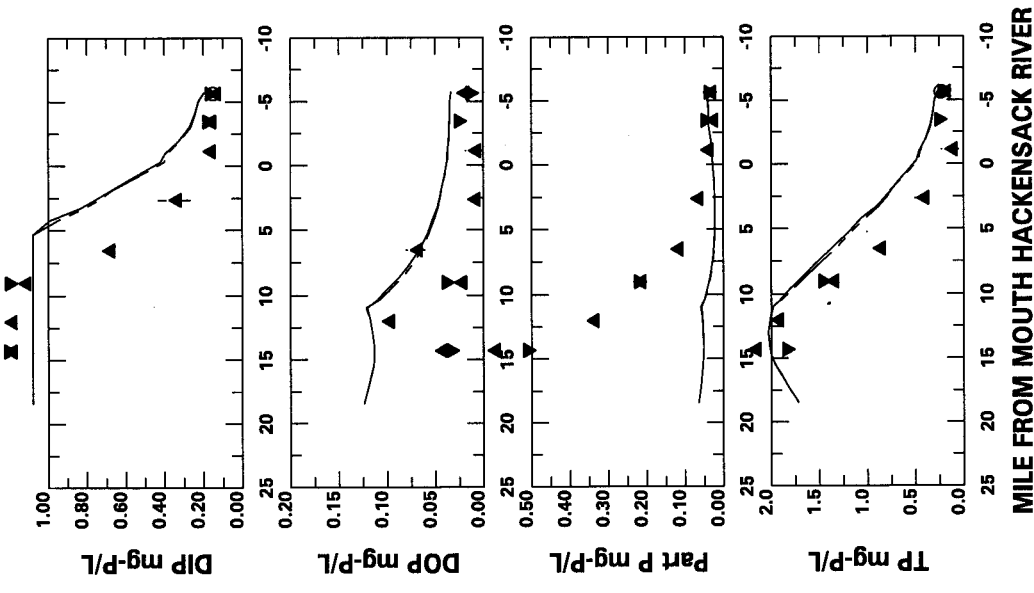
○ Transect t

● Embayment b

HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION



HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION

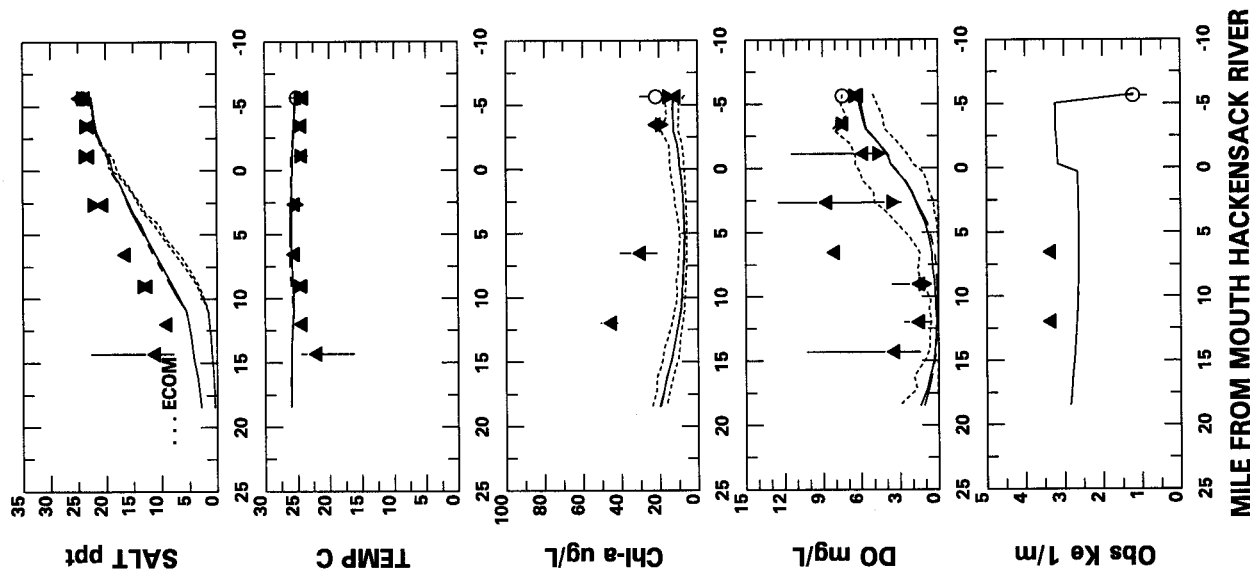


MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN



DATA

Battelle Aug 20-29, 1995

NYCDEP 8/95

SURF BOT

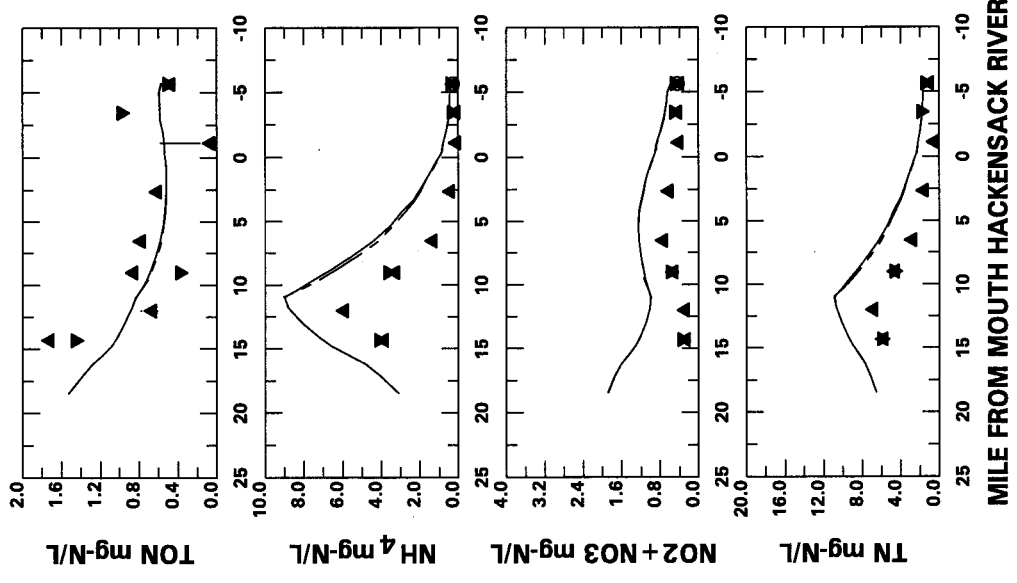
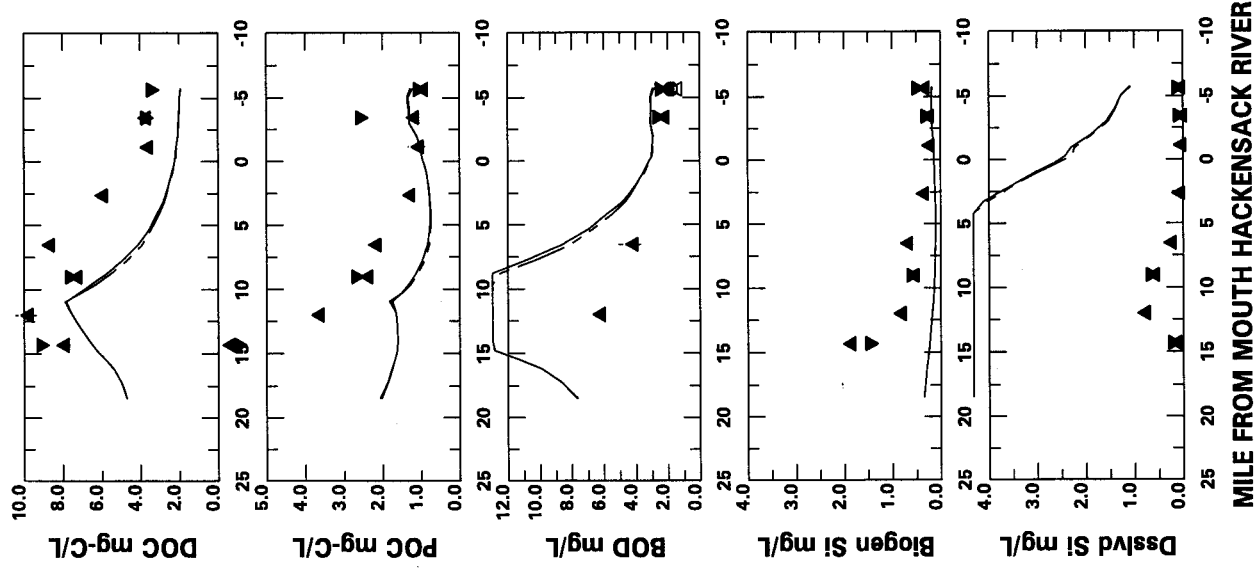
▲ Transect

▼ Embayment

○ Transect

● Embayment

HACKENSACK RIVER AND NEWARK BAY **RUN 9495-BC3: SWEM REVISED CALIBRATION**



DATA

Battelle Aug 20-29, 1995

NYCDEP 8/95

MODEL

SURF BOT

— SURFACE 10-DAY MEAN

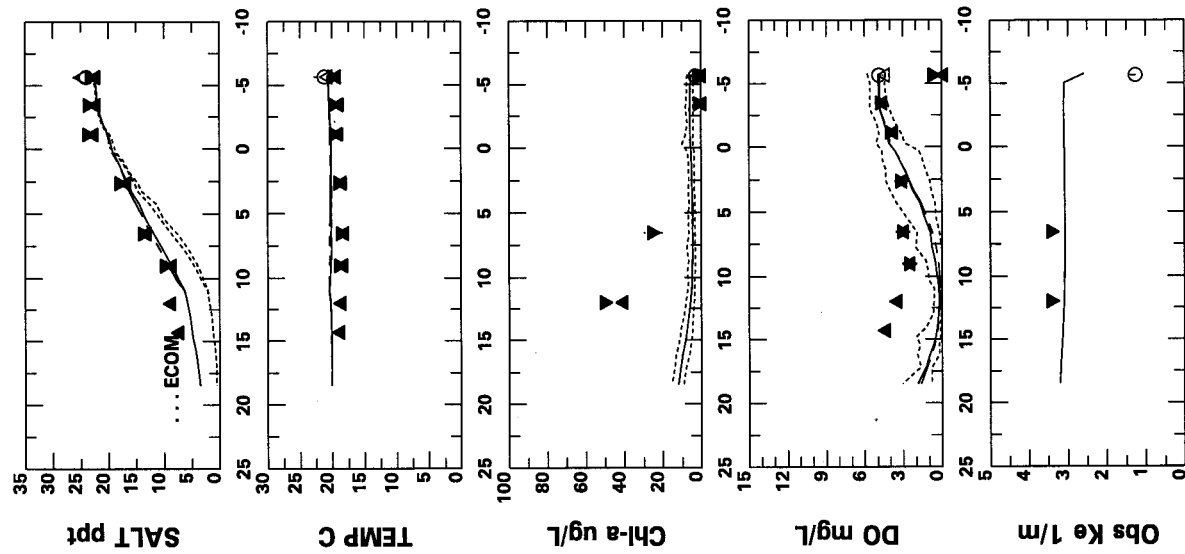
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

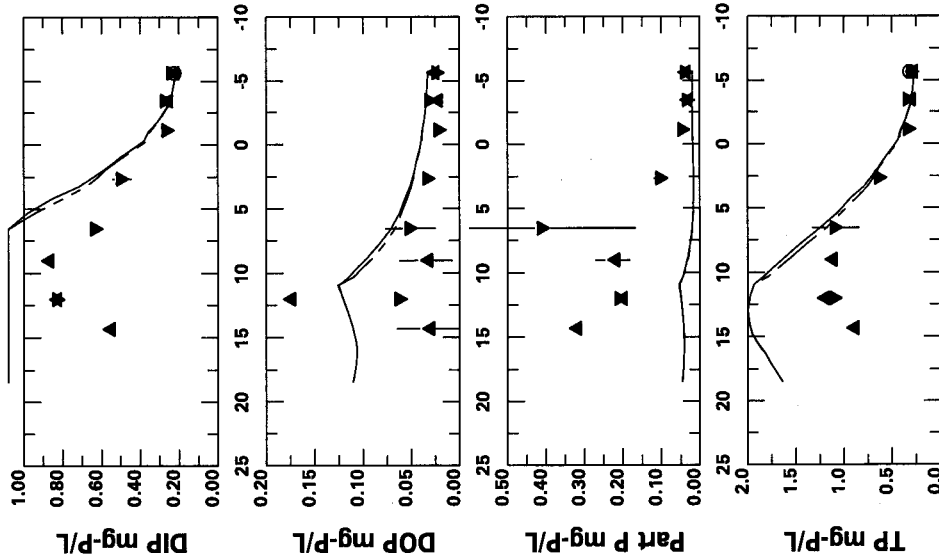
▲ Transect T

△ Embayment t

HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION



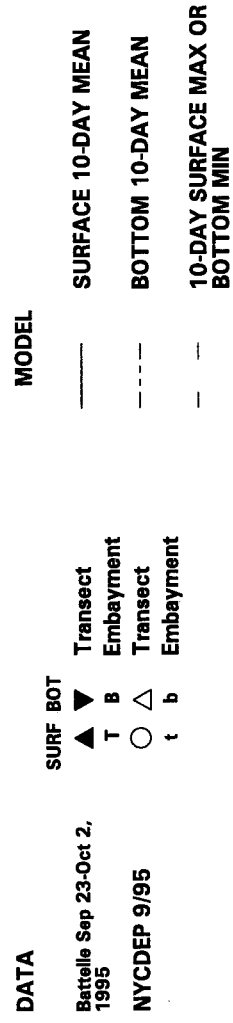
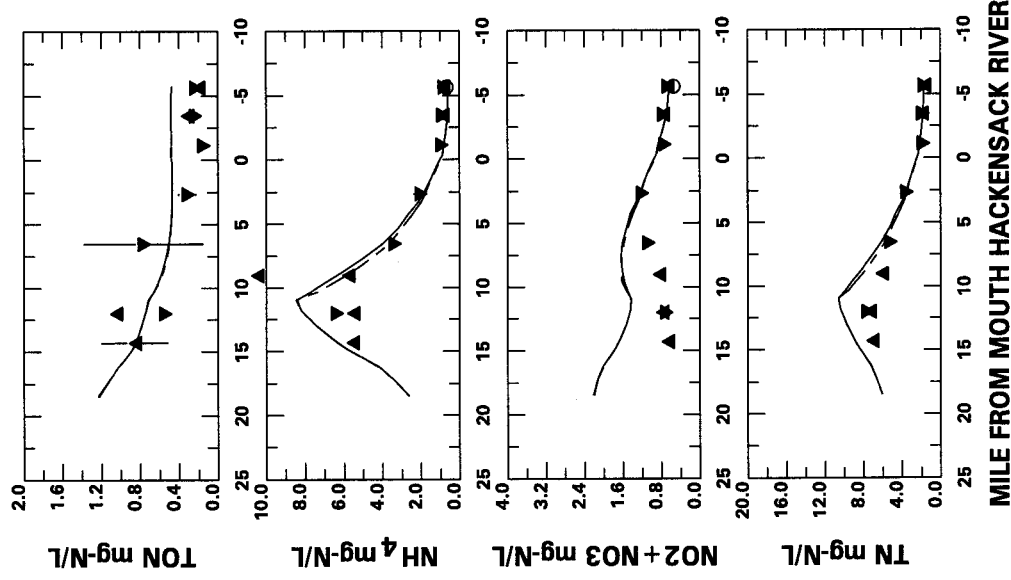
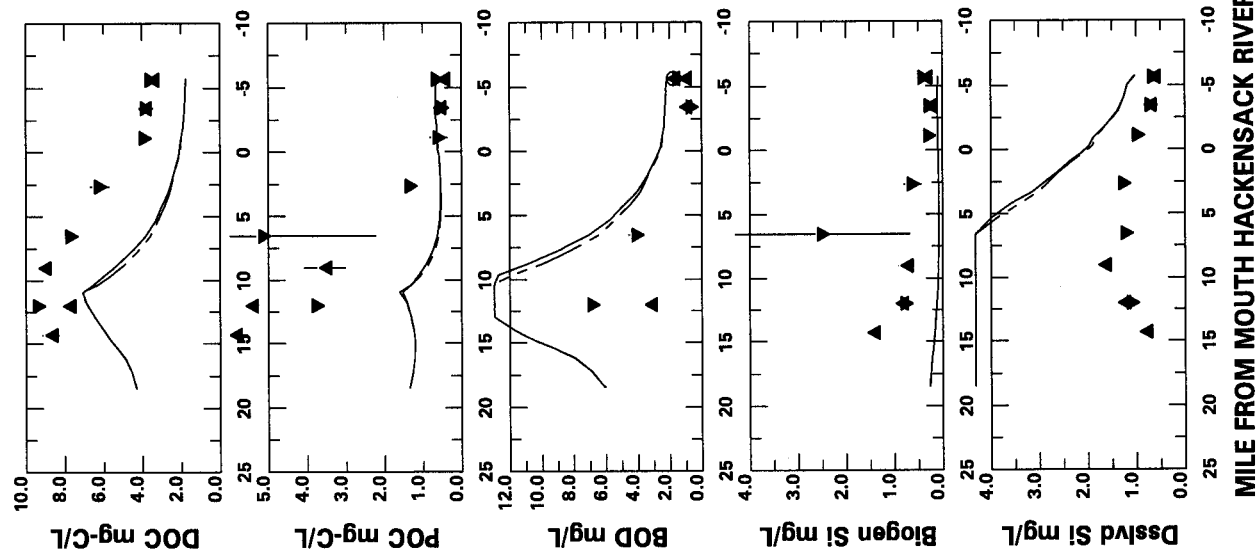
MILE FROM MOUTH HACKENSACK RIVER



MILE FROM MOUTH HACKENSACK RIVER

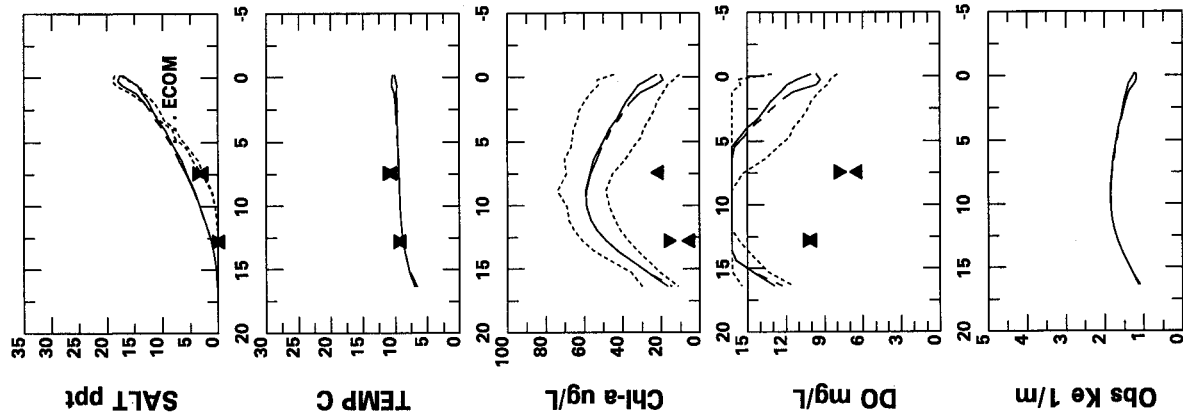
DATA	SURF BOT	MODEL	
Battelle Sep 23-Oct 2, 1995	Transect	—	SURFACE 10-DAY MEAN
NYCDEP 9/95	Embayment	- - -	BOTTOM 10-DAY MEAN
	Transect	- - -	10-DAY SURFACE MAX OR BOTTOM MIN
	Embayment	- - -	

HACKENSACK RIVER AND NEWARK BAY RUN 9495-BC3: SWEM REVISED CALIBRATION

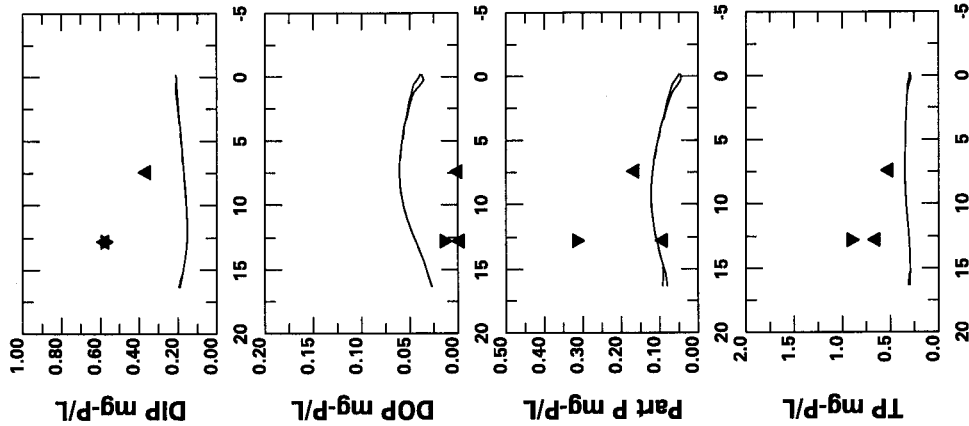


HACKENSACK RIVER AND NEWARK BAY **RUN 9495-BC3: SWEM REVISED CALIBRATION**

SPATIAL DISTRIBUTIONS OF PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER



MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

DATA

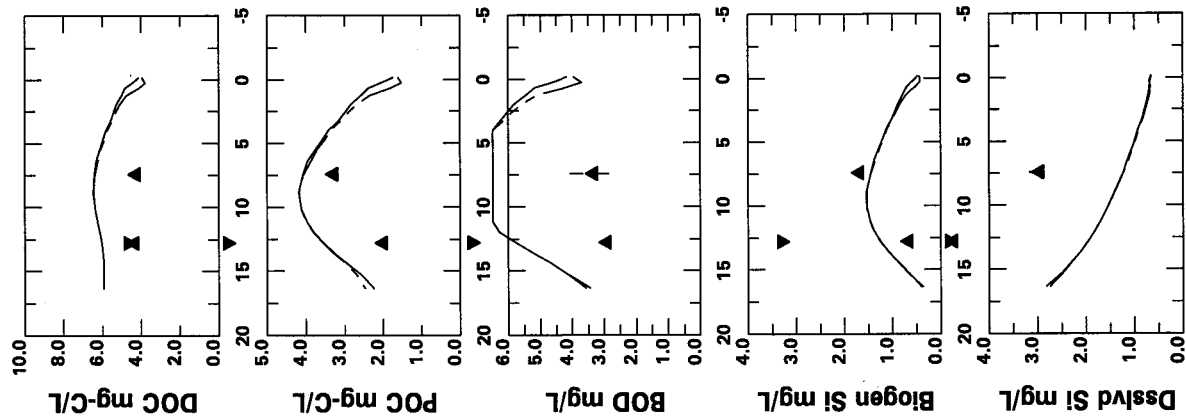
Battelle Nov 12-17, 1994

SURF BOT

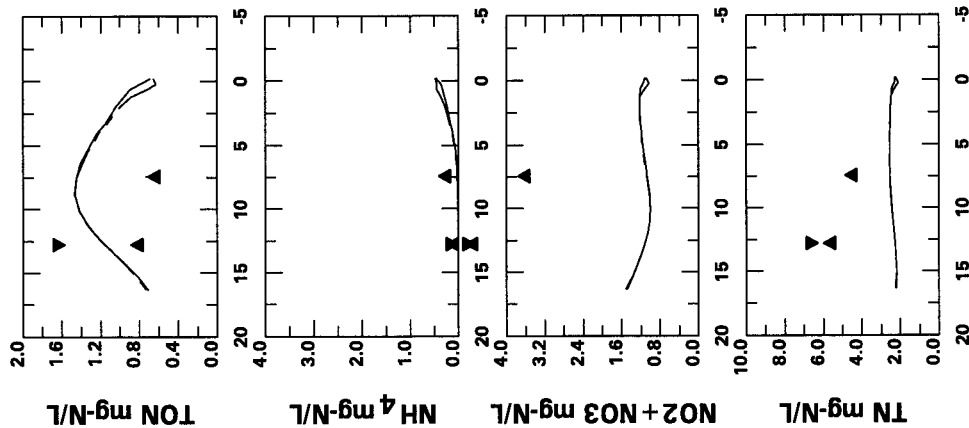
▲ ▼ Transect

T B Embayment

PASSAIC RIVER RUN 9495-BC3
SWEM REVISED CALIBRATION



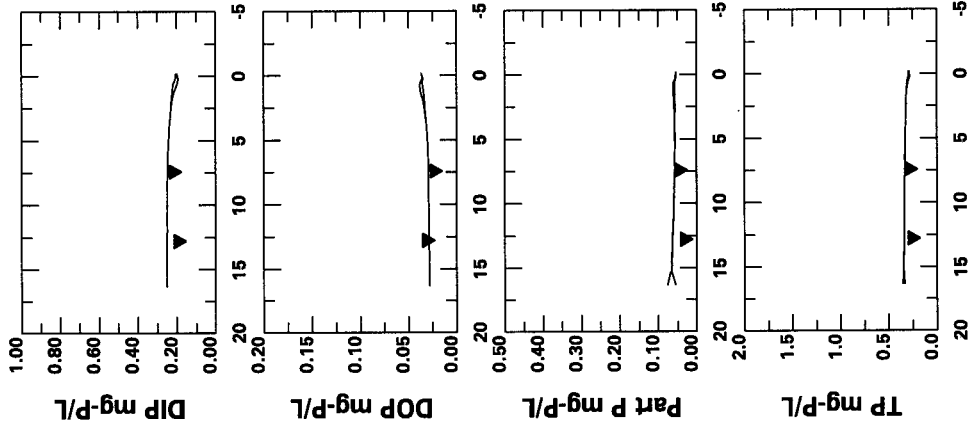
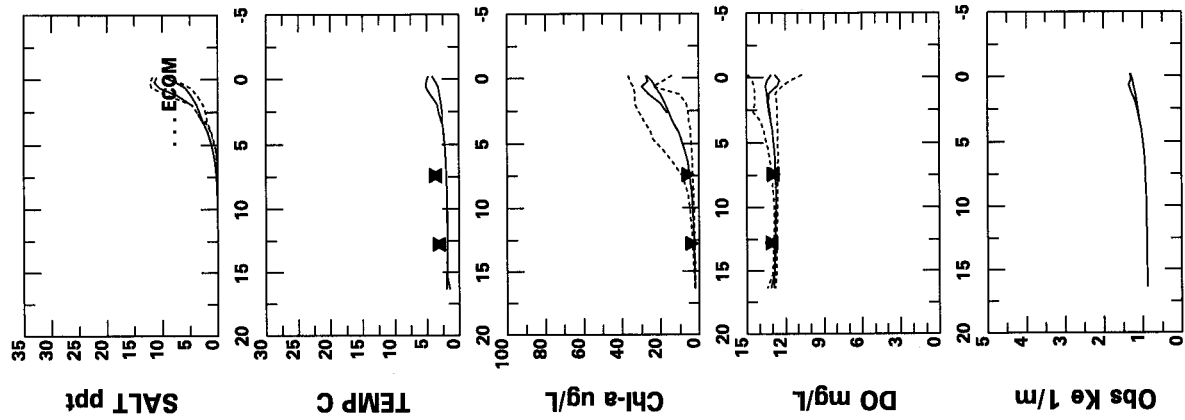
MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

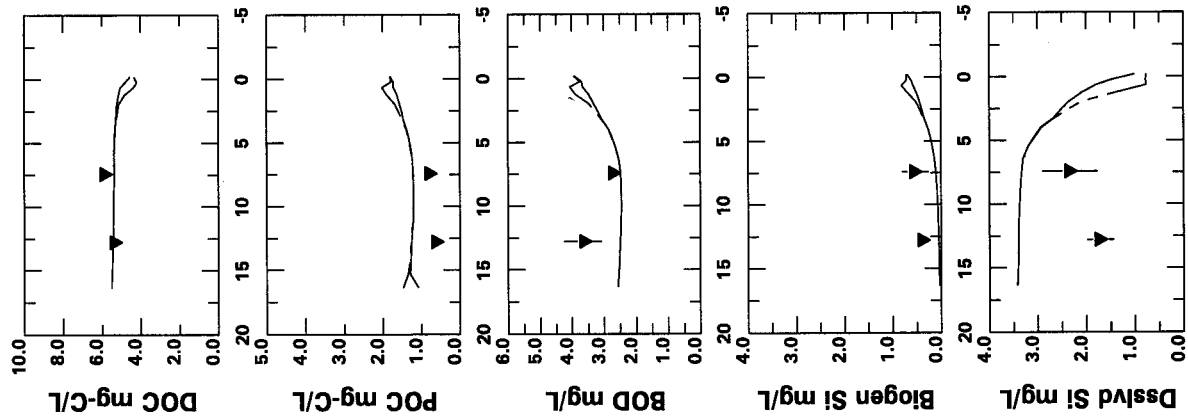
MODEL				
—	SURFACE 10-DAY MEAN	▲	Transect	
- - -	BOTTOM 10-DAY MEAN	▼	Embayment	
- - -	10-DAY SURFACE MAX OR BOTTOM MIN			

PASSAIC RIVER RUN 9495-BC3 SWEM REVISED CALIBRATION

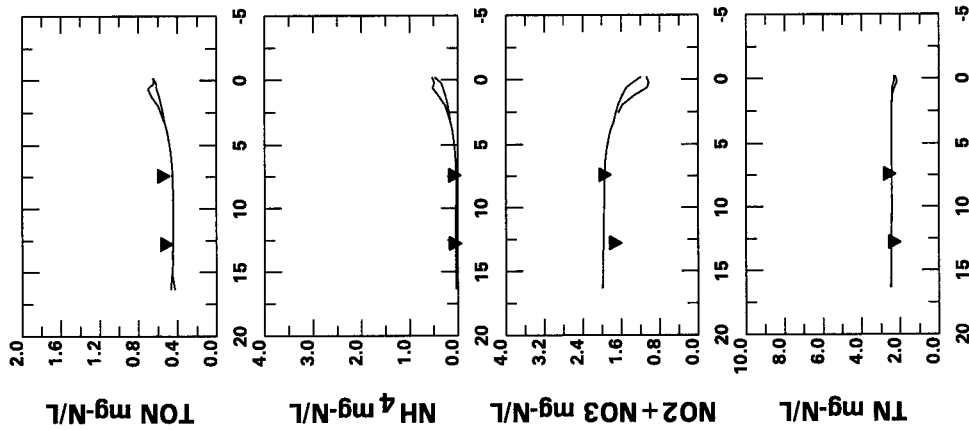


MODEL	SURF BOT	DATA
—	▲	Transect
---	T	Embayment
- -		

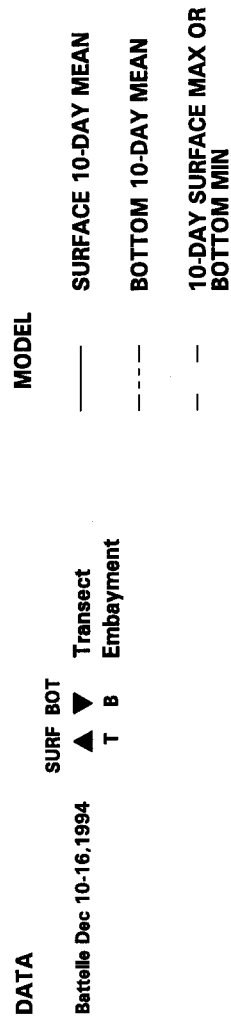
PASSAIC RIVER RUN 9495-BC3 SWEM REVISED CALIBRATION



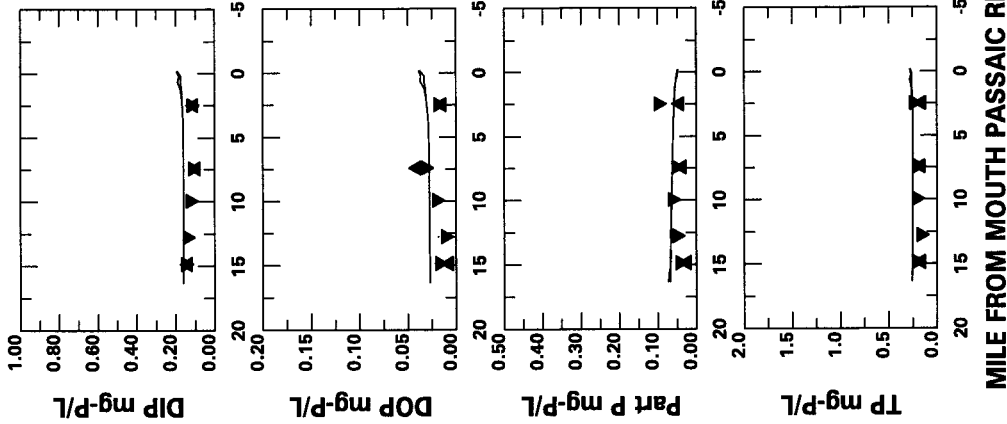
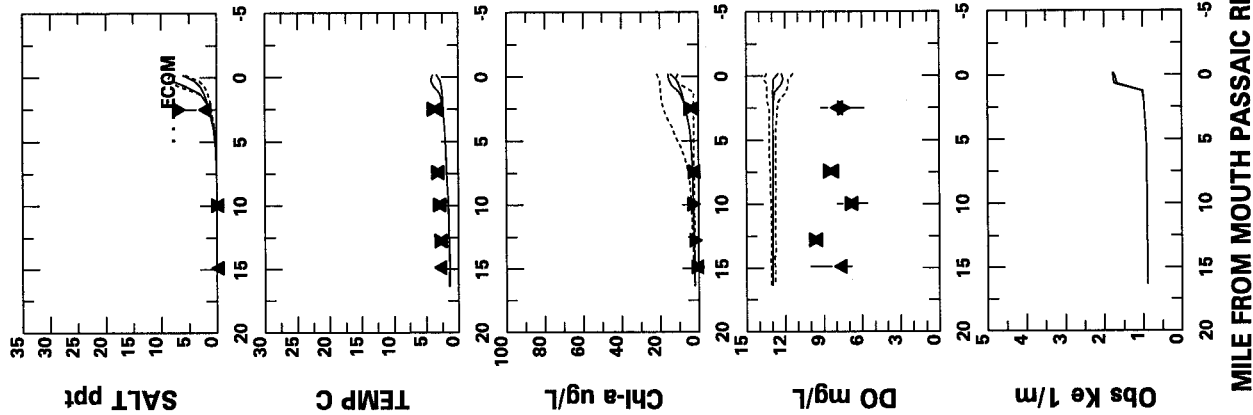
MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

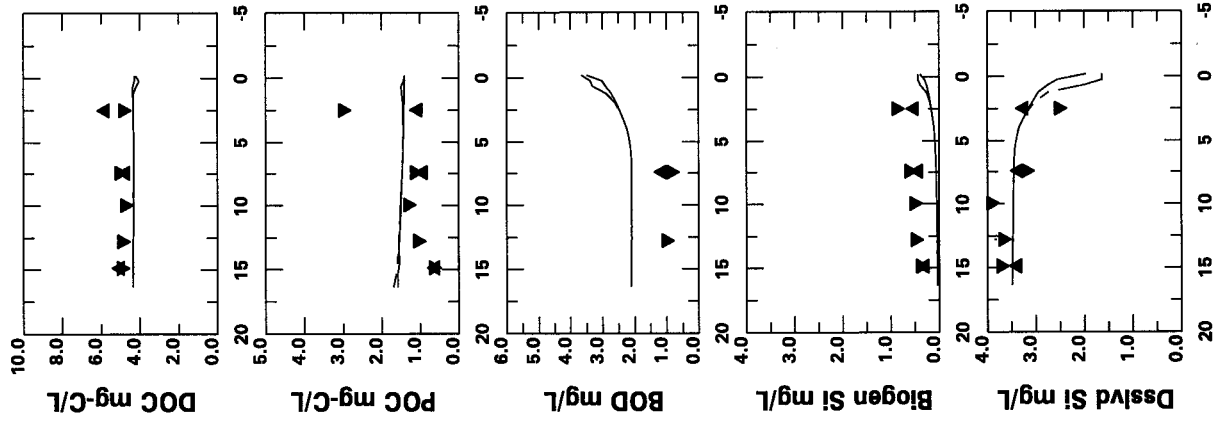


PASSAIC RIVER RUN 9495-BC3 SWEM REVISED CALIBRATION

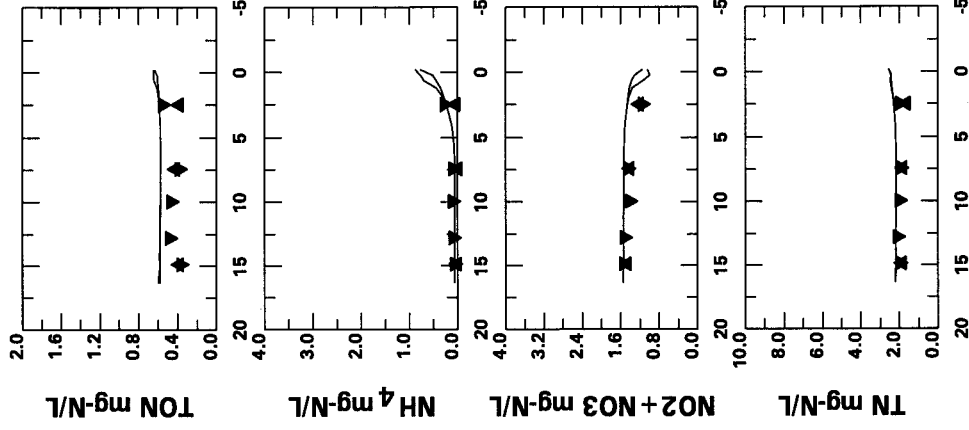


DATA	Battelle Jan 23-31, 1995	SURF BOT	MODEL
		▲ Transect	— SURFACE 10-DAY MEAN
		▼ Embayment	--- BOTTOM 10-DAY MEAN
			- - 10-DAY SURFACE MAX OR BOTTOM MIN

PASSAIC RIVER RUN 9495-BC3
SWEM REVISED CALIBRATION



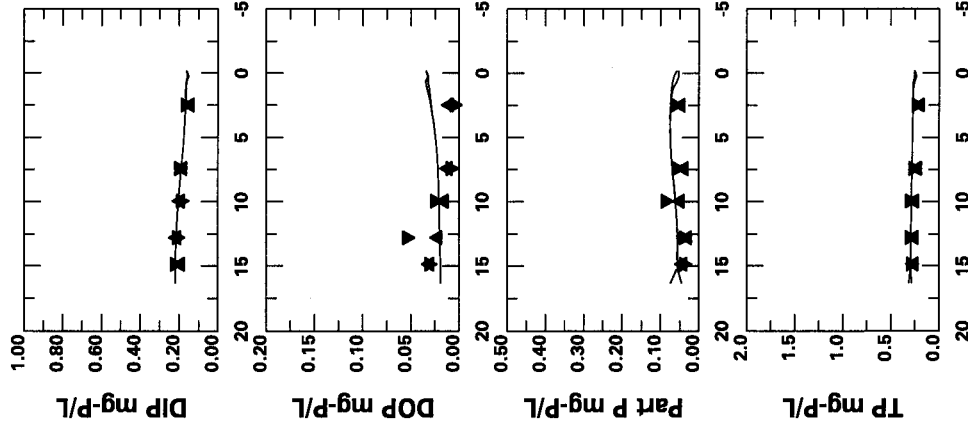
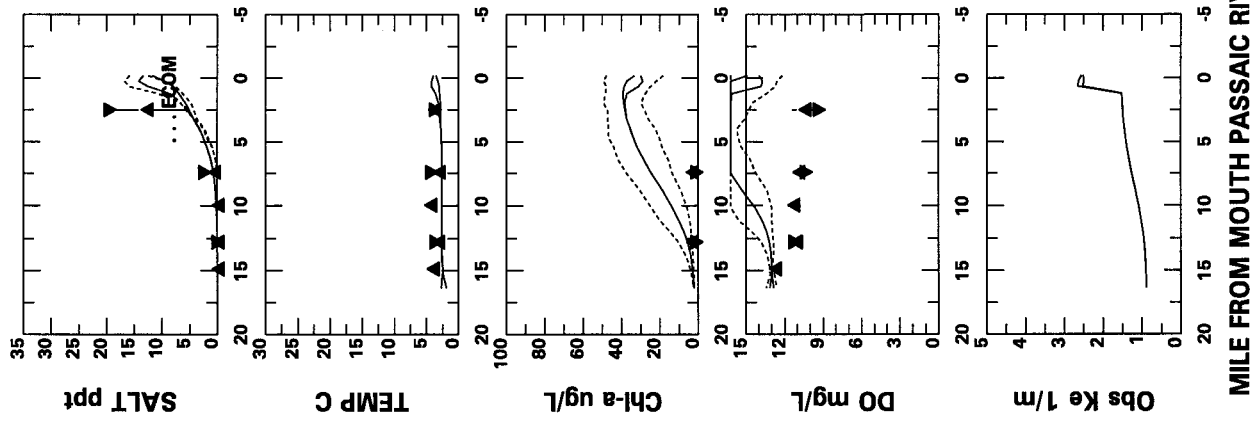
MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

MODEL	DATA	
	SURF	BOT
—	▲	▼
---	T	B
- -	Transect Embayment	
- -	10-DAY SURFACE MAX OR BOTTOM MIN	

PASSAIC RIVER RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Feb 22-Mar 1, 1995

SURF BOT

▲ ▼ Transect
T B Embayment

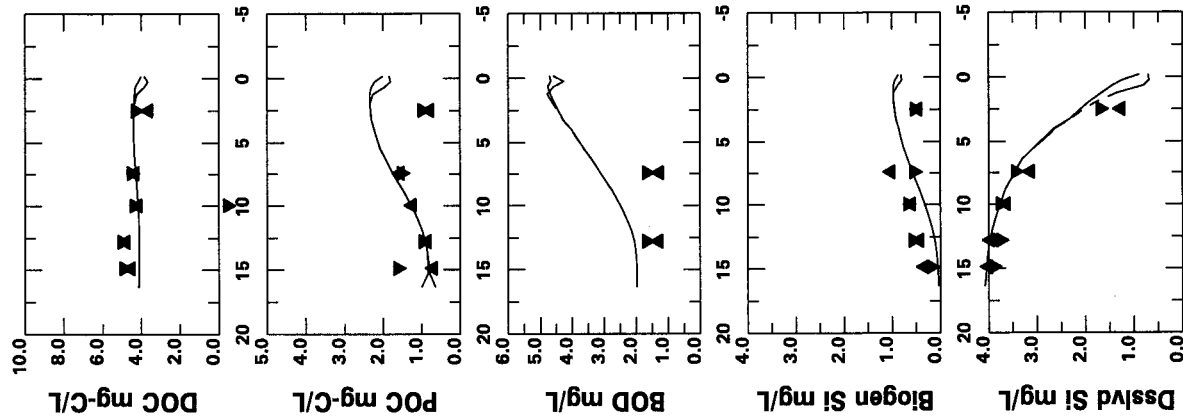
MODEL

— SURFACE 10-DAY MEAN

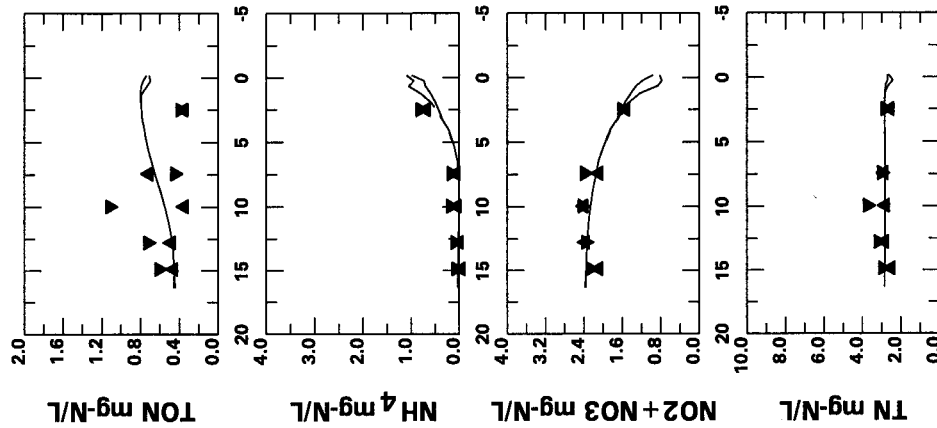
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

PASSAIC RIVER RUN 9495-BC3
SWEM REVISED CALIBRATION



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

Battelle Feb 22-Mar 1, 1995

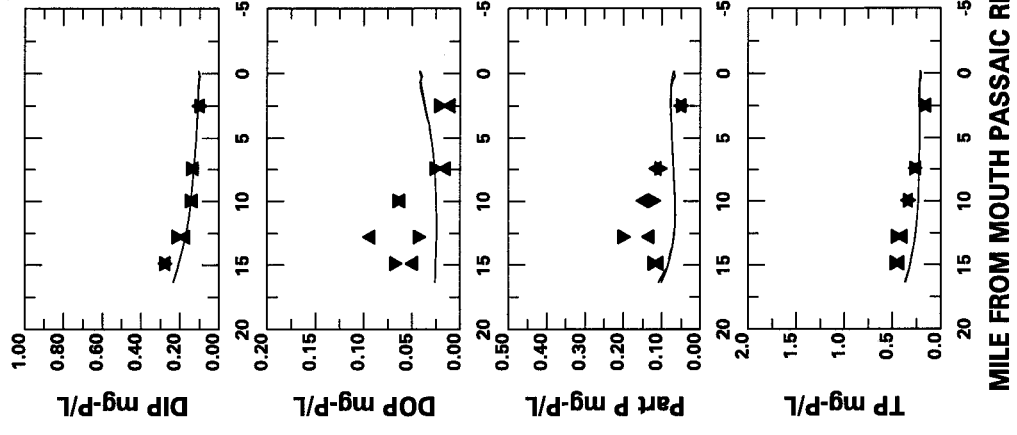
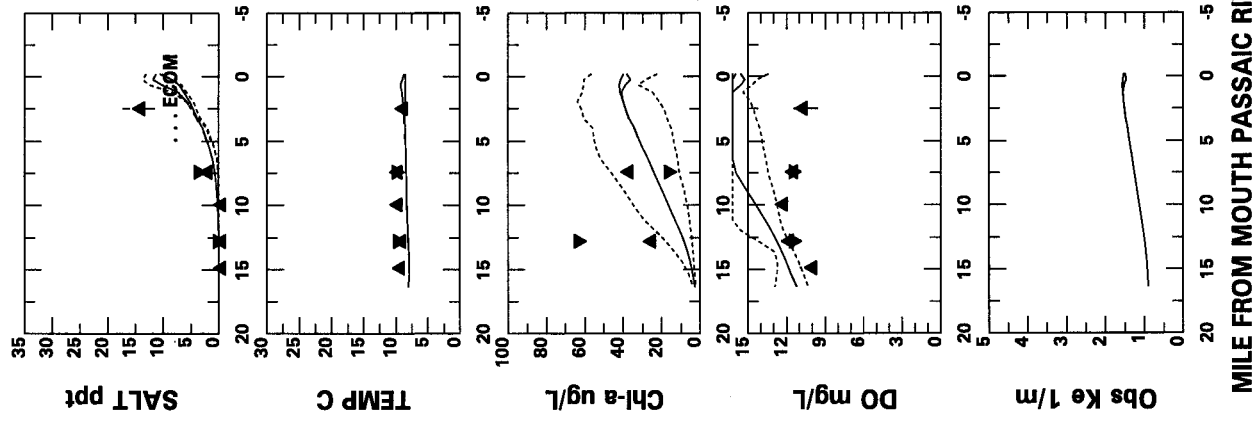
SURF BOT

Transect T B Embayment

MODEL

SURFACE 10-DAY MEAN
 BOTTOM 10-DAY MEAN
 10-DAY SURFACE MAX OR BOTTOM MIN

PASSAIC RIVER RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8, 1995

MODEL

— SURFACE 10-DAY MEAN

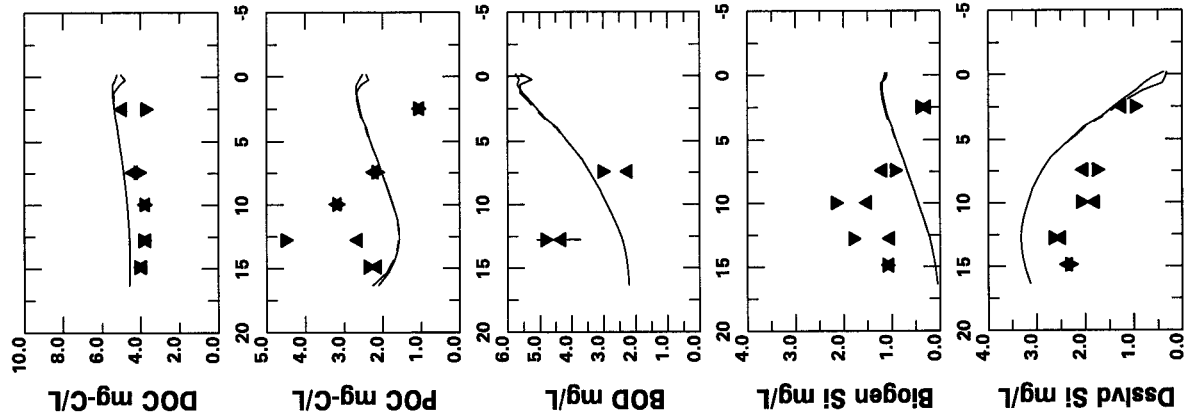
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

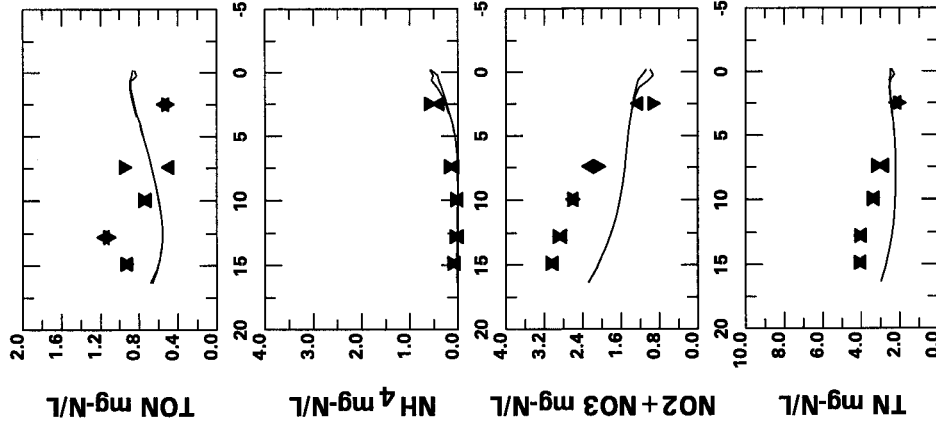
SURF BOT

▲ T Embayment

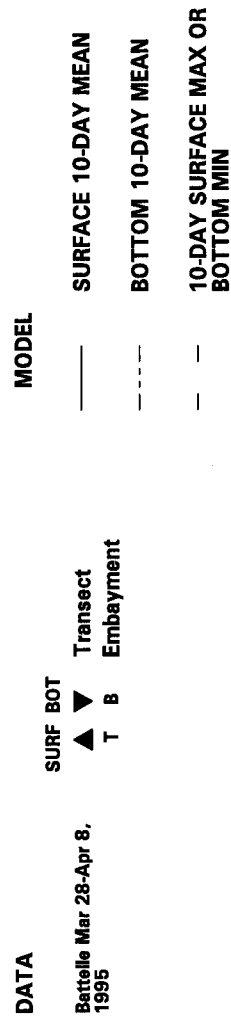
▼ B



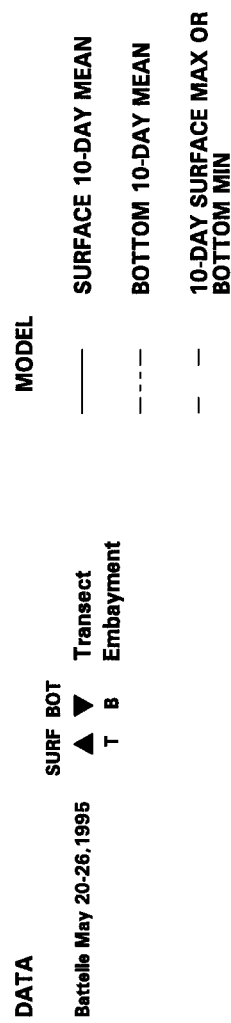
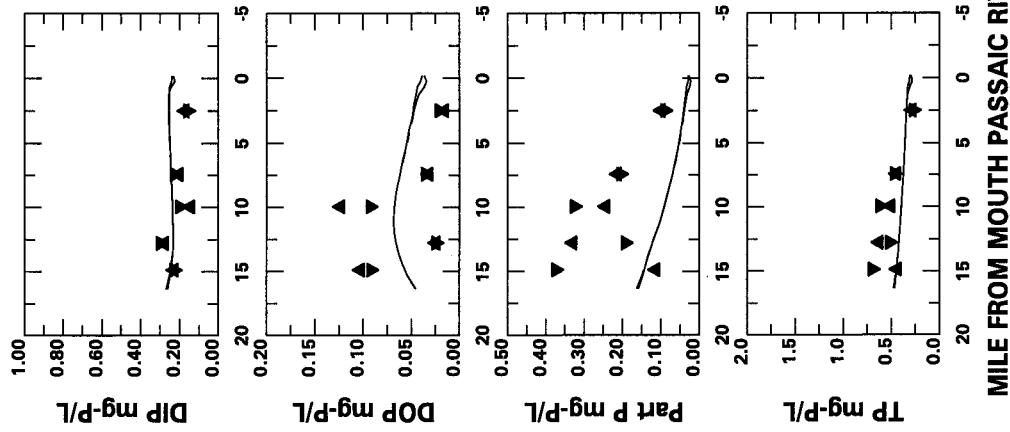
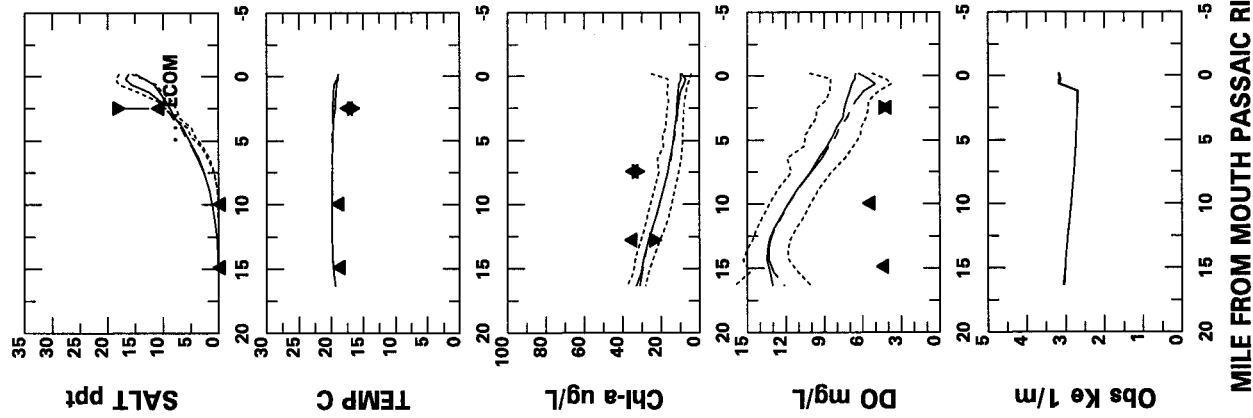
MILE FROM MOUTH PASSAIC RIVER



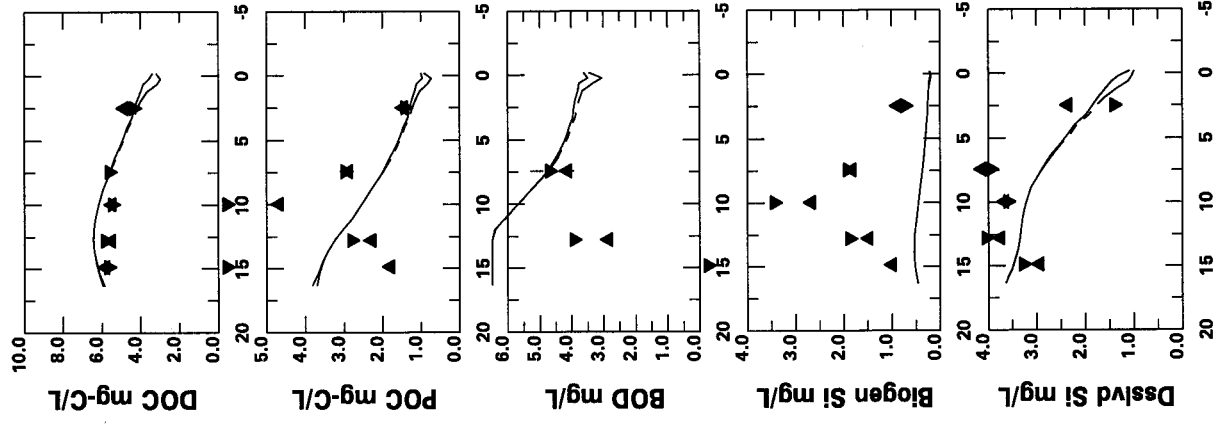
MILE FROM MOUTH PASSAIC RIVER



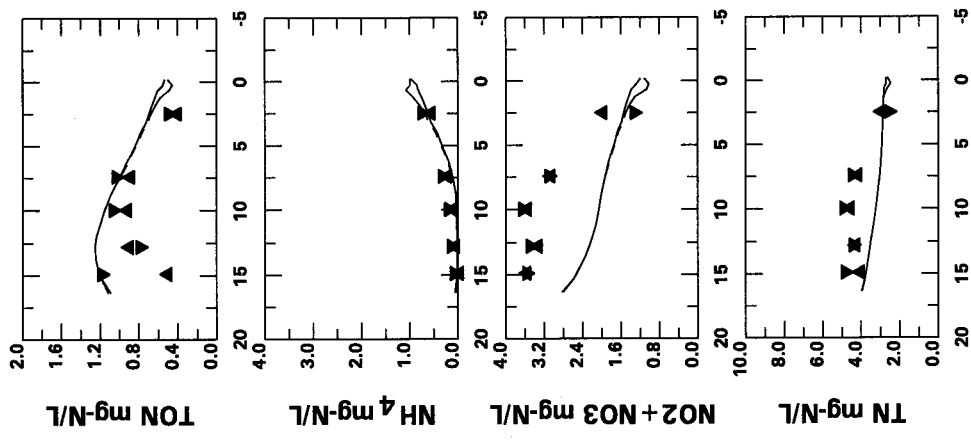
PASSAIC RIVER RUN 9495-BC3 SWEM REVISED CALIBRATION



PASSAIC RIVER RUN 9495-BC3 SWEM REVISED CALIBRATION



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

Battelle May 20-26, 1995

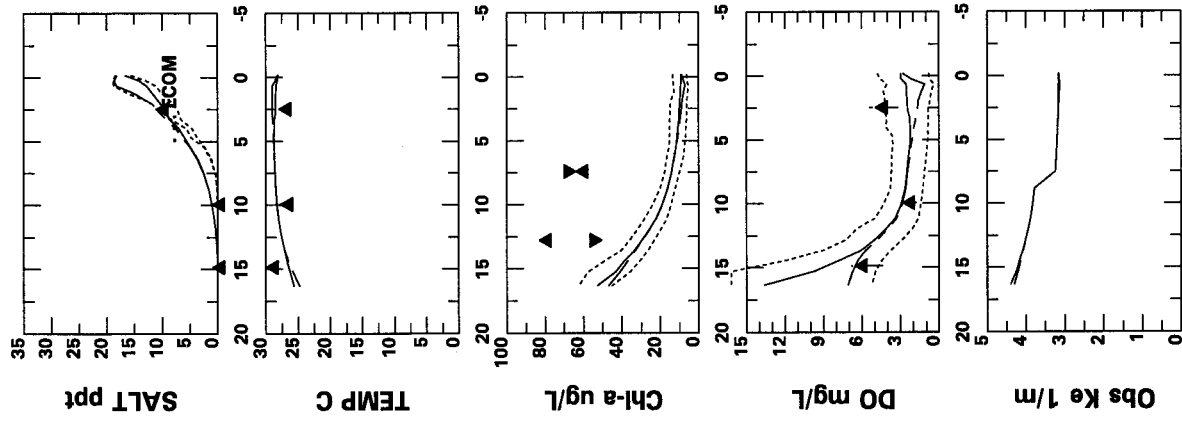
SURF BOT

▲ T Transect
▼ B Embayment

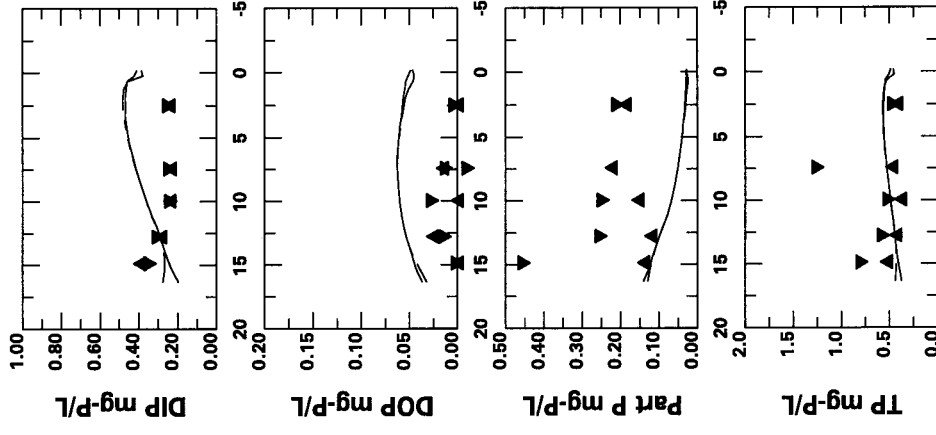
MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - 10-DAY SURFACE MAX OR BOTTOM MIN

PASSAIC RIVER RUN 9495-BC3
SWEM REVISED CALIBRATION



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

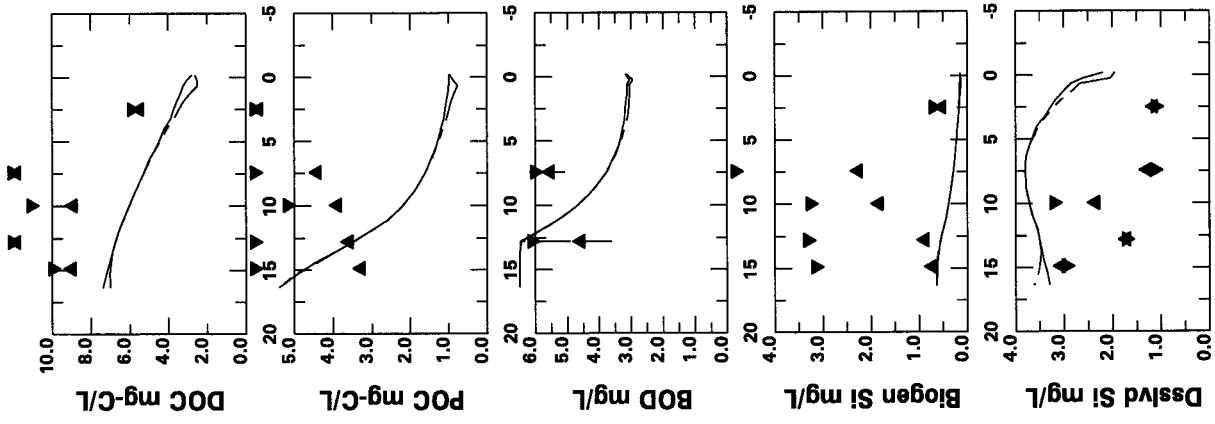
Battelle July 20-Aug 2, 1995

Transect T B Embayment

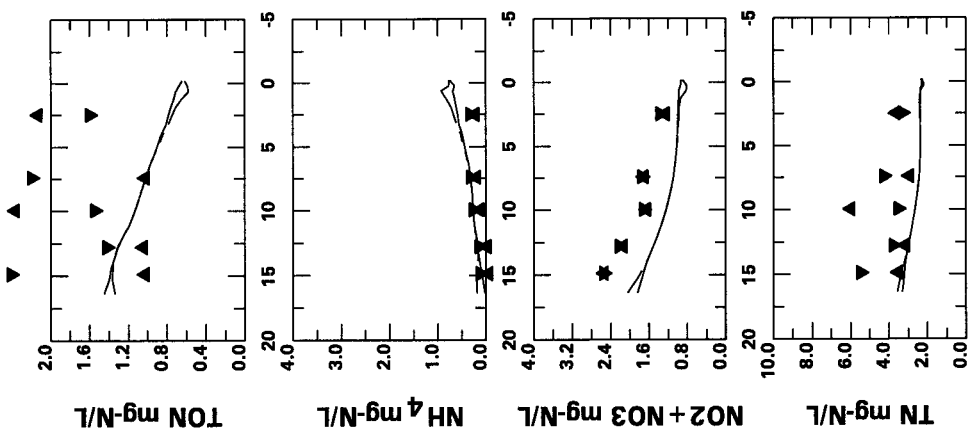
MODEL

SURFACE 10-DAY MEAN
 BOTTOM 10-DAY MEAN
 10-DAY SURFACE MAX OR BOTTOM MIN

PASSAIC RIVER RUN 9495-BC3 SWEM REVISED CALIBRATION



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

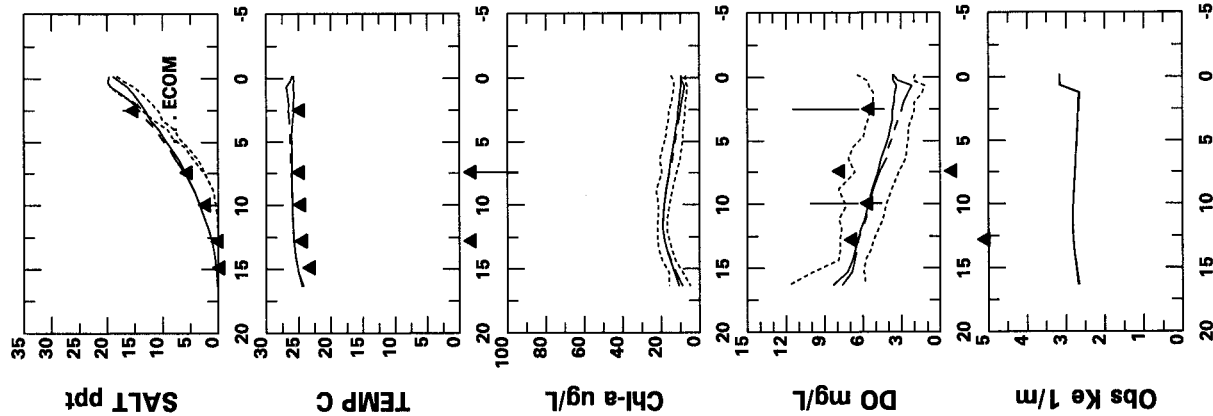
Battelle July 20-Aug 2, 1995

▲ Transect
 ▼ T
 B Embayment

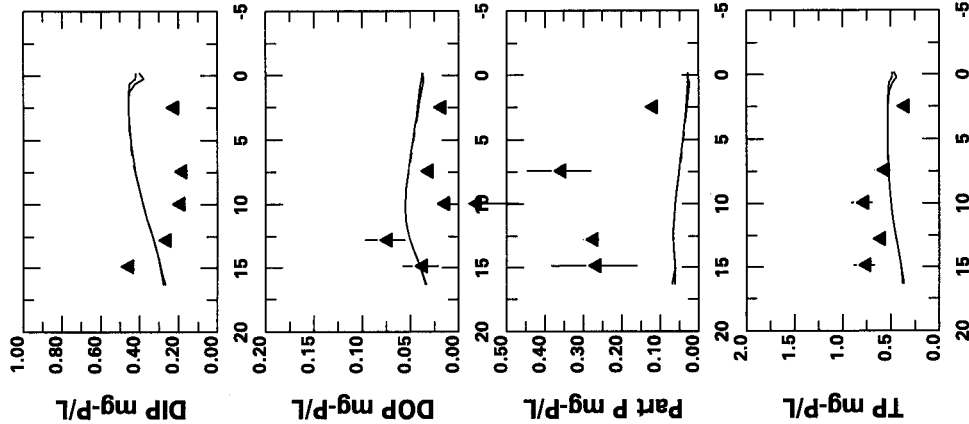
MODEL

— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

PASSAIC RIVER RUN 9495-BC3
SWEM REVISED CALIBRATION



MILE FROM MOUTH PASSAIC RIVER



MILE FROM MOUTH PASSAIC RIVER

DATA

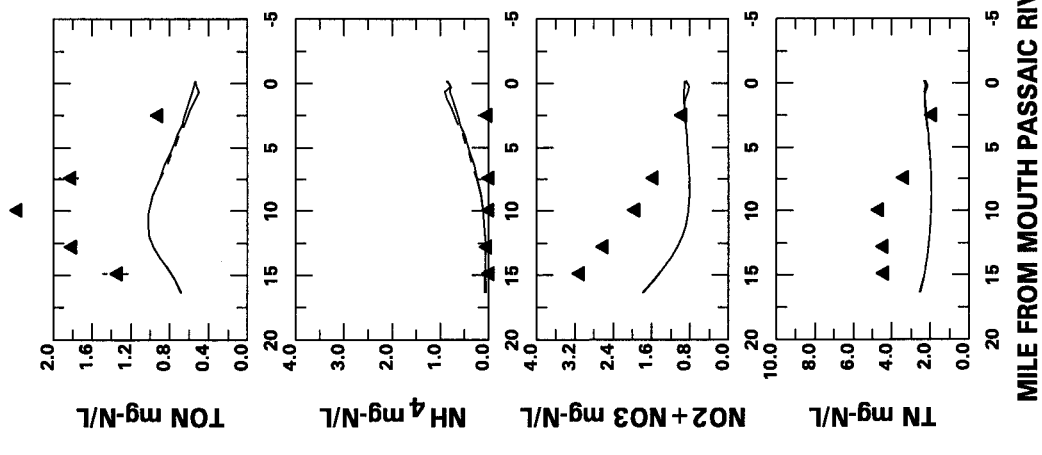
Battelle Aug 20-29, 1995

▲ Transect
 T B Embayment

MODEL

— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

PASSAIC RIVER RUN 9495-BC3 SWEM REVISED CALIBRATION



MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

DATA

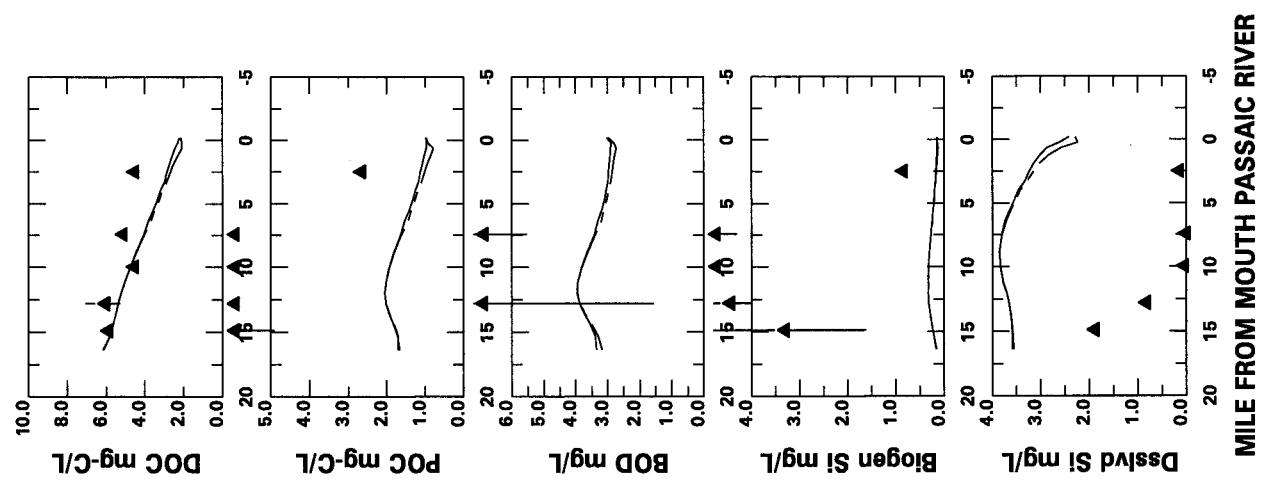
Battelle Aug 20-29, 1995

▲ Transect

▼ SURF BOT

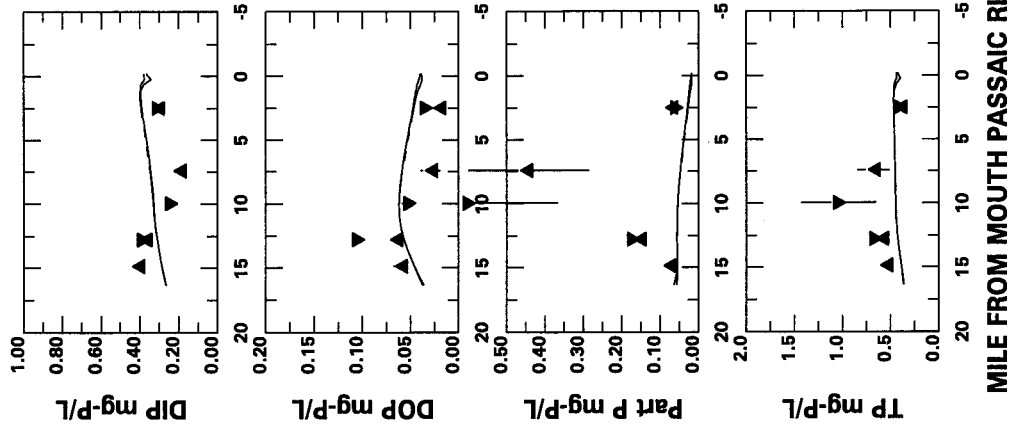
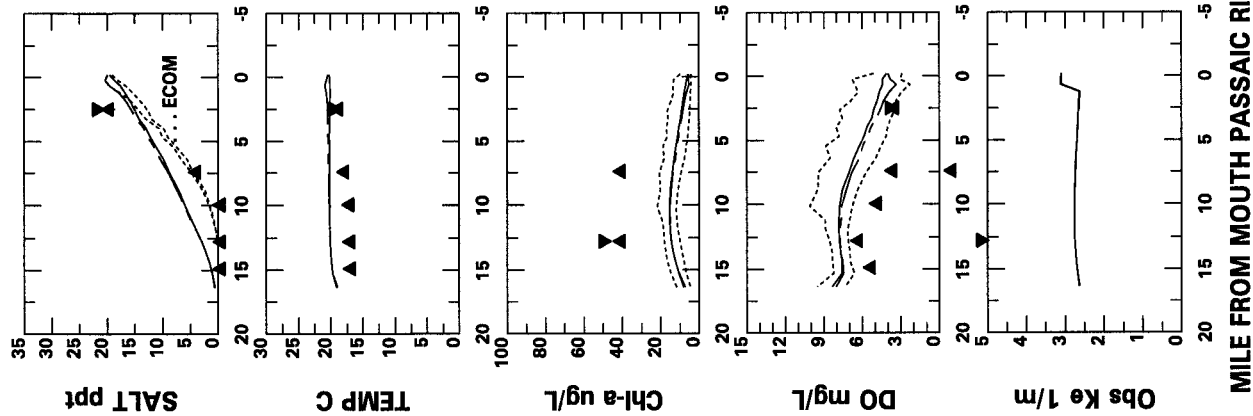
T Embayment

B



PASSAIC RIVER RUN 9495-BC3

SWEM REVISED CALIBRATION



DATA

Battelle Sep 23-Oct 2, 1995

SURF BOT

▲ Transect T
▼ Embayment B

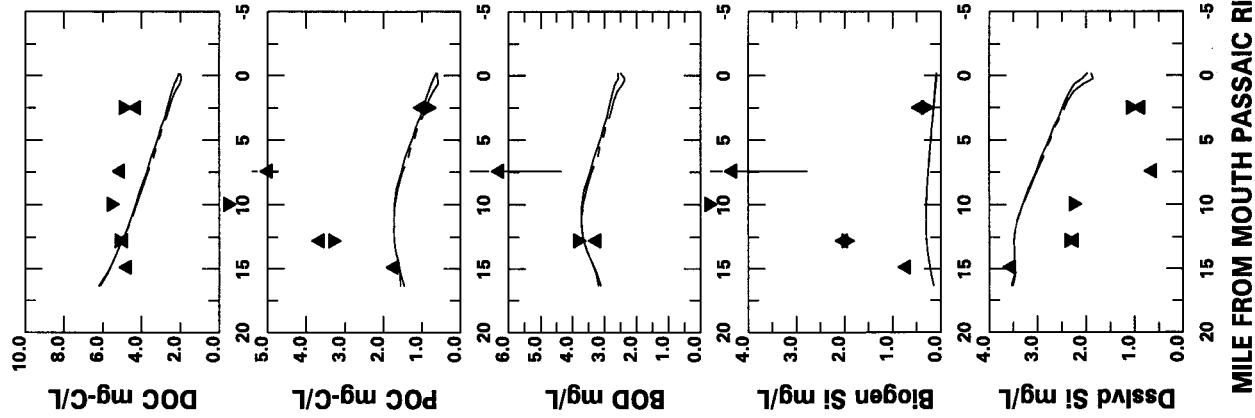
MODEL

— SURFACE 10-DAY MEAN

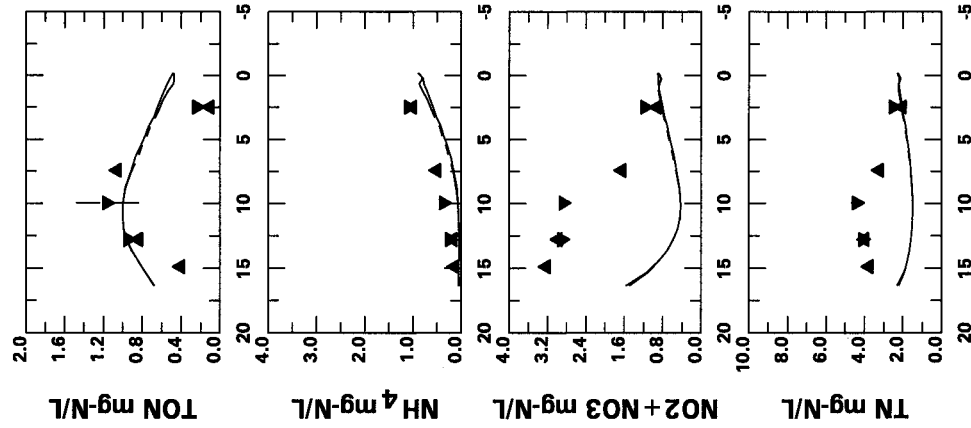
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

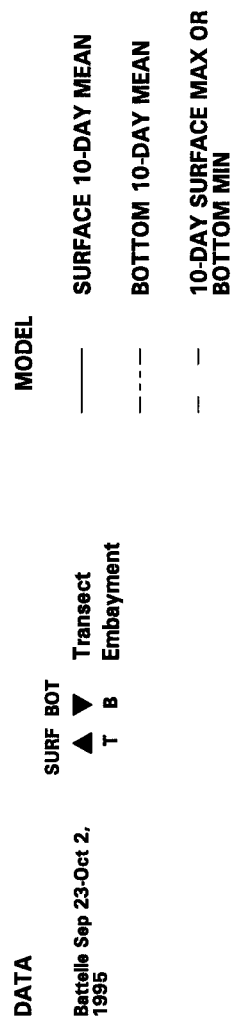
**PASSAIC RIVER RUN 9495-BC3
SWEM REVISED CALIBRATION**



MILE FROM MOUTH PASSAIC RIVER

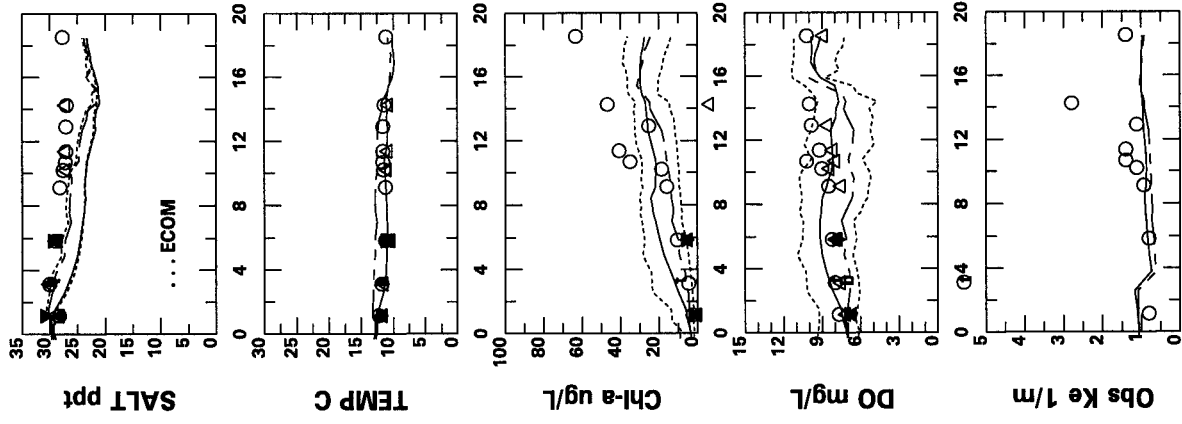


MILE FROM MOUTH PASSAIC RIVER

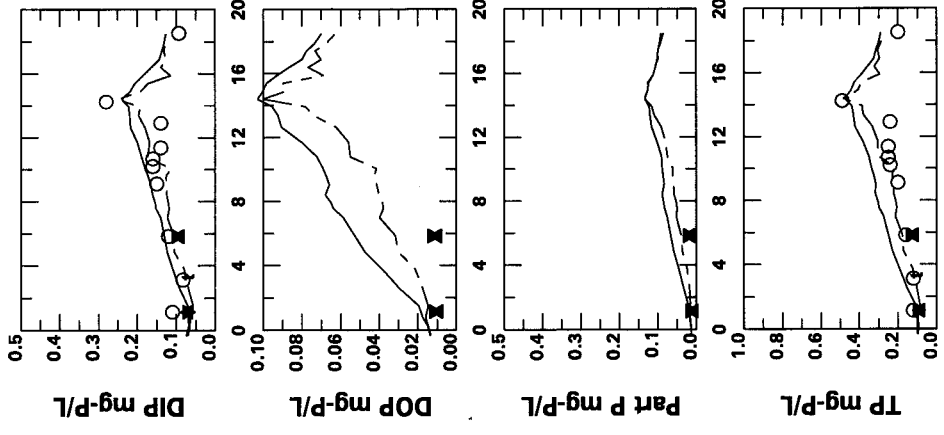


PASSAIC RIVER RUN 9495-BC3 SWEM REVISED CALIBRATION

**SPATIAL DISTRIBUTIONS OF
CONEY ISLAND, JAMAICA BAY**



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

Battelle Nov 12-17, 1994

NYCDEP 11/94

SURF BOT

▲ Transect

T B Embayment

○ Transect

t b Embayment

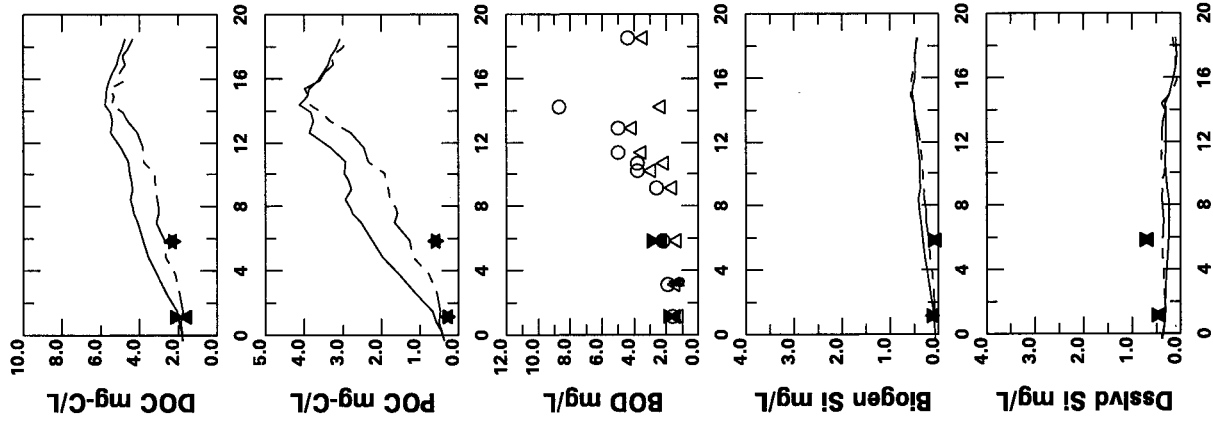
MODEL

— SURFACE 10-DAY MEAN

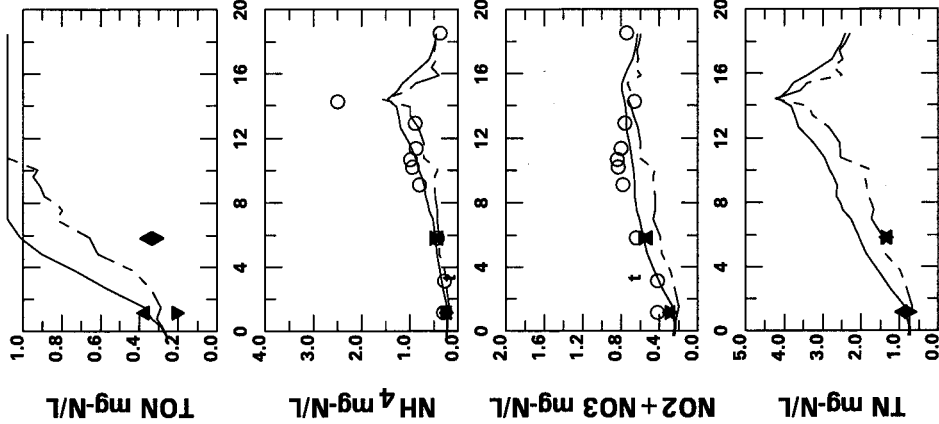
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT
 RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

Battelle Nov 12-17, 1994

NYCDEP 11/94

SURF BOT

Transect

Embayment

Transect

Embayment

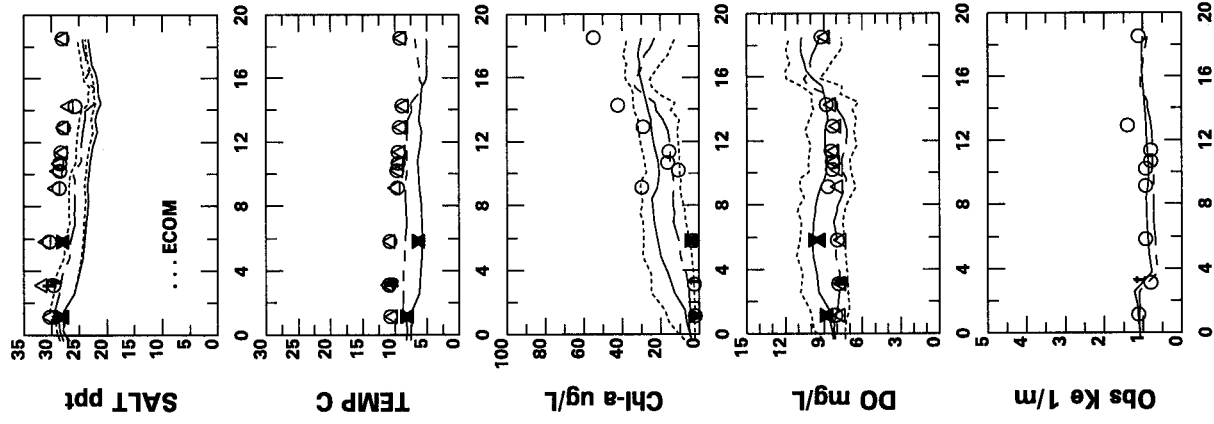
MODEL

SURFACE 10-DAY MEAN

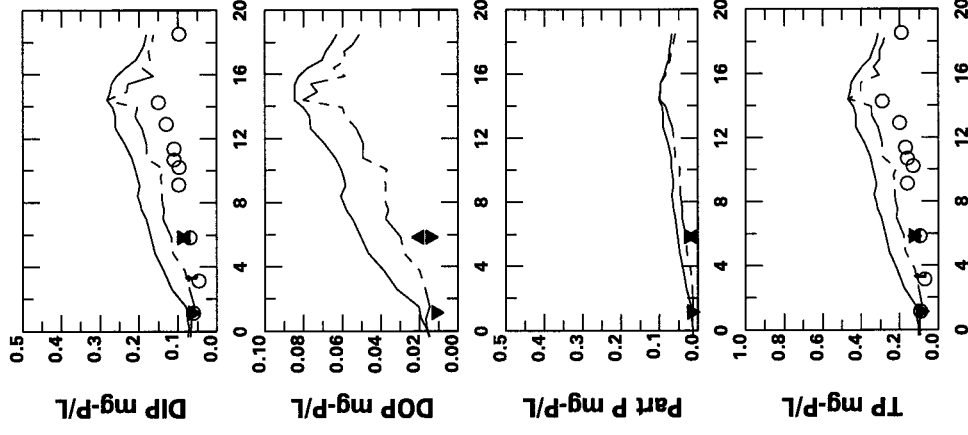
BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT
 RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

SURF BOT

Battelle Dec 10-16, 1994

Transect

T

Embayment

△

Transect

t

Embayment

NYCDEP 12/94

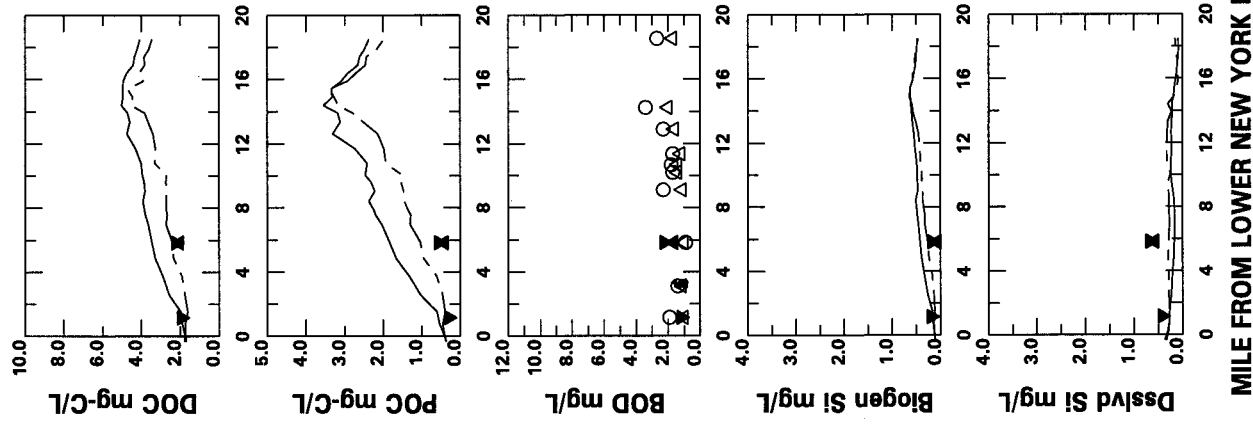
MODEL

— SURFACE 10-DAY MEAN

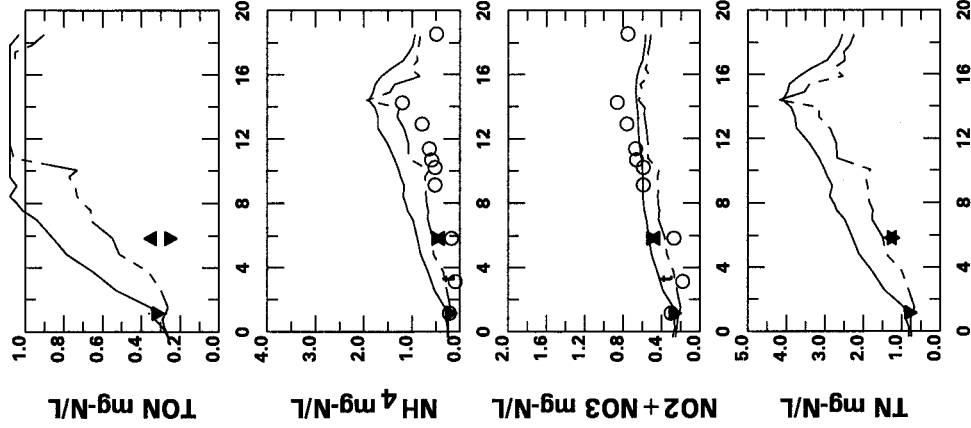
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

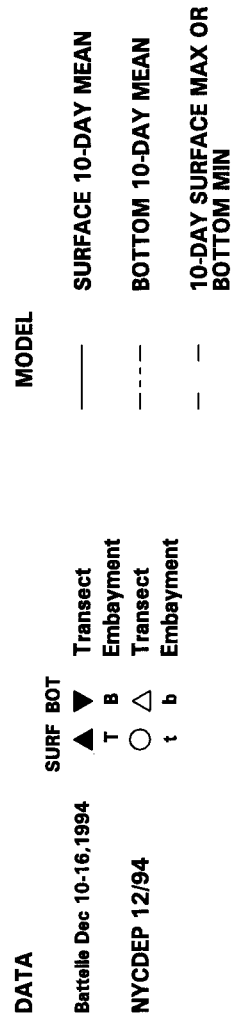
CONEY ISLAND JAMAICA BAY TRANSECT RUN 9495-BC3: SWEM REVISED CALIBRATION



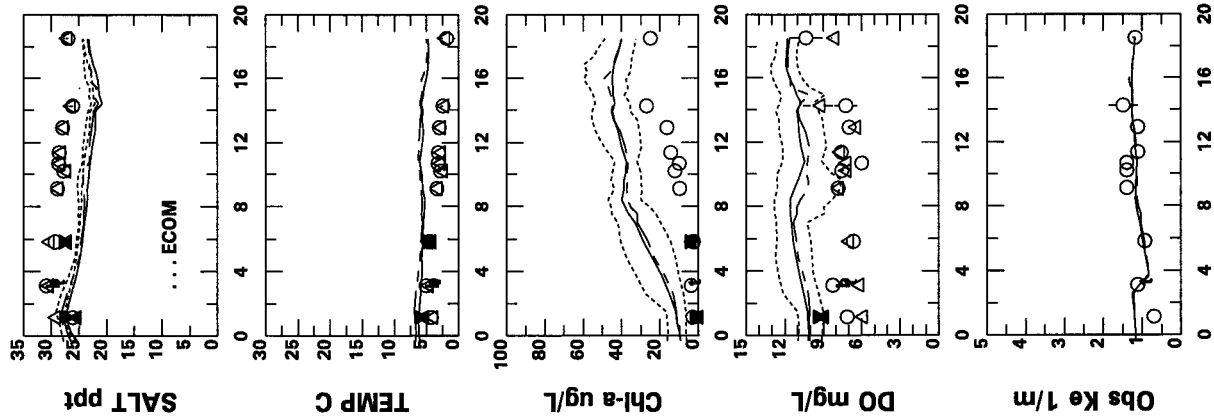
MILE FROM LOWER NEW YORK BAY



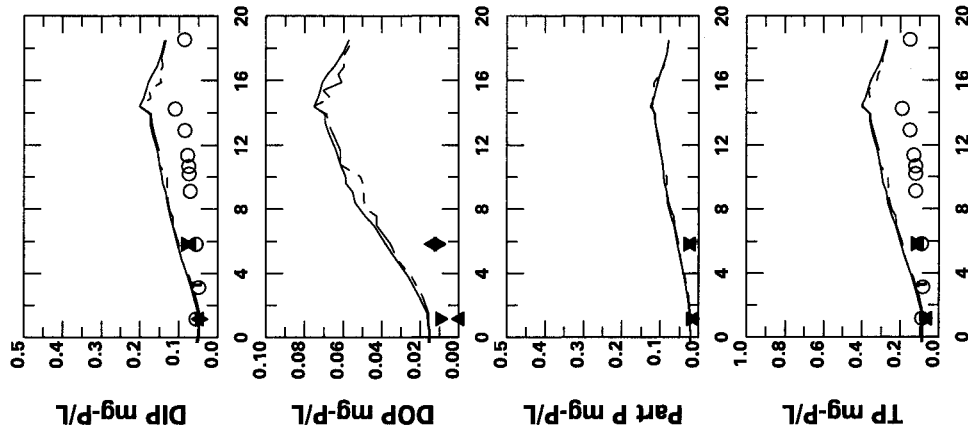
MILE FROM LOWER NEW YORK BAY



CONEY ISLAND JAMAICA BAY TRANSECT RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

Battelle Jan 23-31, 1995

SURF BOT

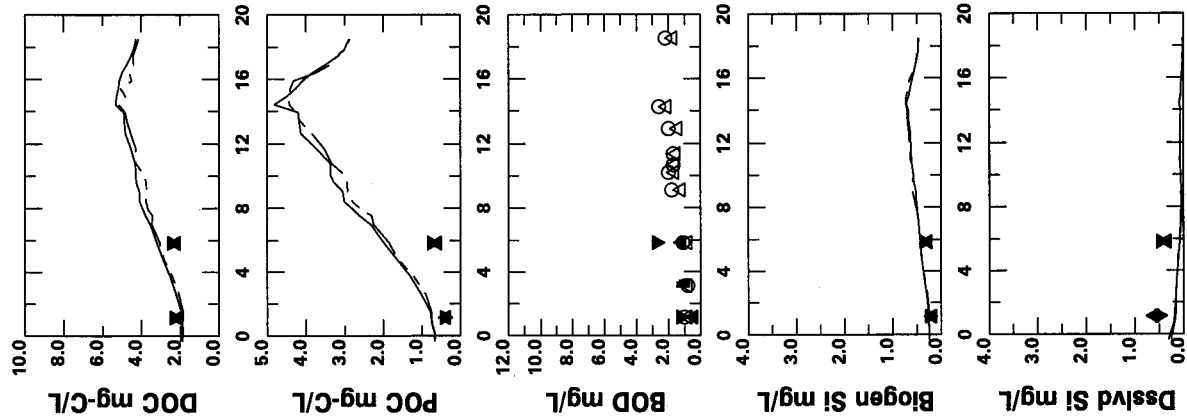
▲ Transect
T B Embayment
○ Transect
t b Embayment

NYCDEP 1/95

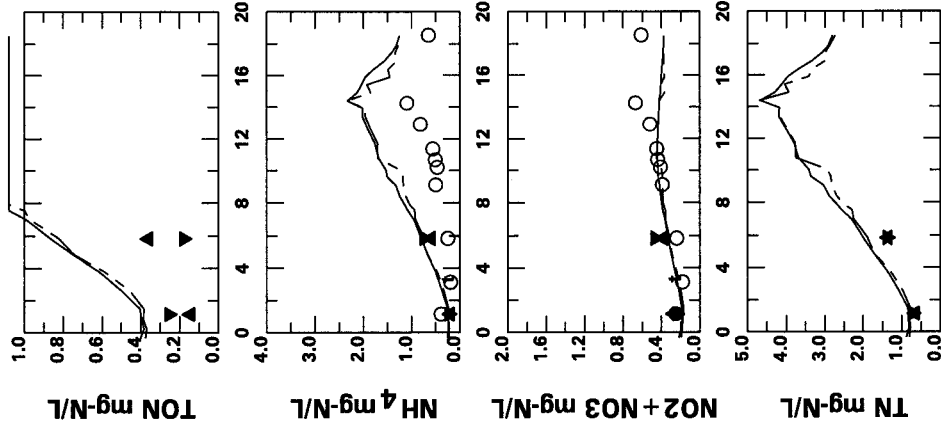
MODEL

— SURFACE 10-DAY MEAN
--- BOTTOM 10-DAY MEAN
- - 10-DAY SURFACE MAX OR BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

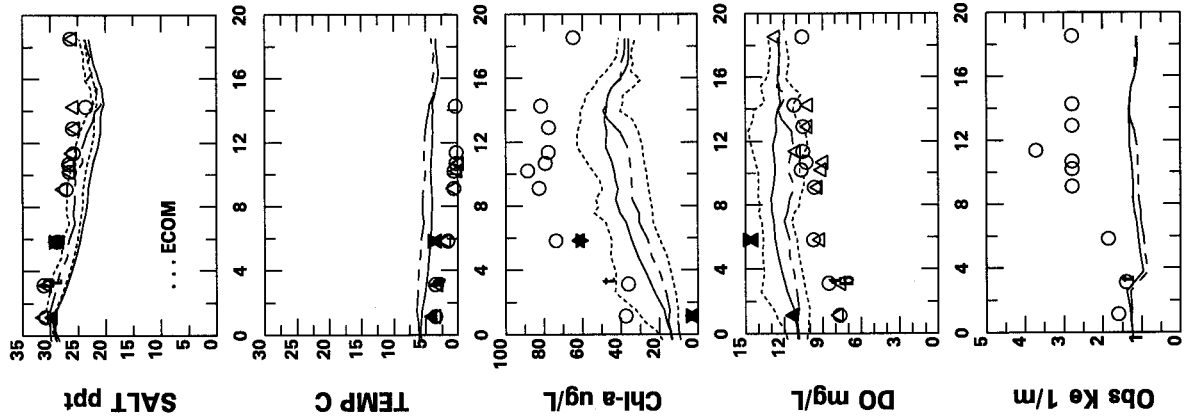
SURF BOT

Battelle Jan 23-31, 1995

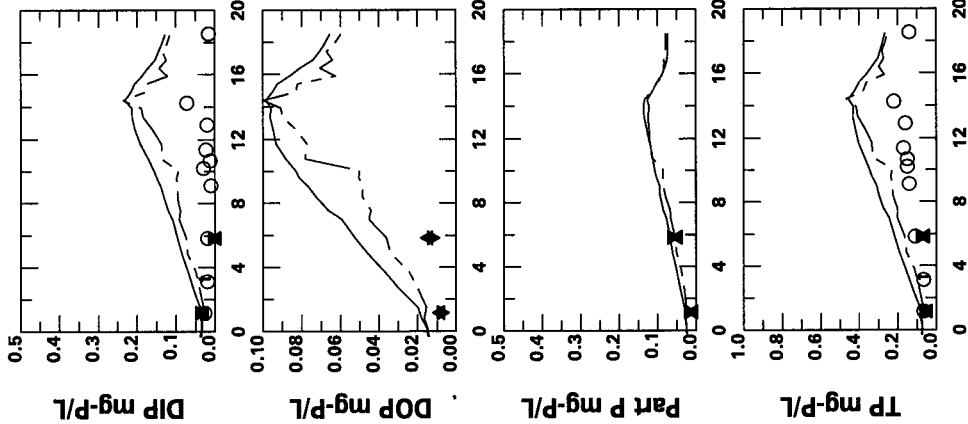
NYCDEP 1/95

MODEL

CONEY ISLAND JAMAICA BAY TRANSECT RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

SURF BOT

Battelle Feb 22-Mar 1, 1995

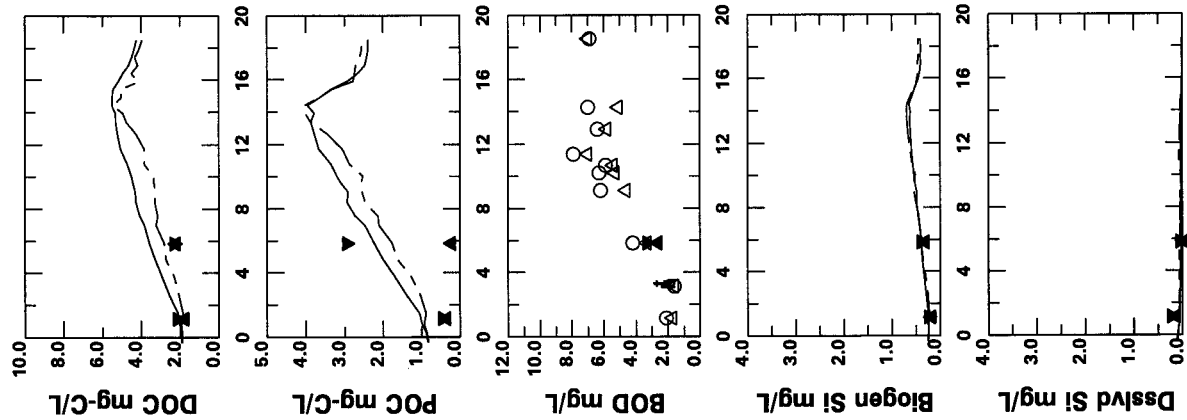
NYCDEP 2/95

Transect T Embayment
Transect t Embayment

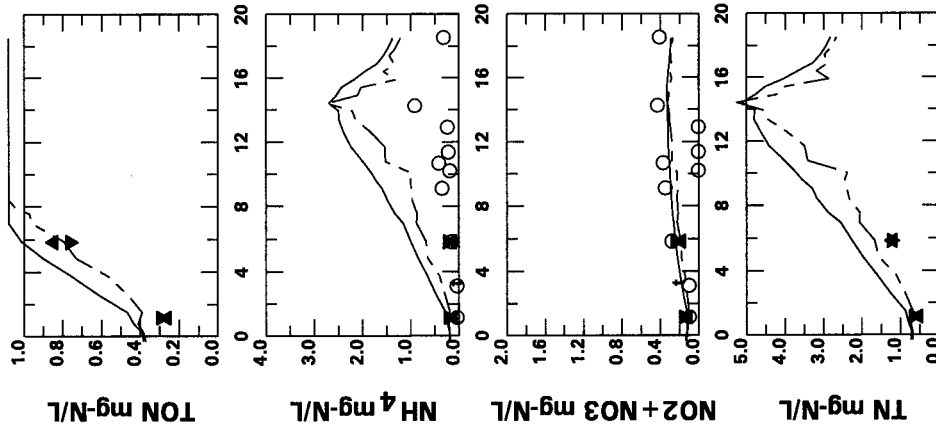
MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

Battelle Feb 22-Mar 1, 1995

NYCDEP 2/95

SURF BOT

▲ Transect
T B Embayment
○ Transect
t b Embayment

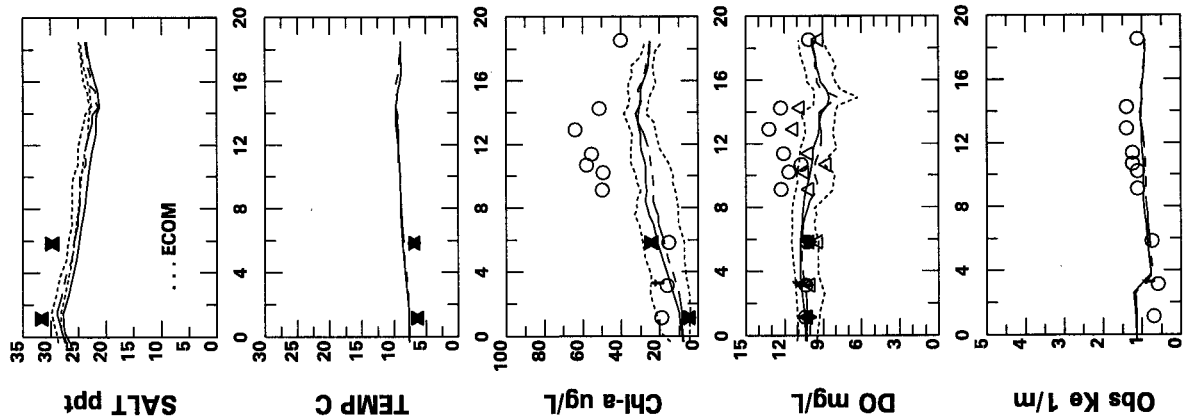
MODEL

— SURFACE 10-DAY MEAN

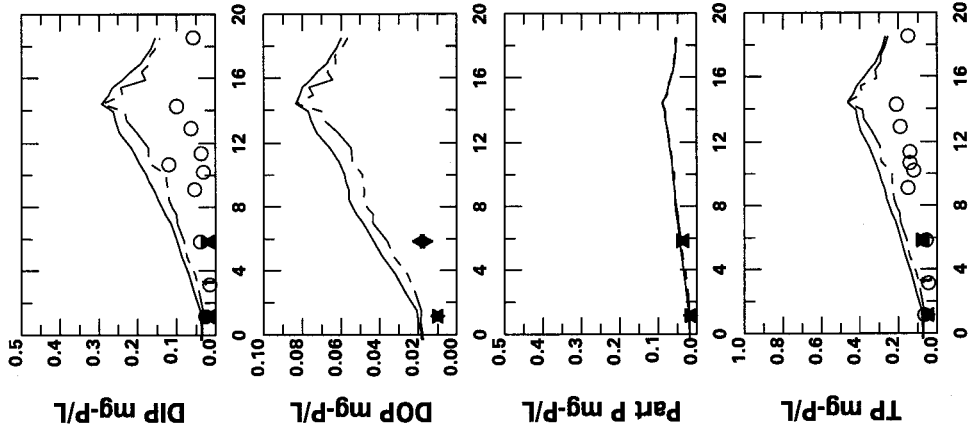
- - - BOTTOM 10-DAY MEAN

- - 10-DAY SURFACE MAX OR
BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

Battelle Mar 28-Apr 8, 1995

NYCDEP 4/95

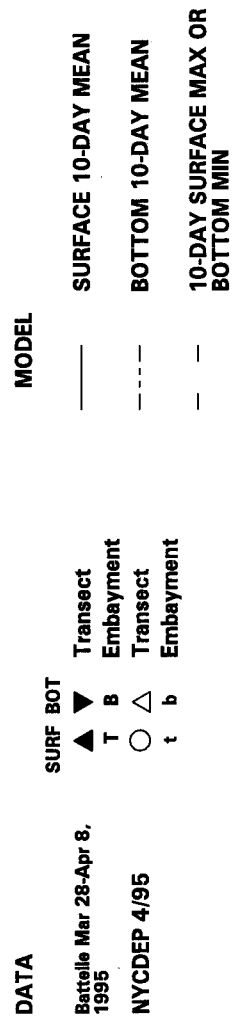
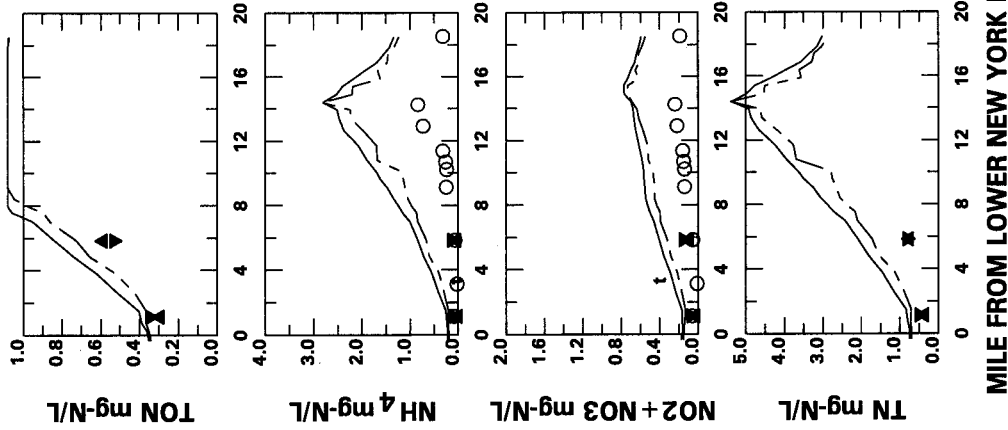
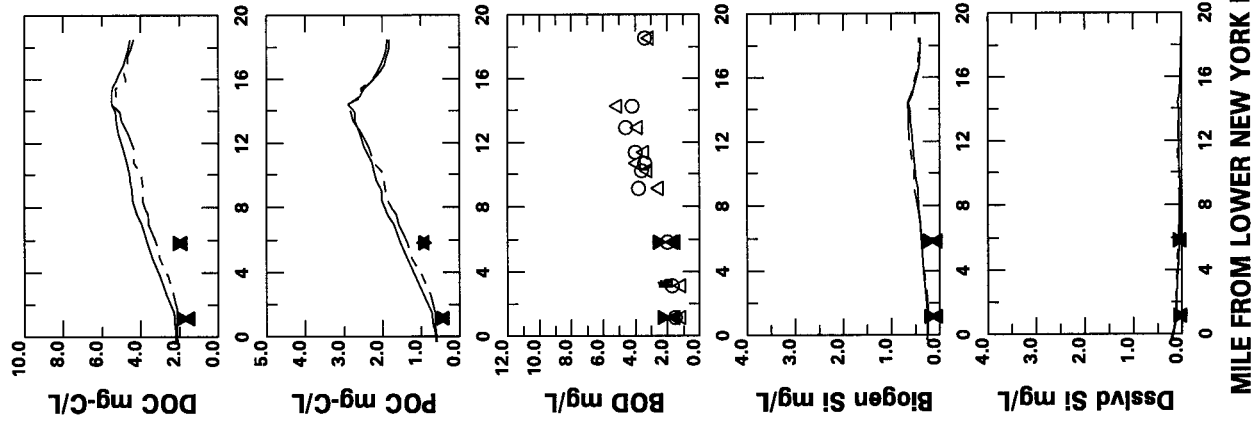
SURF BOT

▲ Transect
T B Embayment
○ Transect
t b Embayment

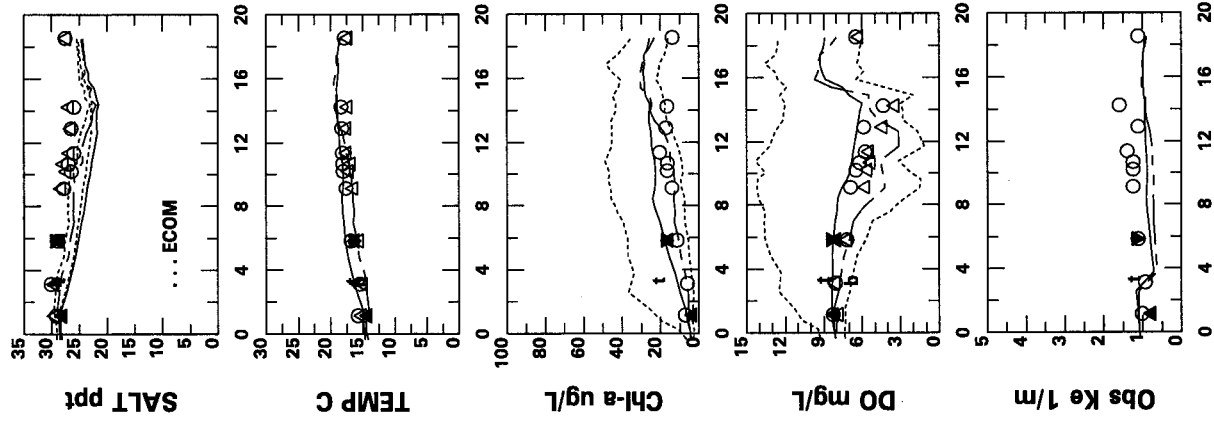
MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

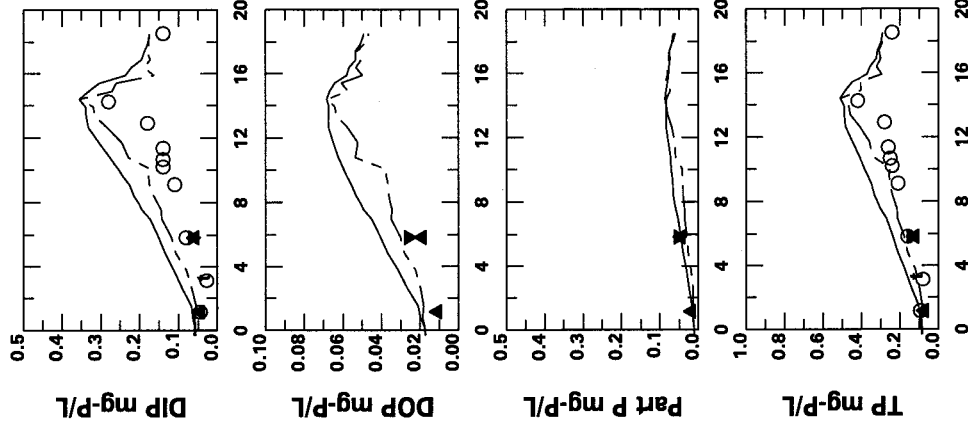
CONEY ISLAND JAMAICA BAY TRANSECT RUN 9495-BC3: SWEM REVISED CALIBRATION



**CONEY ISLAND JAMAICA BAY TRANSECT
RUN 9495-BC3: SWEM REVISED CALIBRATION**



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

SURF BOT

Battelle May 20-26, 1995

Transect

T

Embayment

NYCDEP 5/95

O

Transect

t

Embayment

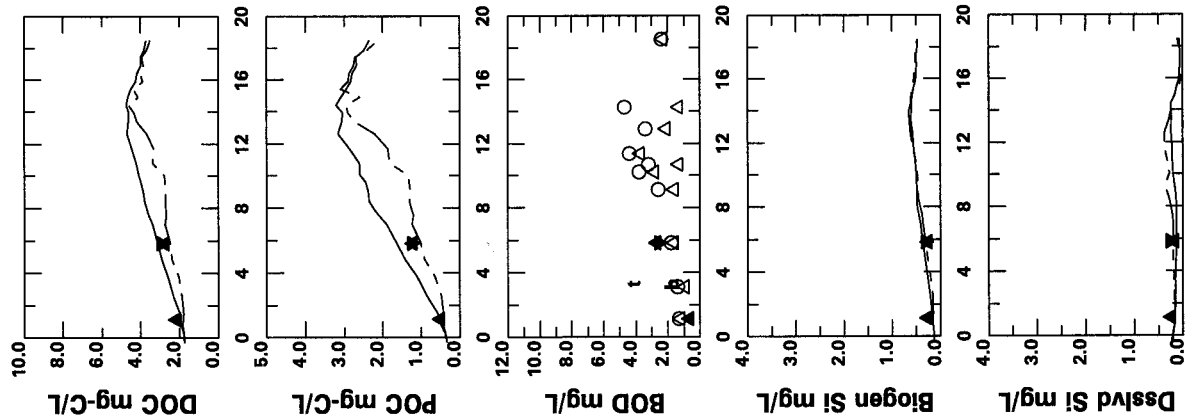
MODEL

SURFACE 10-DAY MEAN

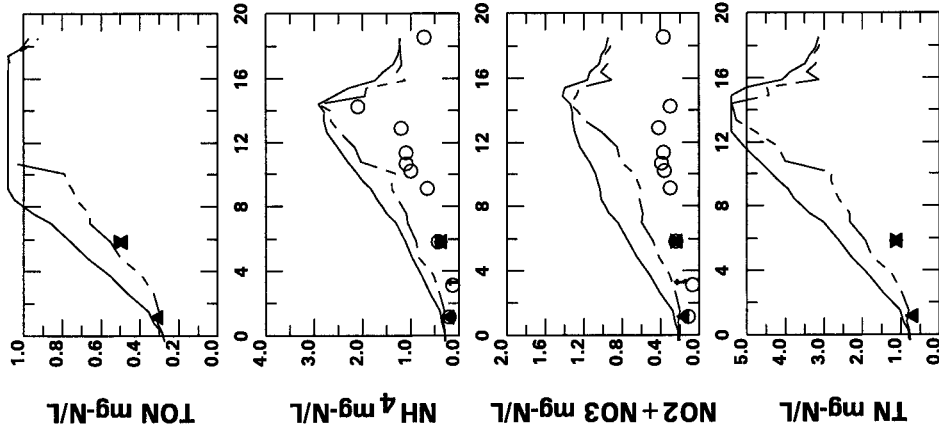
BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR
BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT
RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

Battelle May 20-26, 1995

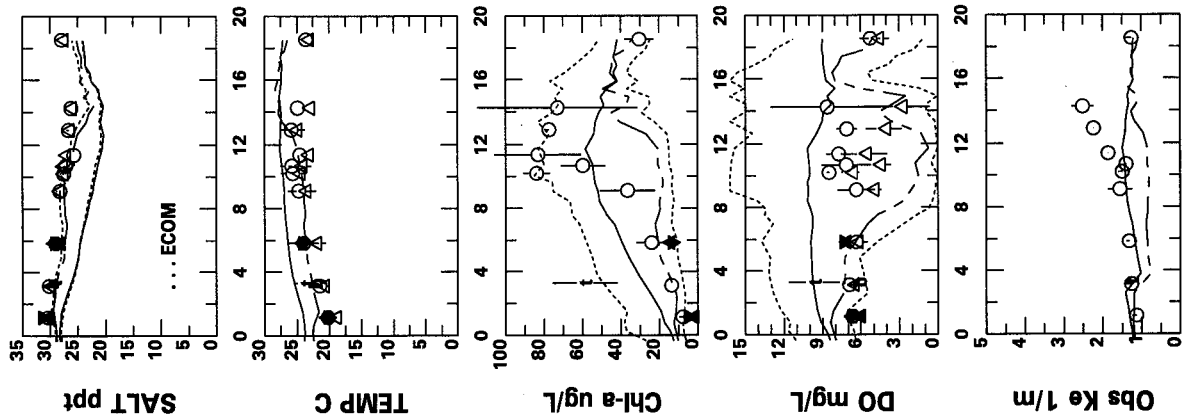
NYCDEP 5/95

▲ Transect
 T B Embayment
 ○ Transect
 t b Embayment

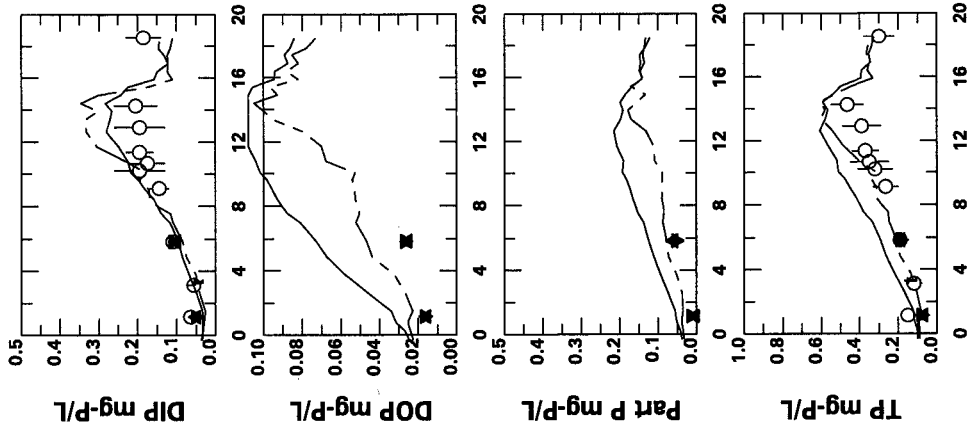
MODEL

— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

Battelle July 20-Aug 2, 1995

NYCDEP 7/95

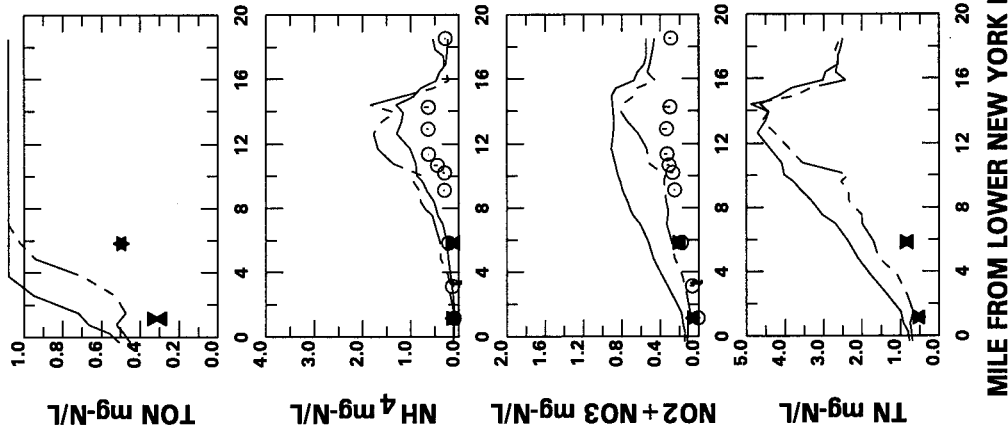
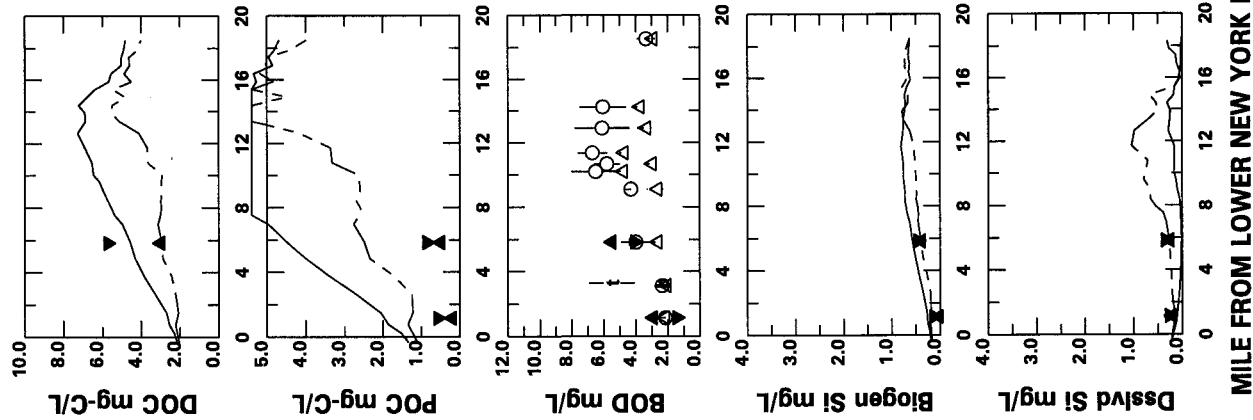
SURF BOT

▲ Transect
T B Embayment
○ Transect
t b Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - 10-DAY SURFACE MAX OR BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2, 1995
 NYCDEP 7/95

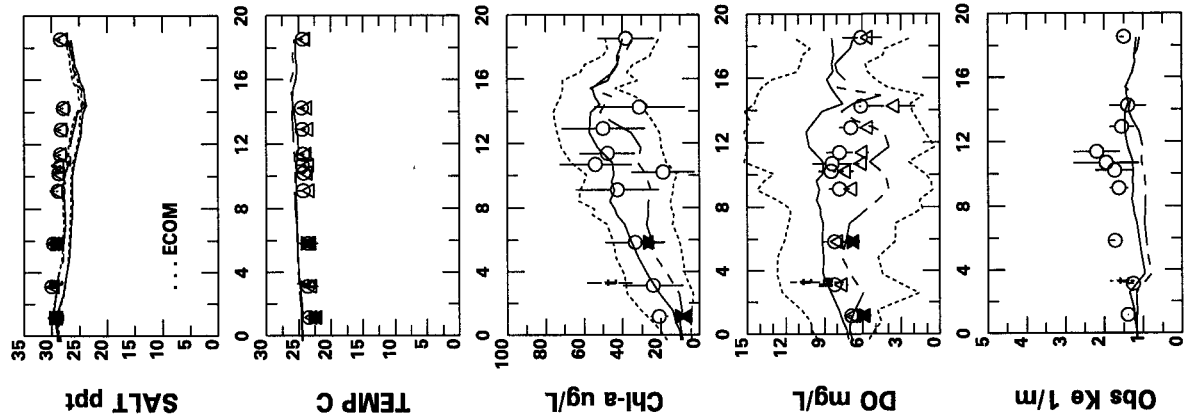
SURF BOT

▲ Transect
 T Embayment
 ○ Transect
 t Embayment

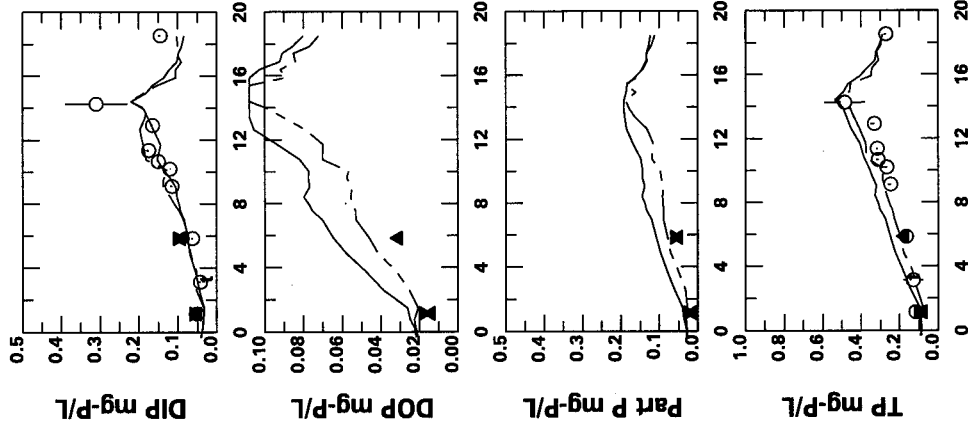
MODEL

— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

Battelle Aug 20-29, 1995

SURF BOT

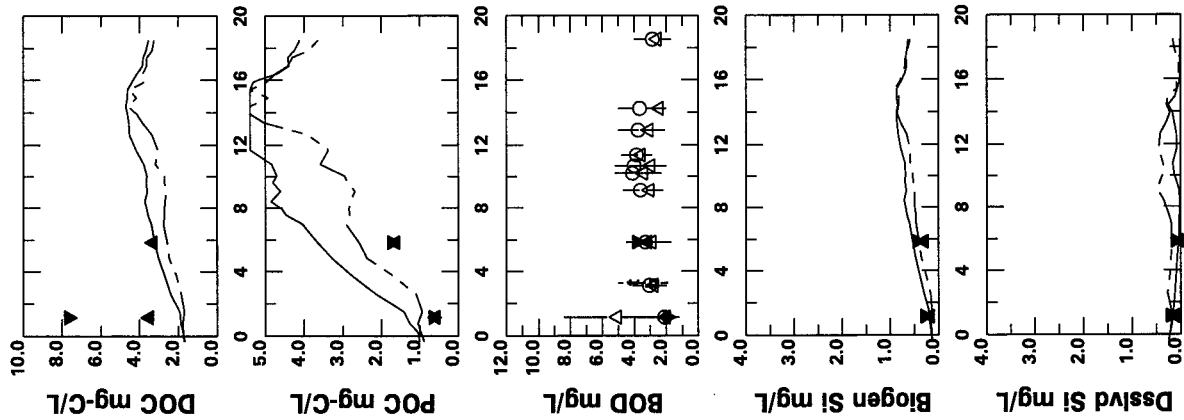
▲ Transect
T B Embayment
○ Transect
t b Embayment

NYCDEP 8/95

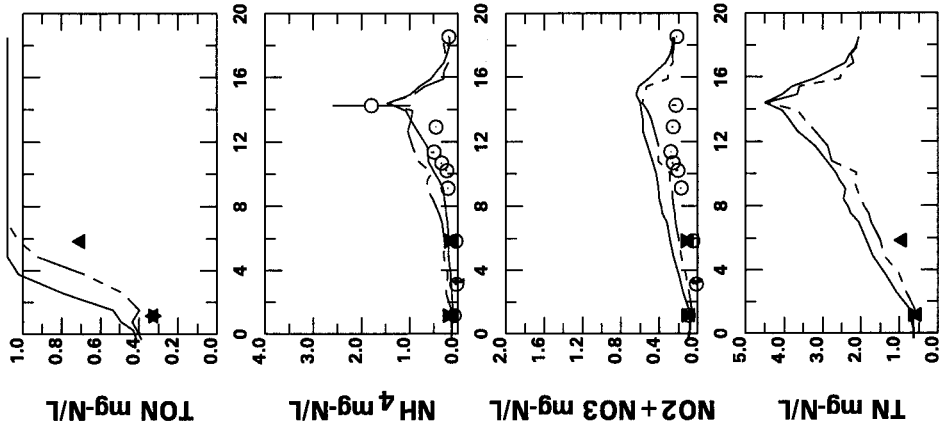
MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

SURF BOT

Battelle Aug 20-29, 1995

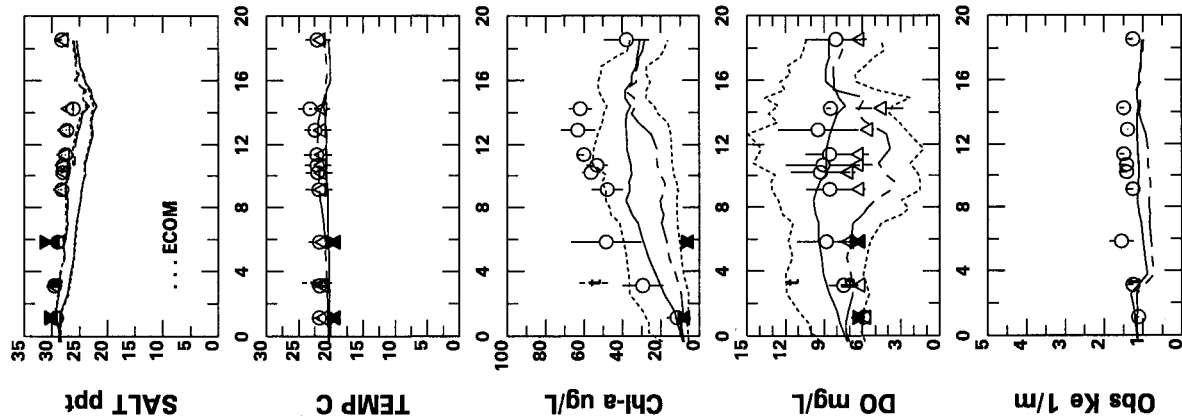
Transect
T B Embayment
Transect
t b Embayment

NYCDEP 8/95

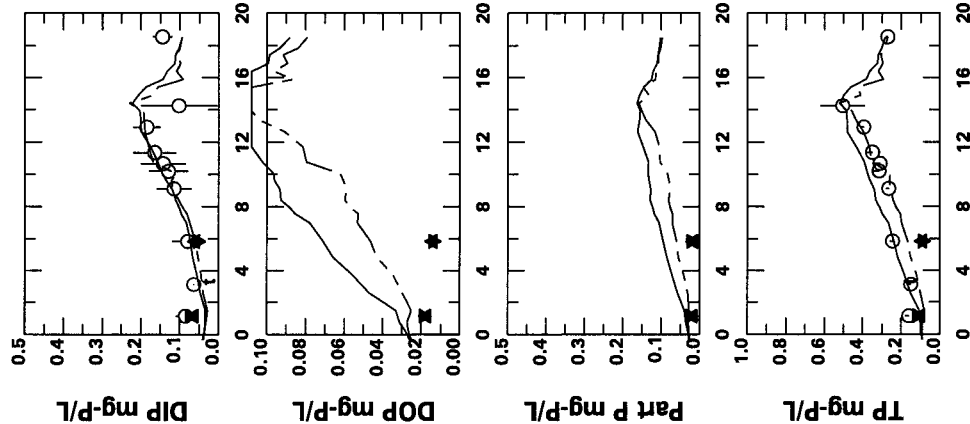
MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT
RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

Battelle Sep 23-Oct 2, 1995

NYCDEP 9/95

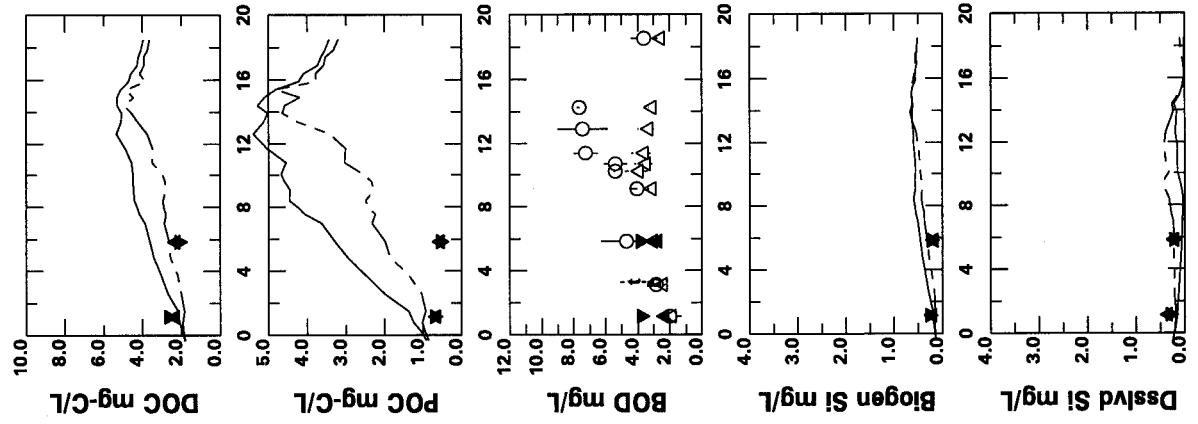
SURF BOT

▲ Transect
T B Embayment
○ Transect
t b Embayment

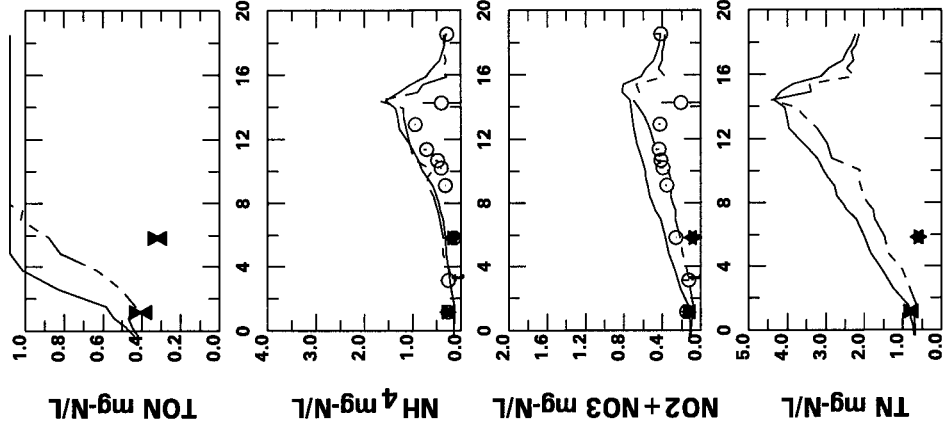
MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

CONEY ISLAND JAMAICA BAY TRANSECT
RUN 9495-BC3: SWEM REVISED CALIBRATION



MILE FROM LOWER NEW YORK BAY



MILE FROM LOWER NEW YORK BAY

DATA

Battelle Sep 23-Oct 2, 1995
 NYCDEP 9/95

SURF BOT

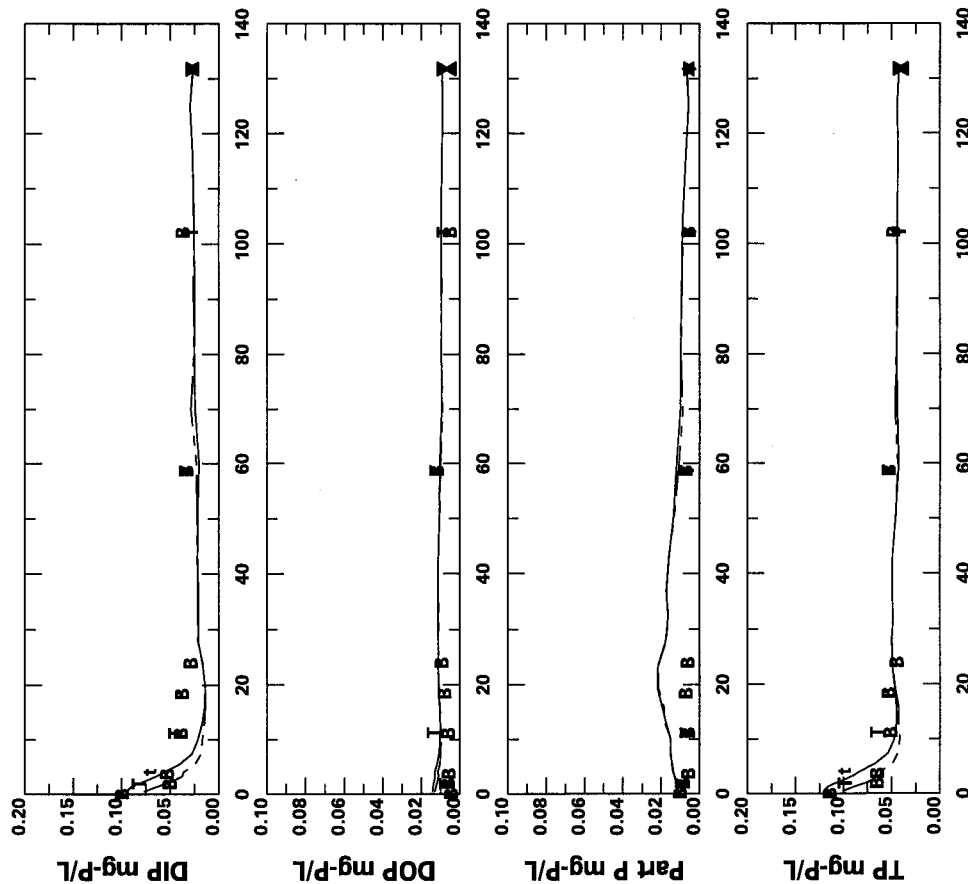
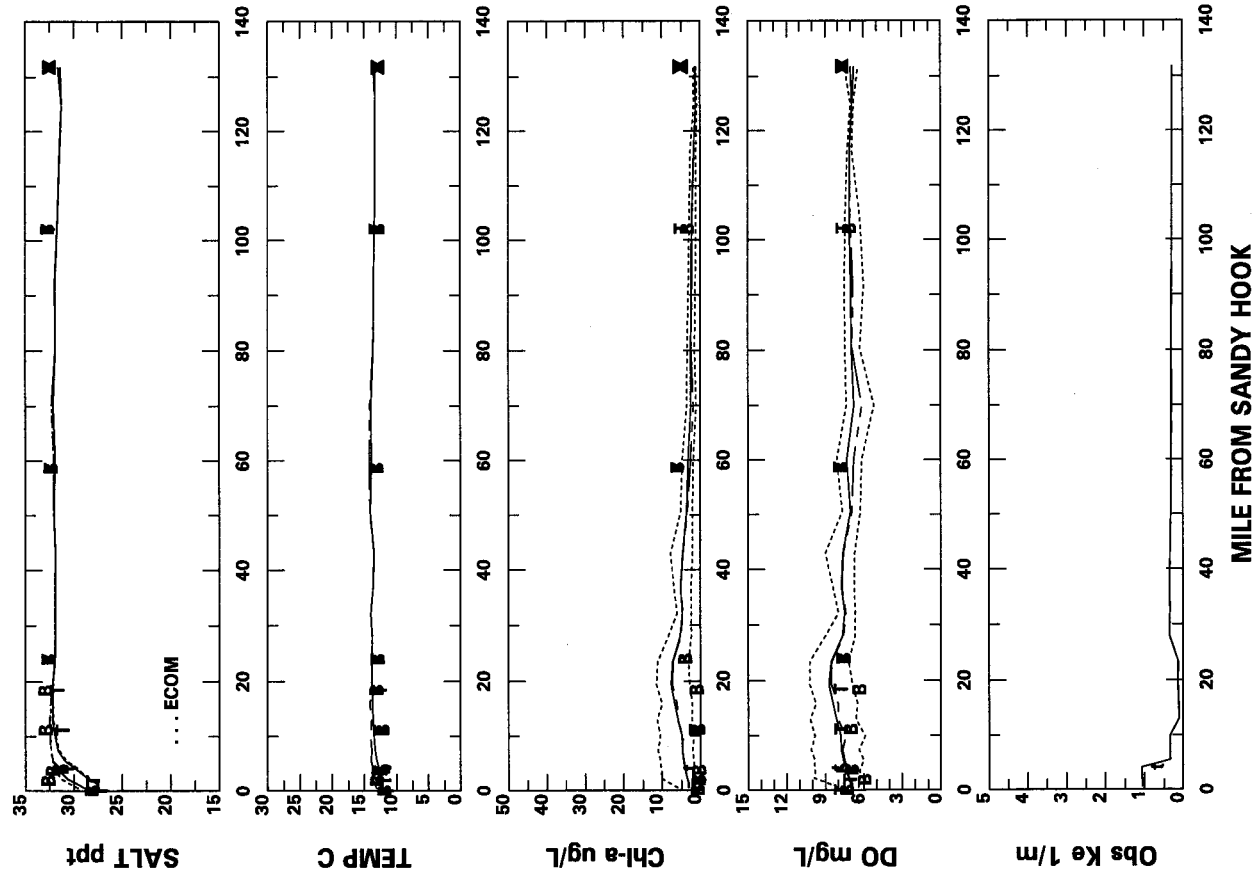
▲ T B
 ▼ T B
 ○ t b

MODEL

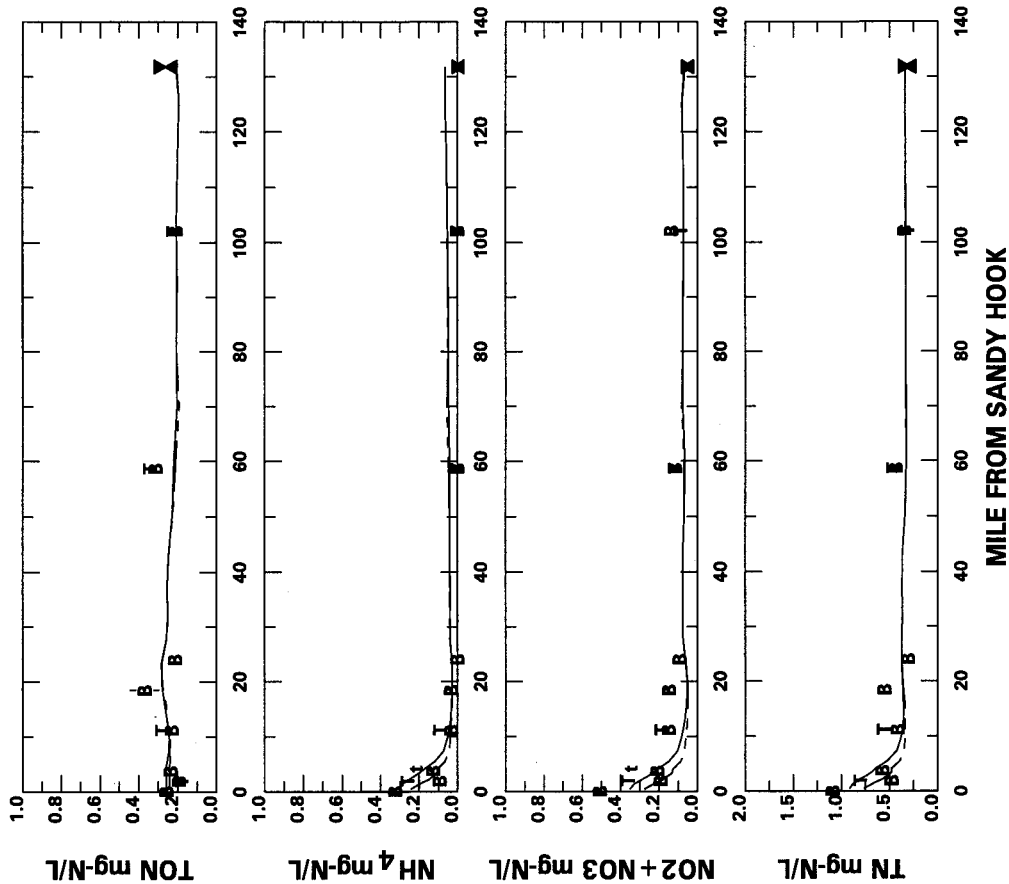
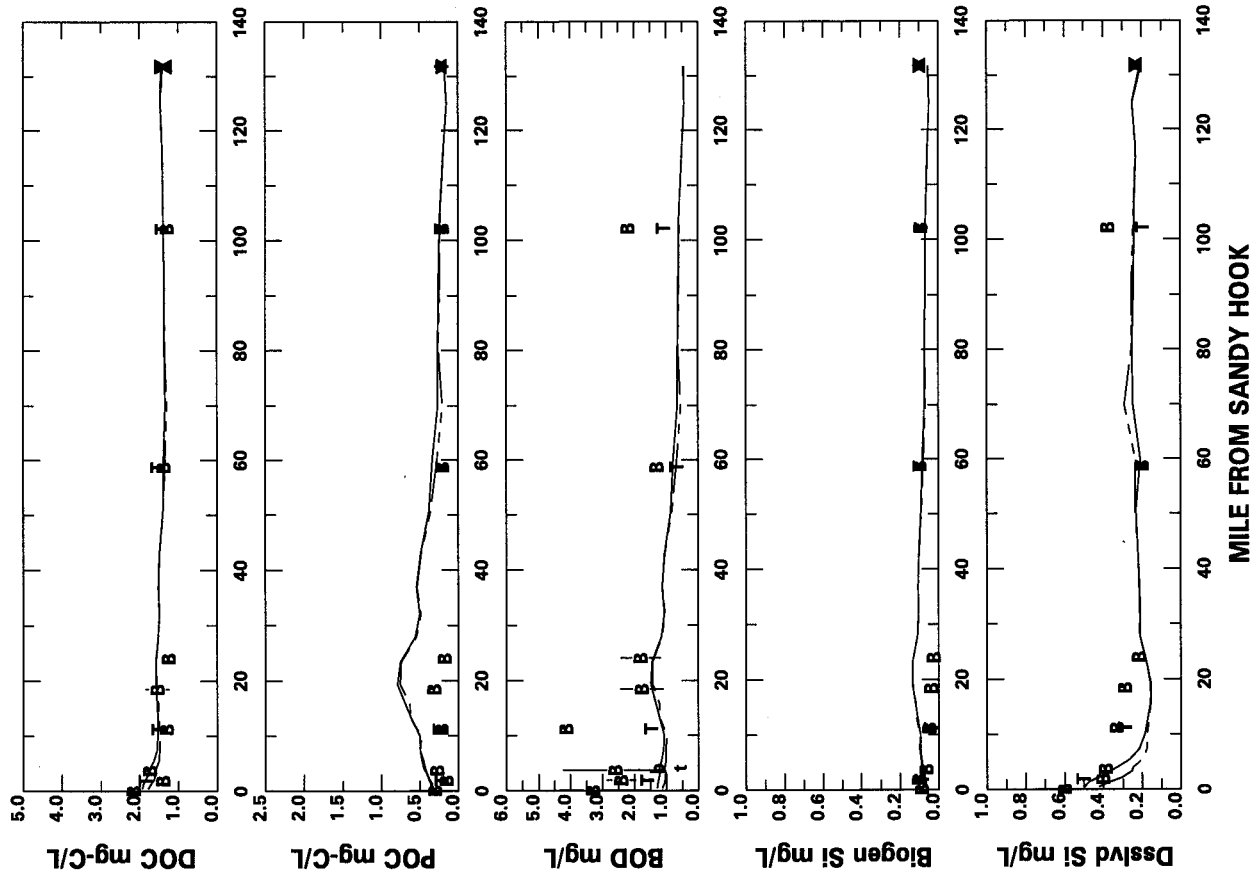
— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

**CONEY ISLAND JAMAICA BAY TRANSECT
 RUN 9495-BC3: SWEM REVISED CALIBRATION**

**SPATIAL DISTRIBUTIONS OF
N.Y. BIGHT
EAST-WEST TRANSECT 1**



NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Nov 12-17, 1994

NYCDEP 11/94

SURF BOT

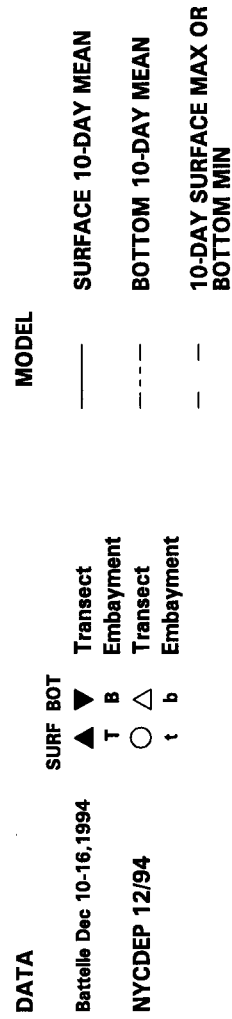
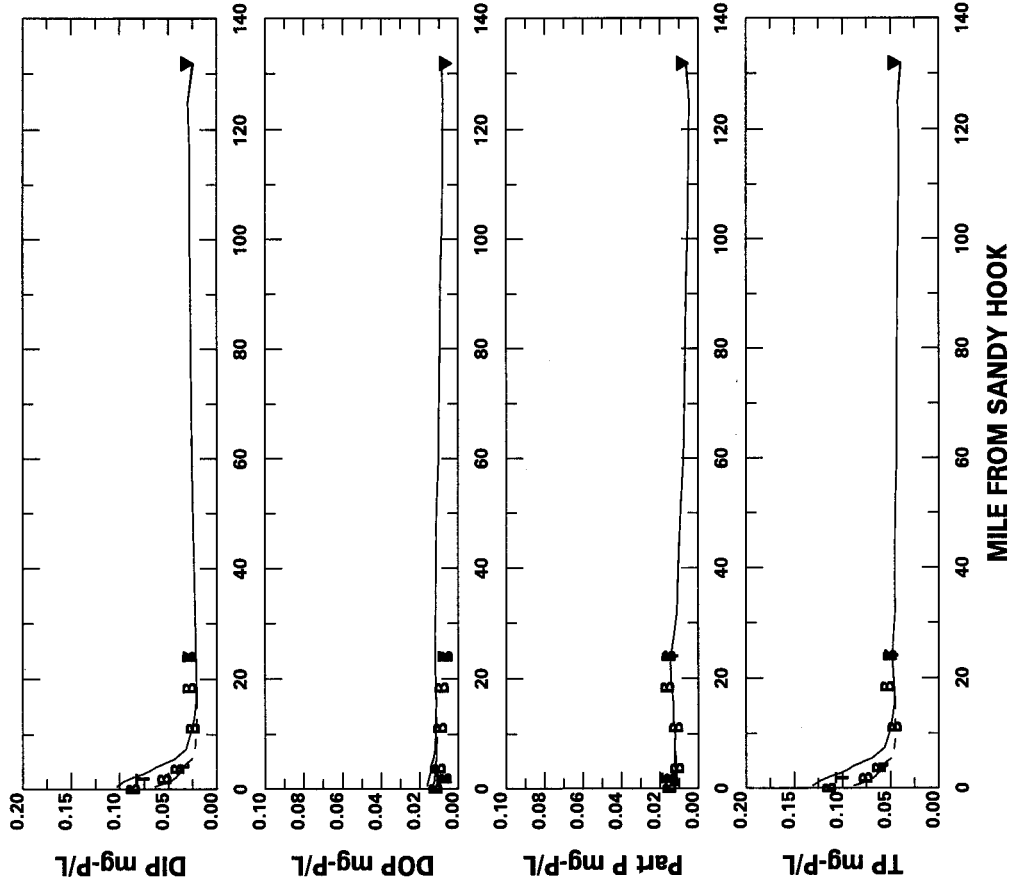
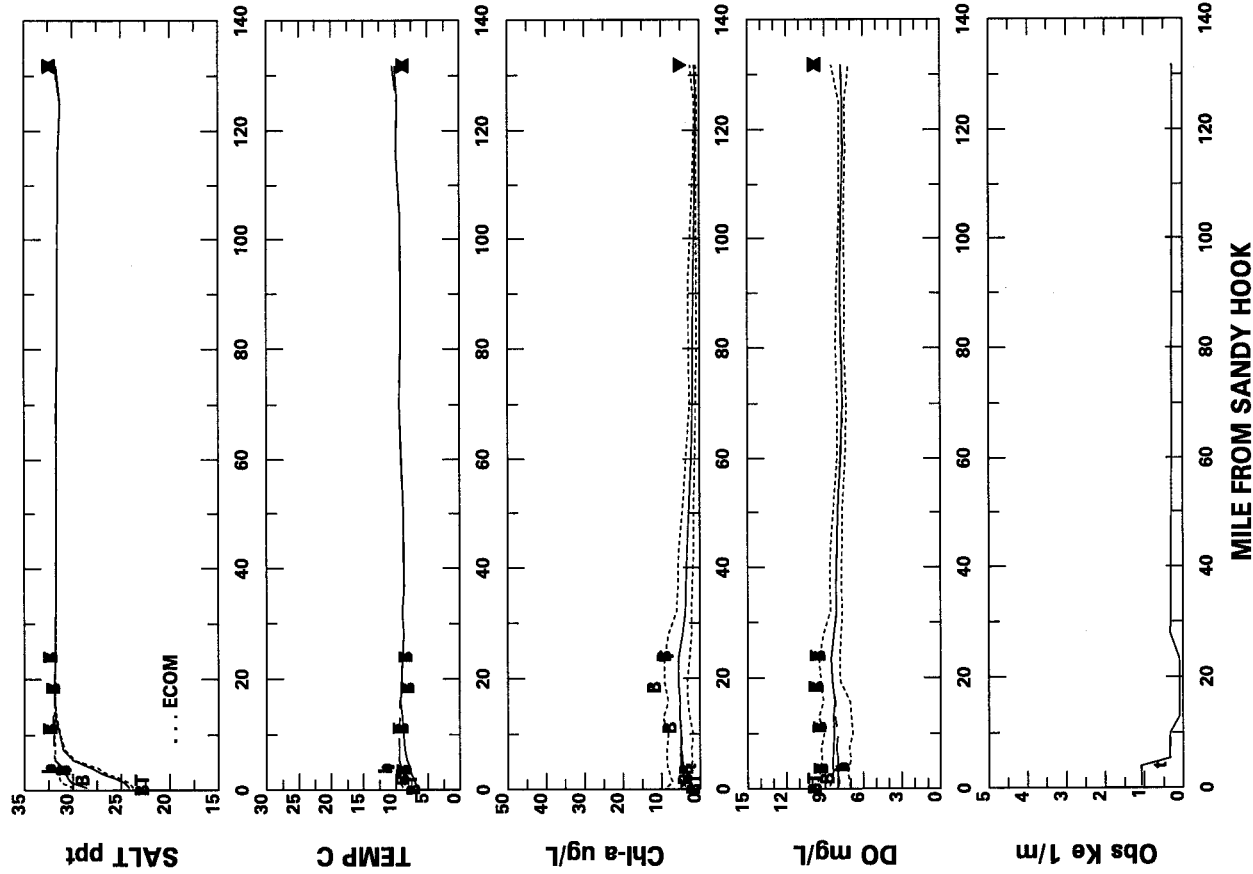
▲ T
▼ B
○ t
△ b

Transect
Embayment
Transect
Embayment

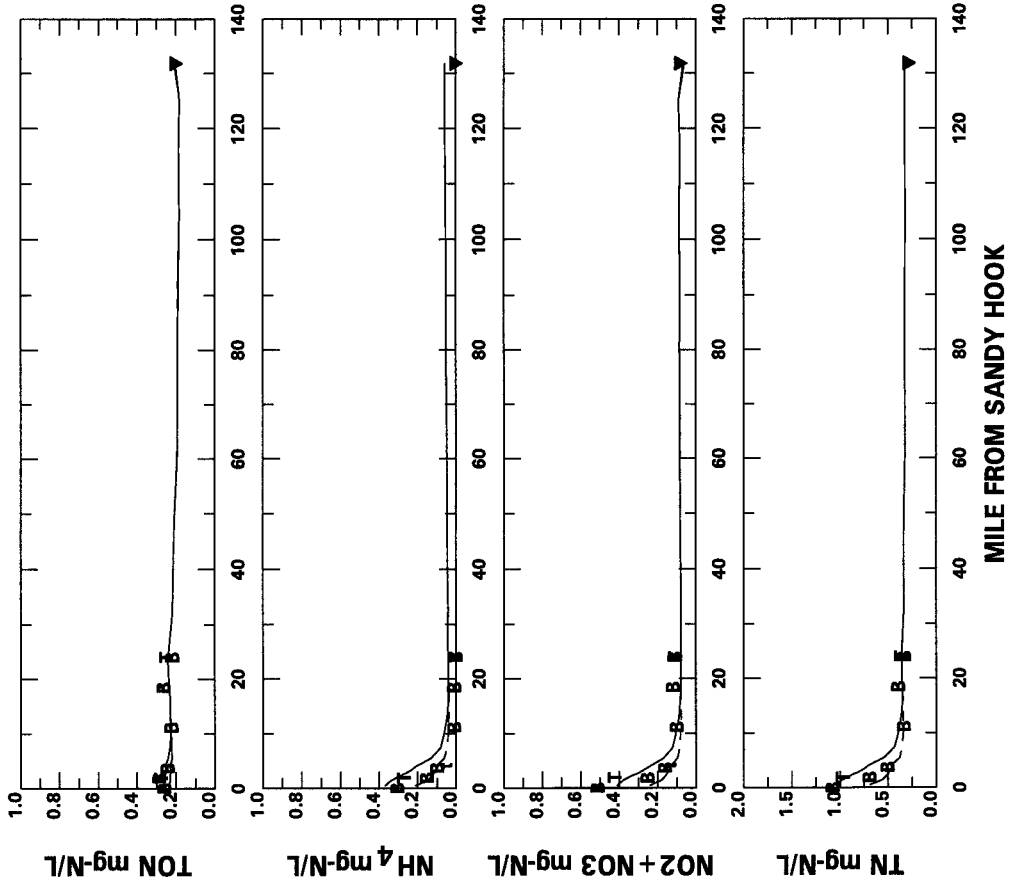
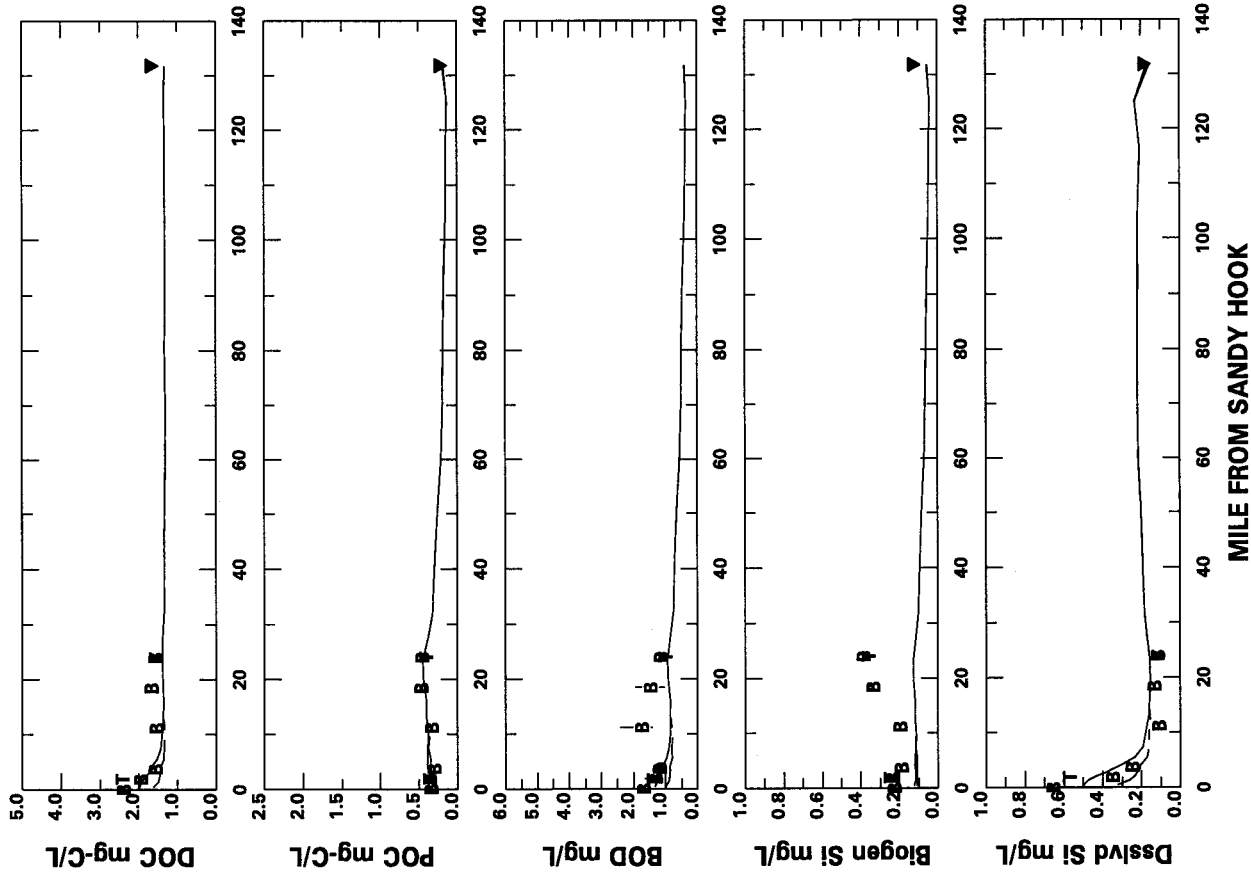
MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3: SWEM REVISED CALIBRATION



NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Dec 10-16, 1994

SURF BOT

▲ T Transect
▲ B Embayment

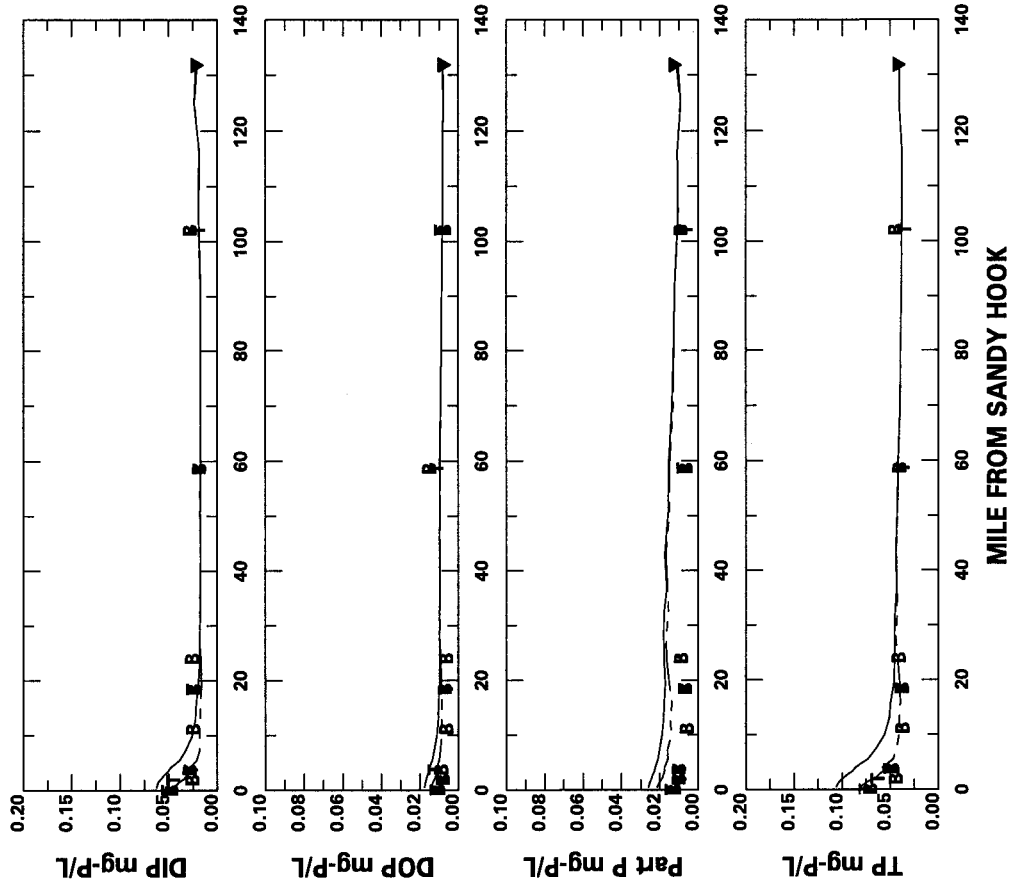
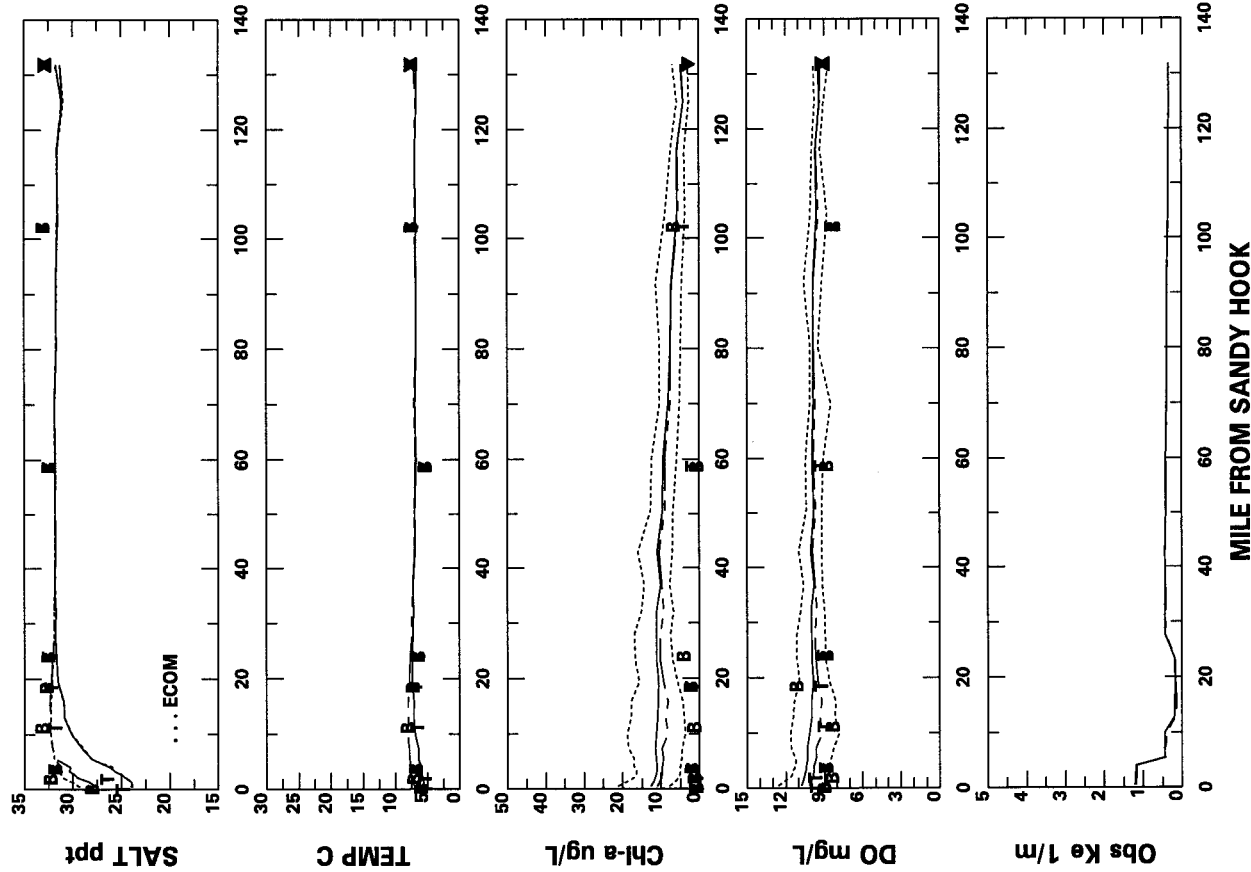
NYCDEP 12/94

○ t Transect
○ b Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Jan 23-31, 1995

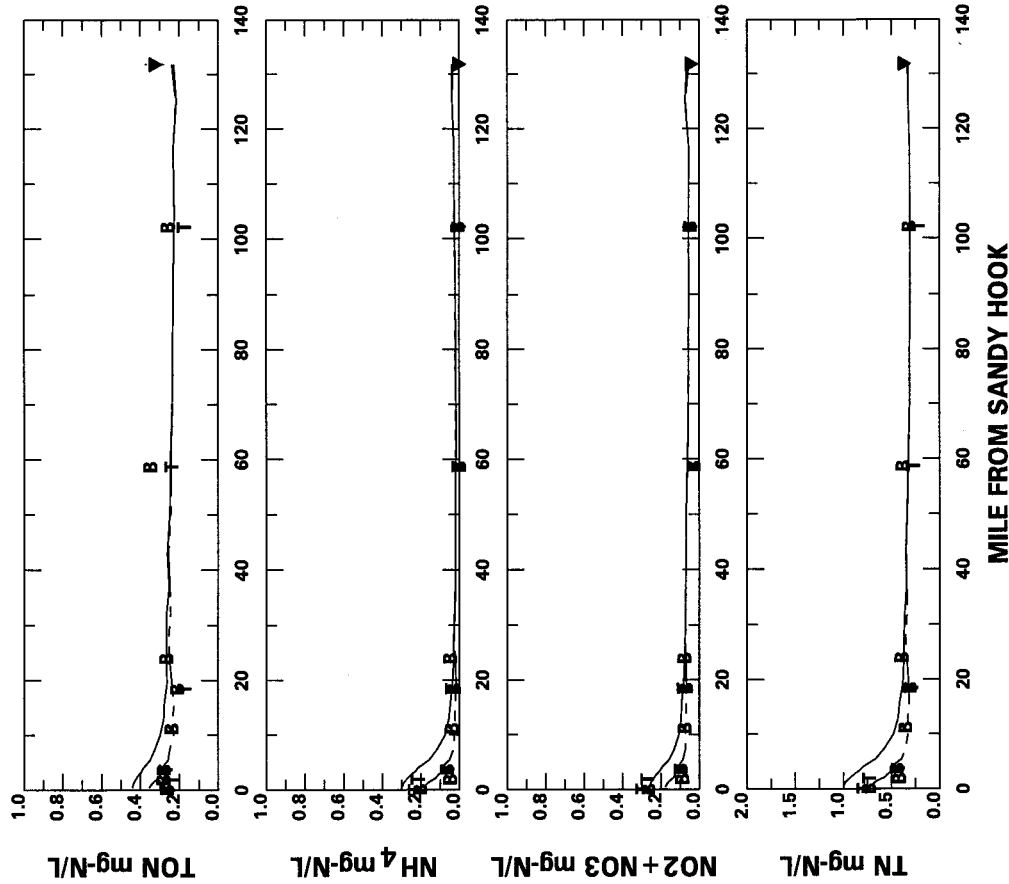
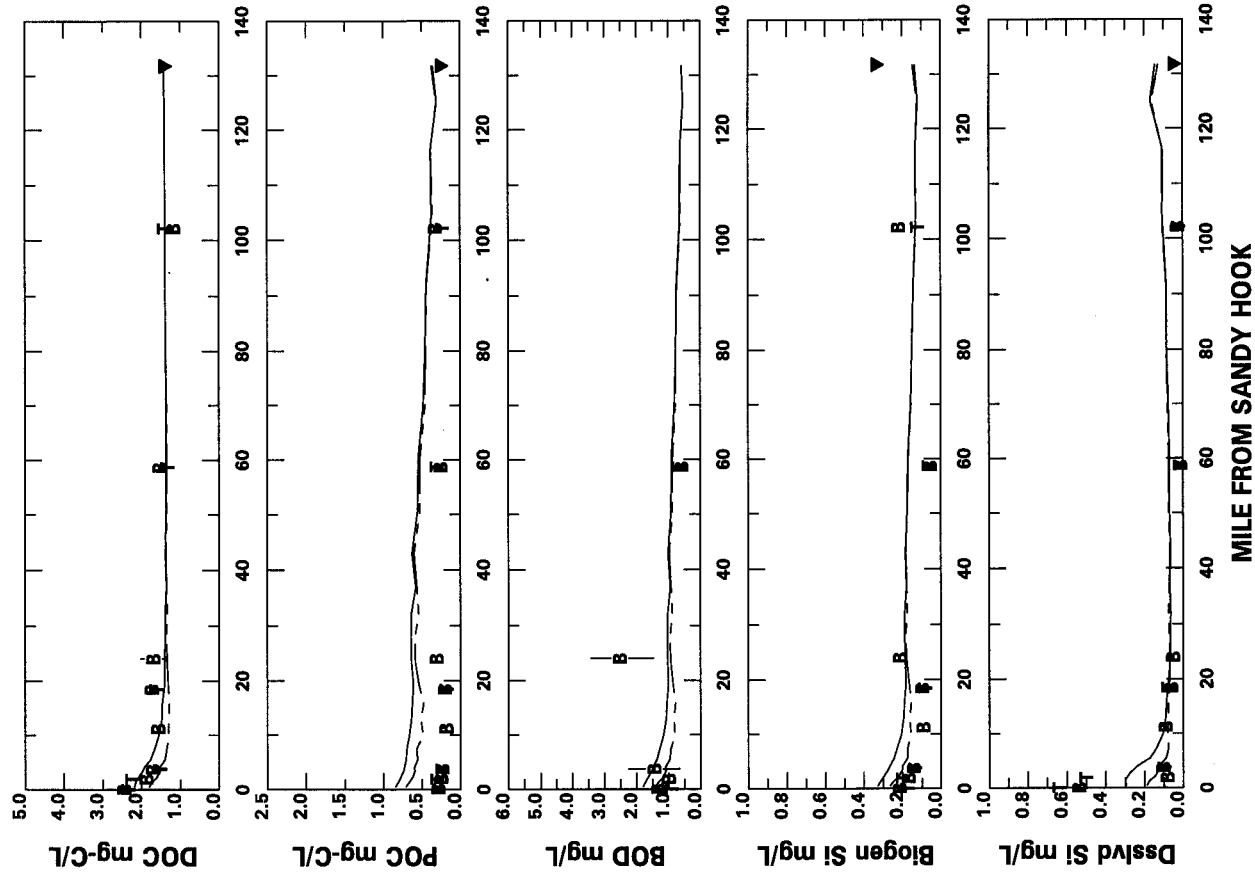
SURF BOT

▲ Transect
 T Embayment
 ○ Transect
 t Embayment

MODEL

— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Jan 23-31, 1995

NYCDEP 1/95

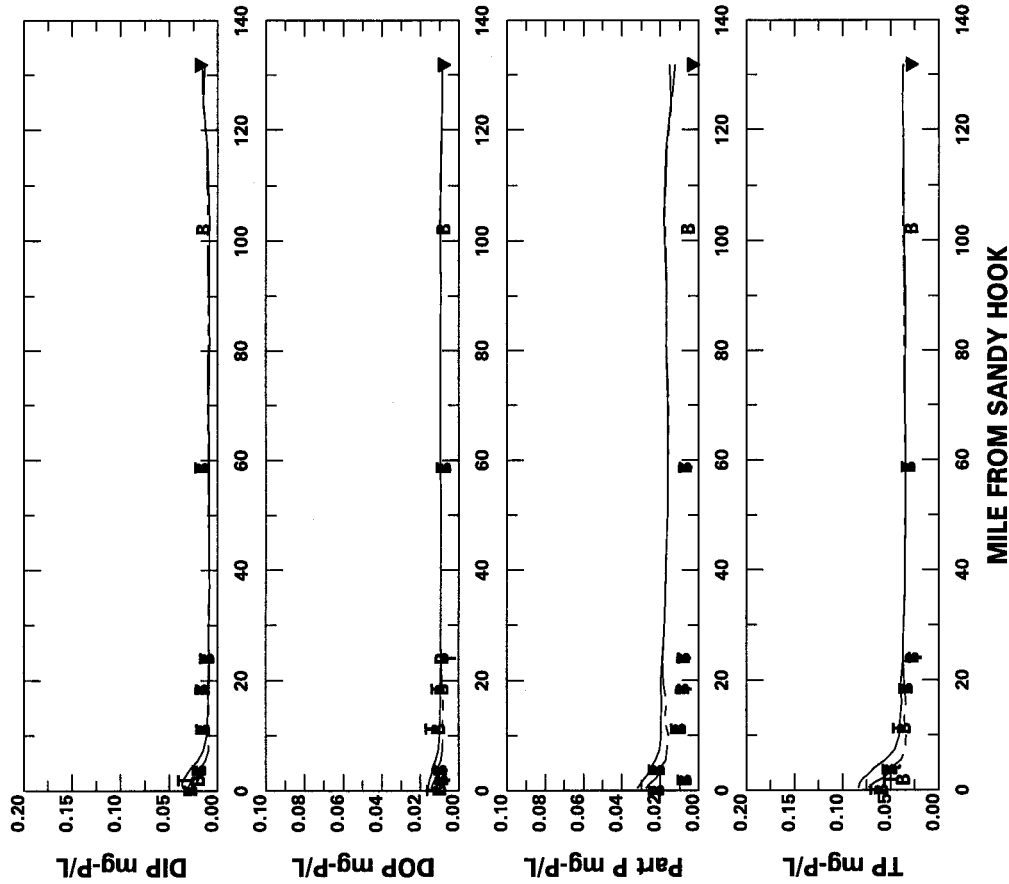
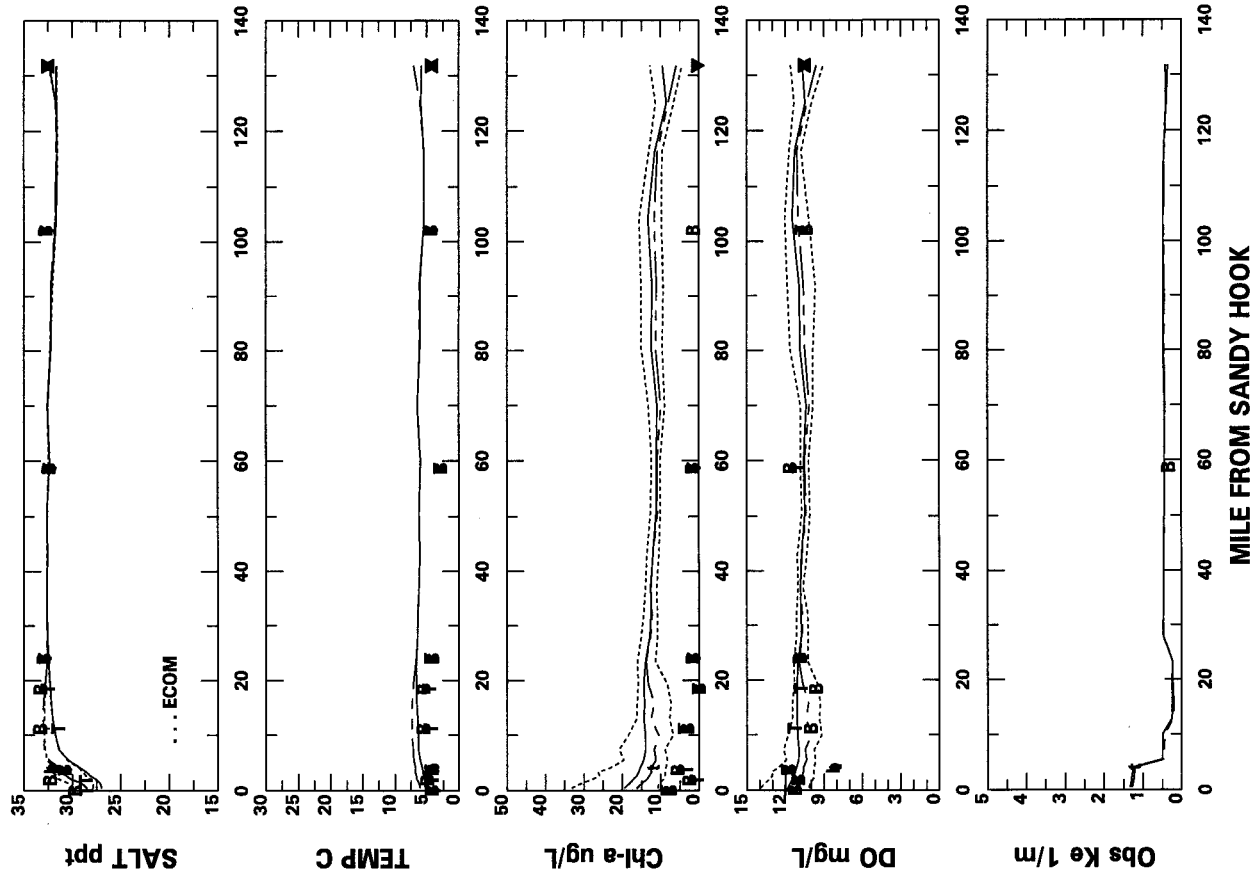
SURF BOT

▲ Transect
T B Embayment
○ Transect
t b Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Feb 22-Mar 1, 1995

NYCDEP 2/95

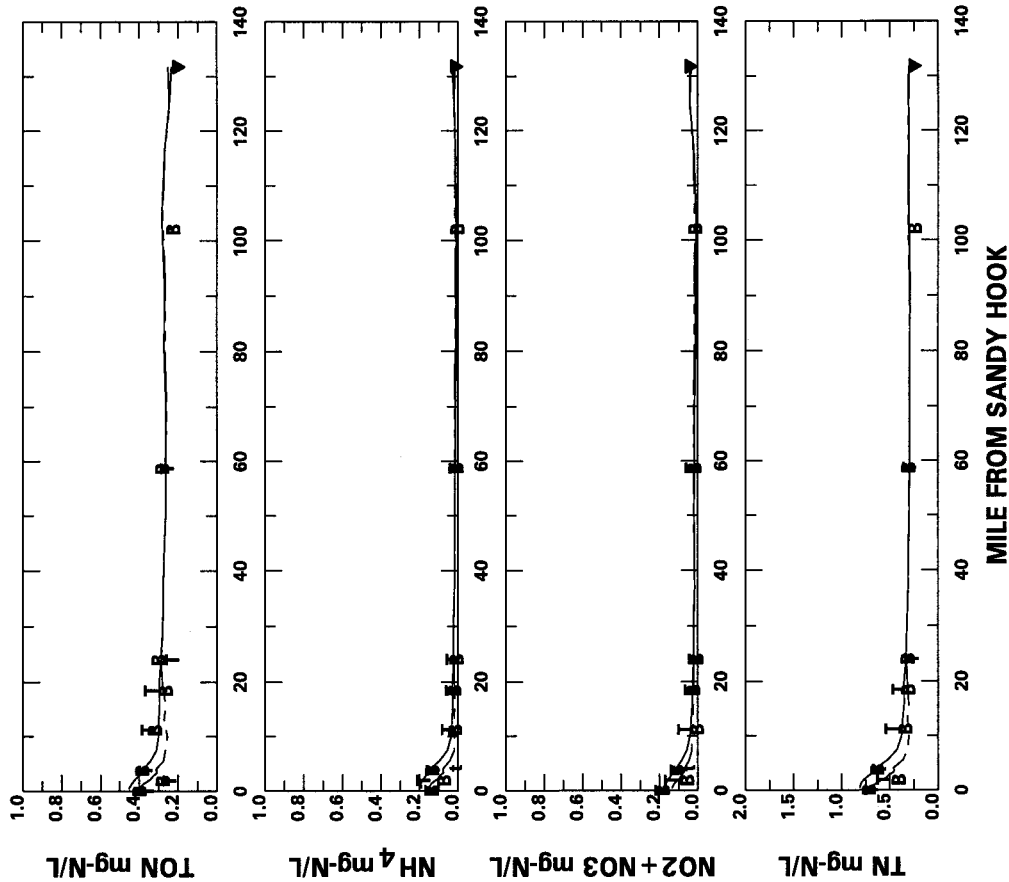
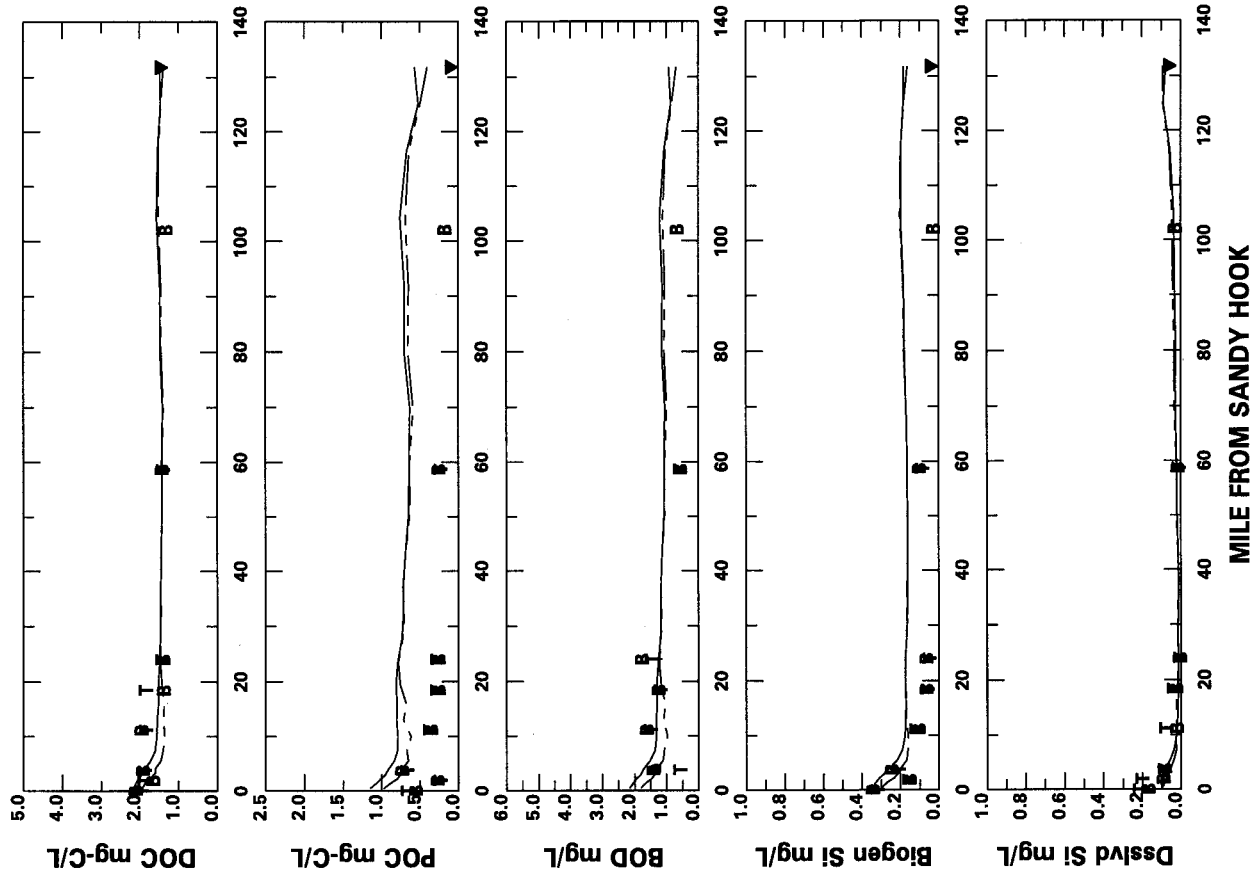
SURF BOT

▲ Transect
T Embayment
○ Transect
t Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- . - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Feb 22-Mar 1, 1995

NYCDEP 2/95

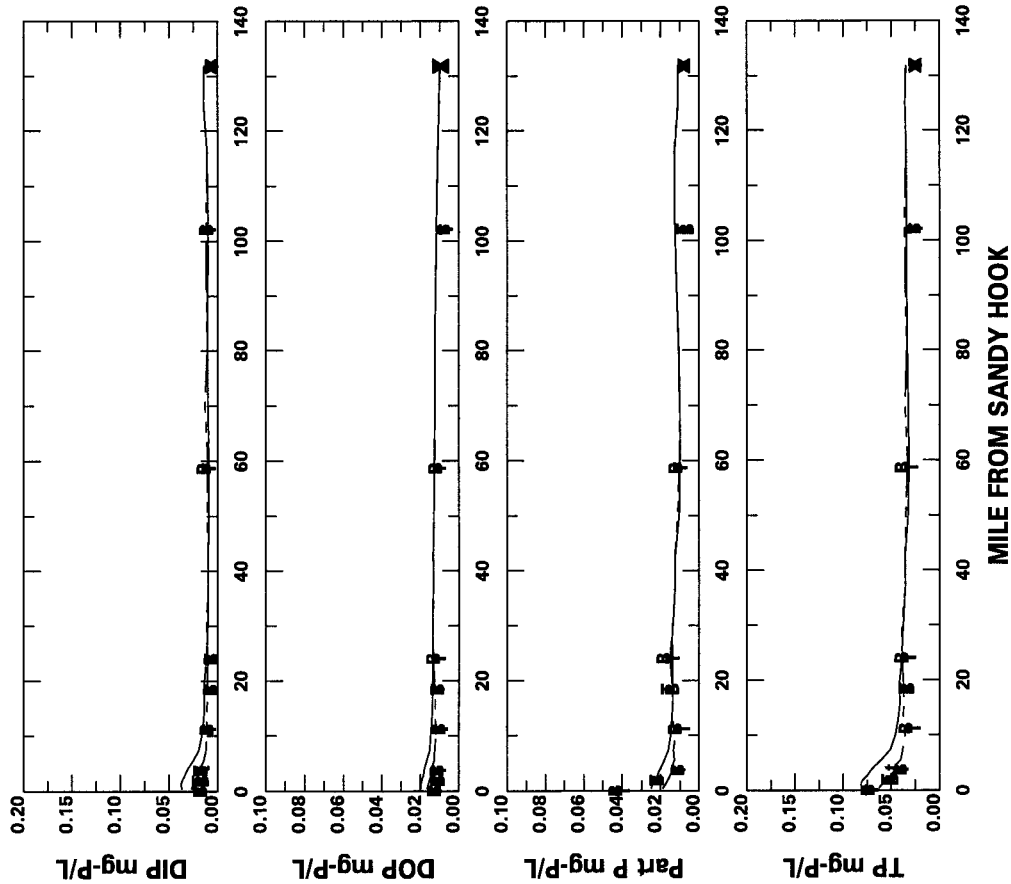
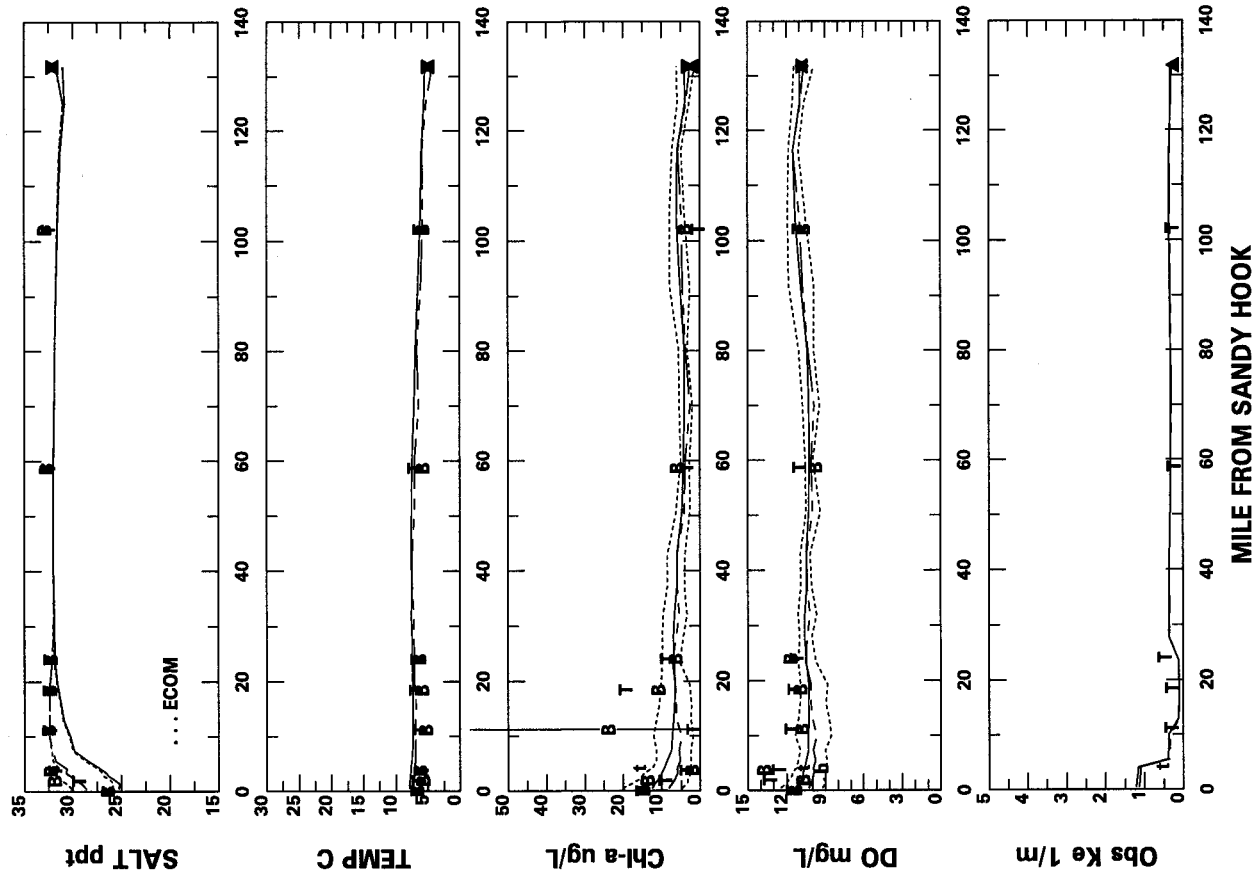
SURF BOT

▲ T Embayment
 ▼ B Embayment
 △ t Embayment
 ▽ b Embayment

MODEL

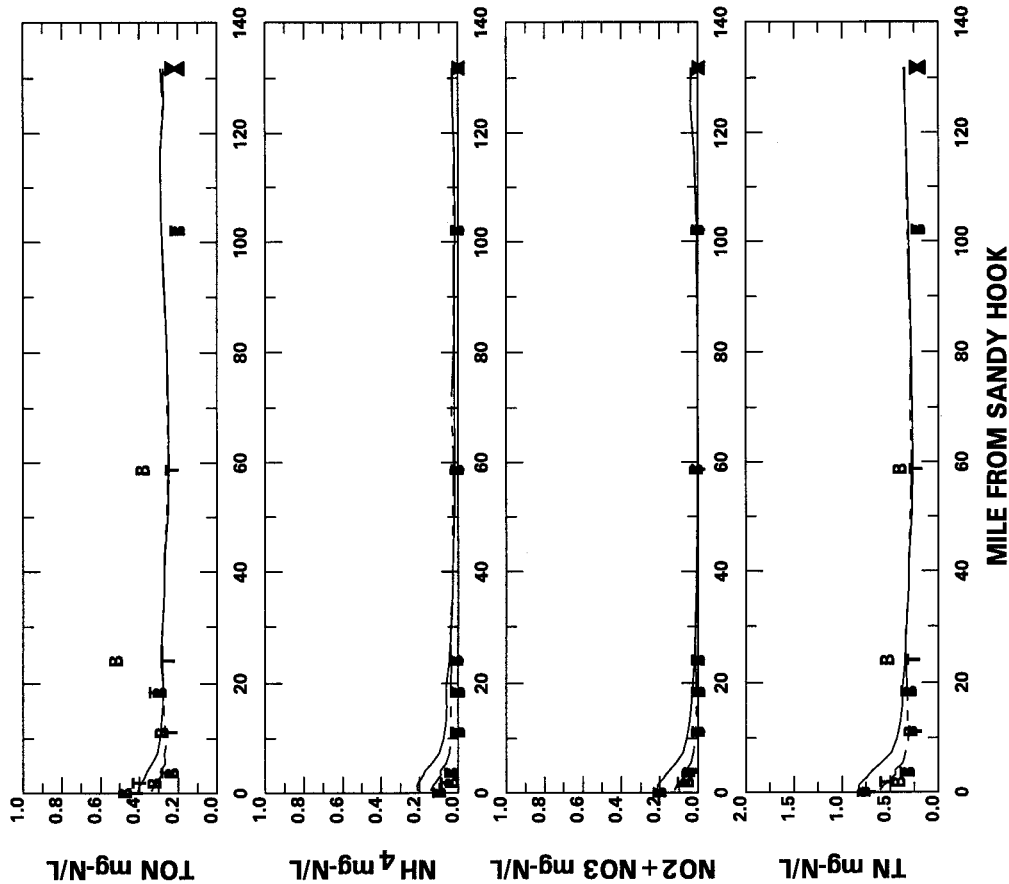
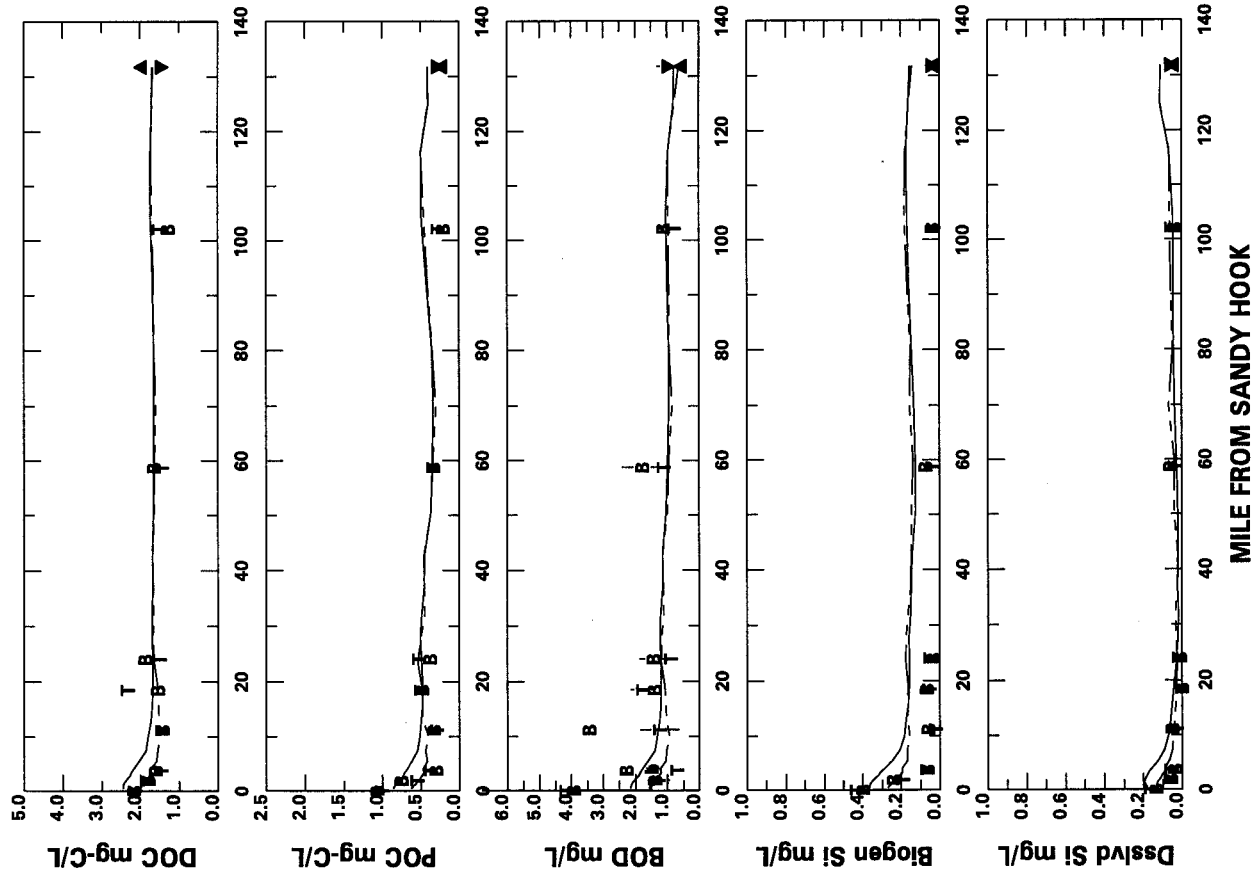
— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

**NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3
SWEM REVISED CALIBRATION**



DATA

Battelle Mar 28-Apr 8,
1995

NYCDEP 4/95

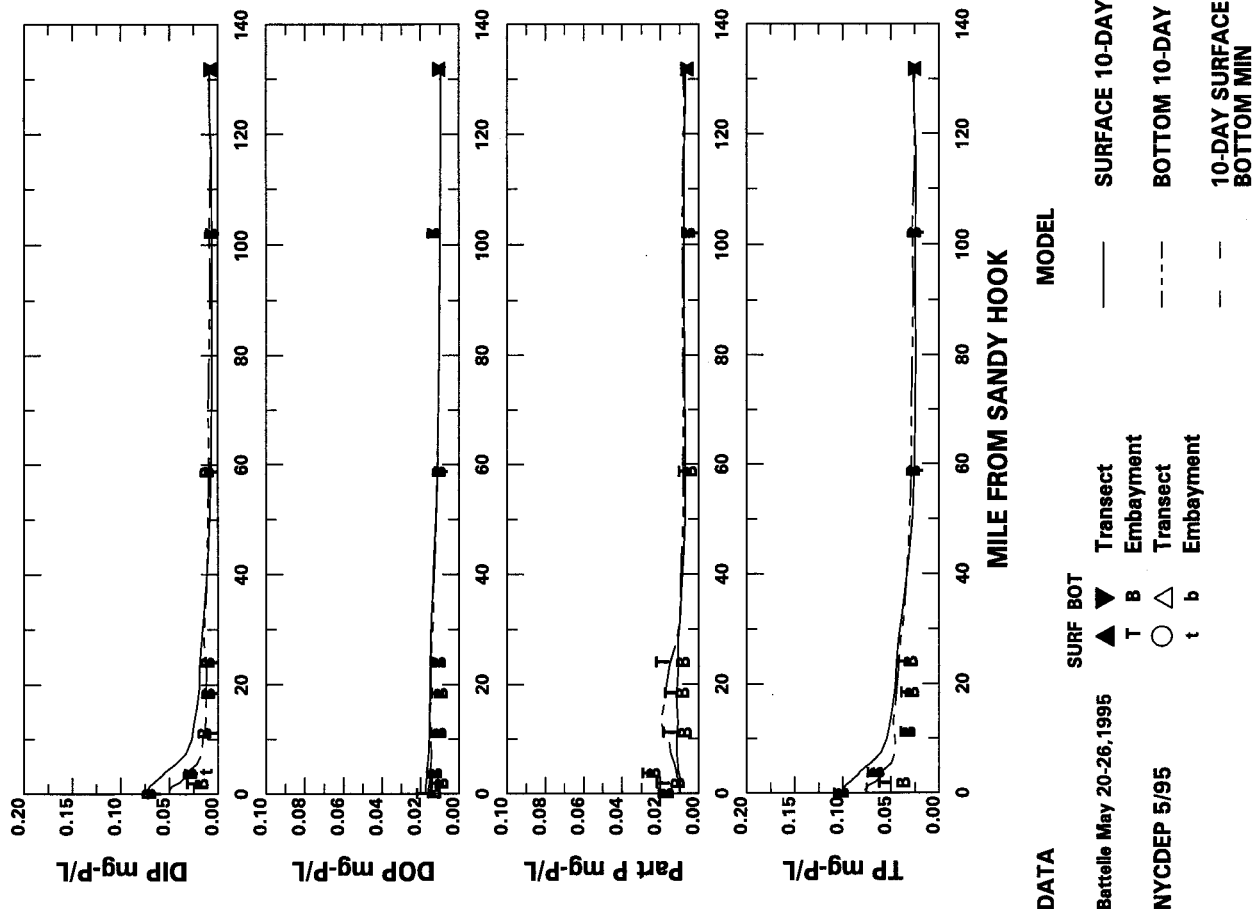
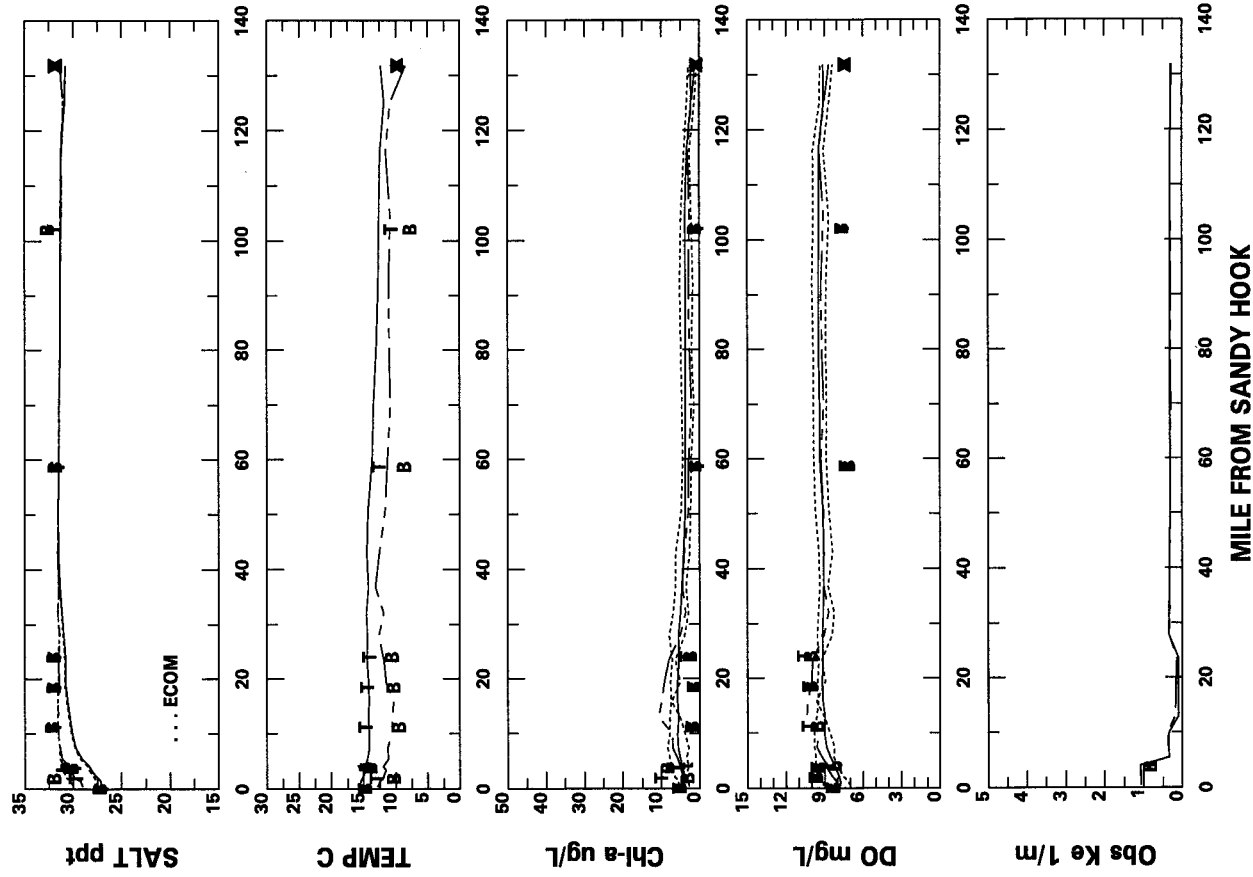
SURF BOT

▲ ▼ Transect
T B Embayment
○ △ Transect
t b Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995

NYCDEP 5/95

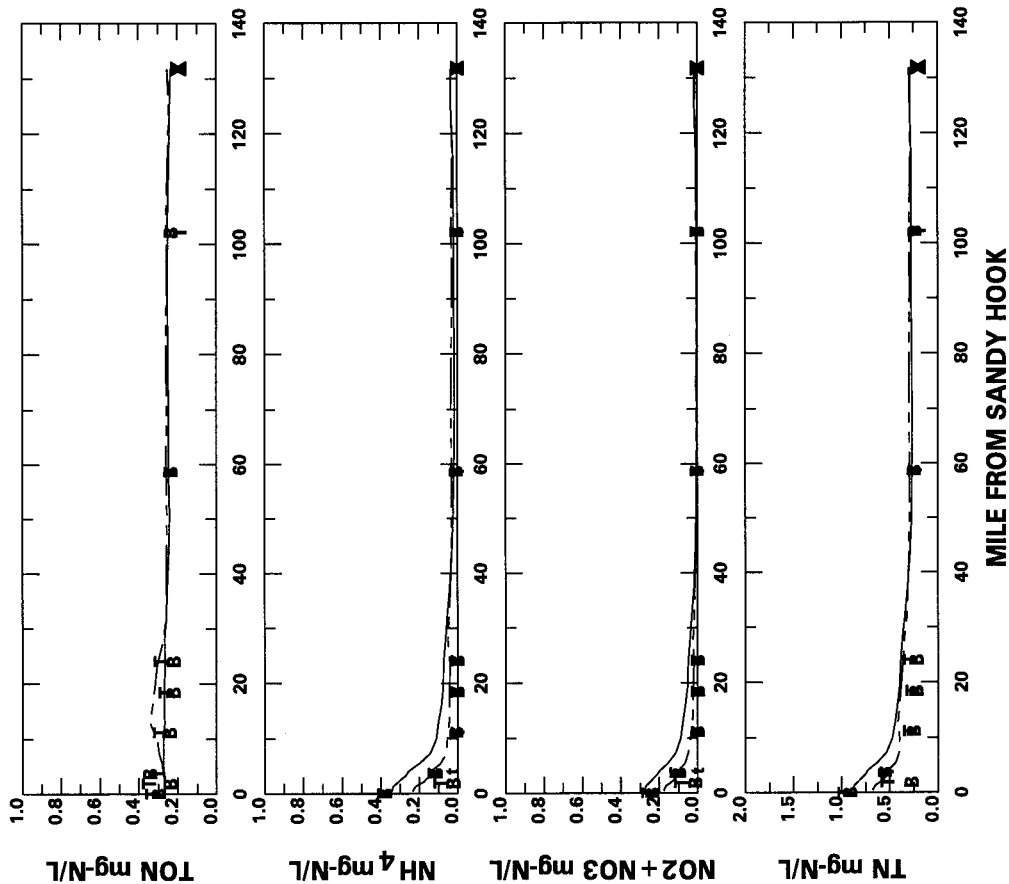
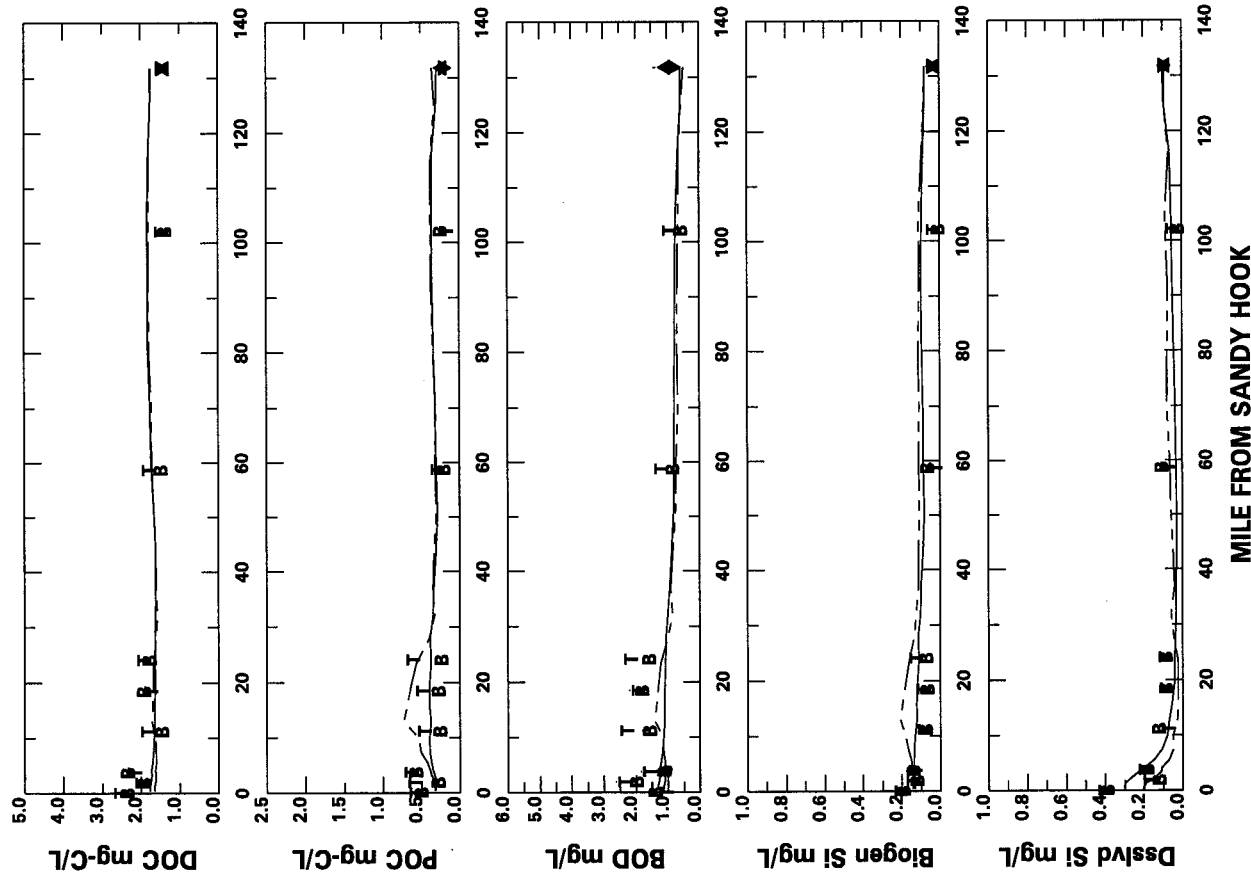
SURF BOT

▲ Transect
T Embayment
○ Transect
t Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- . . 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995
NYCDEP 5/95

SURF BOT

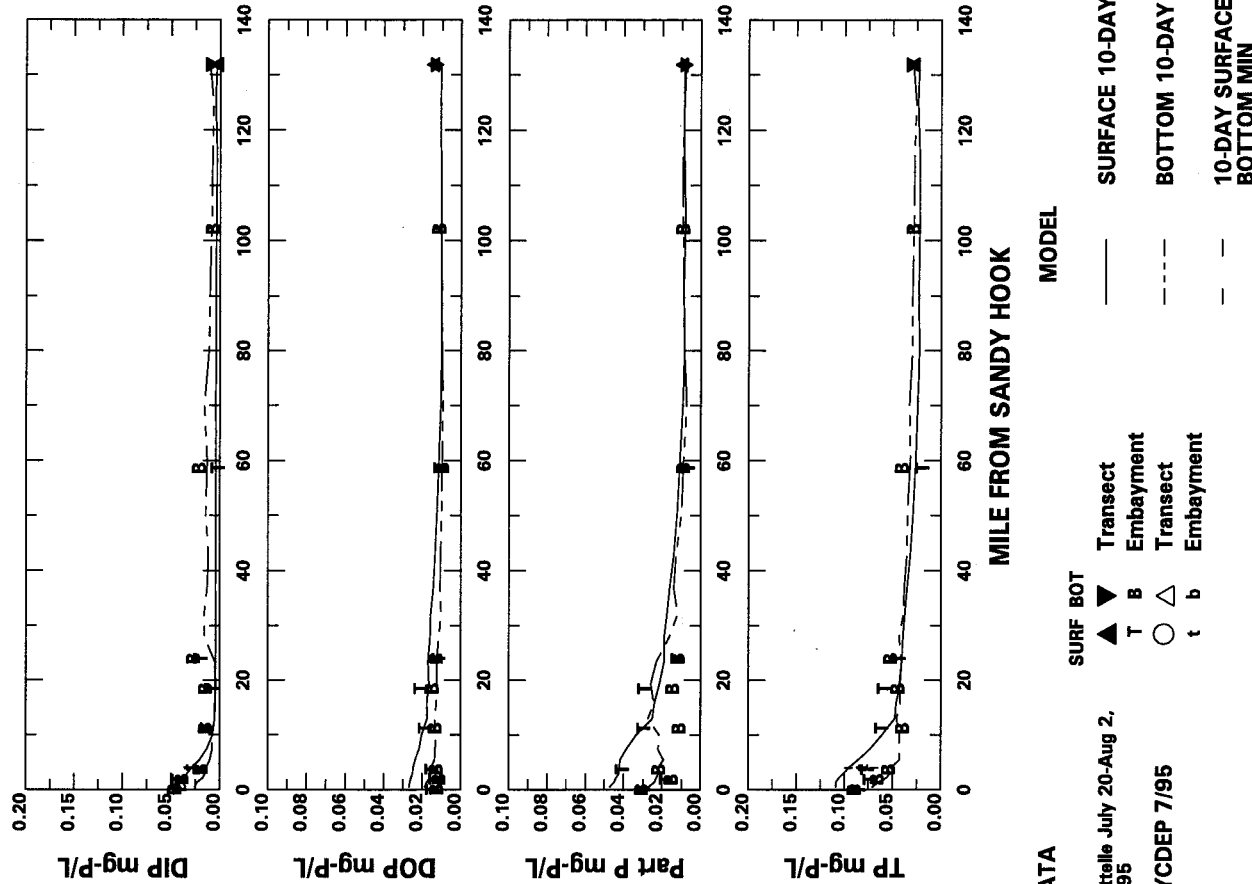
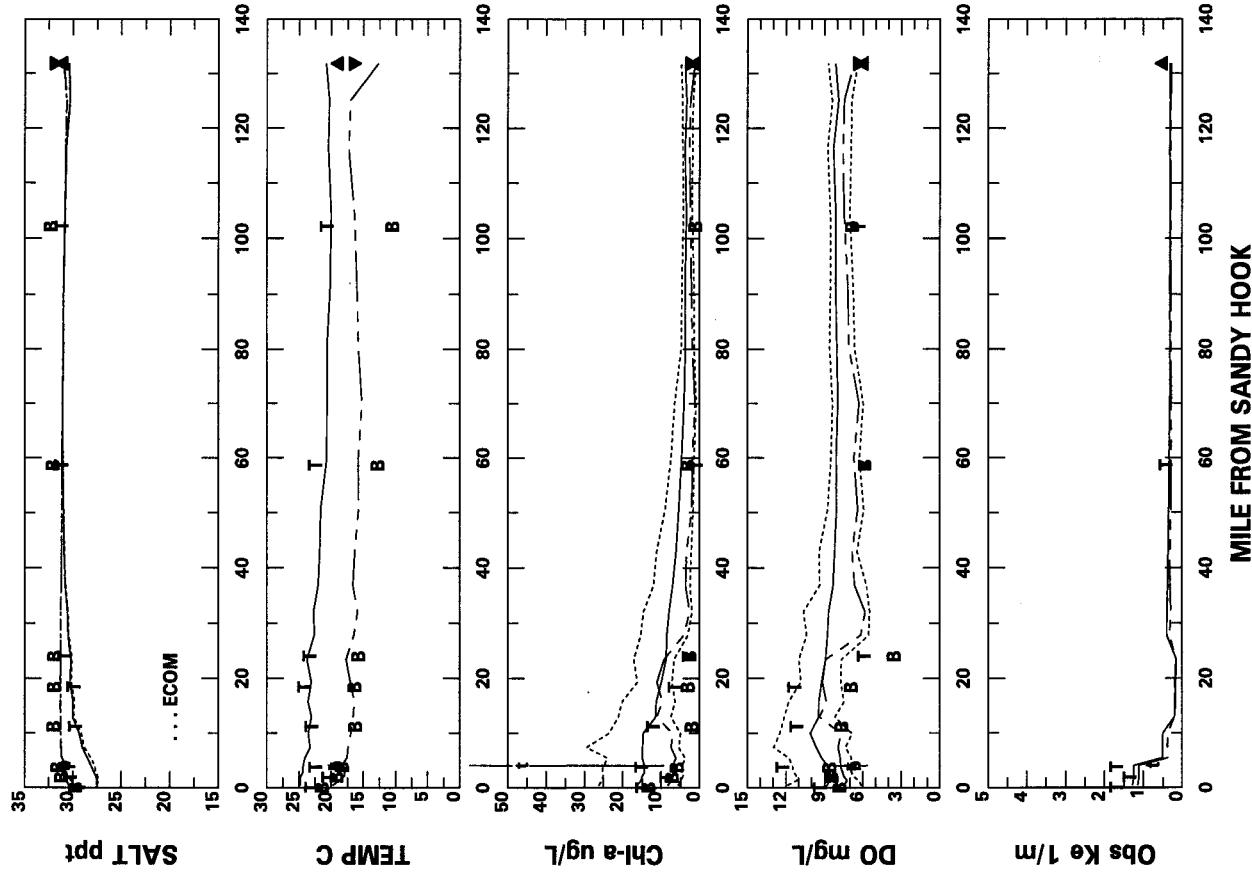
▲ T ▼ B
○ t △ b

Transect
Embayment
Transect
Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2,
1995

NYCDEP 7/95

SURF BOT

▲ Transect
T Embayment
○ Transect
t Embayment

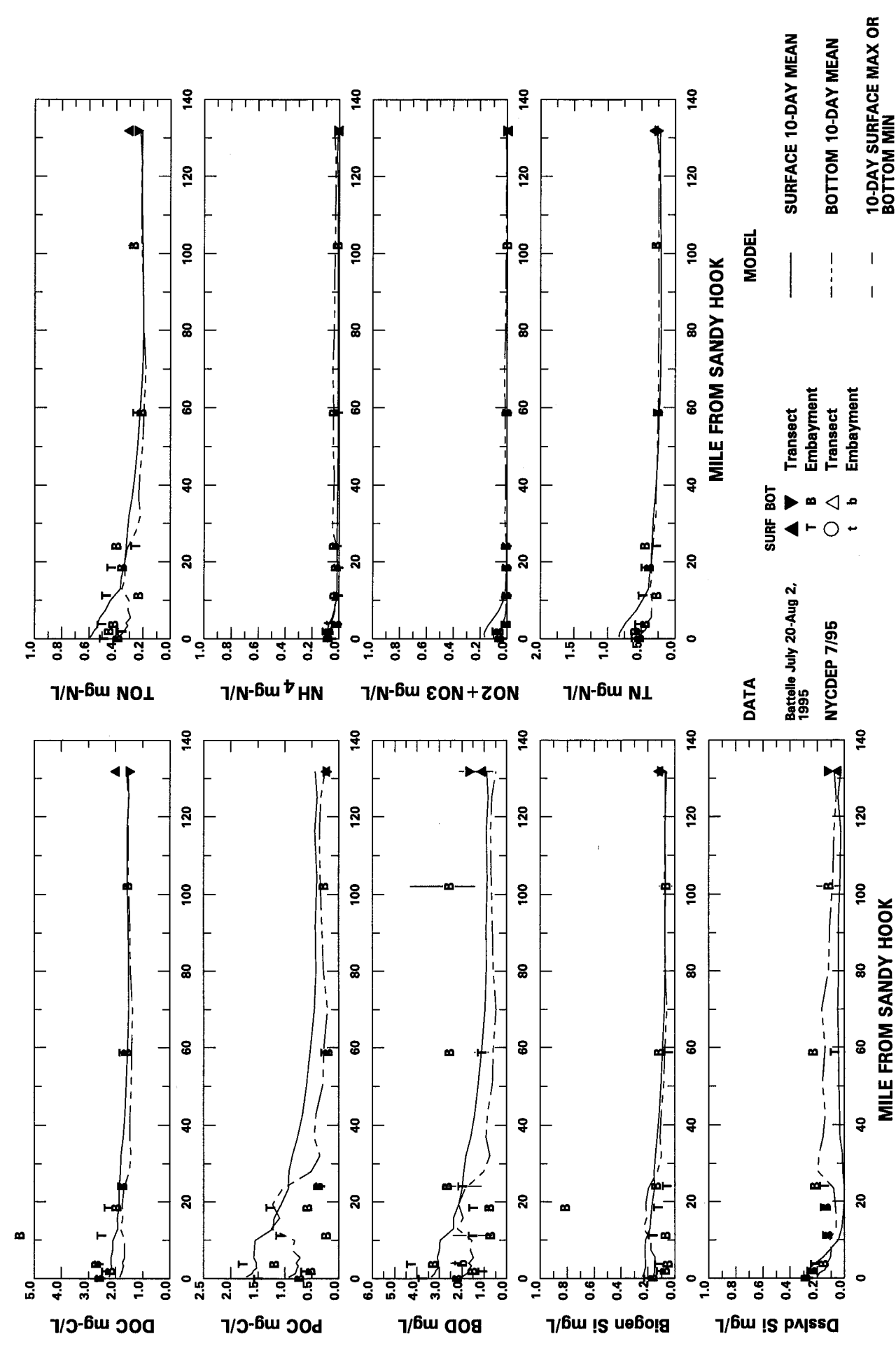
MODEL

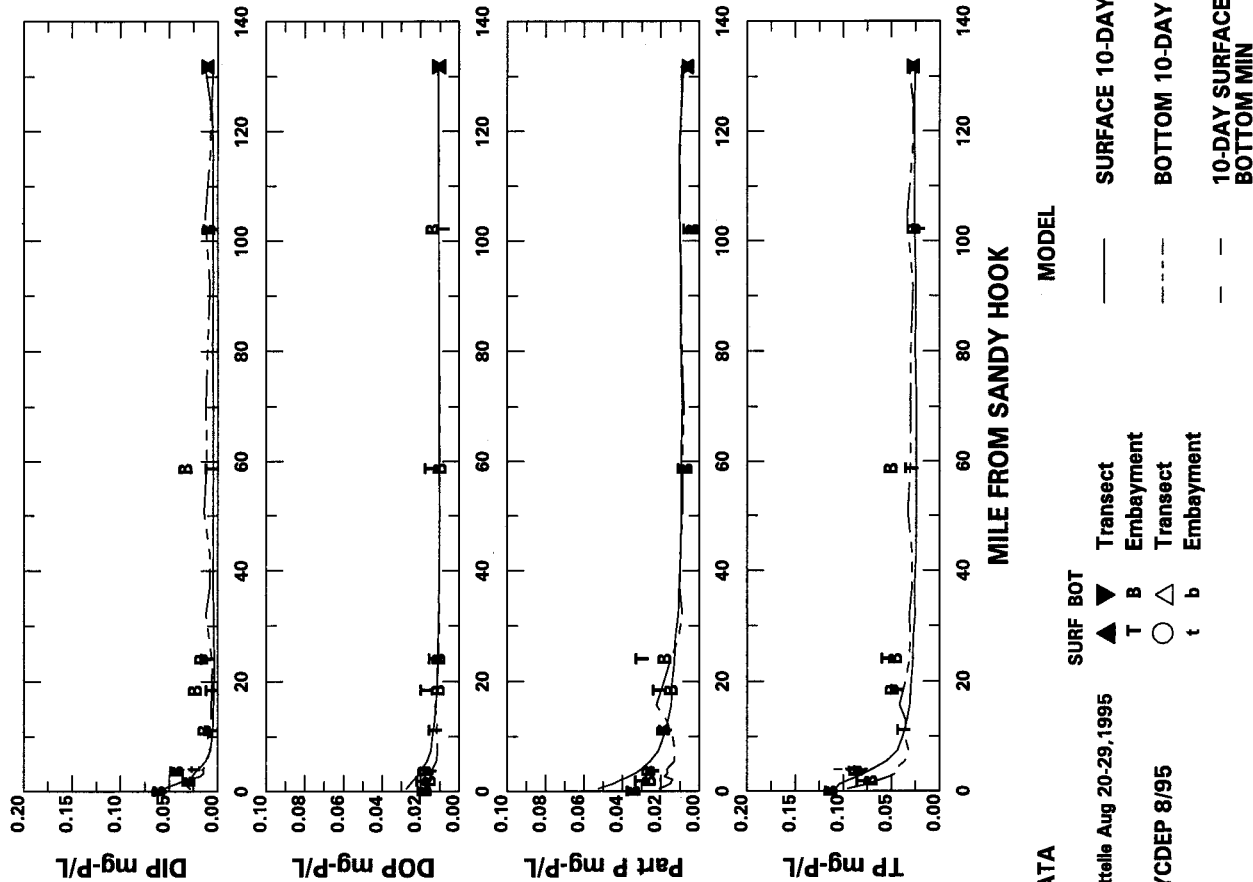
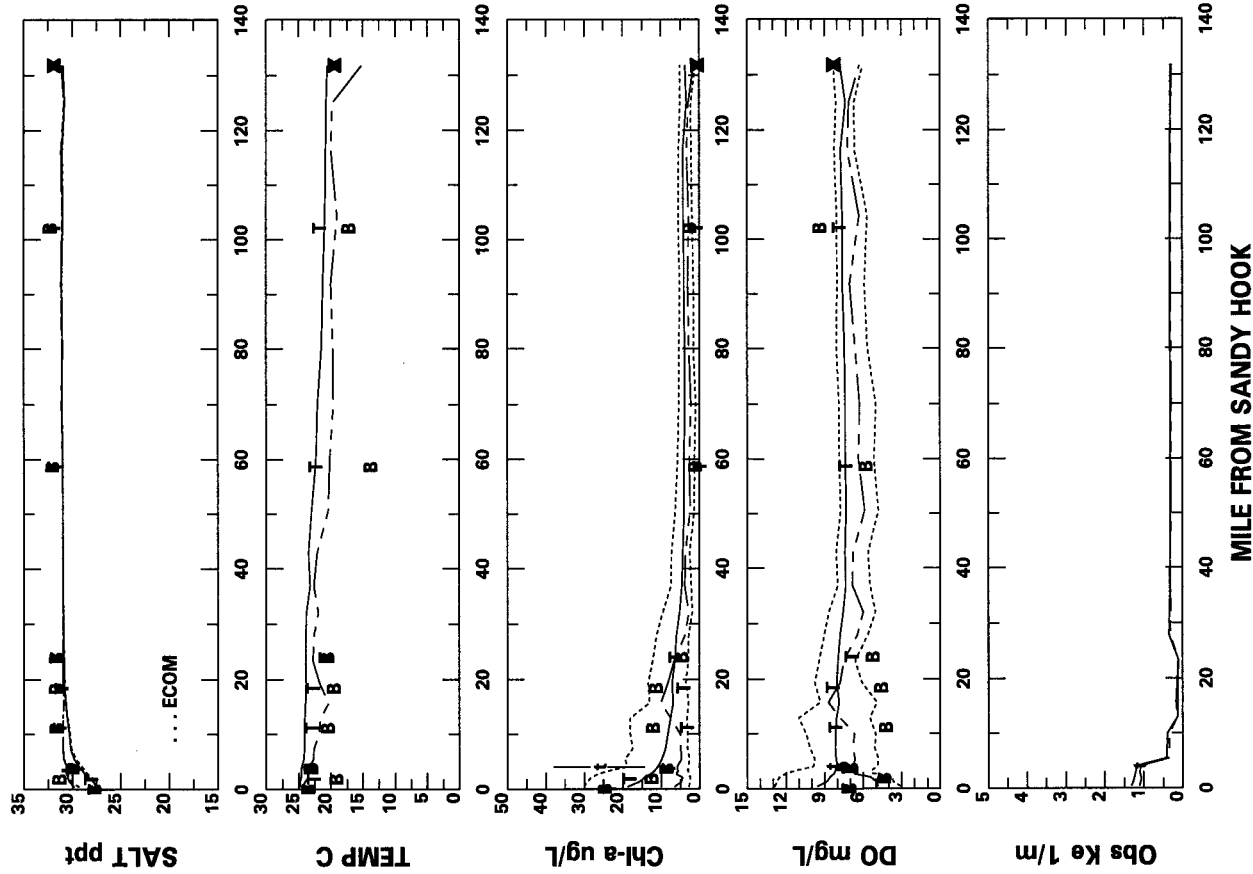
— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3: SWEM REVISED CALIBRATION

DATE: Wed Apr 29 TIME: 14:52:38





DATA

Battelle Aug 20-29, 1995

NYCDEP 8/95

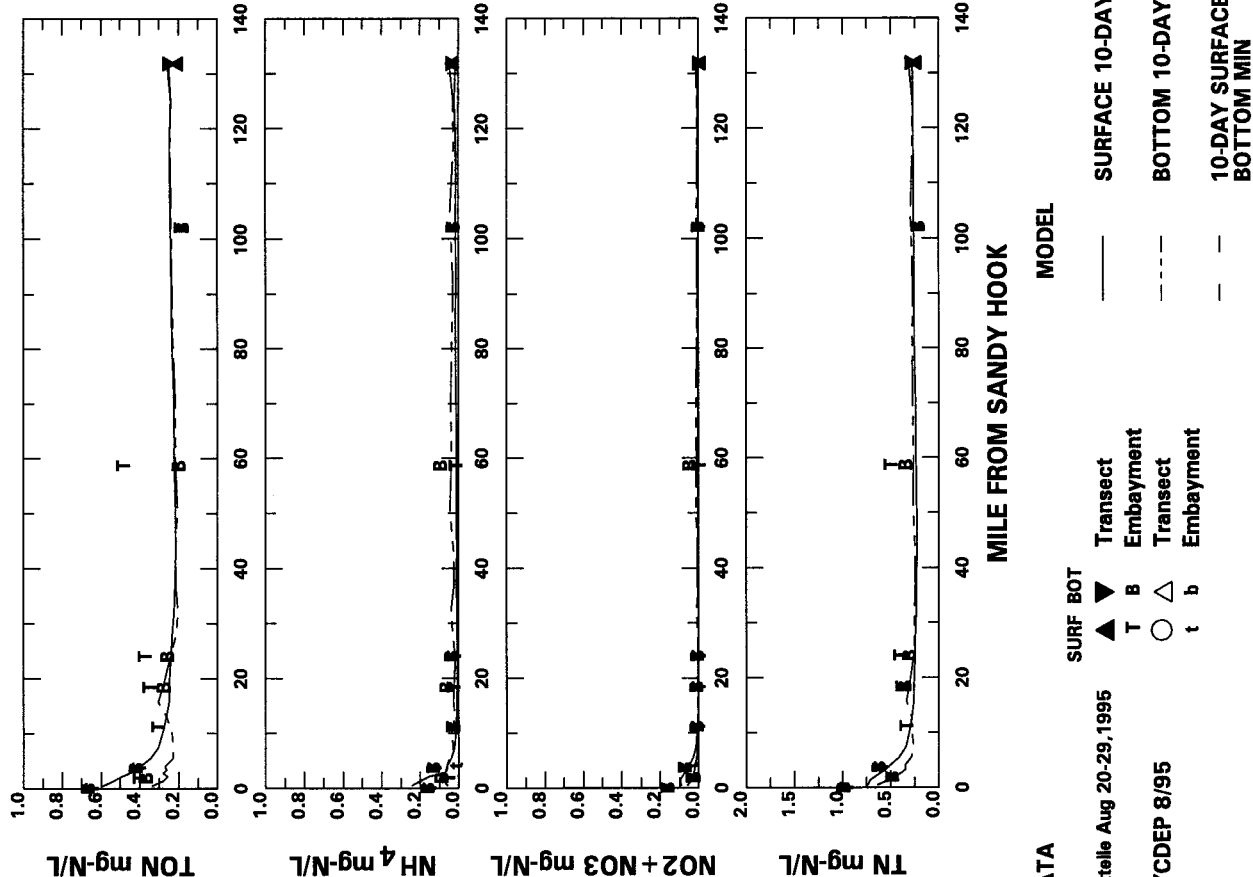
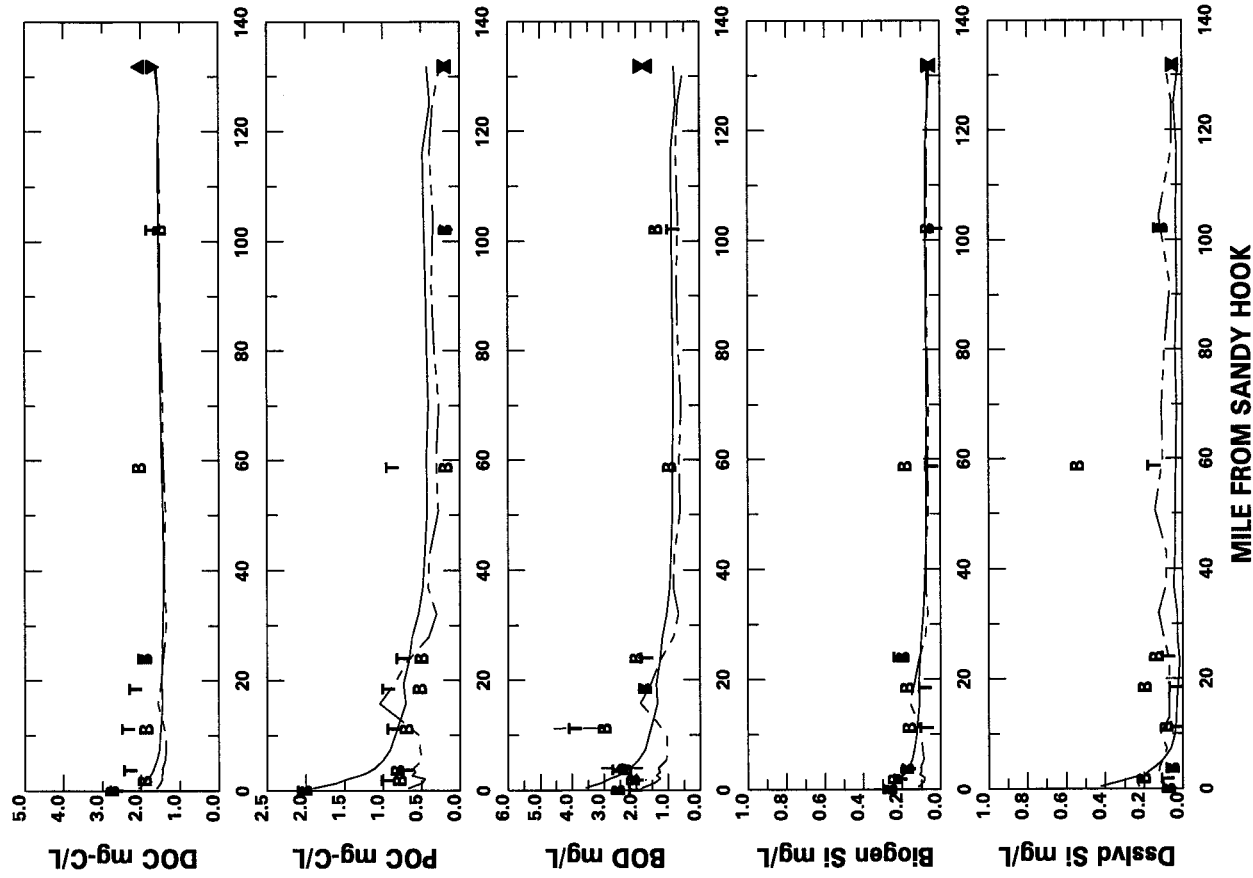
SURF BOT

Transect
Embayment
Transect
Embayment

MODEL

SURFACE 10-DAY MEAN
BOTTOM 10-DAY MEAN
10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Aug 20-29, 1995

NYCDEP 8/95

SURF BOT

▲ Transect

▼ Embayment

T B

○ t

MODEL

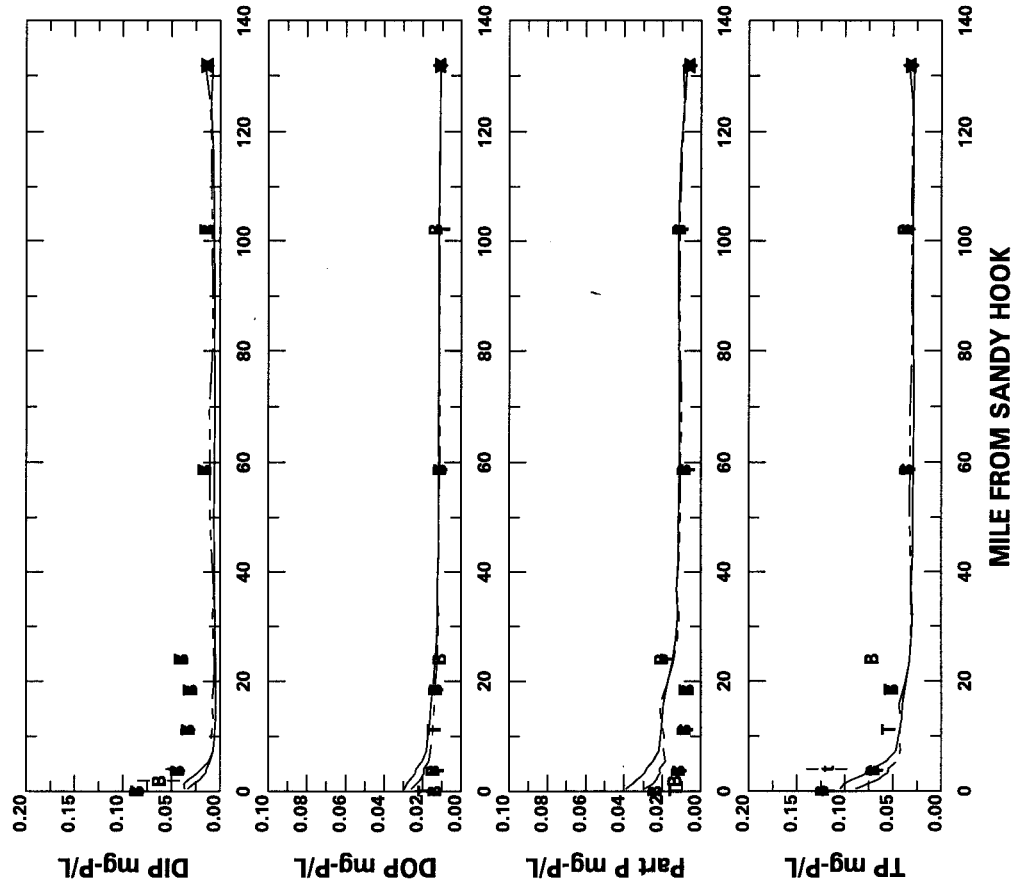
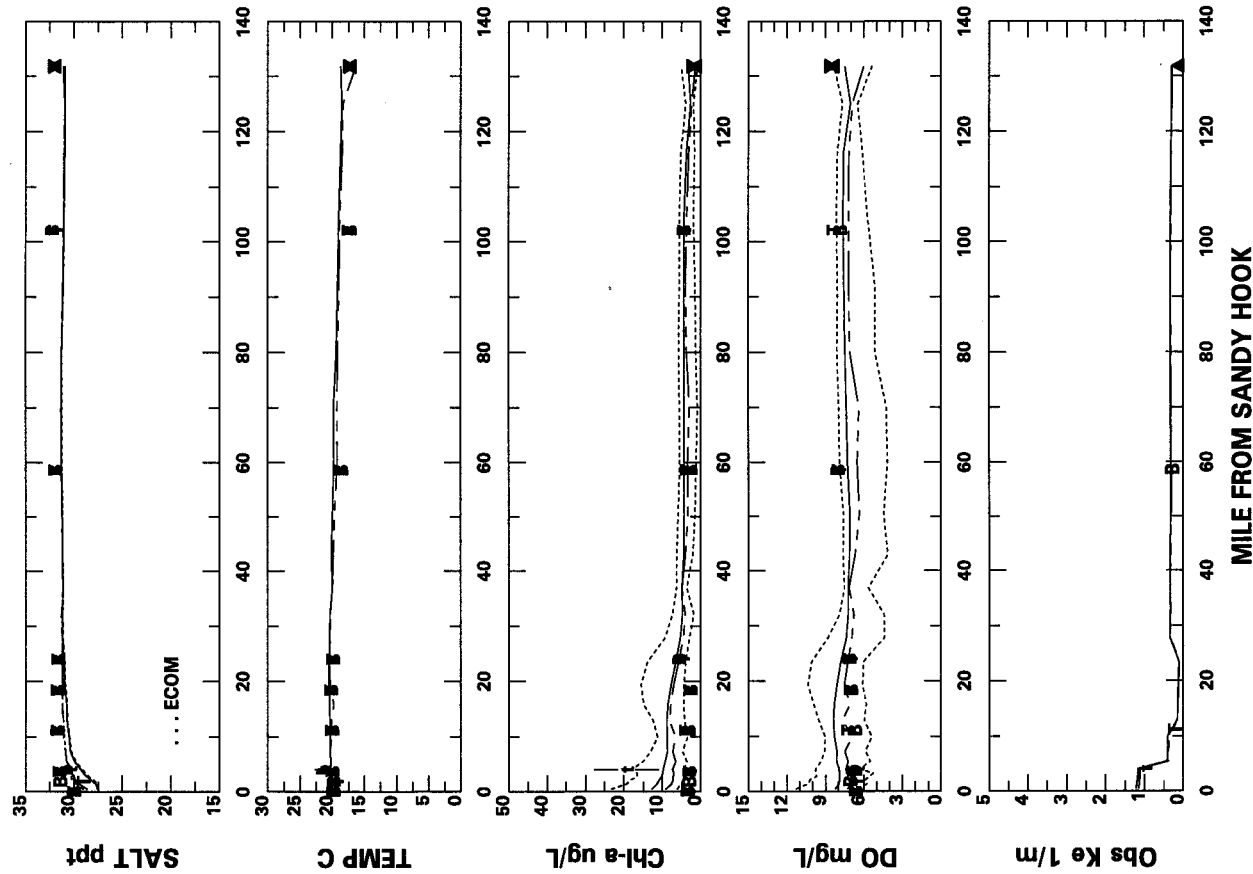
— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1

RUN 9495-BC3: SWEM REVISED CALIBRATION



DATA

Battelle Sep 23-Oct 2,
1995

NYCDEP 9/95

SURF BOT

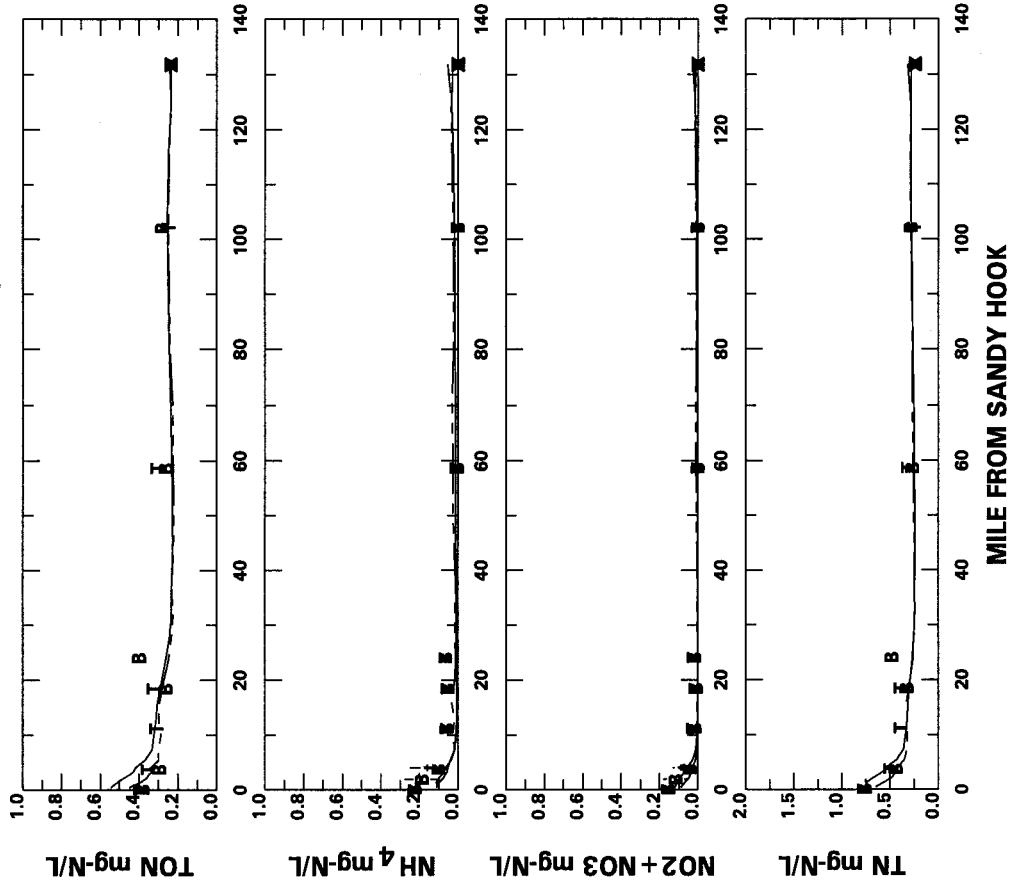
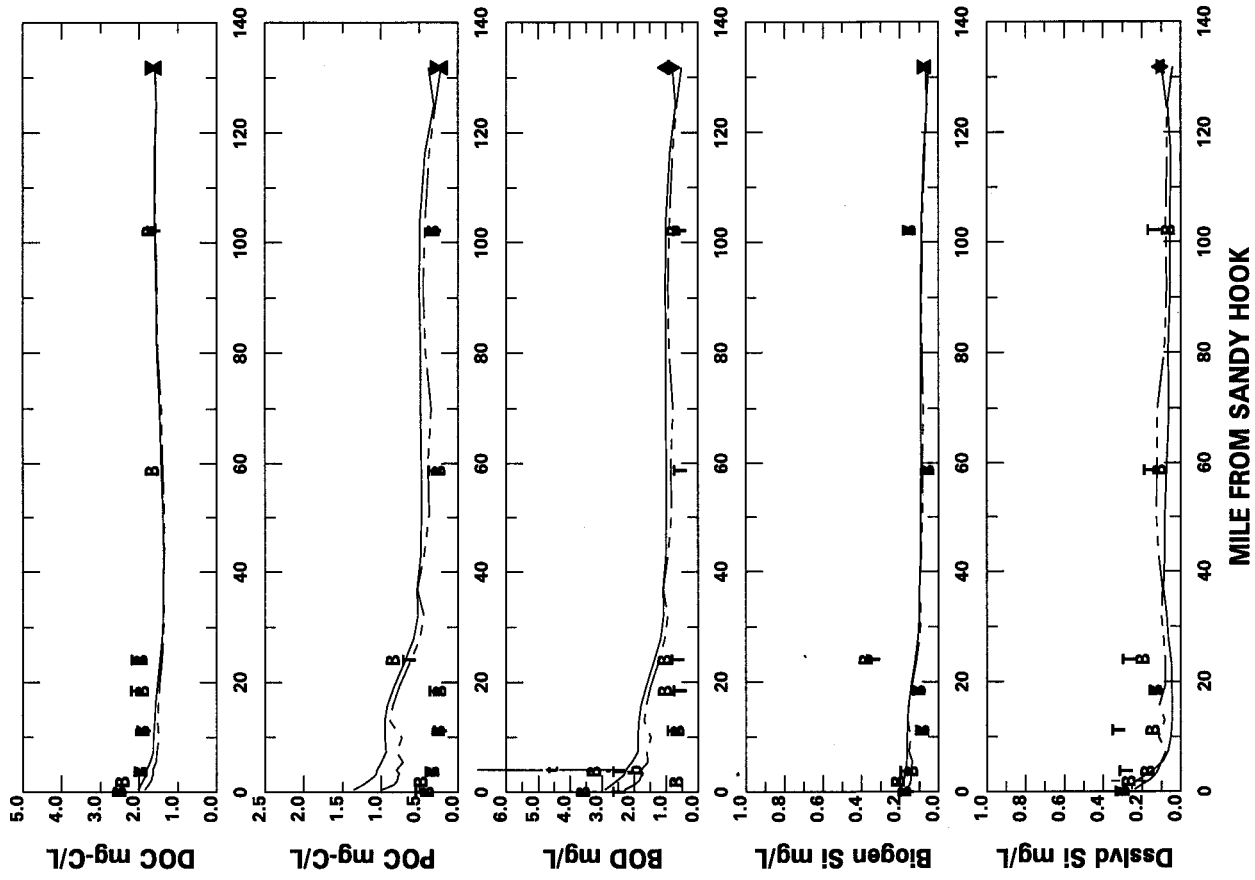
▲ T
▼ B
○ t
△ b

Transect
Embayment
Transect
Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Sep 23-Oct 2, 1995

NYCDEP 9/95

MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

SURF BOT

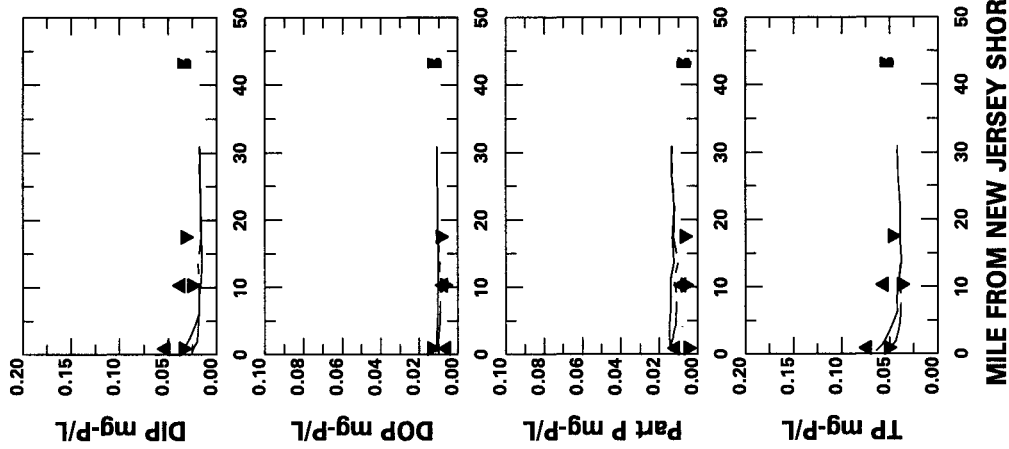
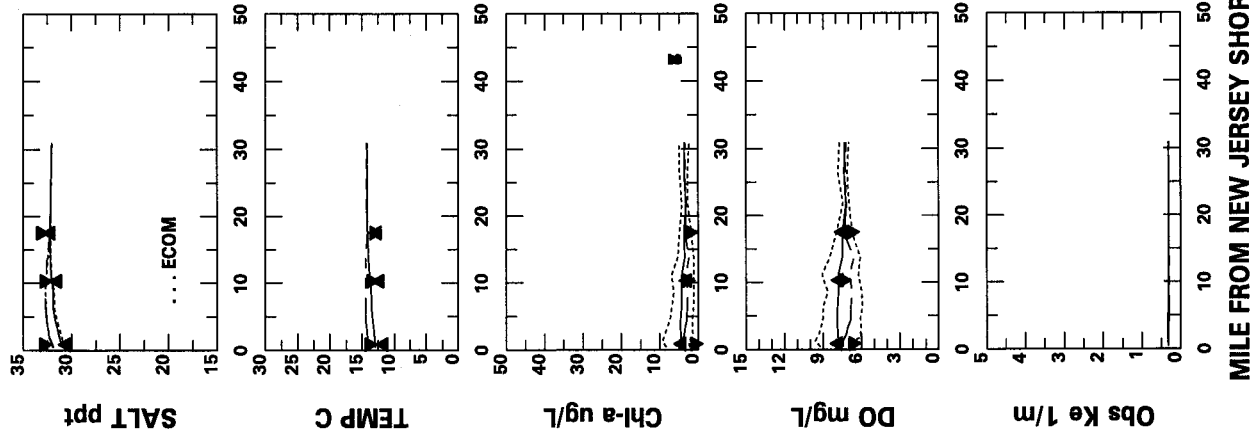
▲ T B

○ t b

Transect Embayment

NEW YORK BIGHT EAST-WEST TRANSECT 1 RUN 9495-BC3: SWEM REVISED CALIBRATION

**SPATIAL DISTRIBUTIONS OF
N.Y. BIGHT
EAST-WEST TRANSECT 2**



DATA

Battelle Nov 12-17, 1994

▲ Transect

▼ Embayment

SURF BOT

T B

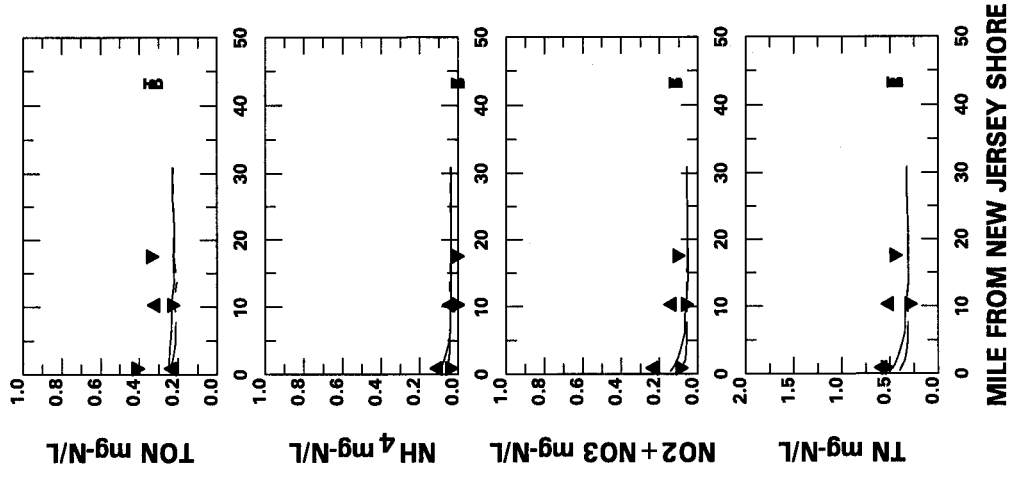
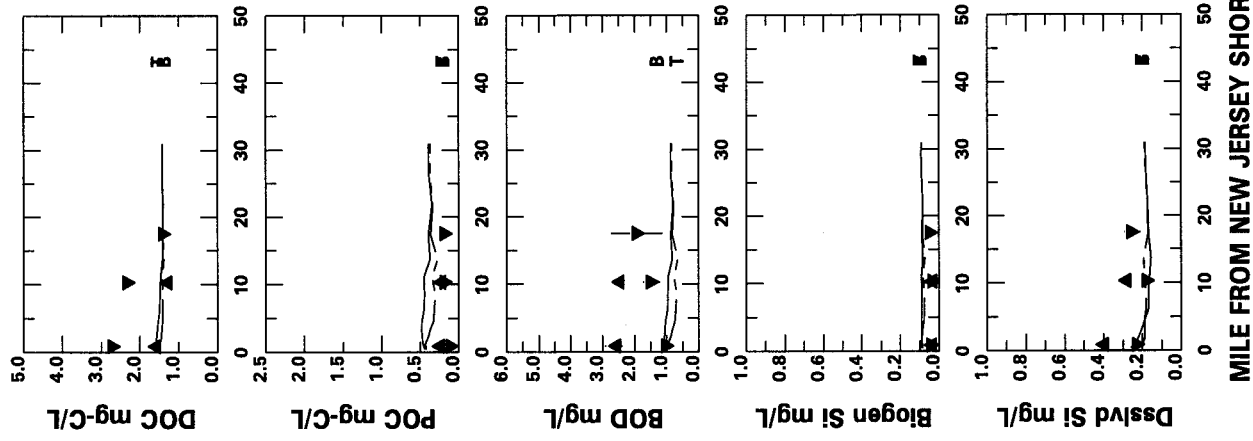
MODEL

— SURFACE 10-DAY MEAN

--- BOTTOM 10-DAY MEAN

- - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



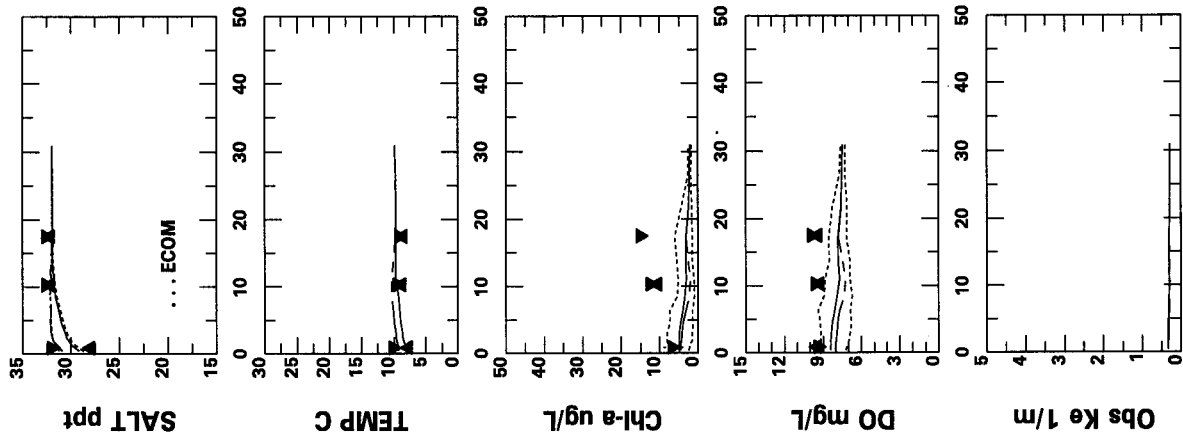
DATA

Battelle Nov 12-17, 1994

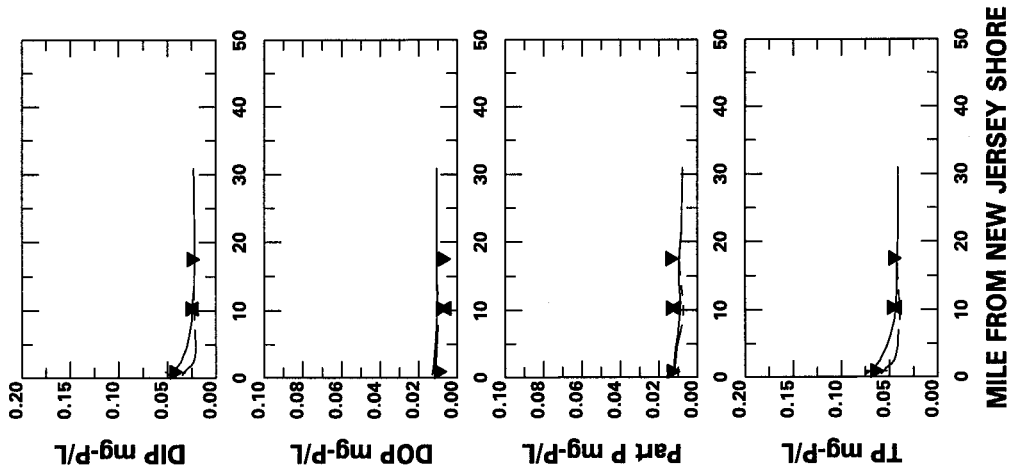
MODEL

—	SURFACE 10-DAY MEAN
- - -	BOTTOM 10-DAY MEAN
- -	10-DAY SURFACE MAX OR BOTTOM MIN

**NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3
SWEM REVISED CALIBRATION**



MILE FROM NEW JERSEY SHORE



DATA

Battelle Dec 10-16, 1994

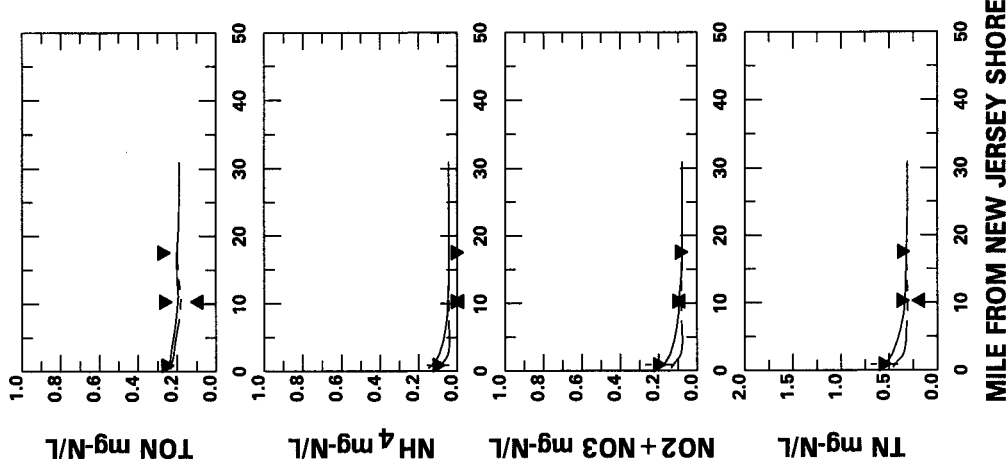
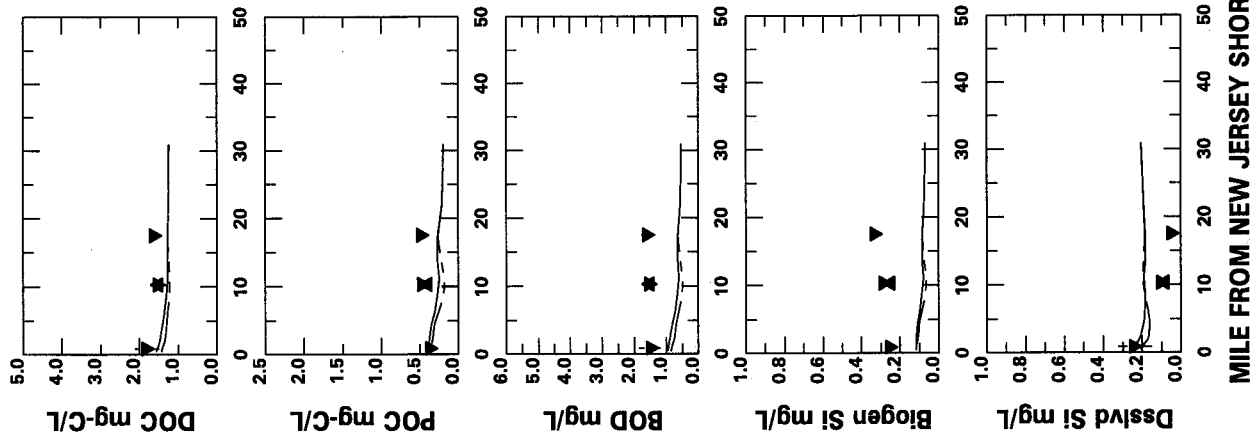
▲ Transect
 ▼ Embayment

MODEL

— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

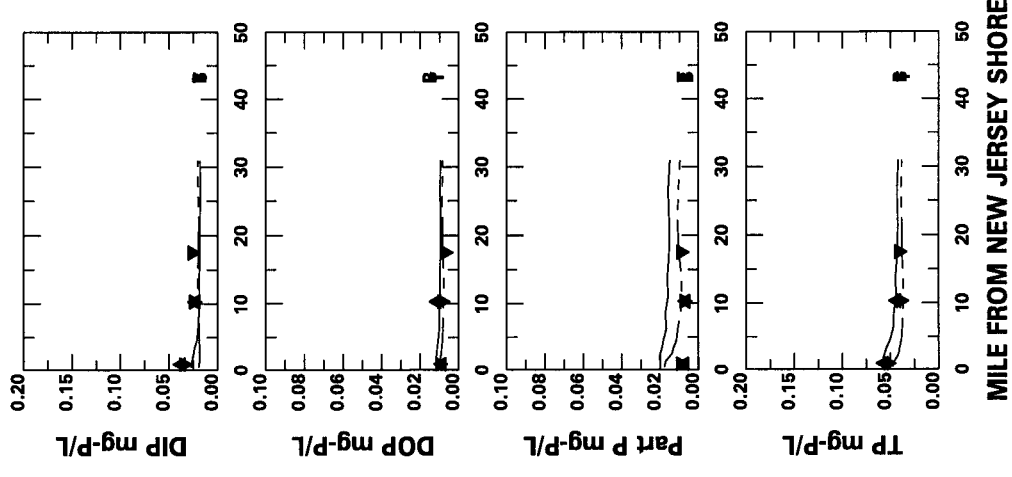
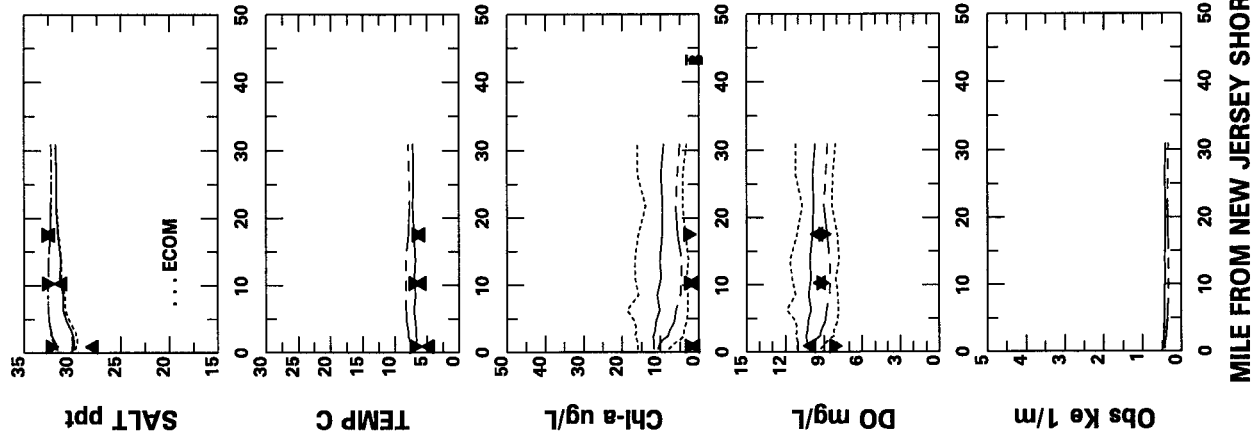
NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3

SWEM REVISED CALIBRATION



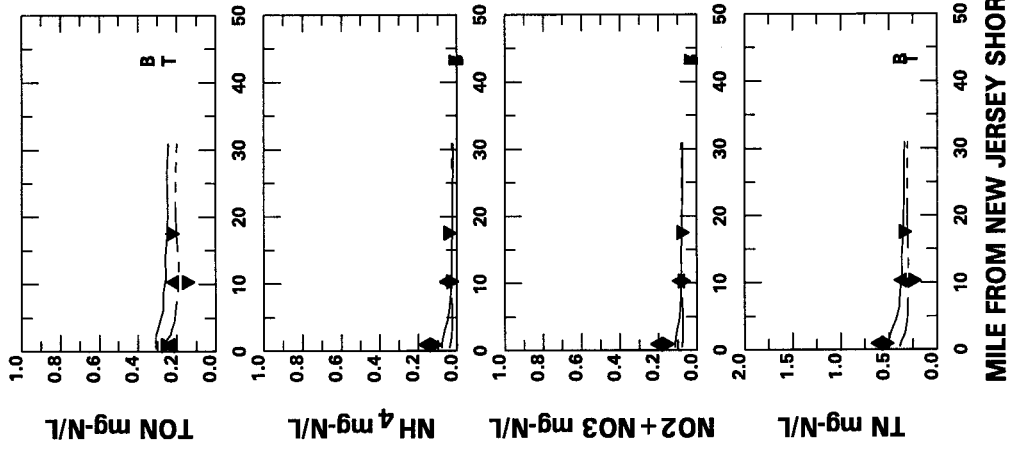
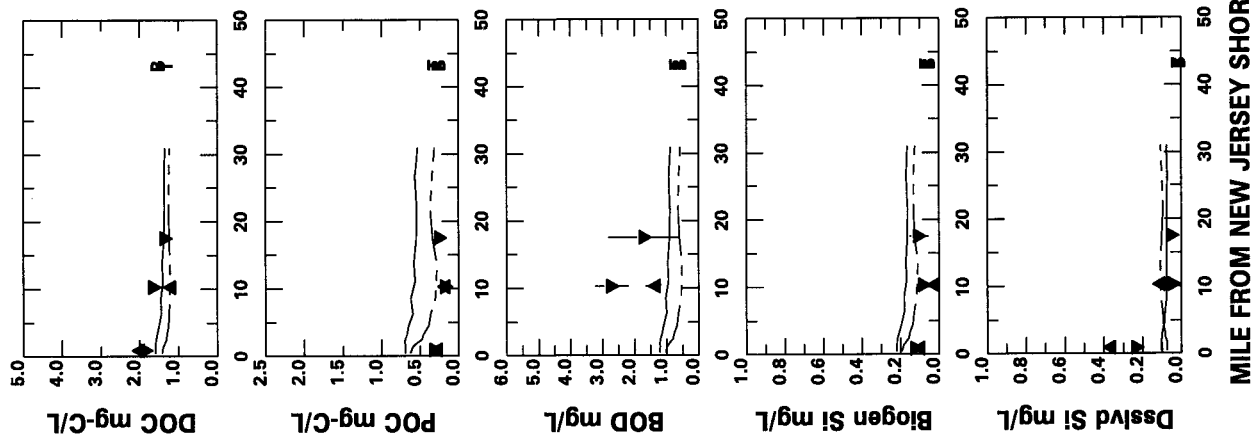
DATA	Battelle Dec 10-16, 1994	SURF BOT	Transect	MODEL
		▲	T	—
		▼	B	---
				- -
				10-DAY SURFACE MAX OR BOTTOM MIN
				SURFACE 10-DAY MEAN
				BOTTOM 10-DAY MEAN

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



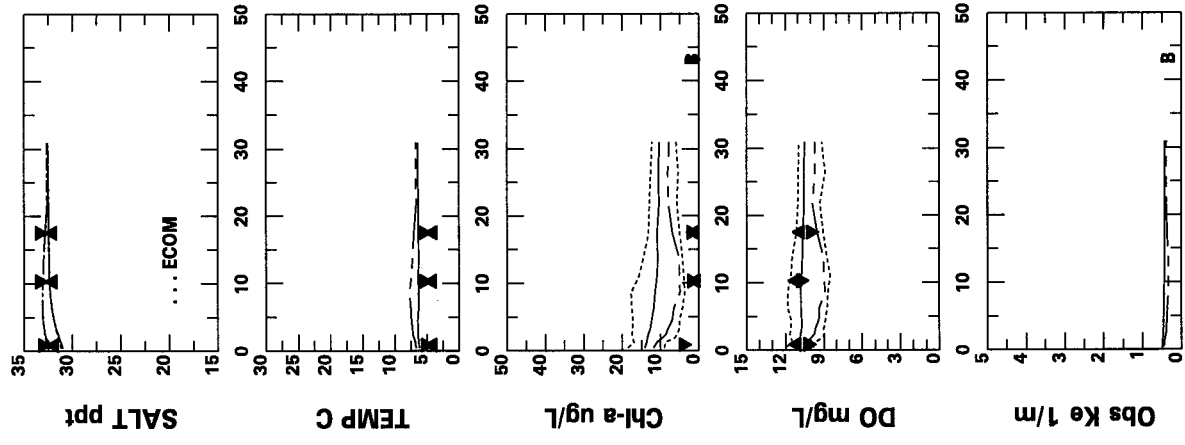
DATA	Battelle Jan 23-31, 1995	SURF BOT	MODEL
Transect	▲	▼	—
Embayment	T	B	---
			- -
			10-DAY SURFACE MAX OR BOTTOM MIN
			SURFACE 10-DAY MEAN
			BOTTOM 10-DAY MEAN

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION

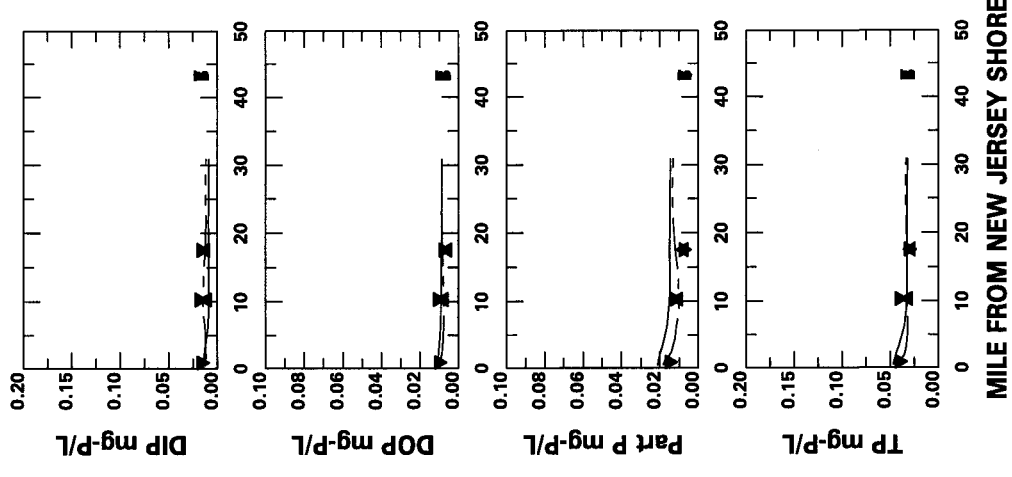


DATA	Battelle Jan 23-31, 1995	SURF	BOT	MODEL	
	▲	▼	Transect	—	SURFACE 10-DAY MEAN
	■	■	Embayment	- - -	BOTTOM 10-DAY MEAN
				- - -	10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



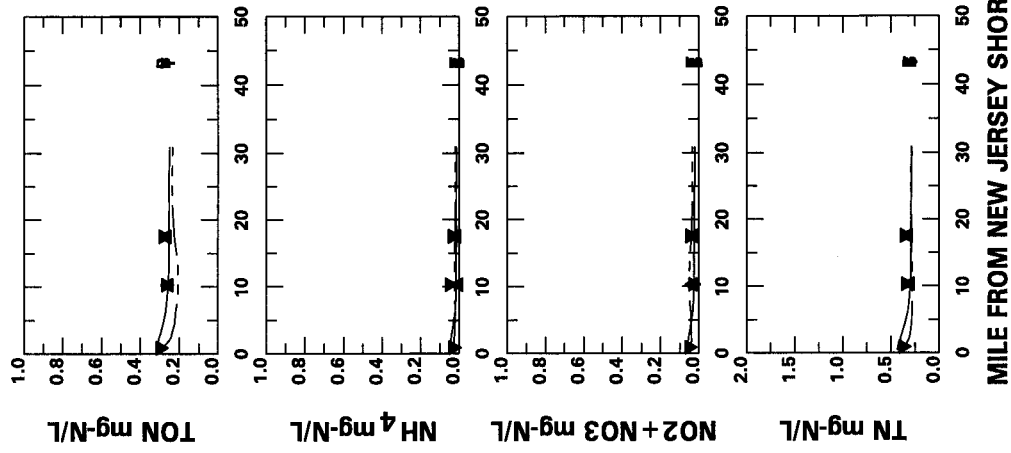
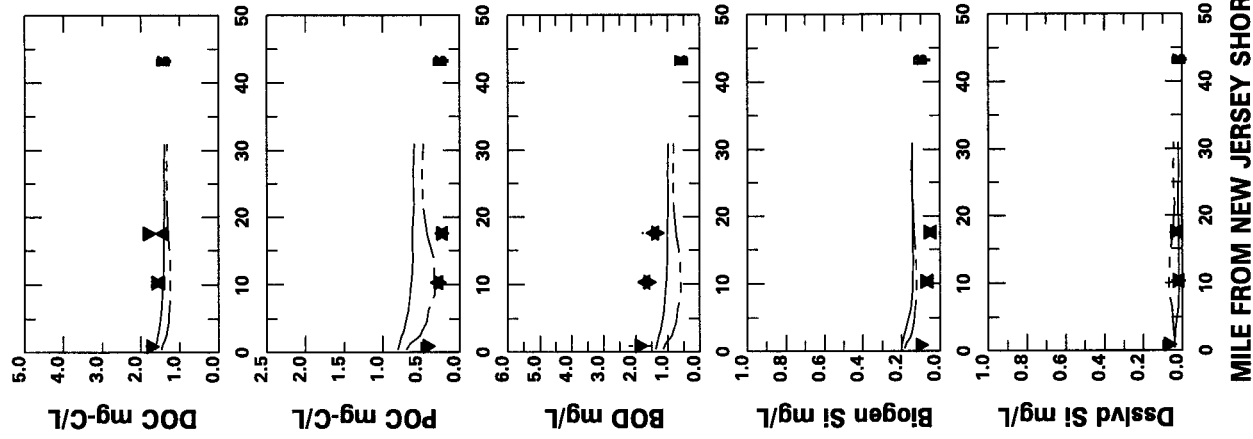
MILE FROM NEW JERSEY SHORE



MILE FROM NEW JERSEY SHORE

DATA	Battelle Feb 22-Mar 1, 1995	SURF BOT	Transect	MODEL
		▲	T	—
		▼	B	---
			Embayment	- -
				10-DAY SURFACE MAX OR BOTTOM MIN
				BOTTOM 10-DAY MEAN
				SURFACE 10-DAY MEAN

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

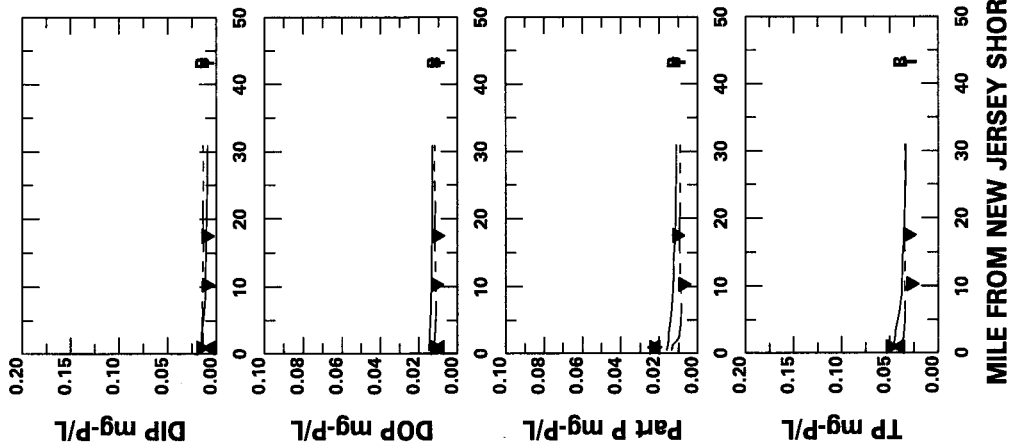
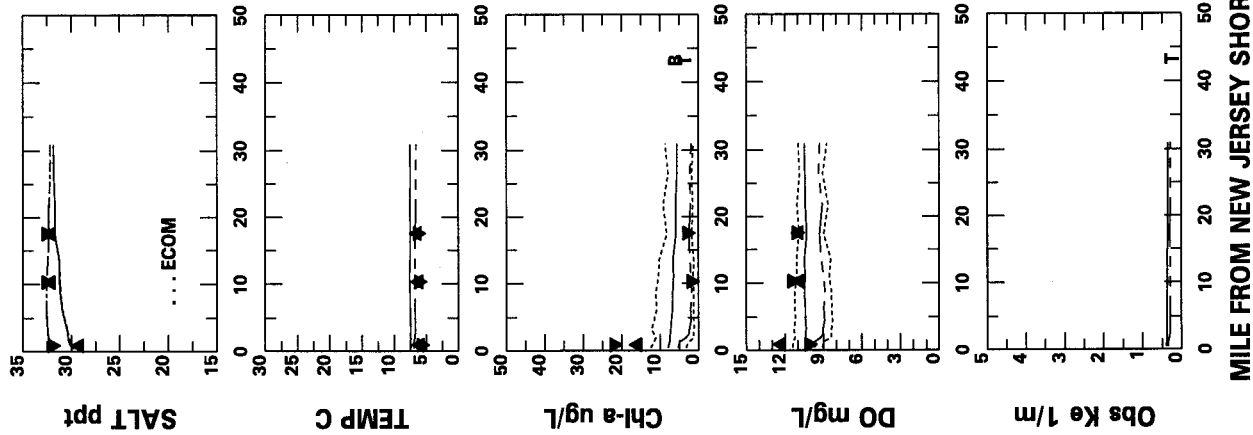
Battelle Feb 22-Mar 1,
1995

▲ Transect
T B Embayment

MODEL

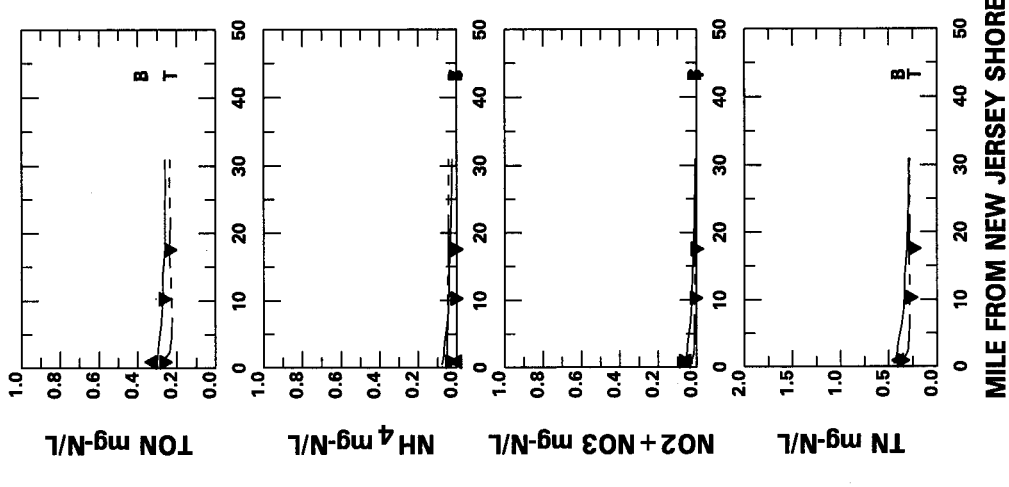
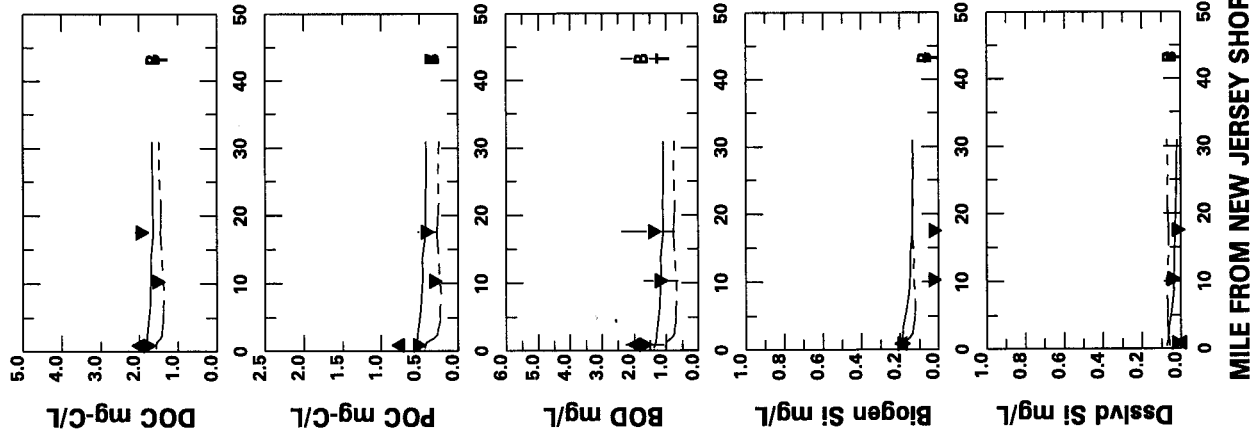
— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR
 BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



MODEL	DATA		SURF BOT	Transect	Embayment
	—	---		▲	▼
	—	---		T	B
	---	---			
	---	---			

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3
SWEM REVISED CALIBRATION



MODEL	SURFACE 10-DAY MEAN	BOTTOM 10-DAY MEAN	10-DAY SURFACE MAX OR BOTTOM MIN
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DATA

Battelle Mar 28-Apr 8, 1995

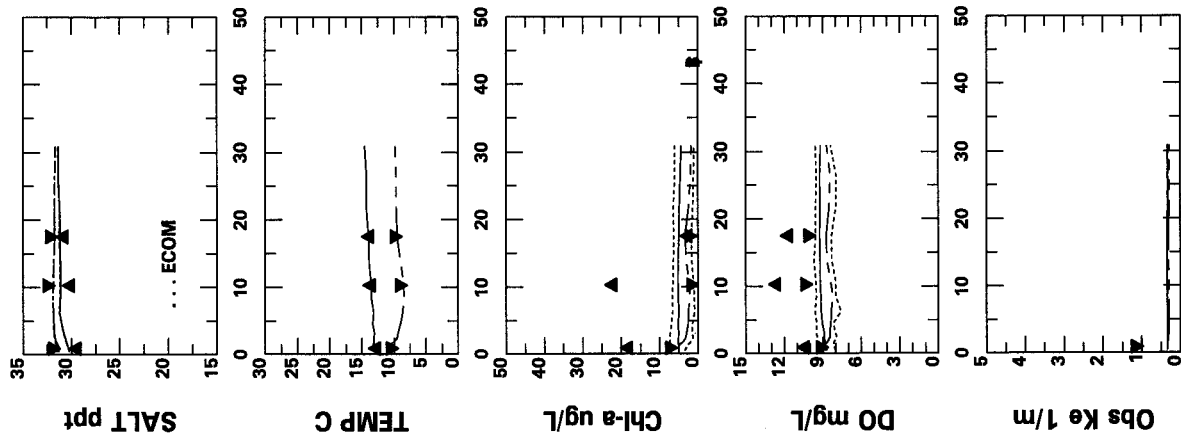
▲ Transect

▼ Embayment

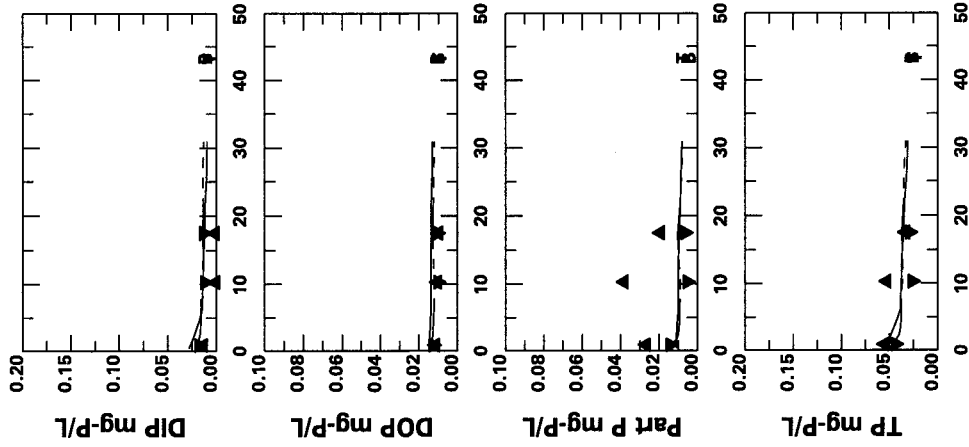
SURF BOT

T B

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



MILE FROM NEW JERSEY SHORE



MILE FROM NEW JERSEY SHORE

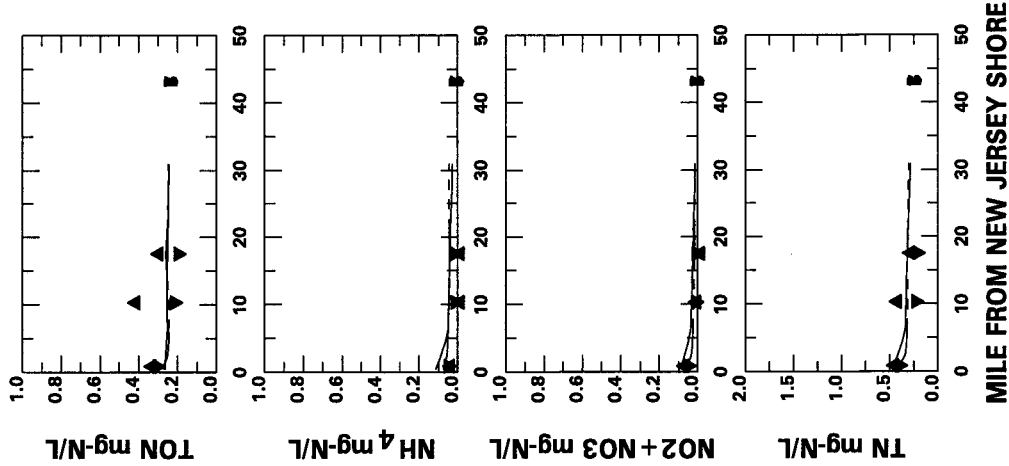
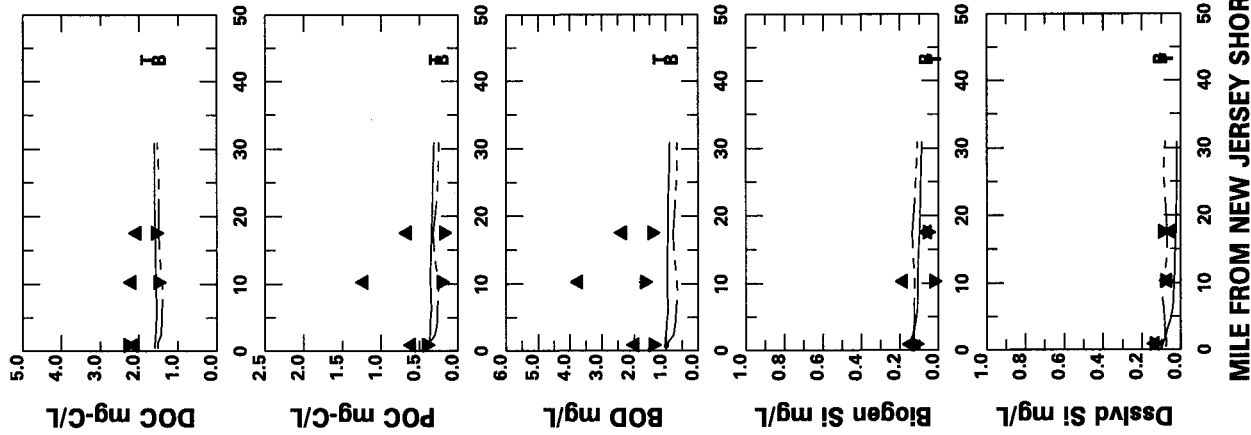
DATA

Battelle May 20-26, 1995
 SURF BOT
 T B Embayment

MODEL

— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995

▲ Transect T

▼ Embayment B

MODEL

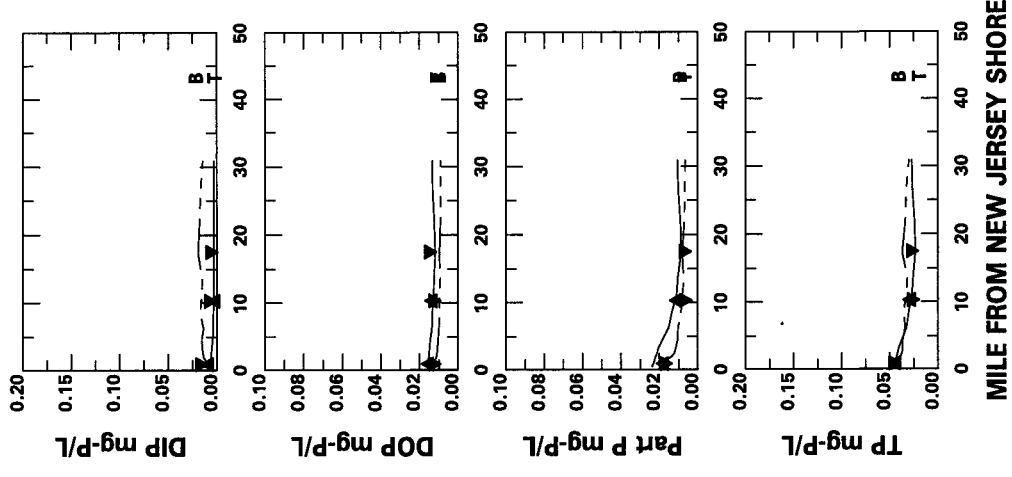
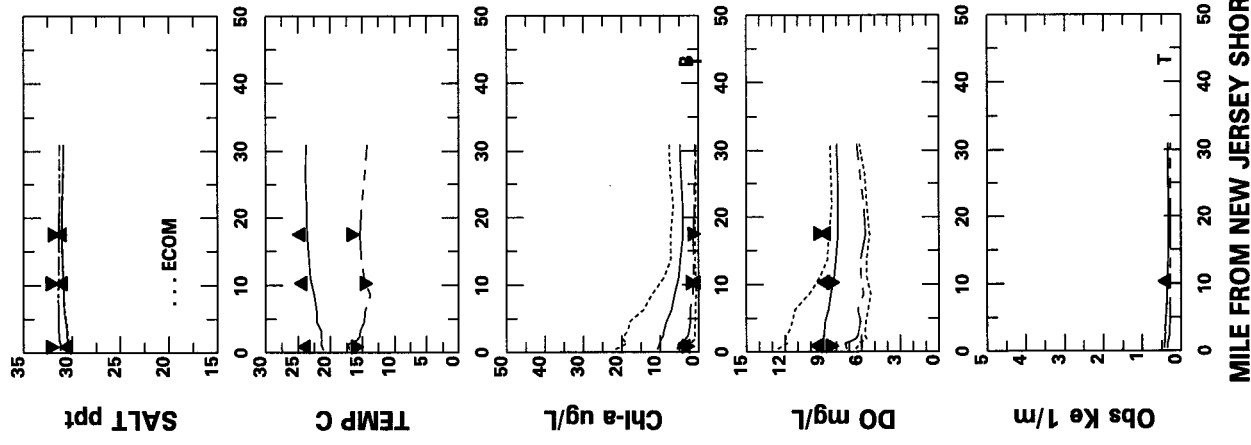
— SURFACE 10-DAY MEAN

--- BOTTOM 10-DAY MEAN

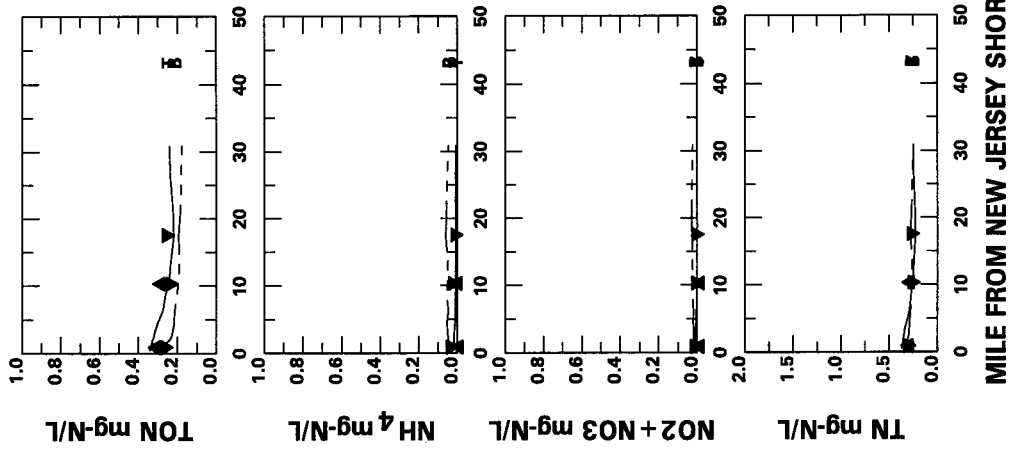
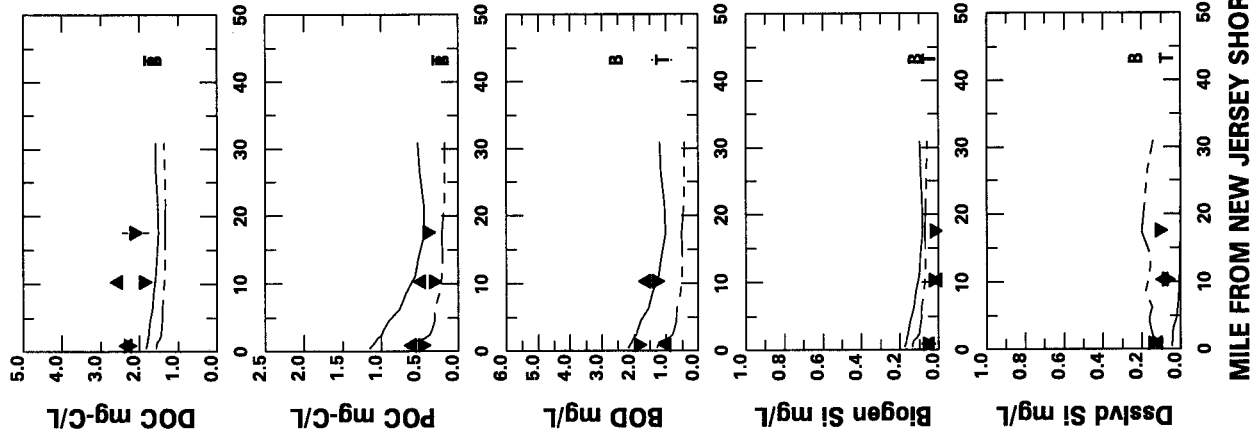
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3

SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL
Battelle July 20-Aug 2, 1995	▲ Transect	— SURFACE 10-DAY MEAN
	▼ Embayment	- - - BOTTOM 10-DAY MEAN
		- - - 10-DAY SURFACE MAX OR BOTTOM MIN



DATA

Battelle July 20-Aug 2, 1995

▲ Transect

▼ Embayment

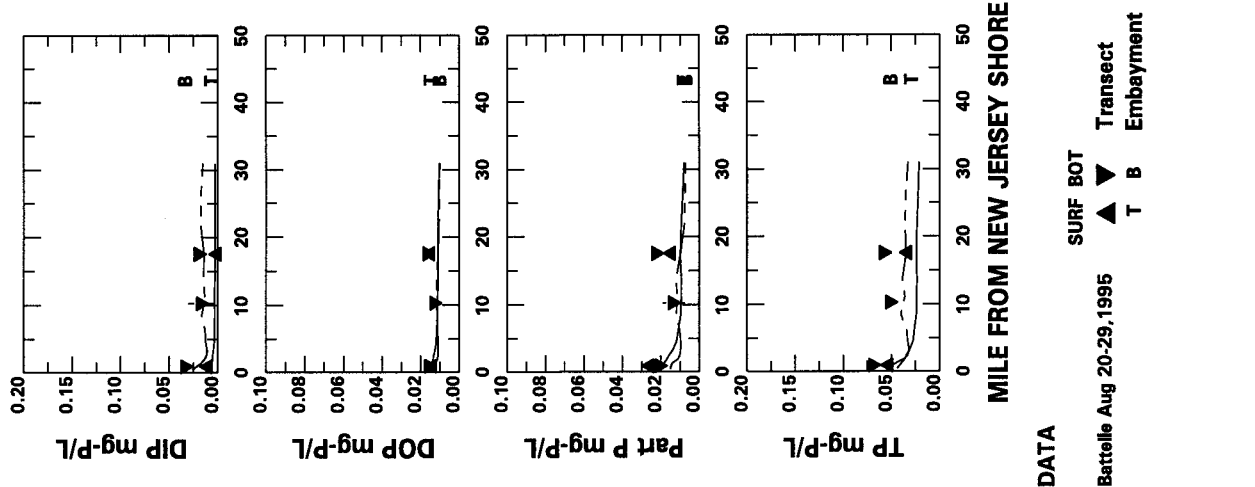
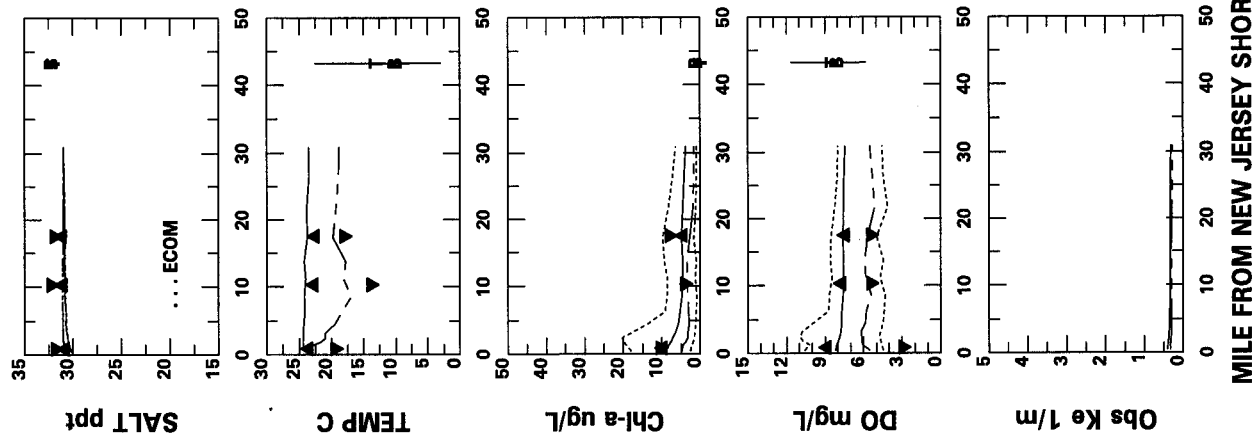
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

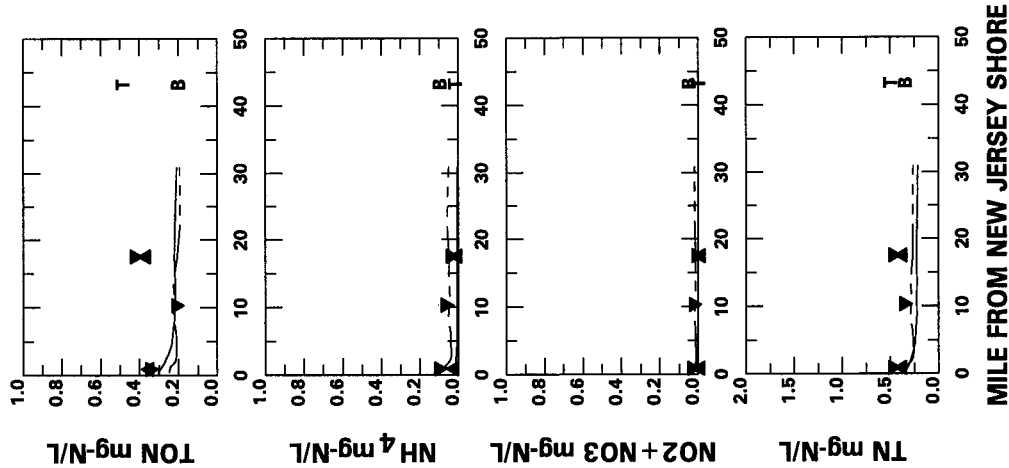
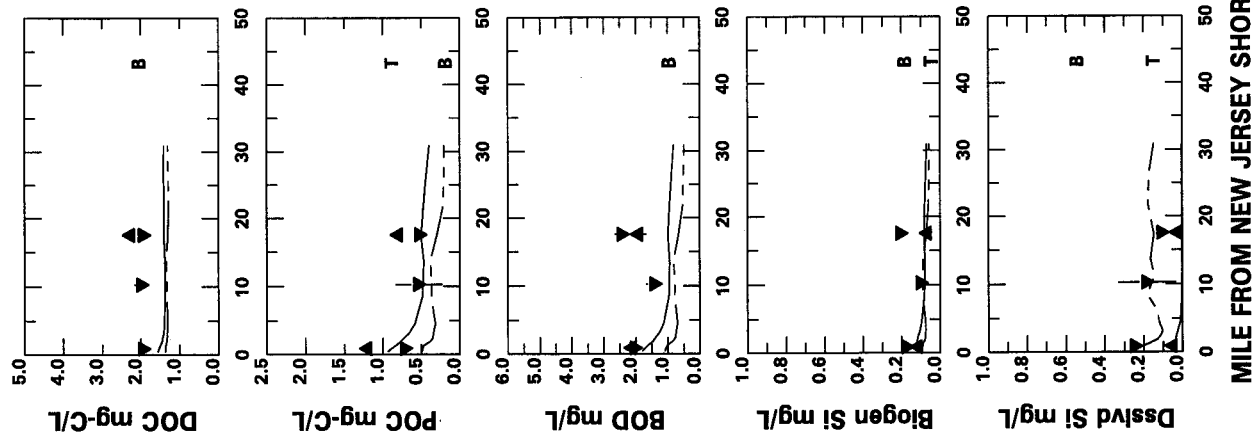
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3

SWEM REVISED CALIBRATION



DATA

Battelle Aug 20-29, 1995

▲ Transect
▼ Embayment

T B

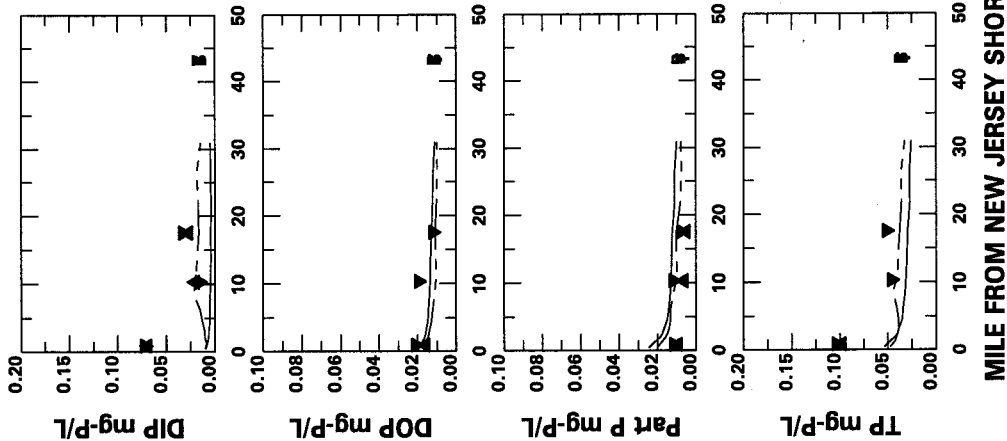
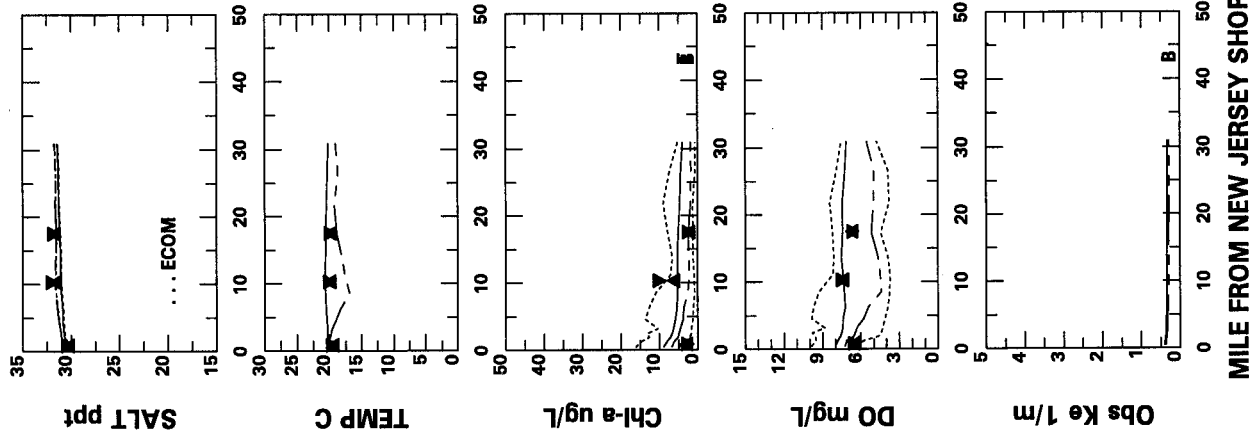
MODEL

— SURFACE 10-DAY MEAN

--- BOTTOM 10-DAY MEAN

- - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Sep 23-Oct 2, 1995

SURF BOT

▲ T Embayment

▼ B

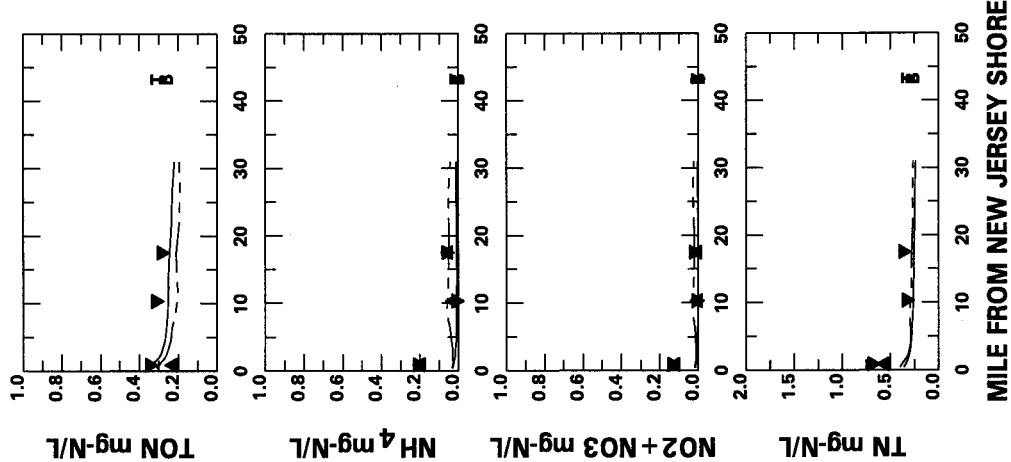
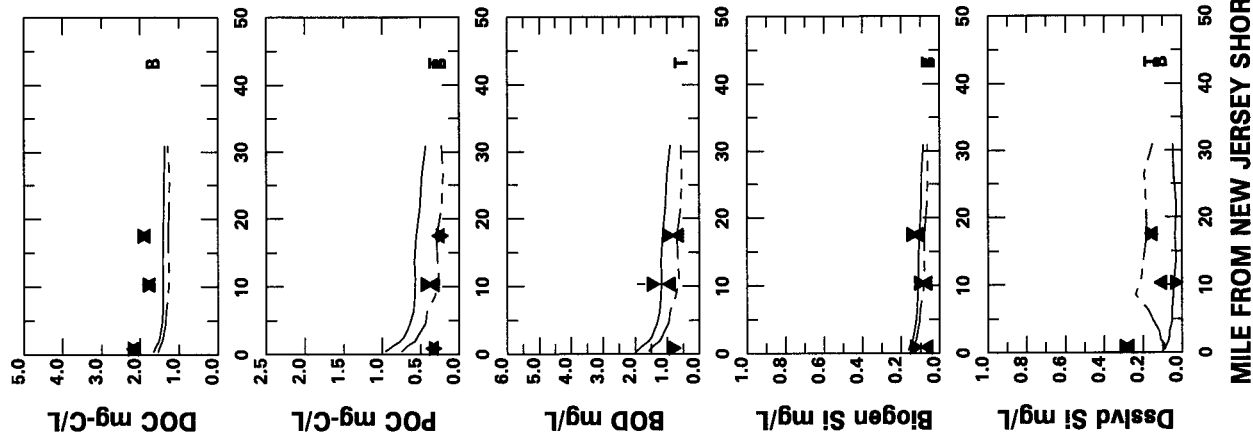
MODEL

— SURFACE 10-DAY MEAN

--- BOTTOM 10-DAY MEAN

- - 10-DAY SURFACE MAX OR BOTTOM MIN

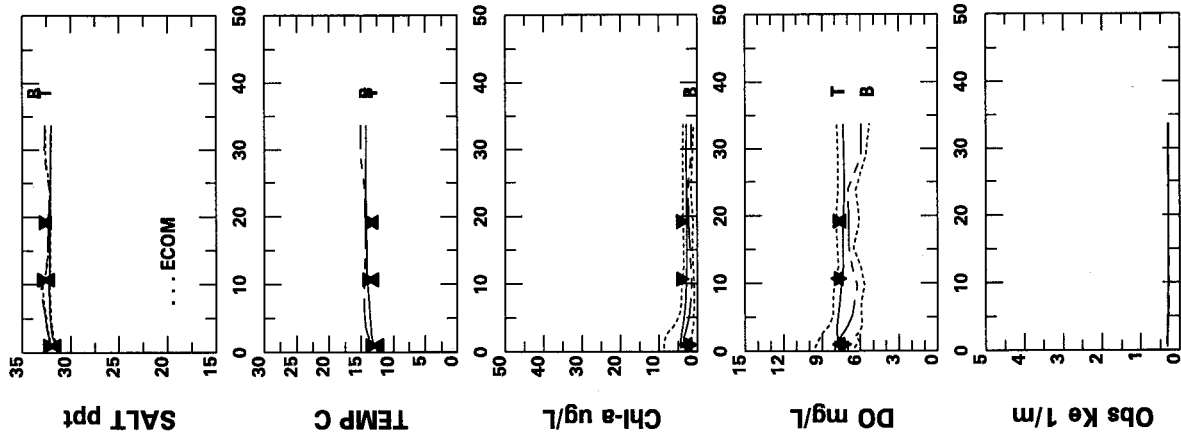
NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



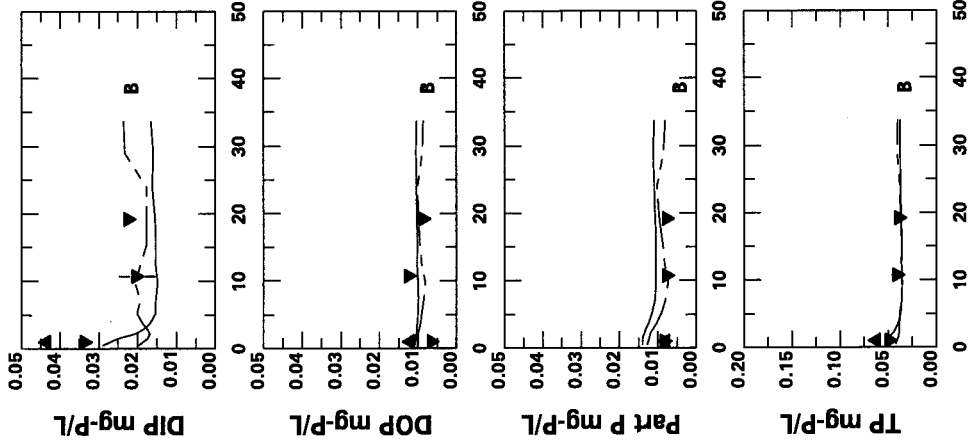
DATA	SURF BOT	MODEL
Battelle Sep 23-Oct 2, 1995	▲ T	—
Transect	▼ B	---
Embayment		- -
		10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION

**SPATIAL DISTRIBUTIONS OF
N.Y. BIGHT
EAST-WEST TRANSECT 3**



MILE FROM NEW JERSEY SHORE



MILE FROM NEW JERSEY SHORE

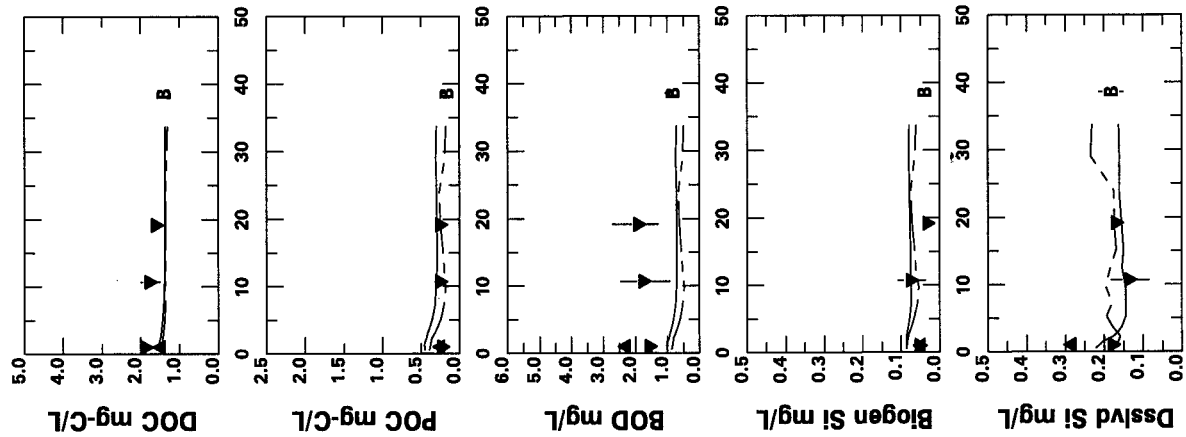
DATA

Battelle Nov 12-17, 1994
 SURF BOT
 ▲ T Embayment
 ▼ B

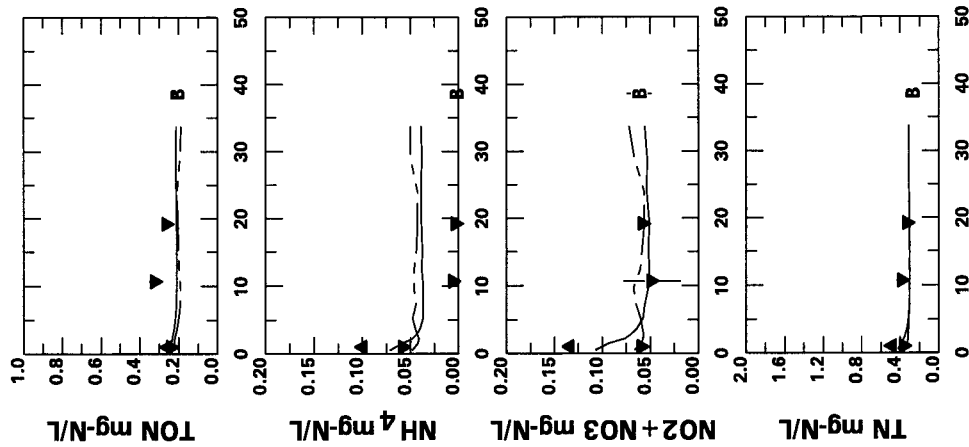
MODEL

— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3
 SWEM REVISED CALIBRATION



MILE FROM NEW JERSEY SHORE



MILE FROM NEW JERSEY SHORE

DATA

Battelle Nov 12-17, 1994

SURF BOT

▲ Transect

T B Embayment

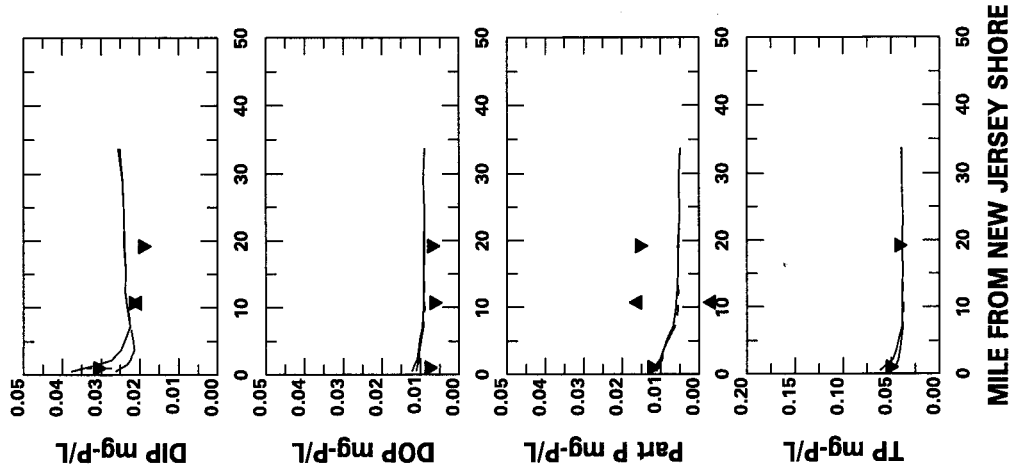
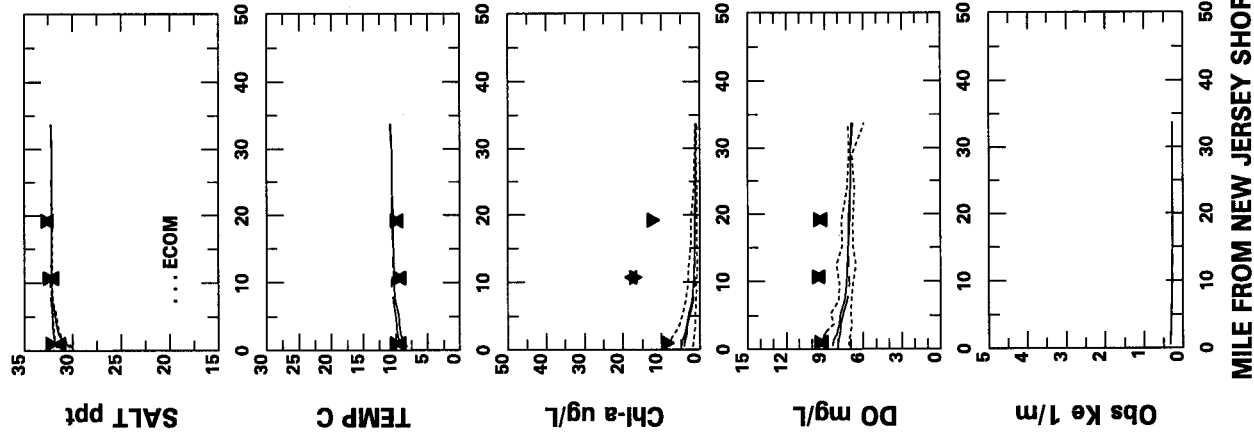
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Dec 10-16, 1994

SURF BOT

▲ T Embayment

▼ B Embayment

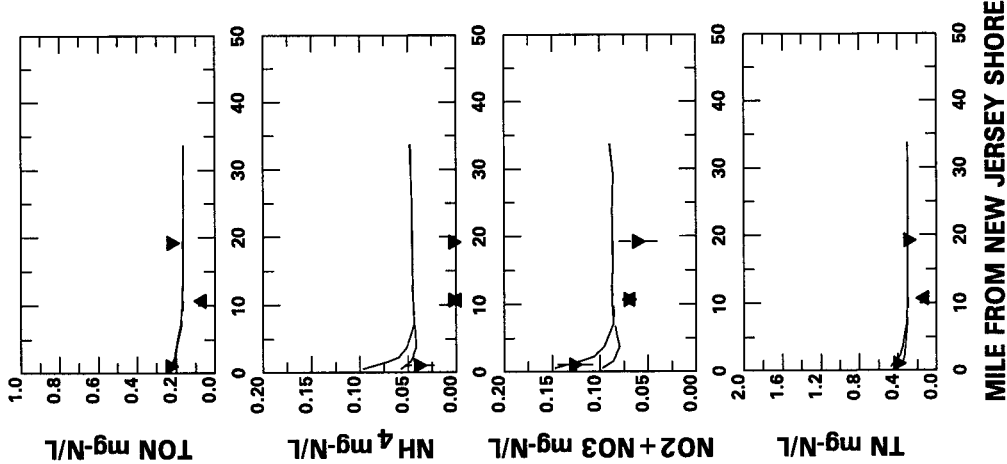
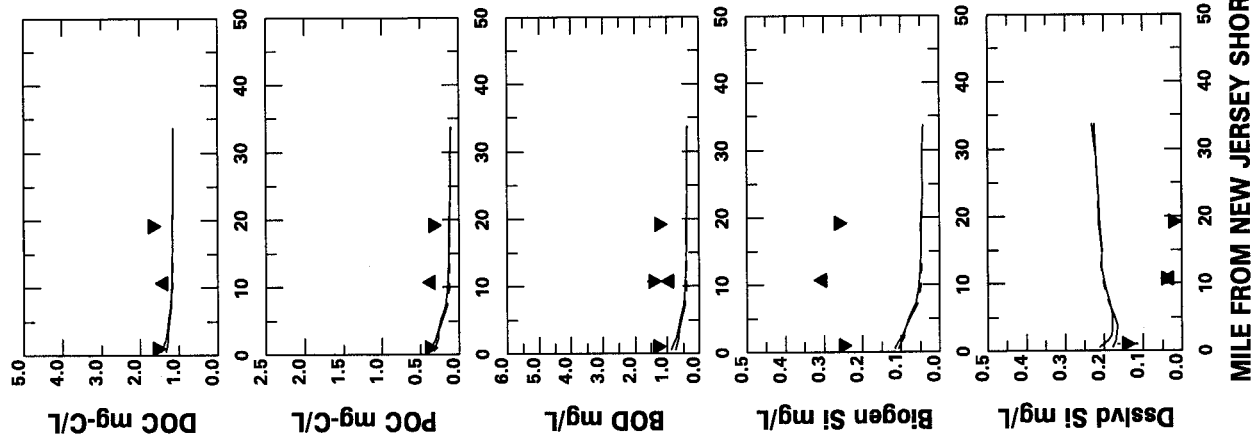
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

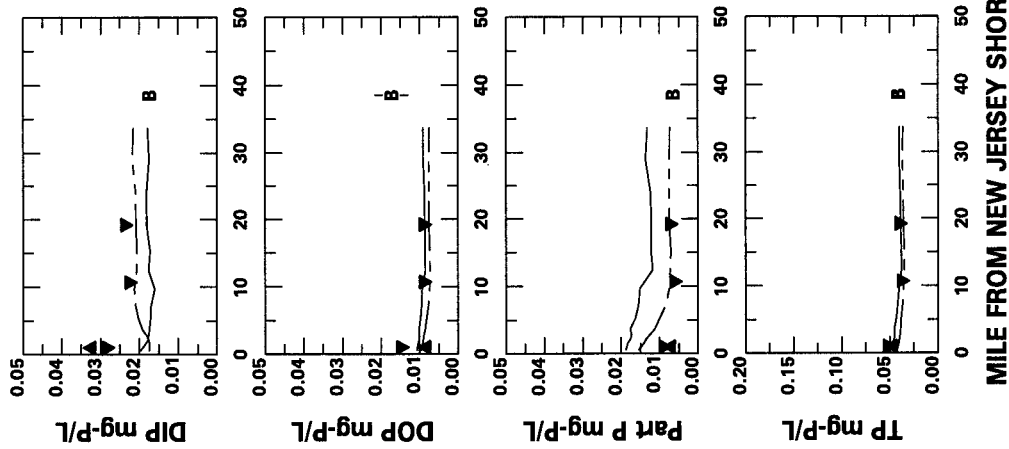
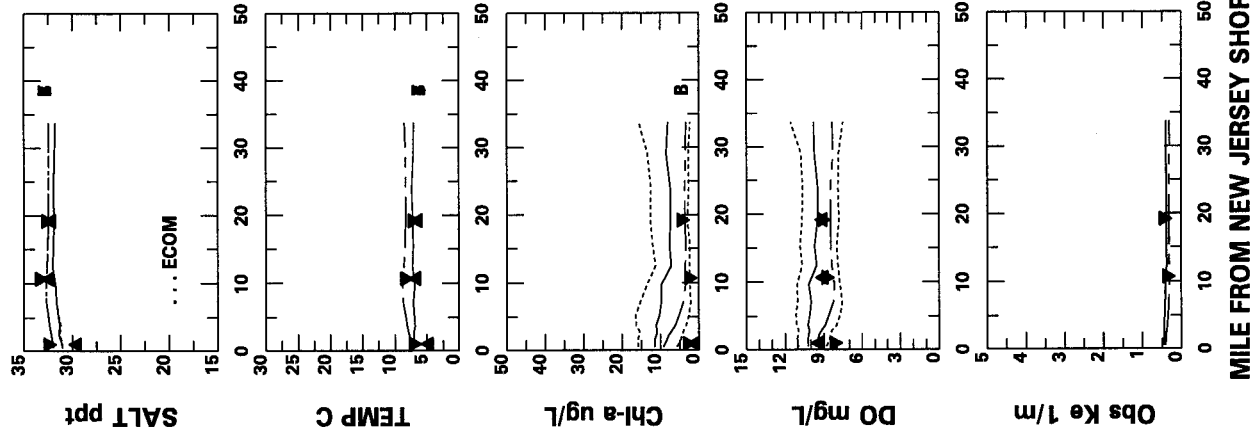
Battelle Dec 10-16, 1994

▲ Transect T
 ▼ Embayment B

MODEL

— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Jan 23-31, 1995

SURF BOT

▲ Transect

▼ Embayment

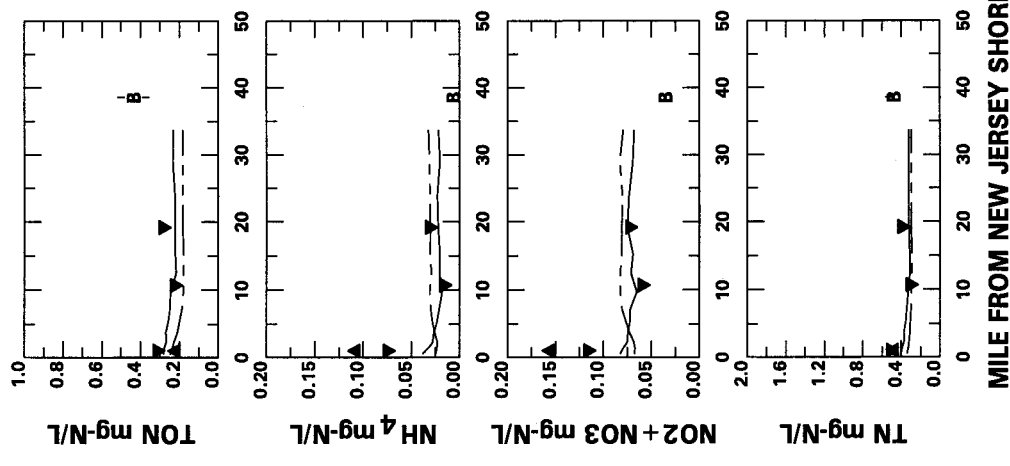
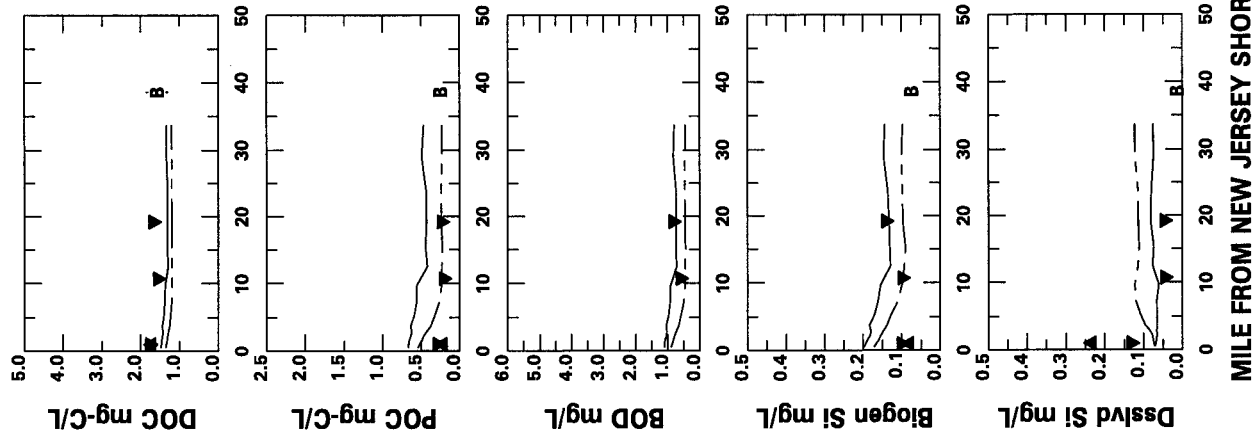
MODEL

— SURFACE 10-DAY MEAN

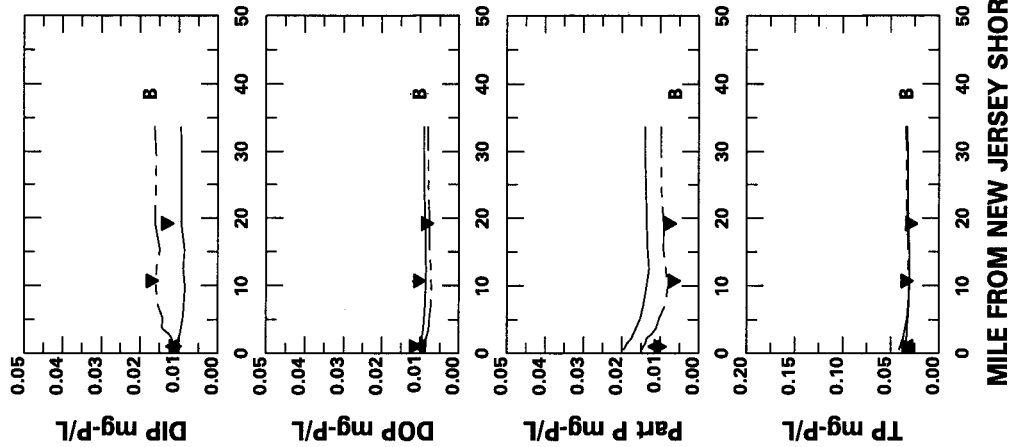
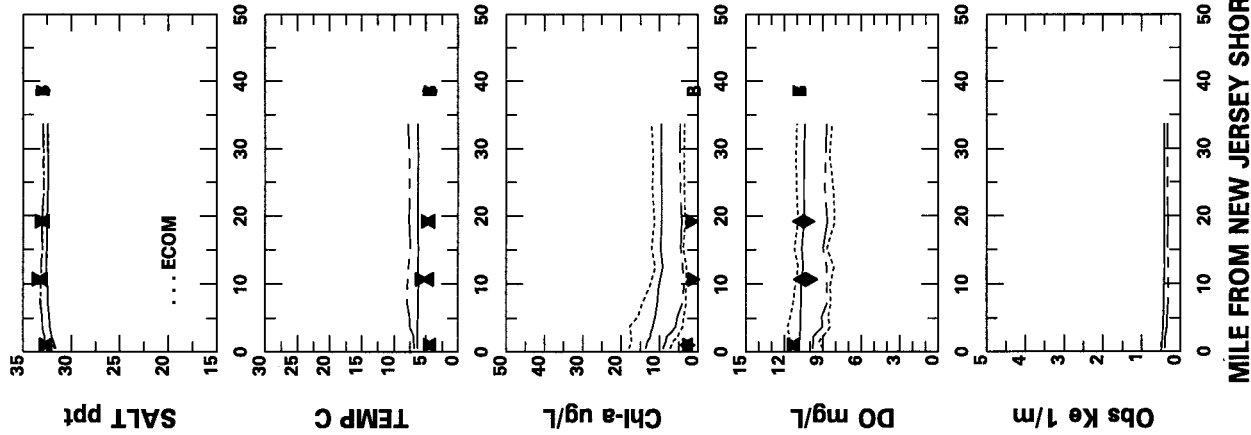
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3 **SWEM REVISED CALIBRATION**



DATA	SURF BOT	MODEL
Battelle Jan 23-31, 1995	▲ Transect	— SURFACE 10-DAY MEAN
	▼ Embayment	- - - BOTTOM 10-DAY MEAN
		— 10-DAY SURFACE MAX OR BOTTOM MIN



DATA

Battelle Feb 22-Mar 1,
1995

SURF BOT

▲ Transect

T B Embayment

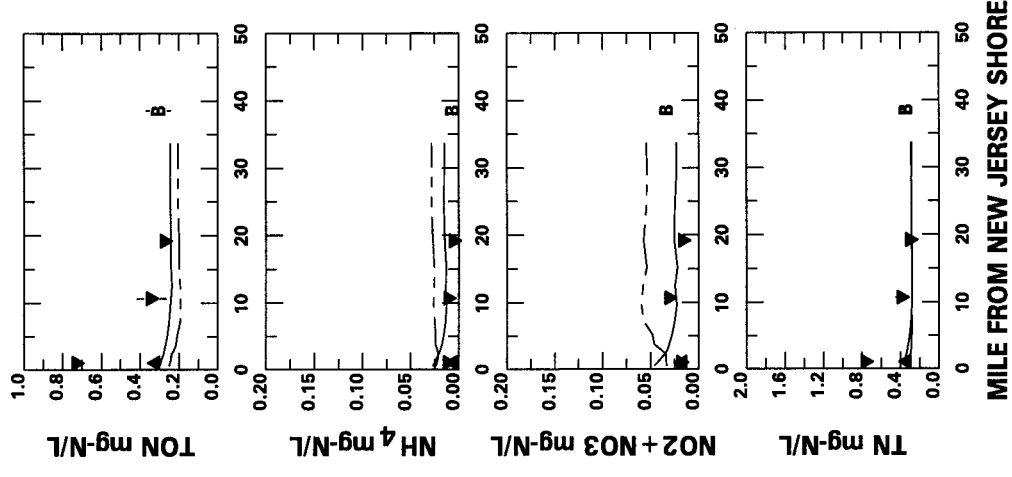
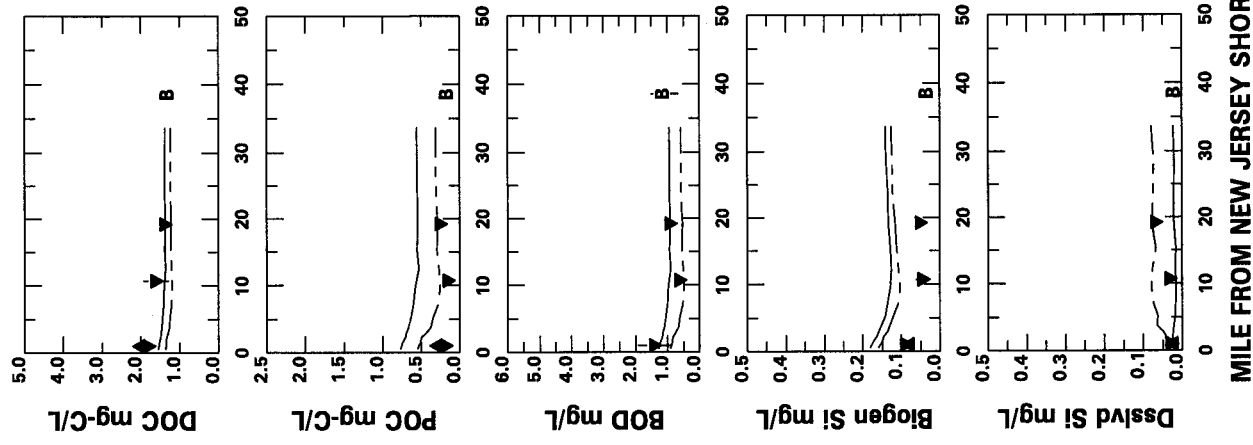
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

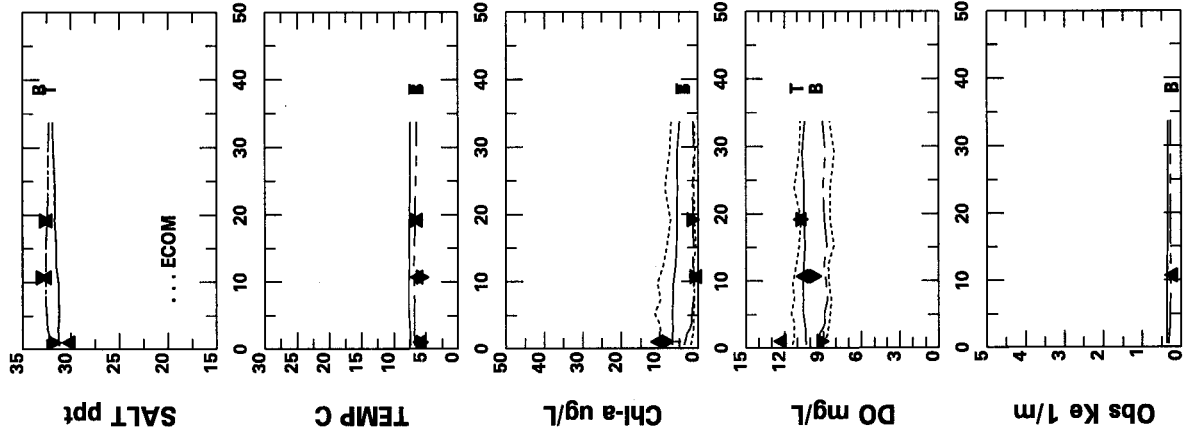
- . - . 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3 SWEM REVISED CALIBRATION

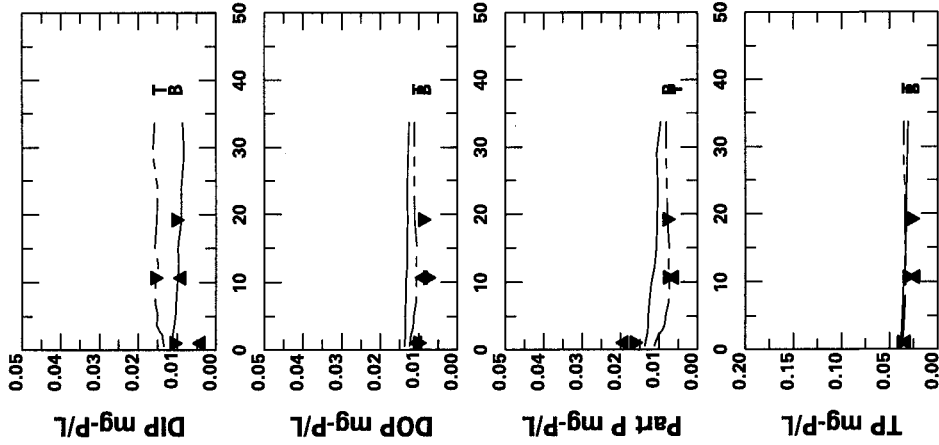


DATA	Battelle Feb 22-Mar 1, 1995	SURF BOT	Transect	MODEL
		▲	T	—
		▼	B	- - -
			Embayment	- -
				10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3
SWEM REVISED CALIBRATION



MILE FROM NEW JERSEY SHORE



MILE FROM NEW JERSEY SHORE

DATA

Battelle Mar 28-Apr 8, 1995

SURF BOT

▲ Transect

▼ Embayment

MODEL

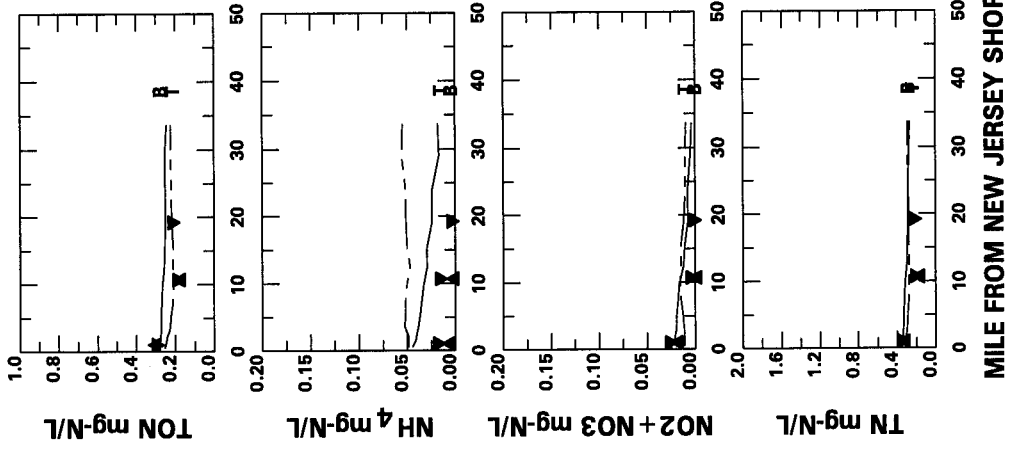
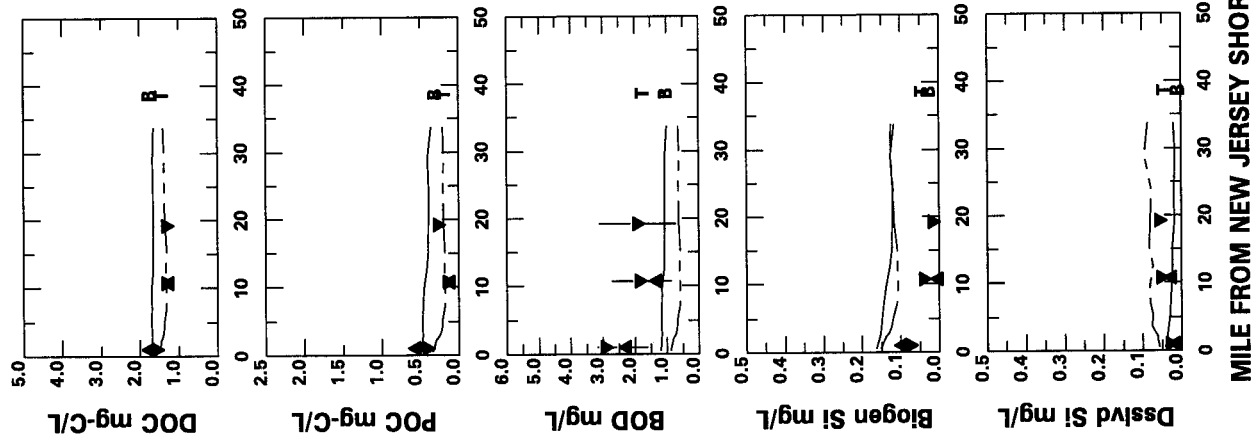
— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

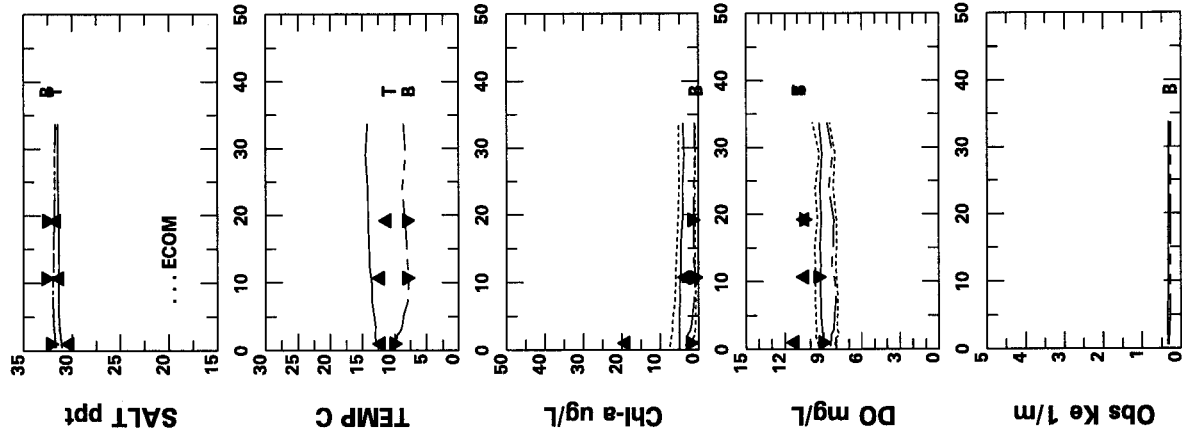
NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3

SWEM REVISED CALIBRATION

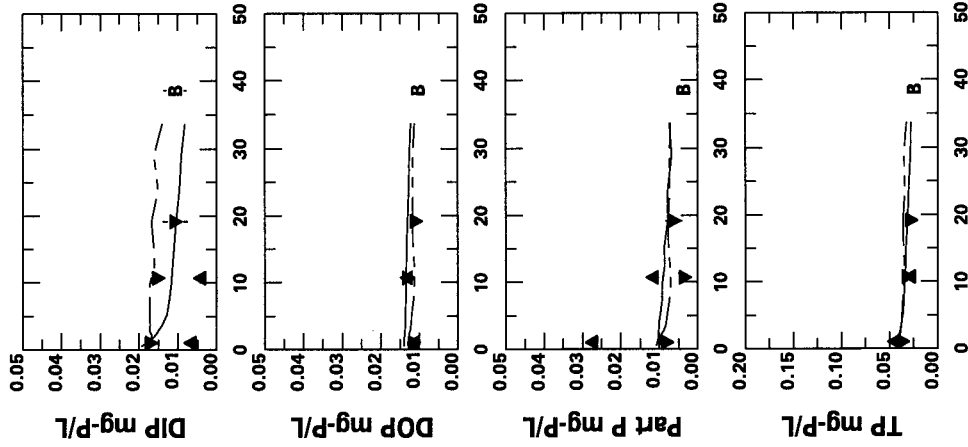


MODEL	DATA		MODEL
	Battelle Mar 28-Apr 8, 1995	SURF BOT	
—	▲ Transect	▲ T	SURFACE 10-DAY MEAN
- - -	▼ Embayment	▼ B	BOTTOM 10-DAY MEAN
- -			10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3
SWEM REVISED CALIBRATION



MILE FROM NEW JERSEY SHORE



MILE FROM NEW JERSEY SHORE

DATA

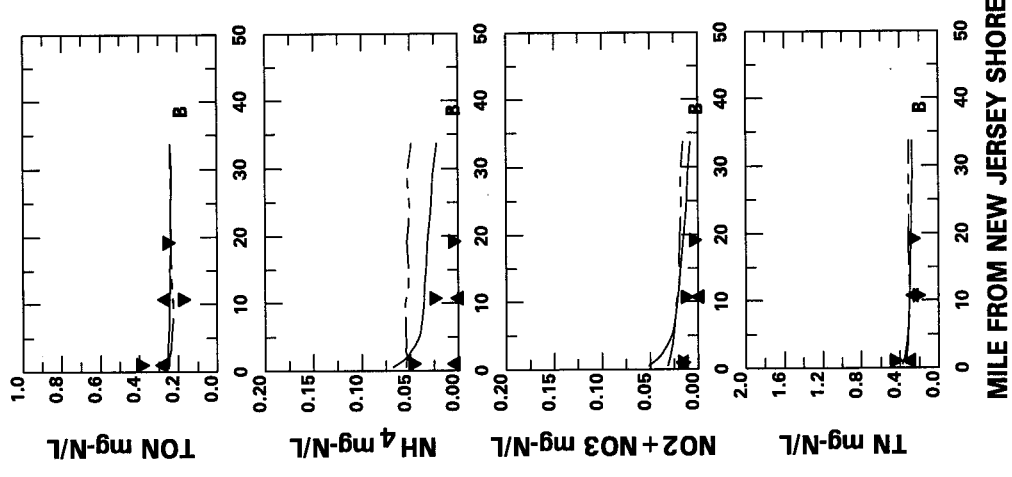
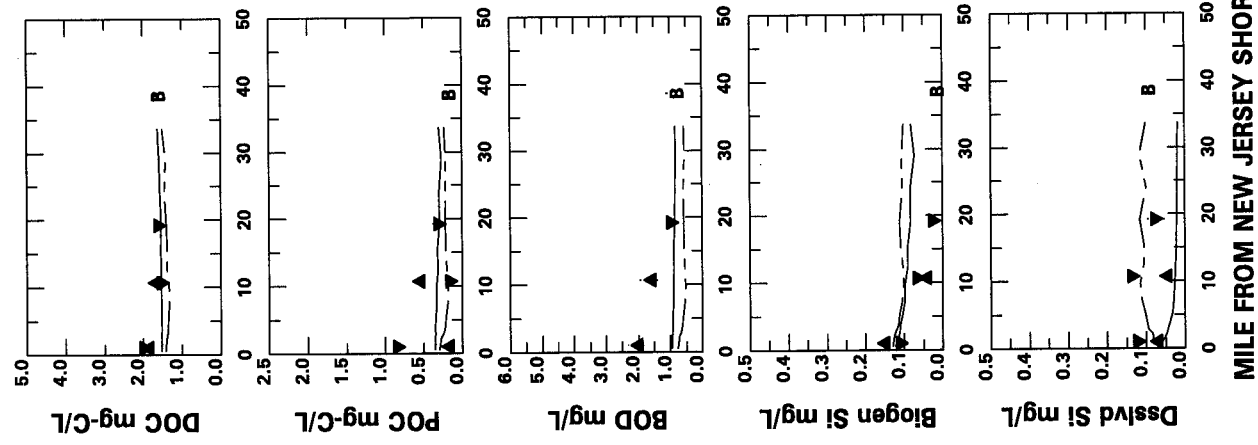
Battelle May 20-26, 1995

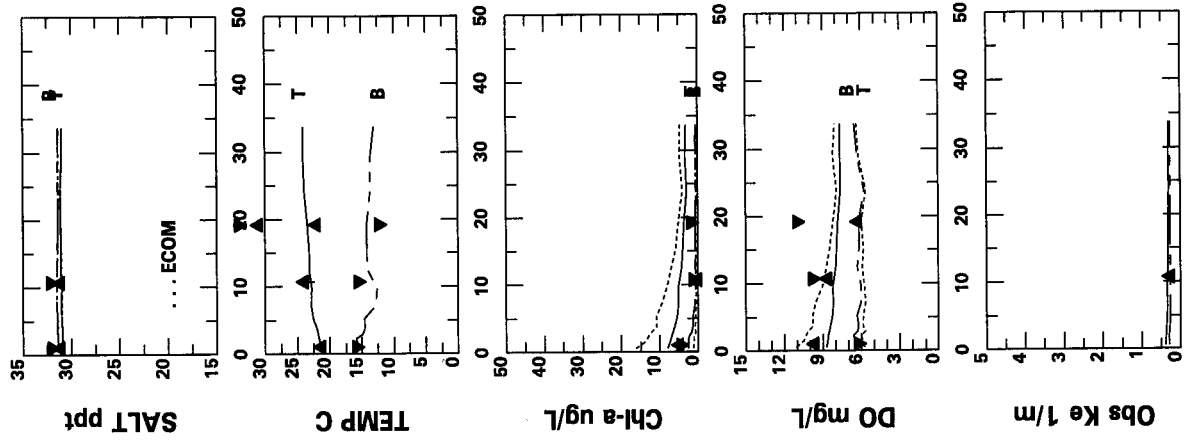
▲ Transect
 ▼ Embayment

MODEL

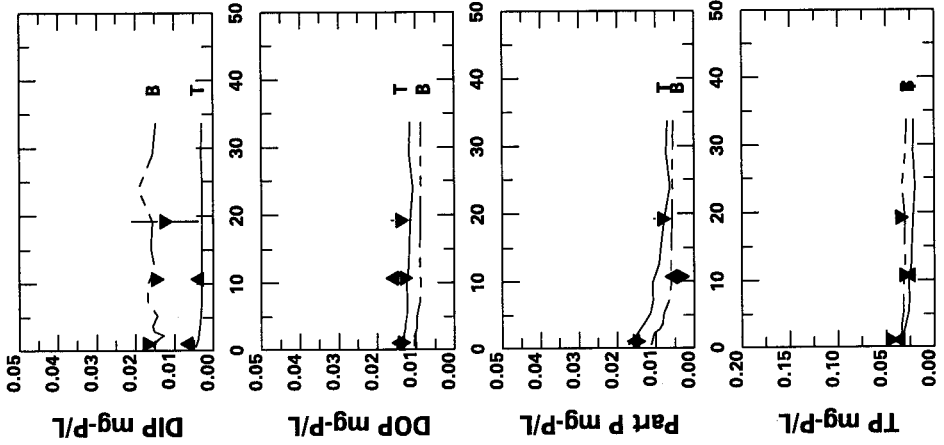
— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3 SWEM REVISED CALIBRATION





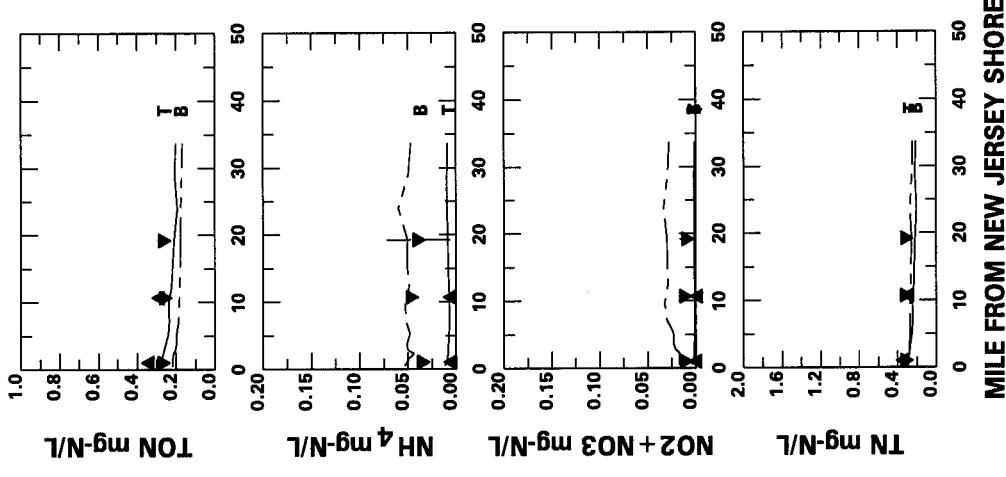
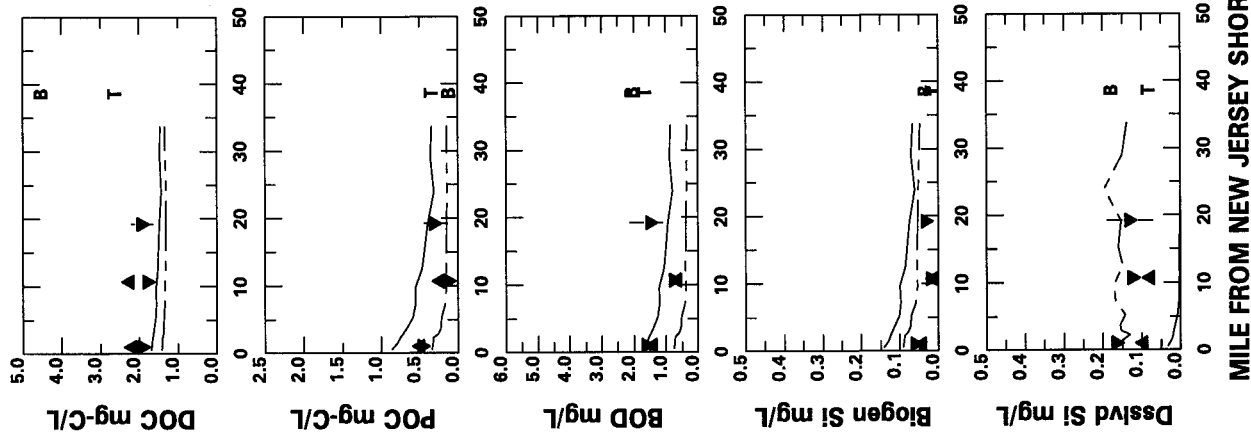
MILE FROM NEW JERSEY SHORE



MILE FROM NEW JERSEY SHORE

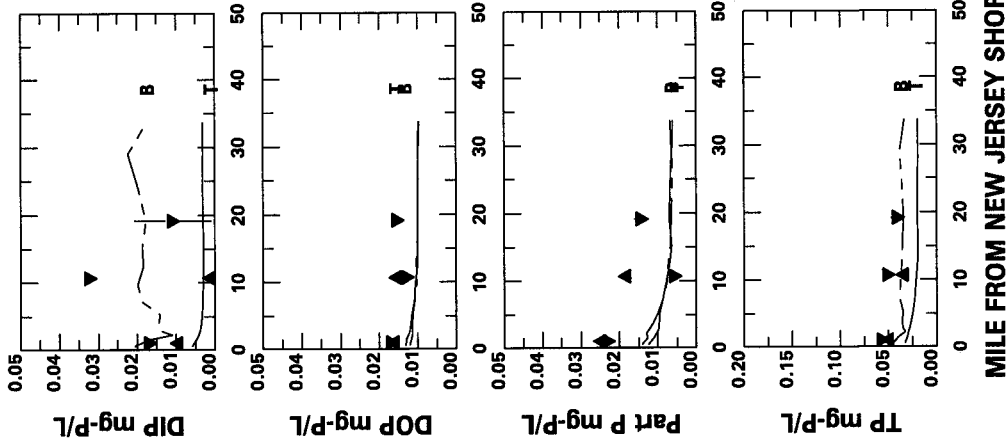
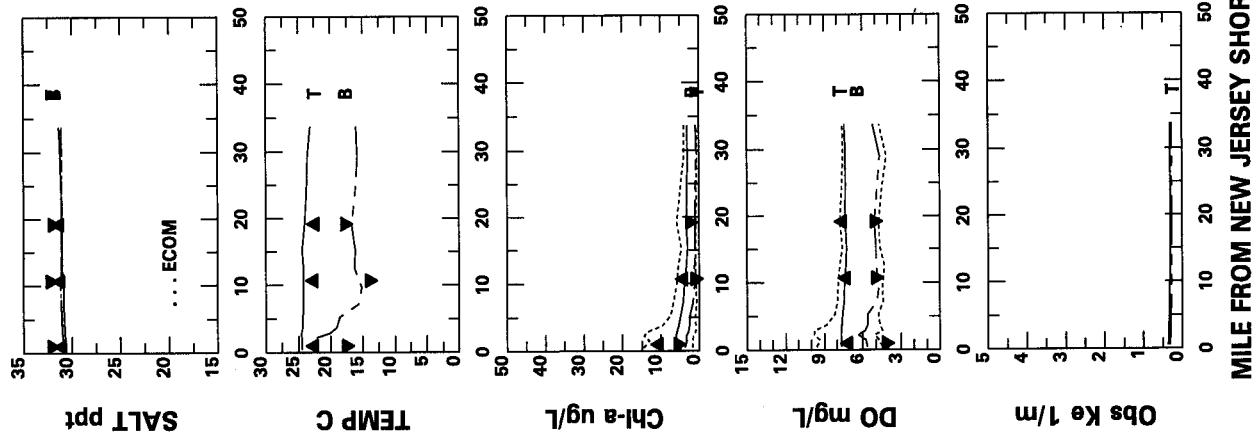
DATA	Battelle July 20-Aug 2, 1995	SURF BOT	Transect	MODEL
		▲	T	SURFACE 10-DAY MEAN
		▼	B	BOTTOM 10-DAY MEAN
				10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3 SWEM REVISED CALIBRATION



MODEL	DATA	
	Battelle July 20-Aug 2, 1995	SURF BOT
—	▲	Transect
- - -	▼	Embayment
- -		

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3
SWEM REVISED CALIBRATION



DATA

Battelle Aug 20-29, 1995 **SURF BOT** **Transect** **Embayment**

▲ ▼ T B

MODEL

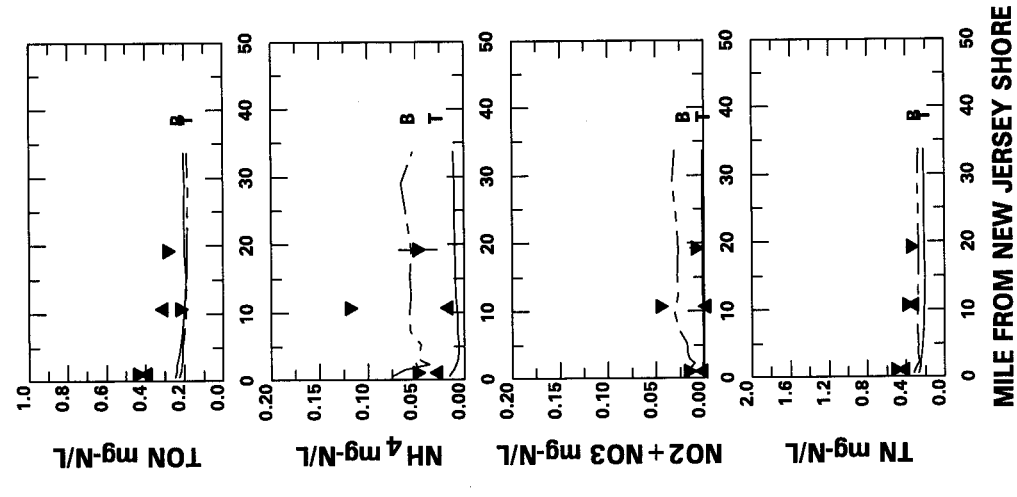
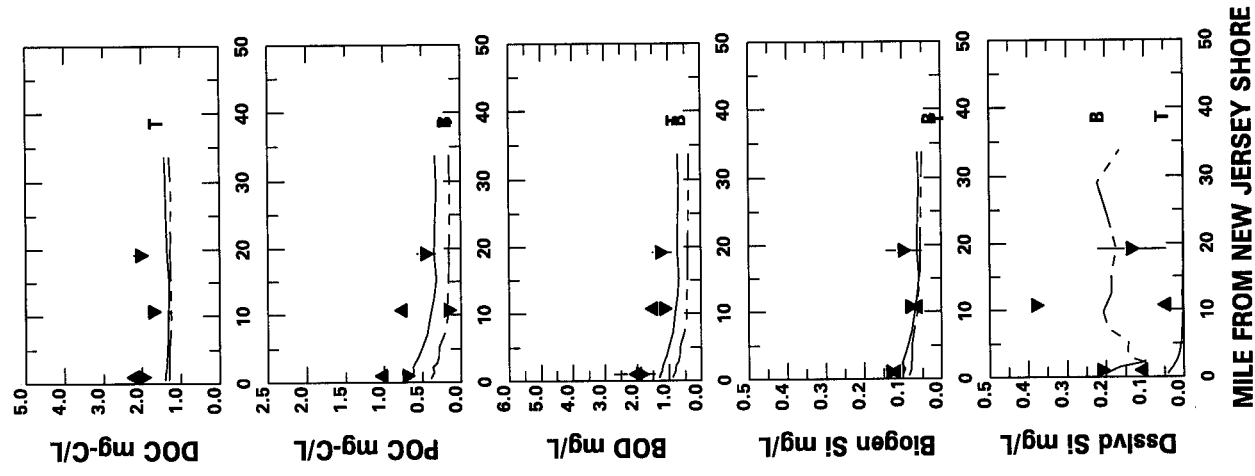
— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - 10-DAY SURFACE MAX OR BOTTOM MIN

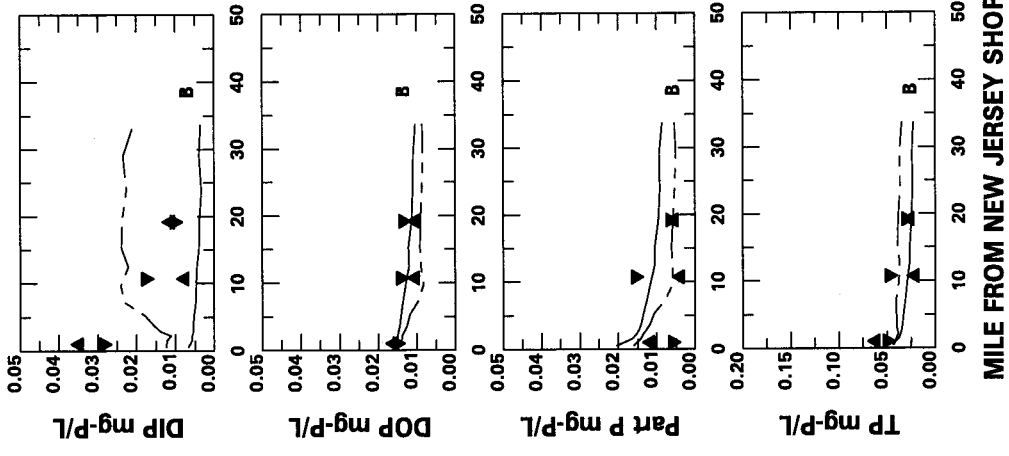
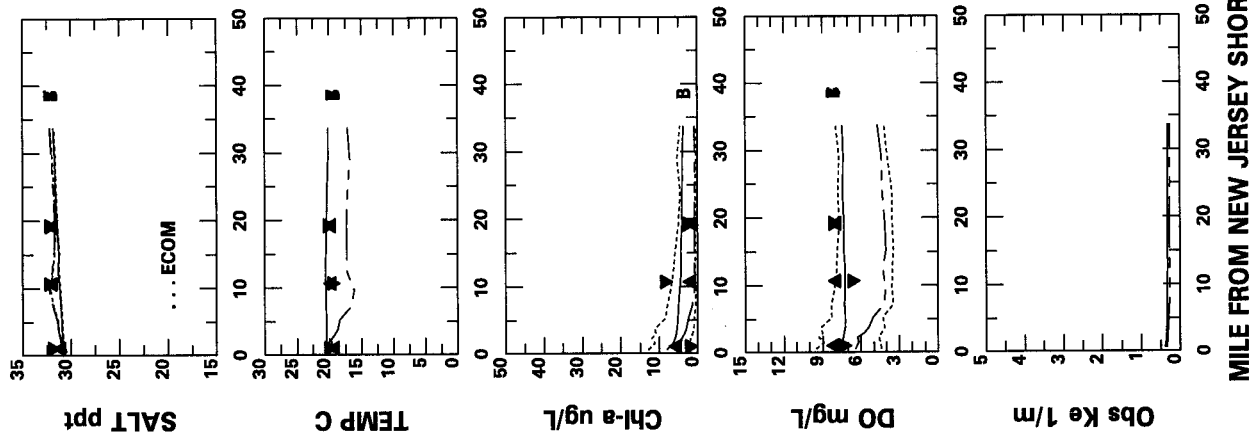
NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3

SWEM REVISED CALIBRATION



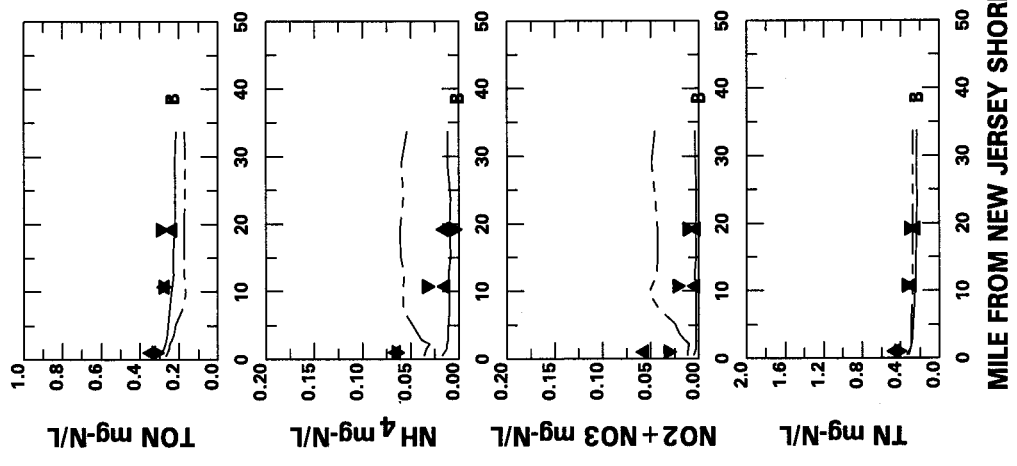
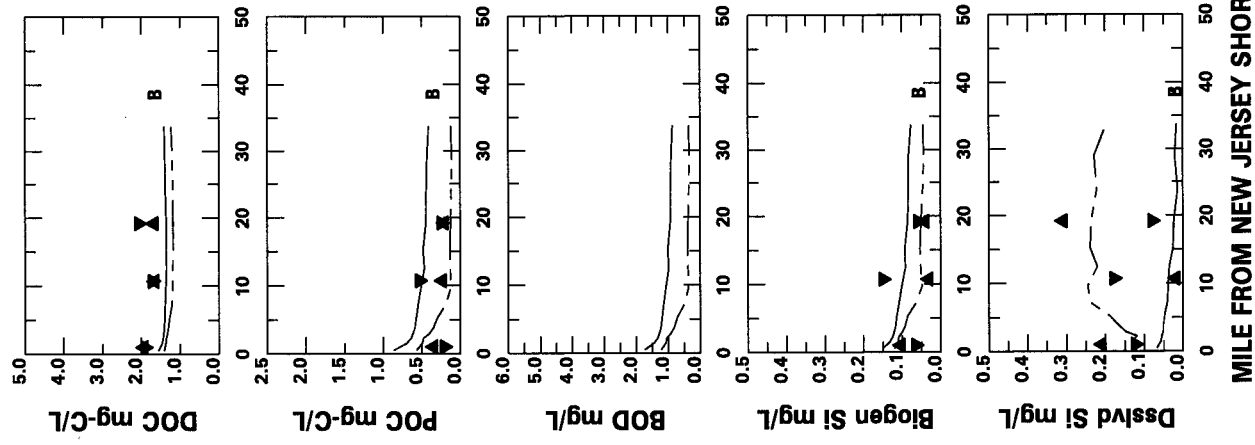
MODEL	DATA		MODEL
	Battelle Aug 20-29, 1995	SURF BOT	
—	▲	▼	SURFACE 10-DAY MEAN
- - -	T	B	BOTTOM 10-DAY MEAN
- - -			10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3
SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL
Battelle Sep 23-Oct 2, 1995	▲ Transect	— SURFACE 10-DAY MEAN
	T B Embayment	- - - BOTTOM 10-DAY MEAN
		- - - 10-DAY SURFACE MAX OR BOTTOM MIN

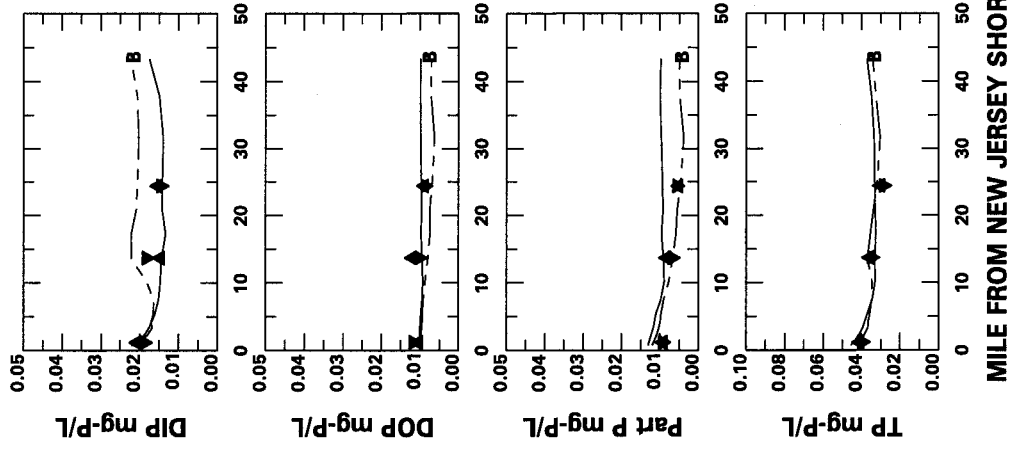
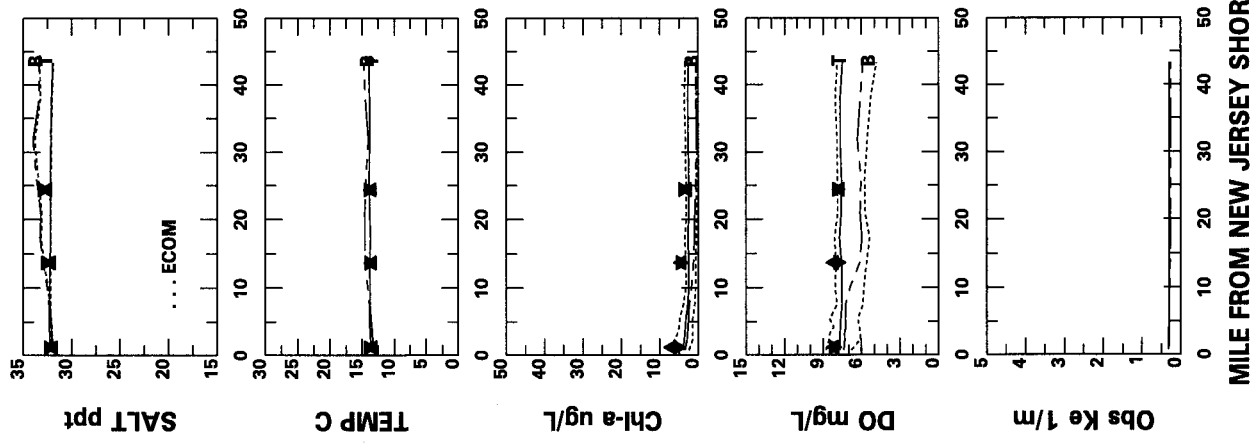
NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA	Battelle Sep 23-Oct 2, 1995	SURF BOT	Transect	MODEL
		▲	T	SURFACE 10-DAY MEAN
		▼	B	BOTTOM 10-DAY MEAN
				10-DAY SURFACE MAX OR BOTTOM MIN

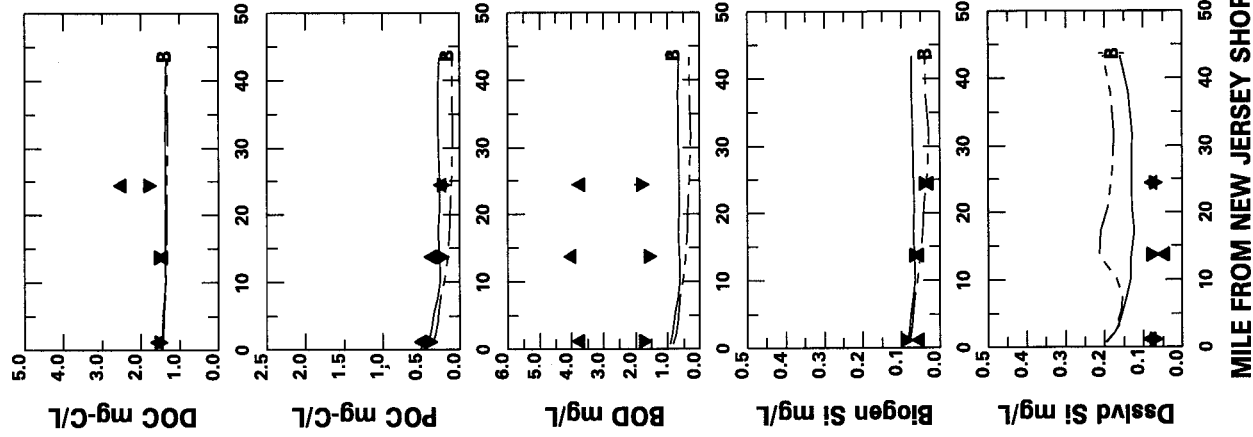
NEW YORK BIGHT EAST-WEST TRANSECT 3 RUN 9495-BC3
SWEM REVISED CALIBRATION

**SPATIAL DISTRIBUTIONS OF
N.Y. BIGHT
EAST-WEST TRANSECT 4**

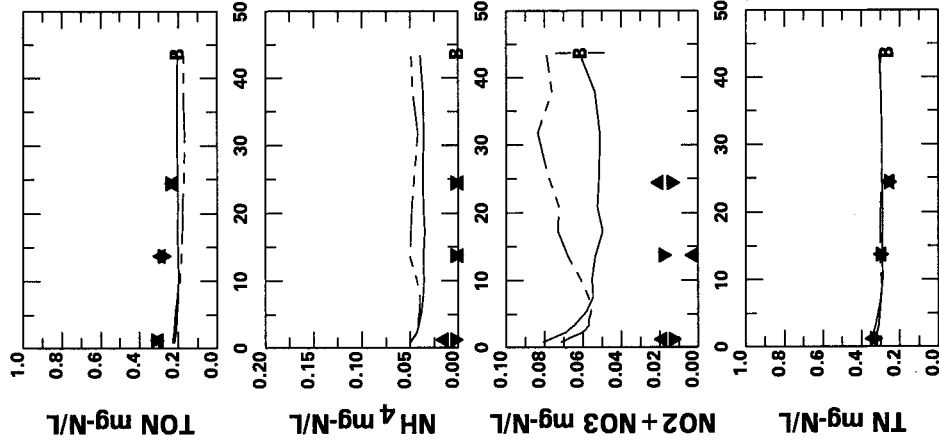


DATA	SURF	BOT	MODEL
Battelle Nov 12-17, 1994	▲	▼	—
Transect	T	B	---
Embayment			- -
			10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



MILE FROM NEW JERSEY SHORE



MILE FROM NEW JERSEY SHORE

DATA

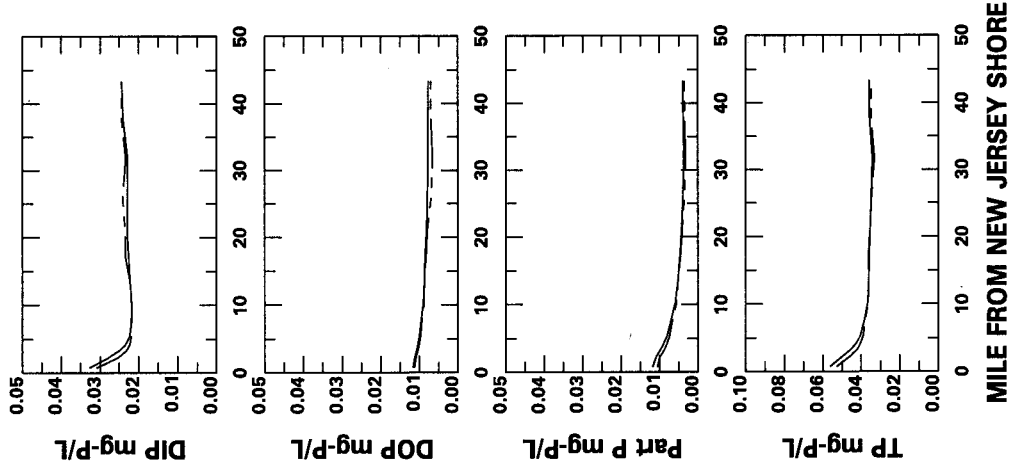
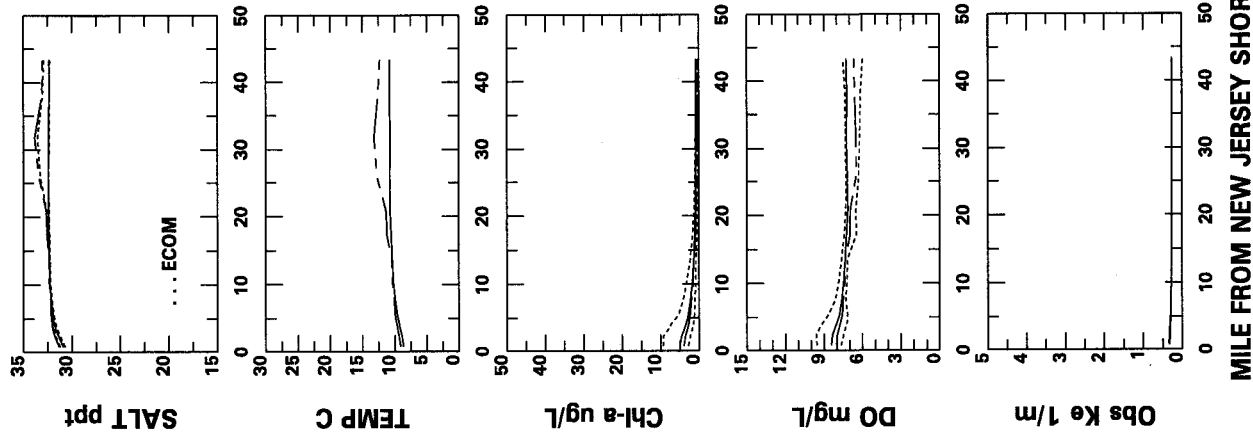
Battelle Nov 12-17, 1994

SURF BOT
 ▲ ▼ Transect
 T B Embayment

MODEL

— SURFACE 10-DAY MEAN
 --- BOTTOM 10-DAY MEAN
 - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



MODEL	SURFACE 10-DAY MEAN	BOTTOM 10-DAY MEAN	10-DAY SURFACE MAX OR BOTTOM MIN
—	—	---	---
---	---	---	---
---	---	---	---

DATA

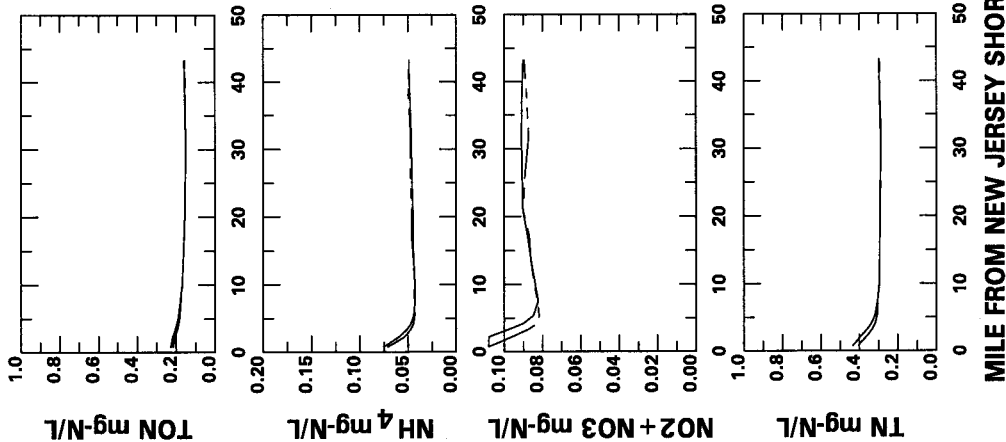
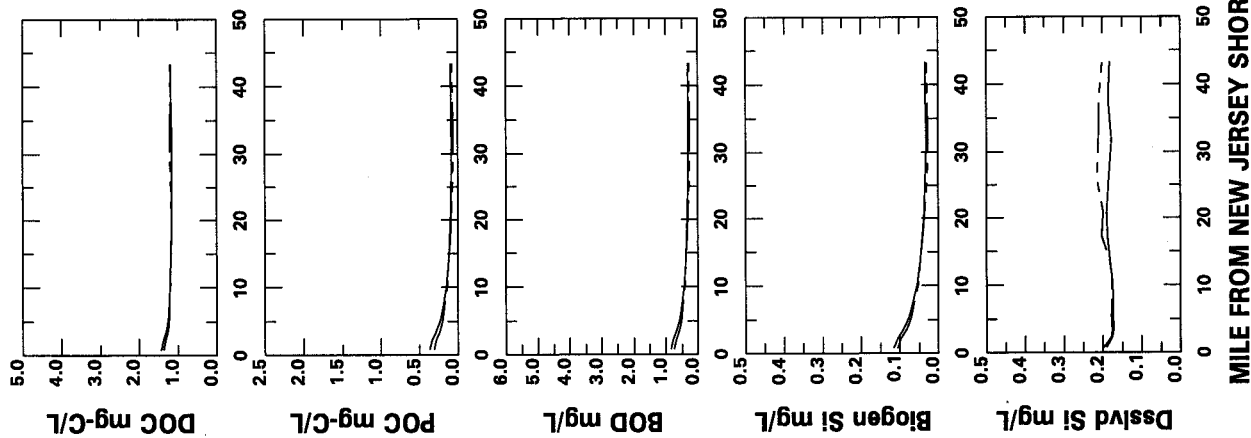
Battelle Dec 10-16, 1994

SURF BOT

▲ T Embayment

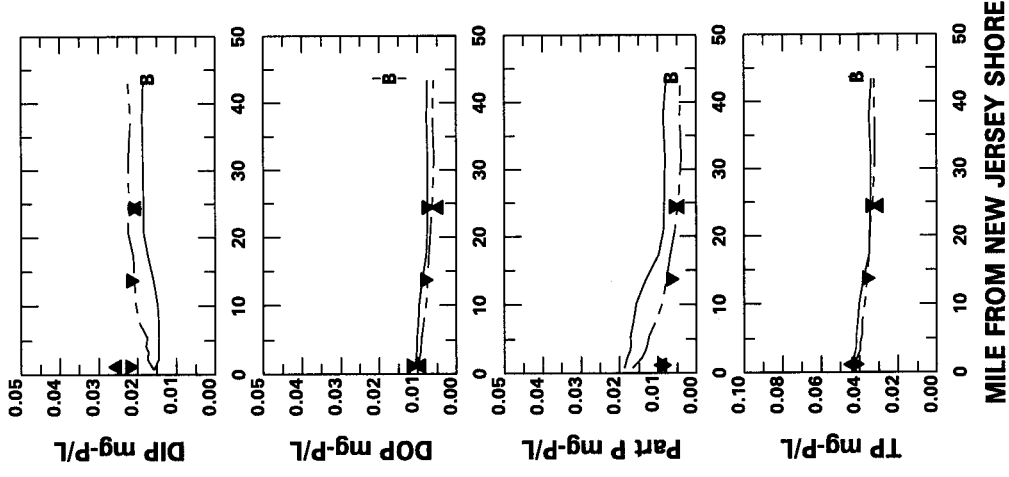
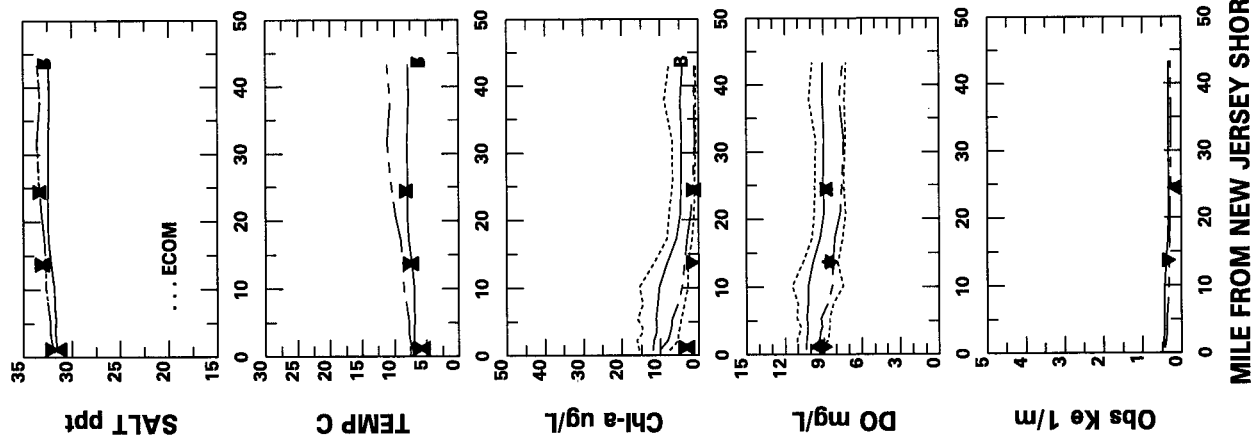
▼ B Embayment

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 **SWEM REVISED CALIBRATION**



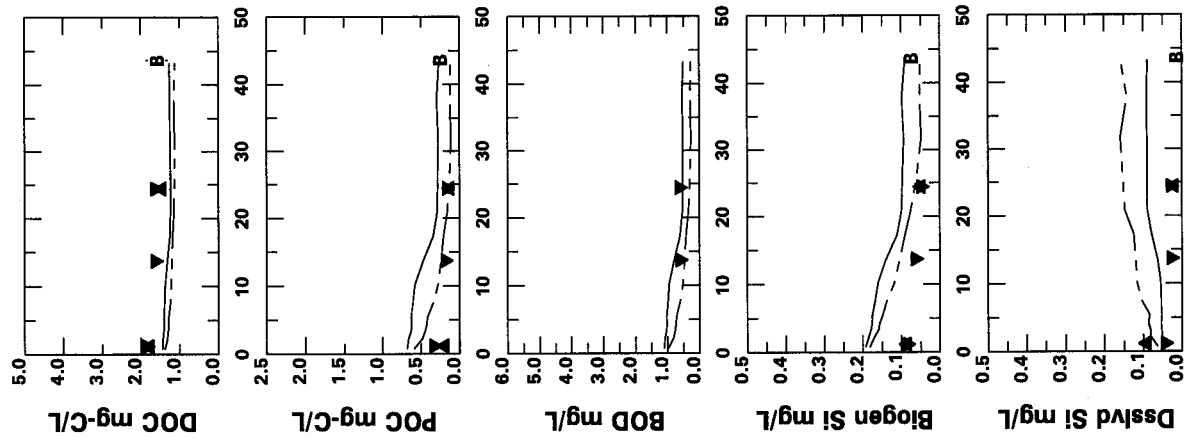
DATA	Battelle Dec 10-16, 1994	SURF BOT	MODEL	
▲	Transect	▲	—	SURFACE 10-DAY MEAN
■	Embayment	■	- - -	BOTTOM 10-DAY MEAN
			- -	10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3
SWEM REVISED CALIBRATION

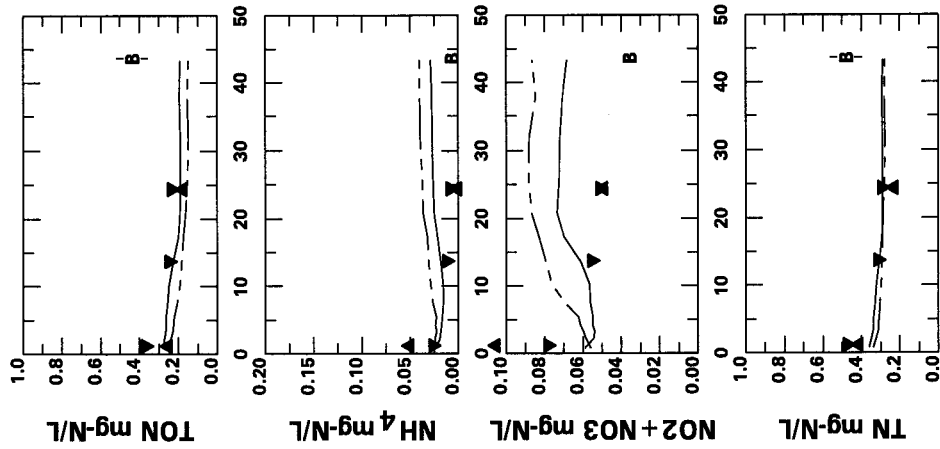


DATA	Battelle Jan 23-31, 1995	SURF BOT	MODEL
	▲ Transect	— SURFACE 10-DAY MEAN	
	▼ Embayment	--- BOTTOM 10-DAY MEAN	
		- - 10-DAY SURFACE MAX OR BOTTOM MIN	

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 **SWEM REVISED CALIBRATION**



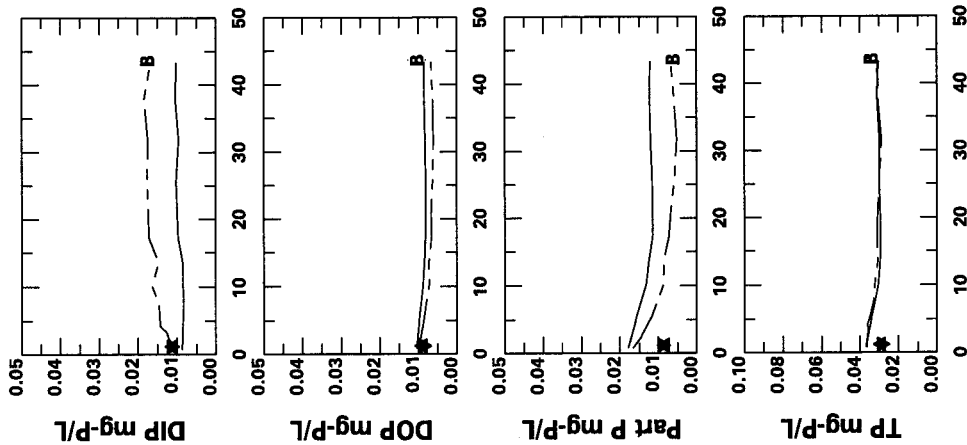
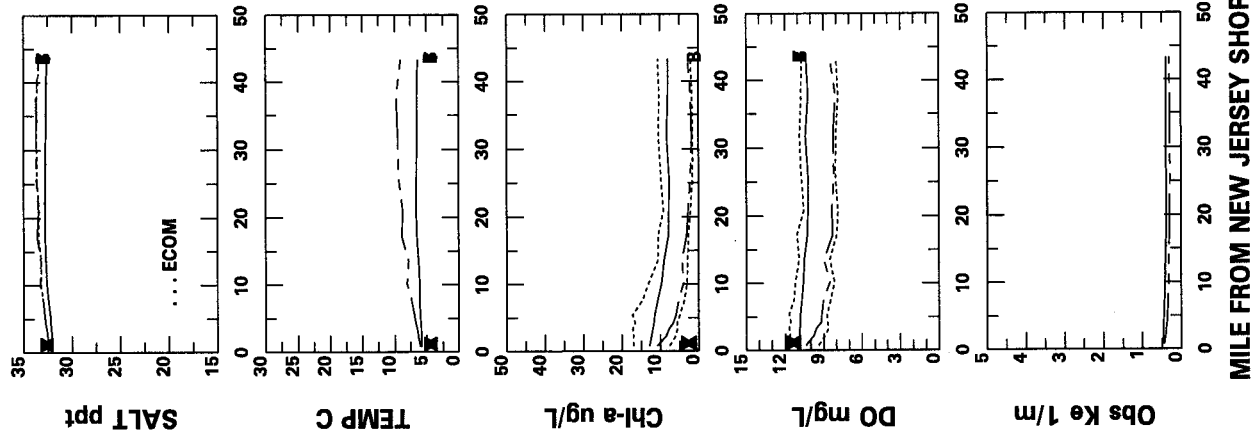
MILE FROM NEW JERSEY SHORE



MILE FROM NEW JERSEY SHORE

MODEL	DATA		MODEL
	Battelle Jan 23-31, 1995	SURF BOT	
—	▲ Transect	▲ SURF	SURFACE 10-DAY MEAN
- - -	■ Embayment	■ BOT	BOTTOM 10-DAY MEAN
- - -			10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Feb 22-Mar 1,
1995

SURF BOT

▲ Transect

T B Embayment

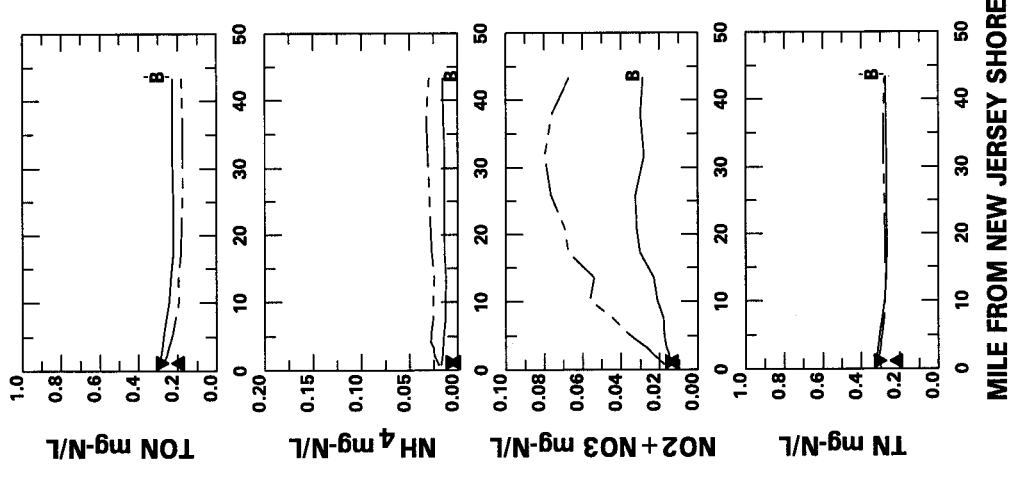
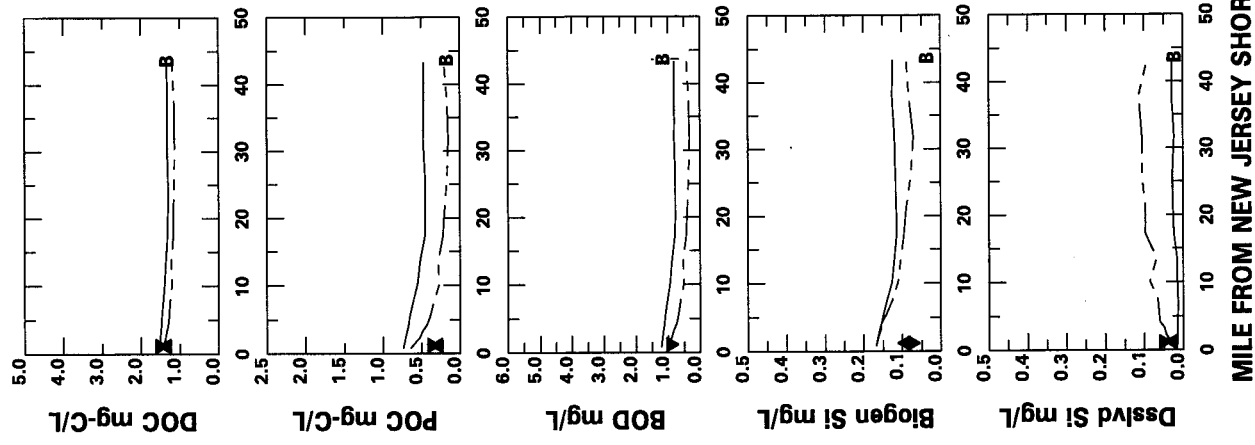
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

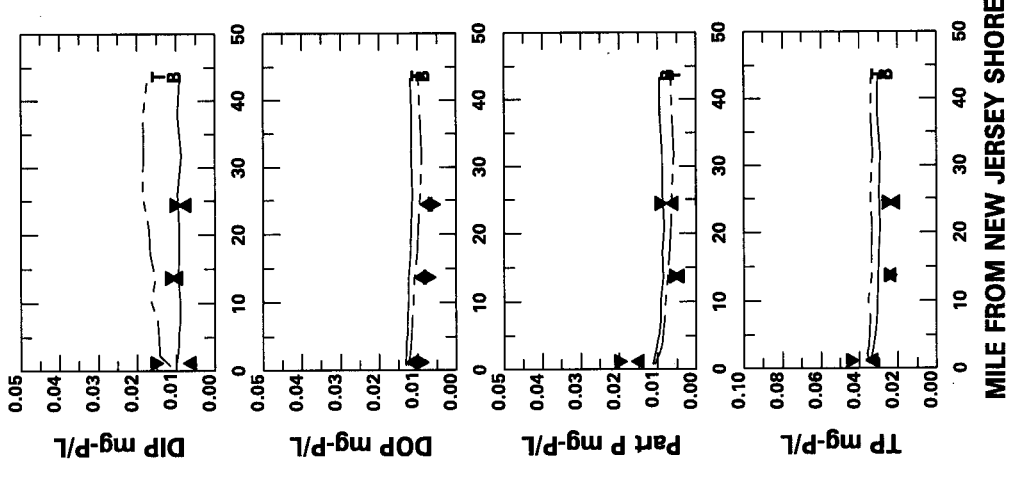
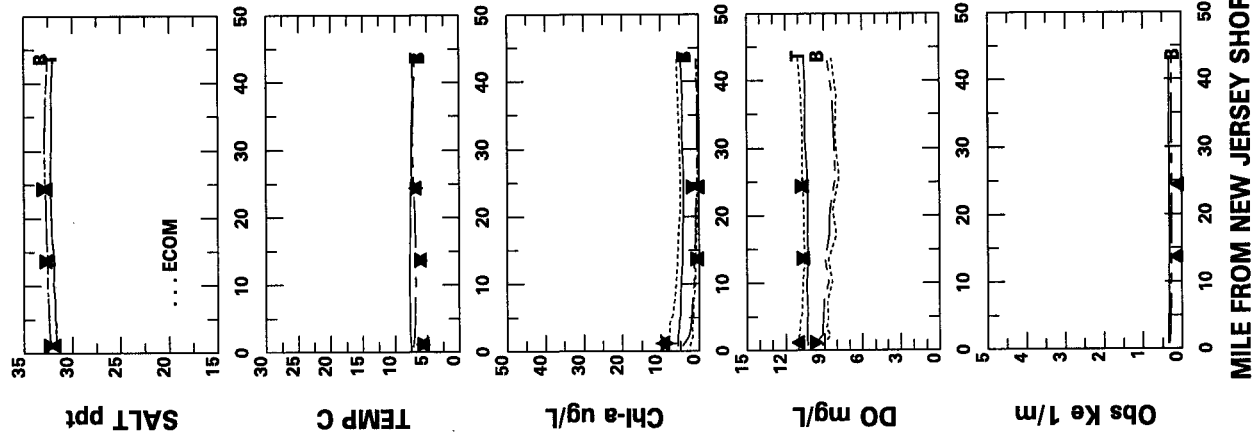
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA	SURF	BOT	MODEL
Battelle Feb 22-Mar 1, 1995	▲	▼	—
Transect	T	B	---
Embayment			- - -
			10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

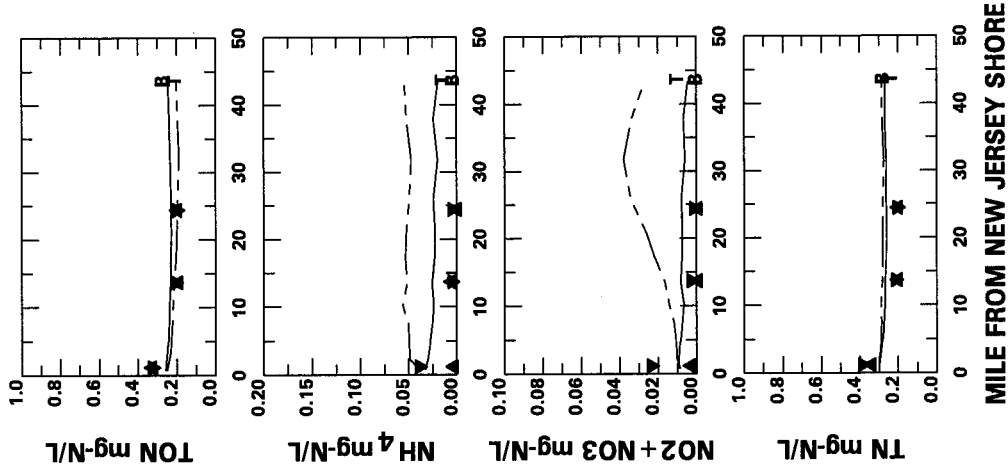
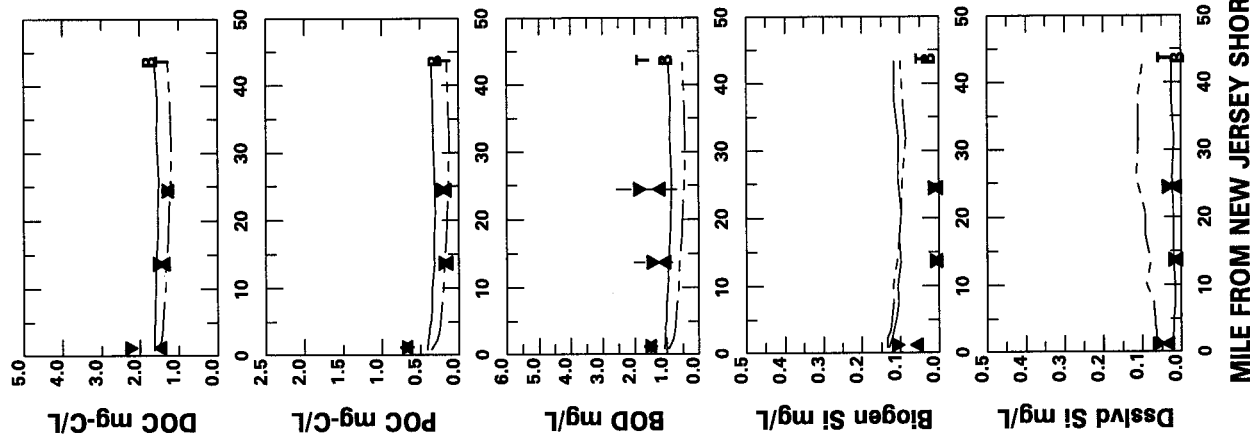
Battelle Mar 28-Apr 8, 1995

SURF BOT

▲ Transect
▼ Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN



MODEL	SURF BOT	Transect	Embayment
---	▲	T	B
---	▼		

DATA

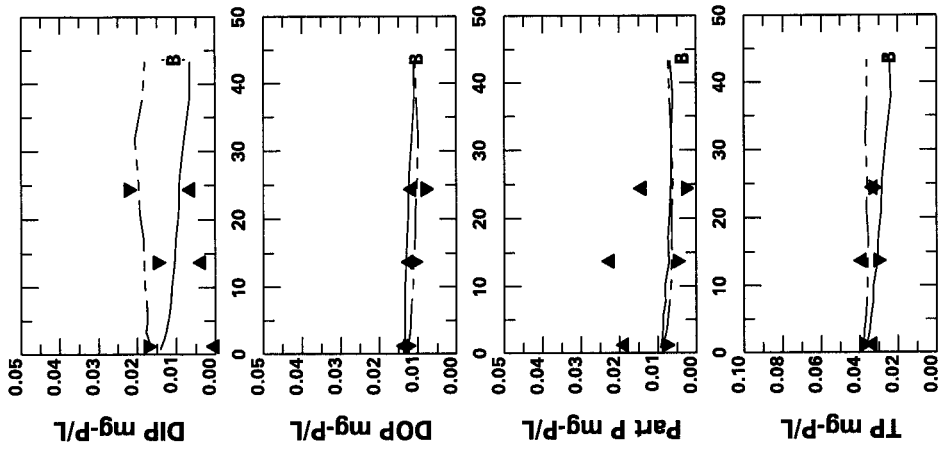
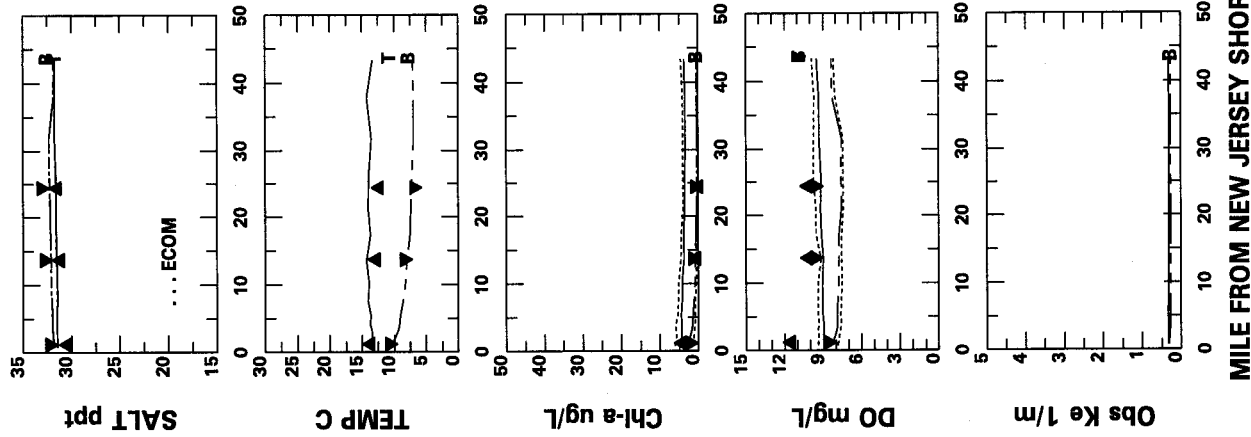
Battelle Mar 28-Apr 8, 1996

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



MILE FROM NEW JERSEY SHORE

DATA

Battelle May 20-26, 1995

SURF BOT

Transect

T

B

Embayment

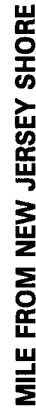
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

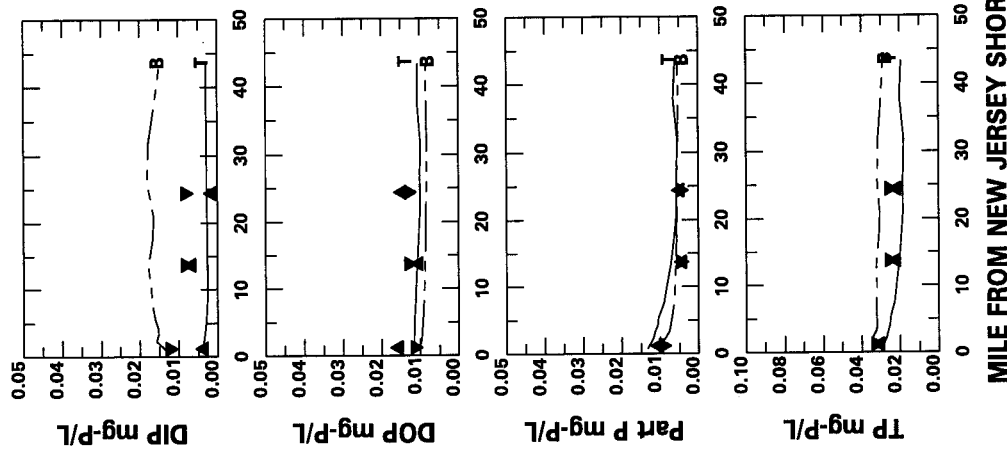
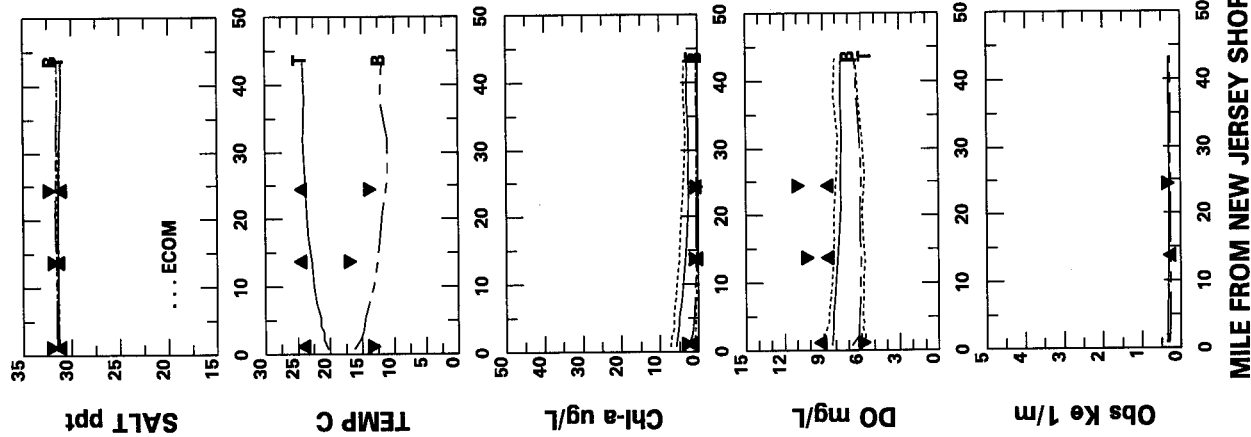
10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



Embayment

**10-DAY SURFACE MAX OR
BOTTOM MIN**



DATA

Bettelle July 20-Aug 2, 1995

▲ Transect

▼ Embayment

T B

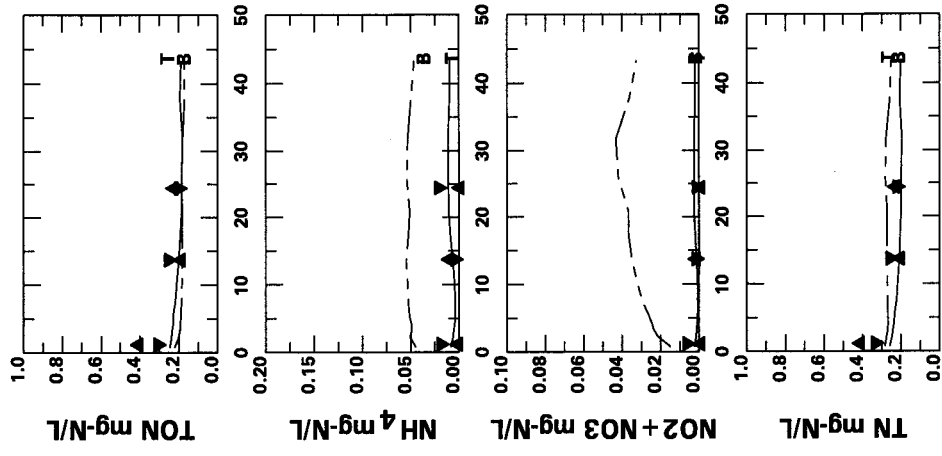
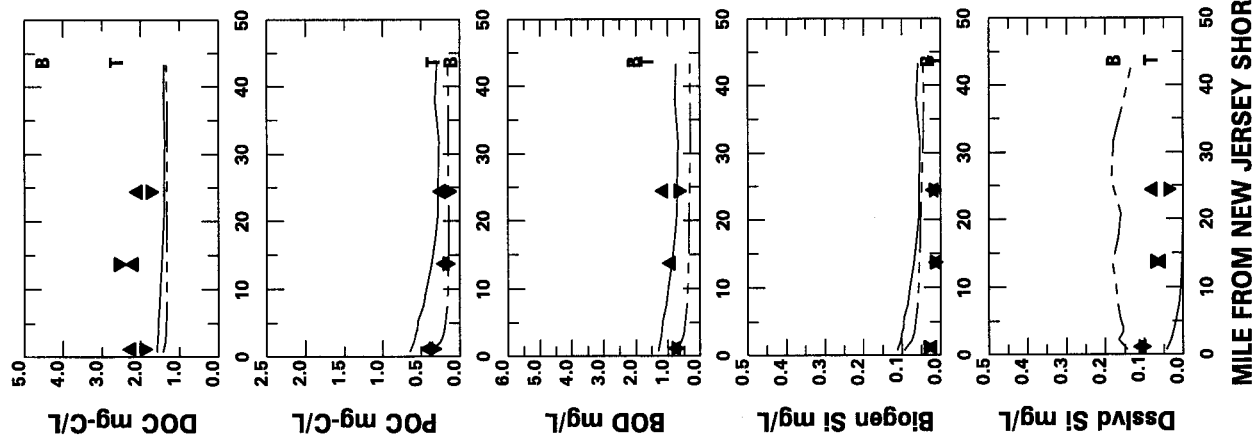
MODEL

— SURFACE 10-DAY MEAN

--- BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2,
1995

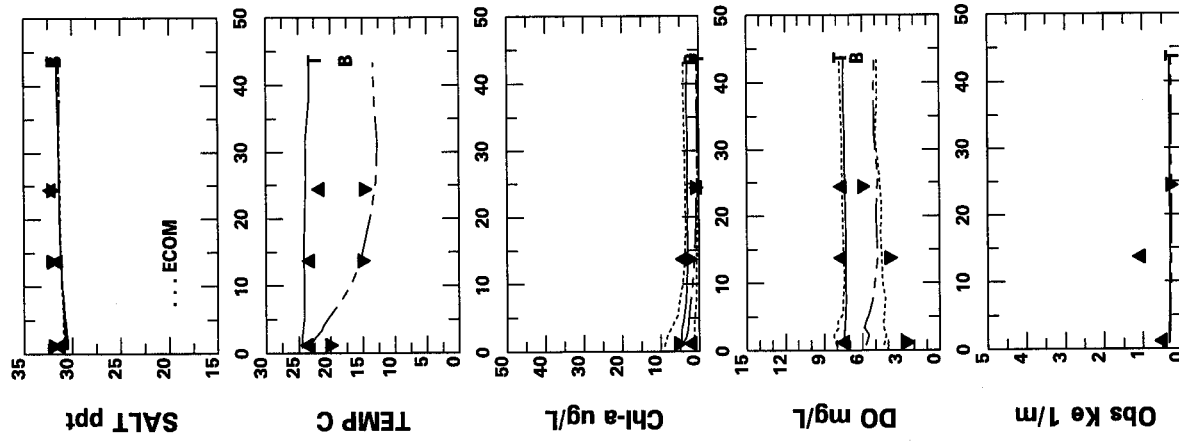
SURF BOT

▲ ▼ Transect
T B Embayment

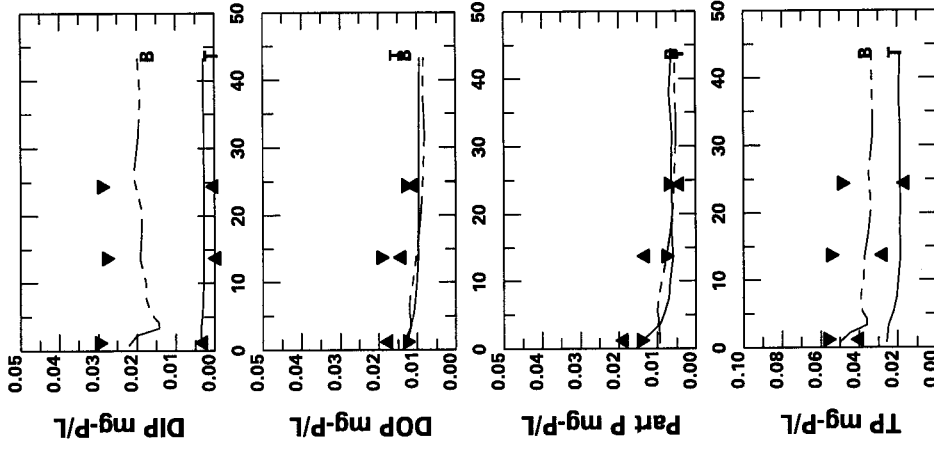
MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



MILE FROM NEW JERSEY SHORE



MILE FROM NEW JERSEY SHORE

DATA

Battelle Aug 20-29, 1995

SURF BOT

Transect

T B Embayment

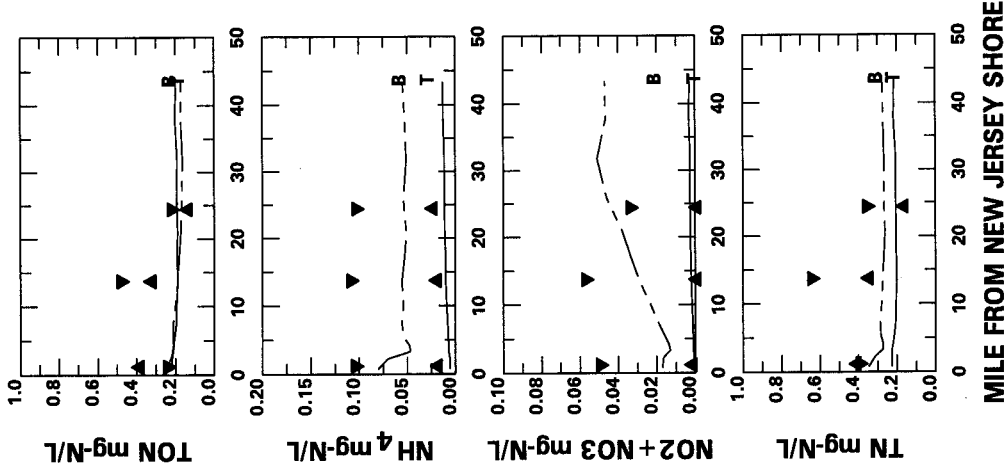
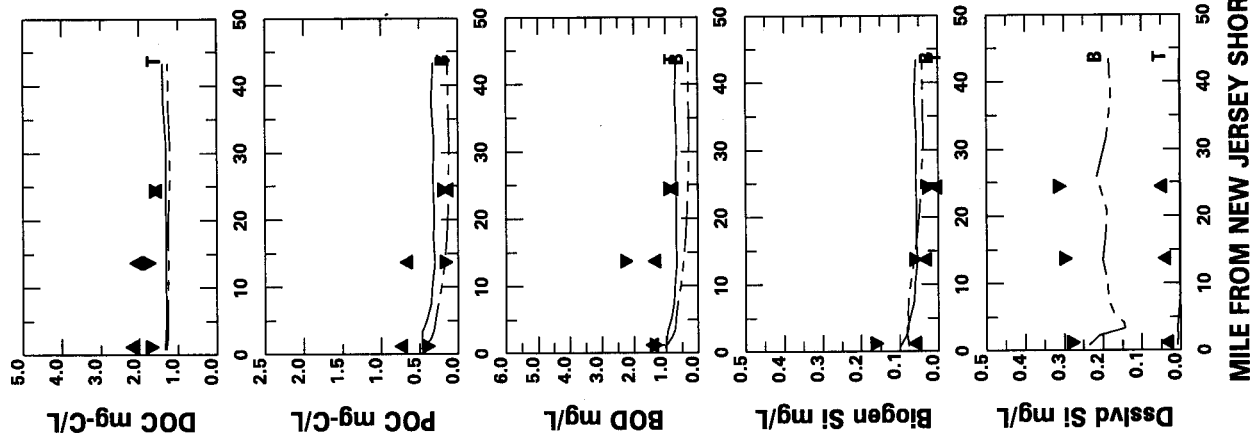
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

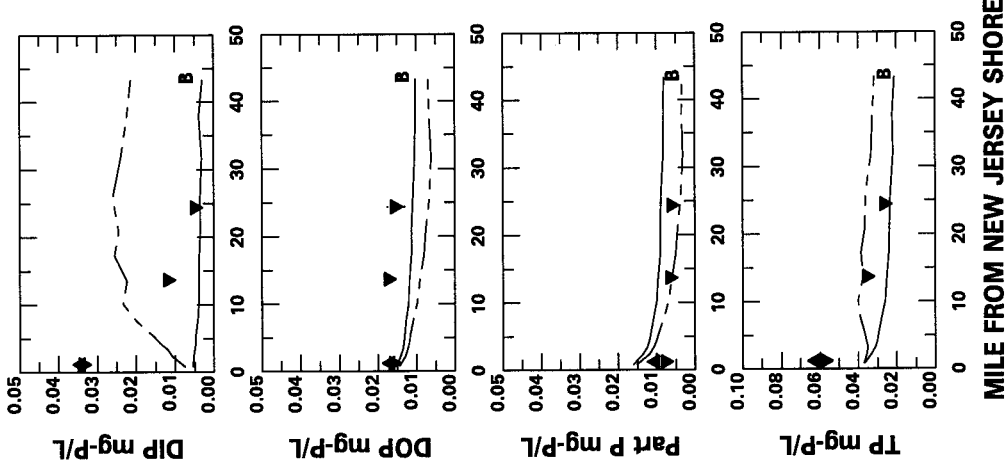
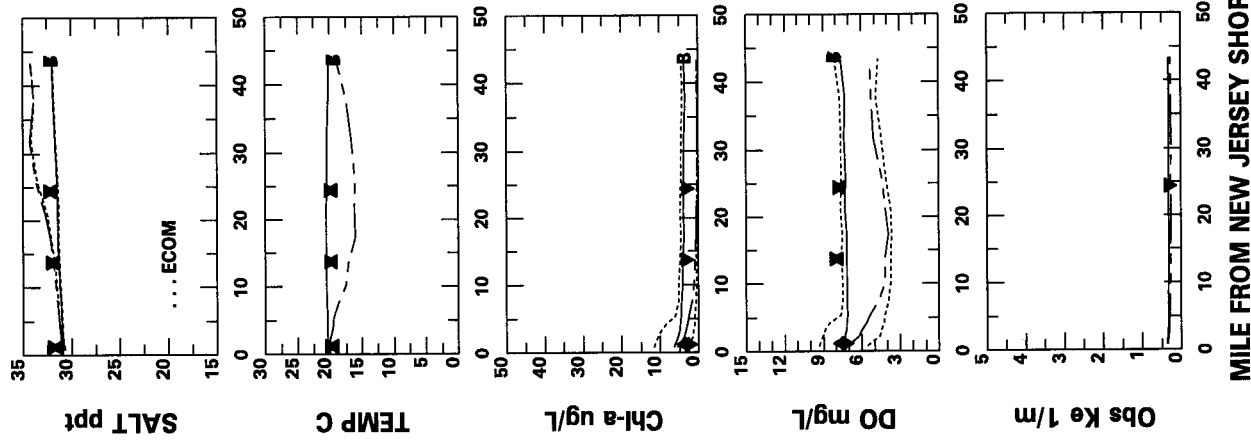
10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



MODEL	DATA	
	Battelle Aug 20-29, 1995	Model
—	▲ Transect	SURFACE 10-DAY MEAN
- - -	▼ Embayment	BOTTOM 10-DAY MEAN
- - -		10-DAY SURFACE MAX OR BOTTOM MIN

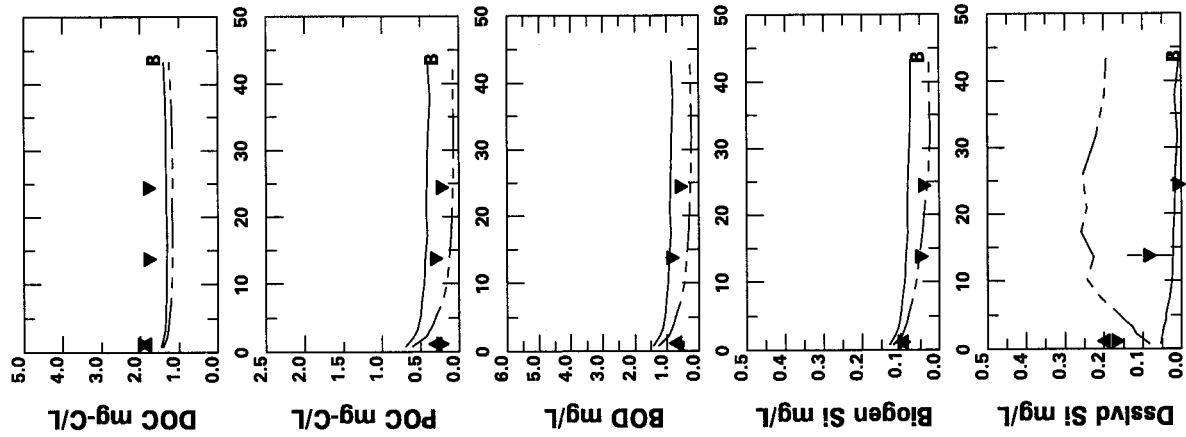
NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



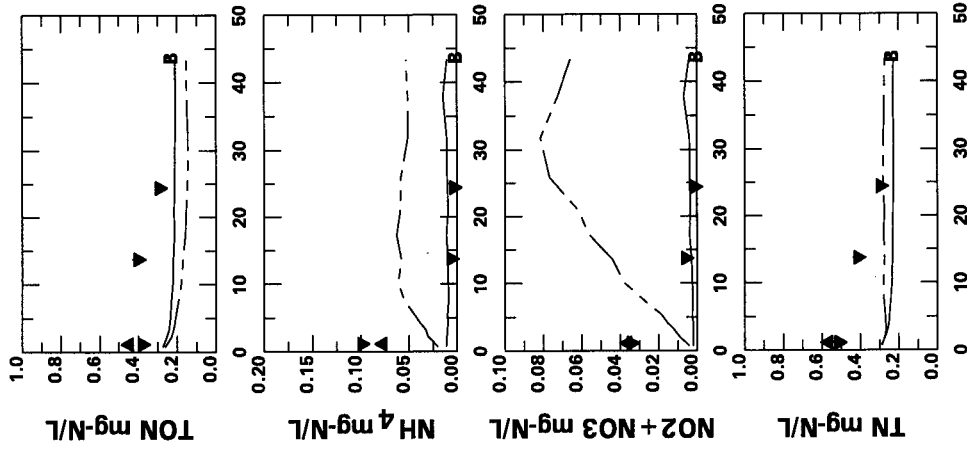
MODEL	SURF BOT	Transect
---	▲	T
---	▼	B
---	---	Embayment

Battelle Sep 23-Oct 2, 1995

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION



MILE FROM NEW JERSEY SHORE



MILE FROM NEW JERSEY SHORE

DATA

Battelle Sep 23-Oct 2, 1995

SURF BOT

▲ Transect

T B Embayment

MODEL

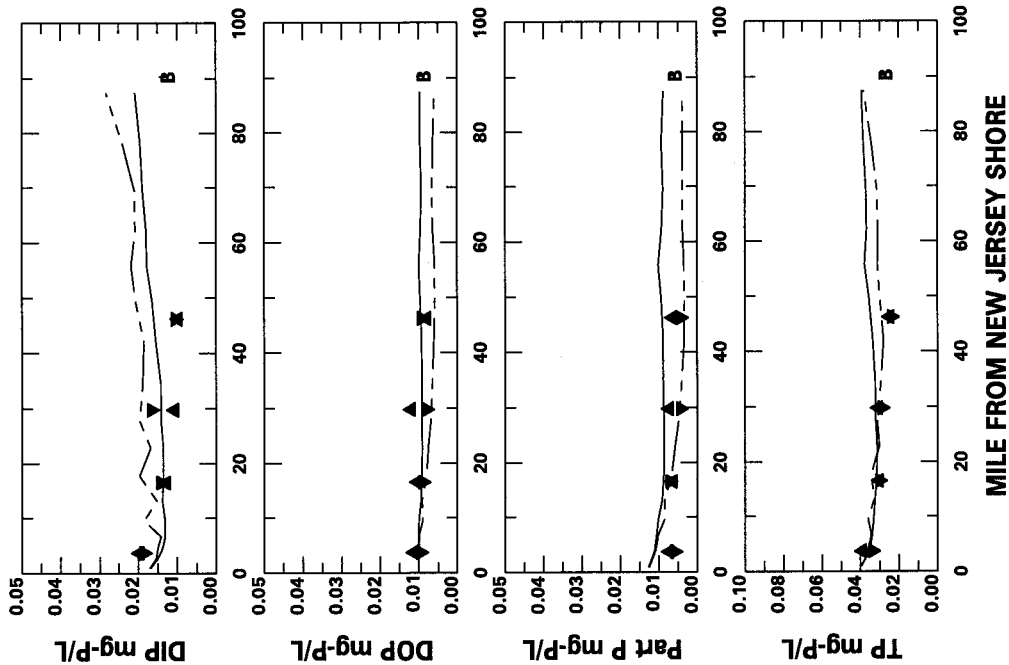
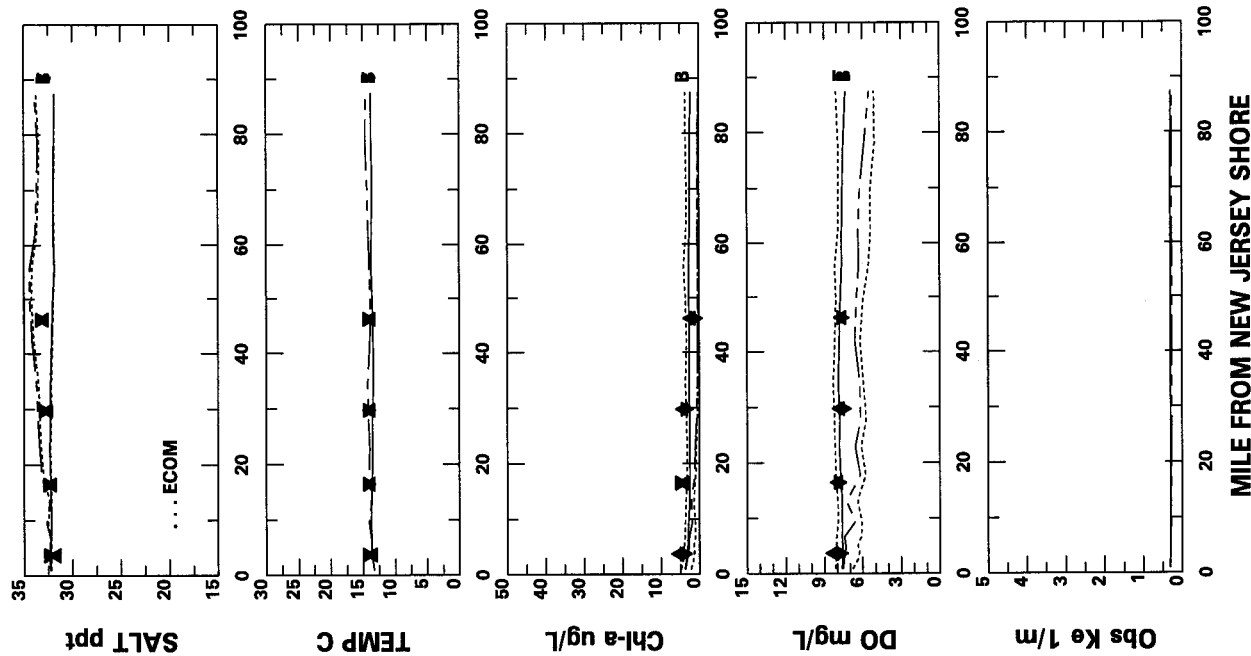
— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 4 RUN 9495-BC3 SWEM REVISED CALIBRATION

**SPATIAL DISTRIBUTIONS OF
N.Y. BIGHT
EAST-WEST TRANSECT 5**



DATA

Battelle Nov 12-17, 1994

SURF BOT

▲ Transect

▼ Embayment

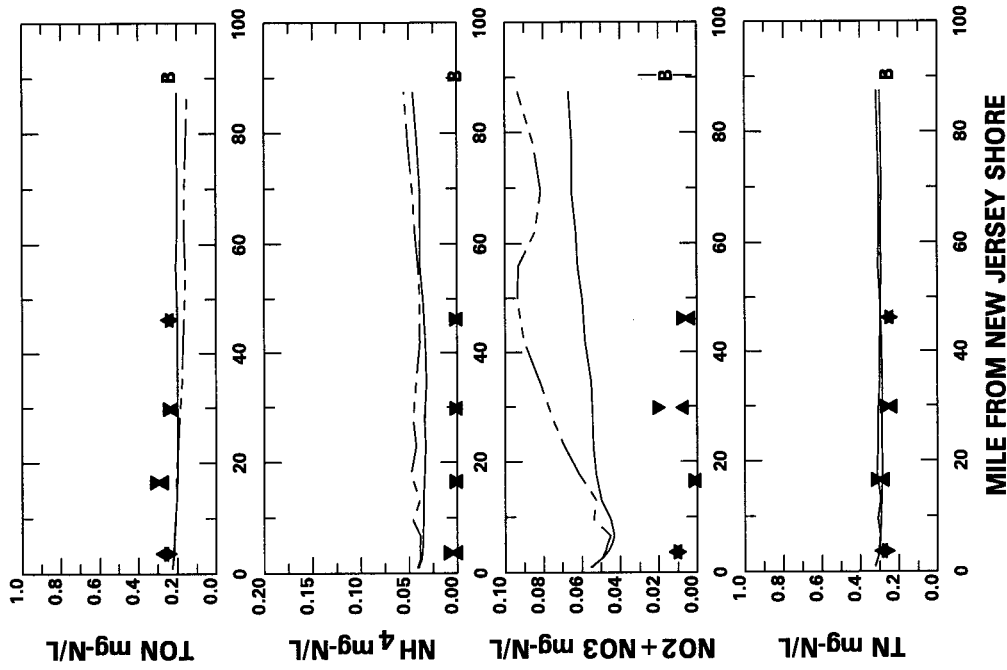
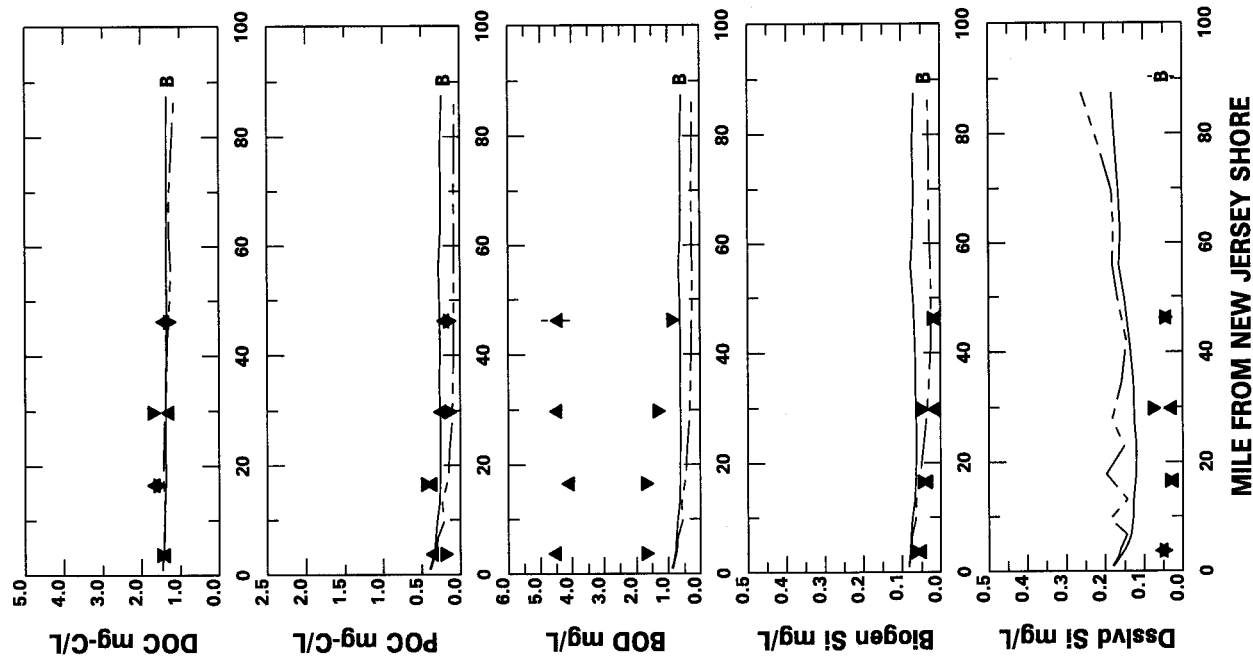
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Nov 12-17, 1994

SURF BOT

▲ Transect
▼ Embayment

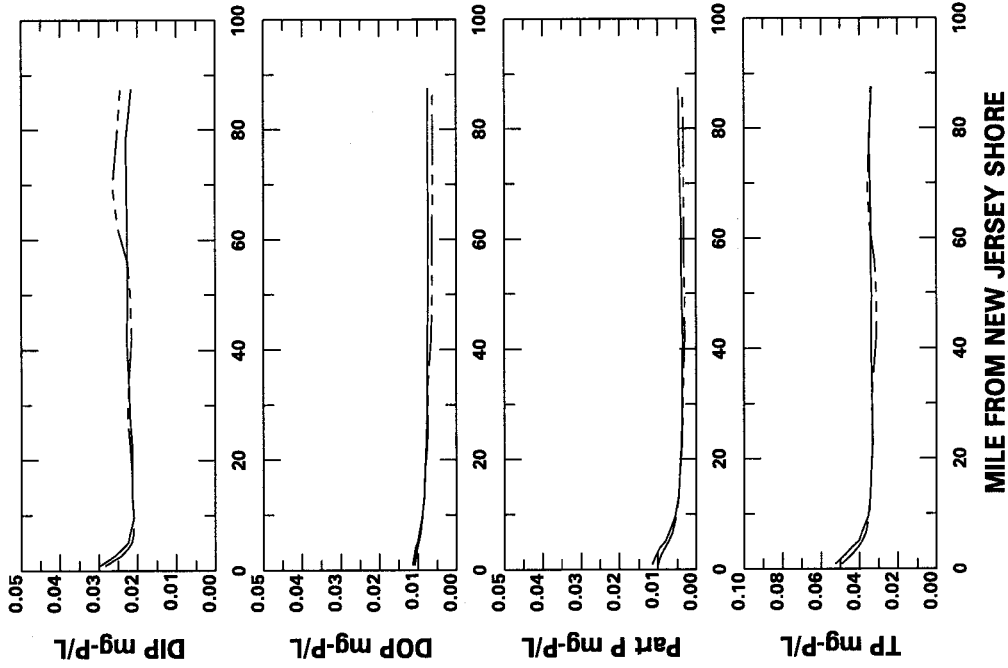
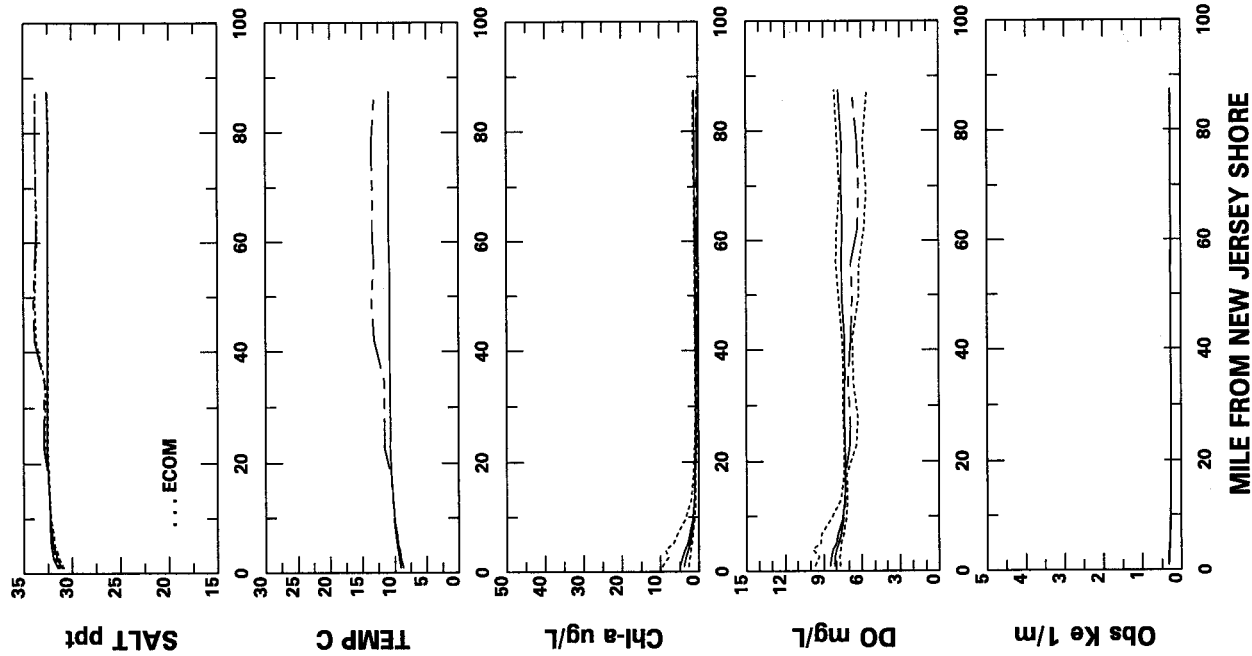
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- . - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Dec 10-16, 1994

SURF BOT

▲ T
▼ B

Transect
Embayment

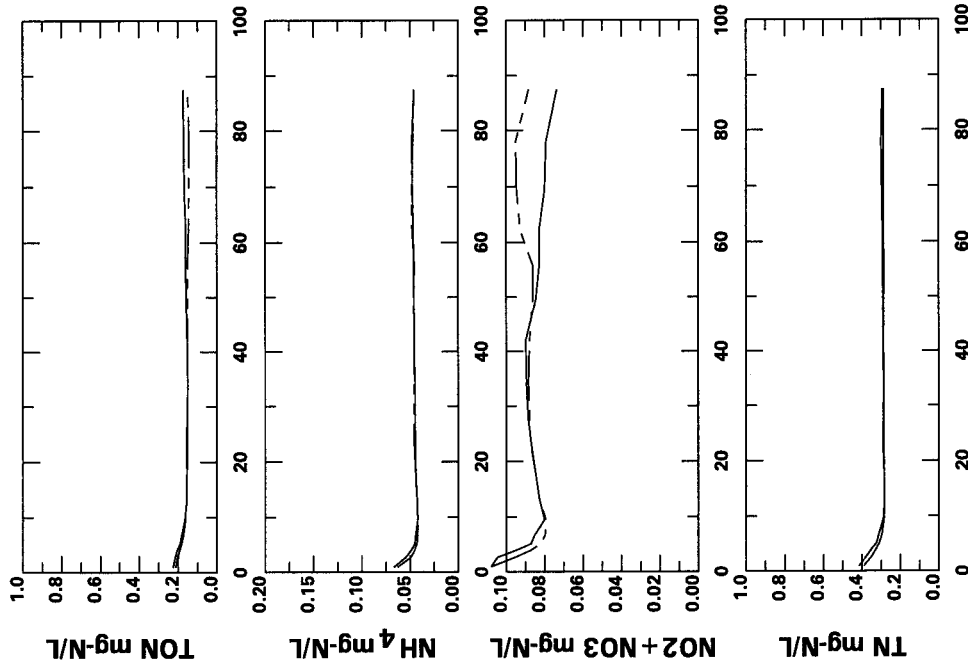
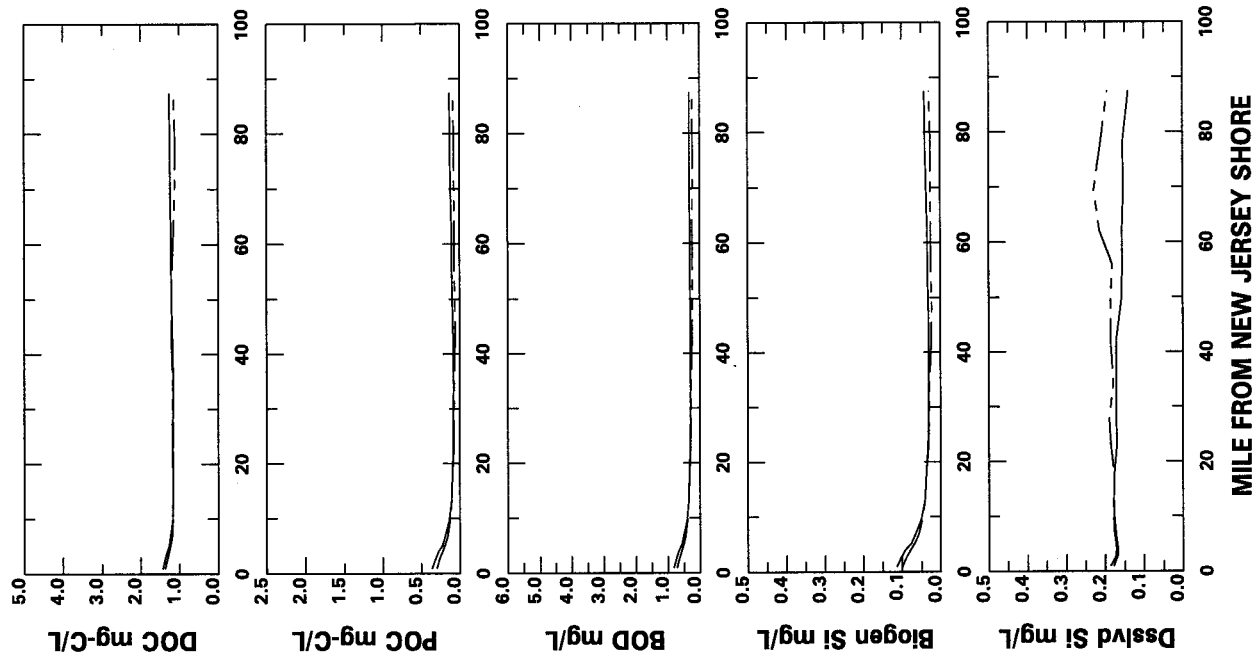
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Dec 10-16, 1994

SURF BOT

▲ Transect

T B Embayment

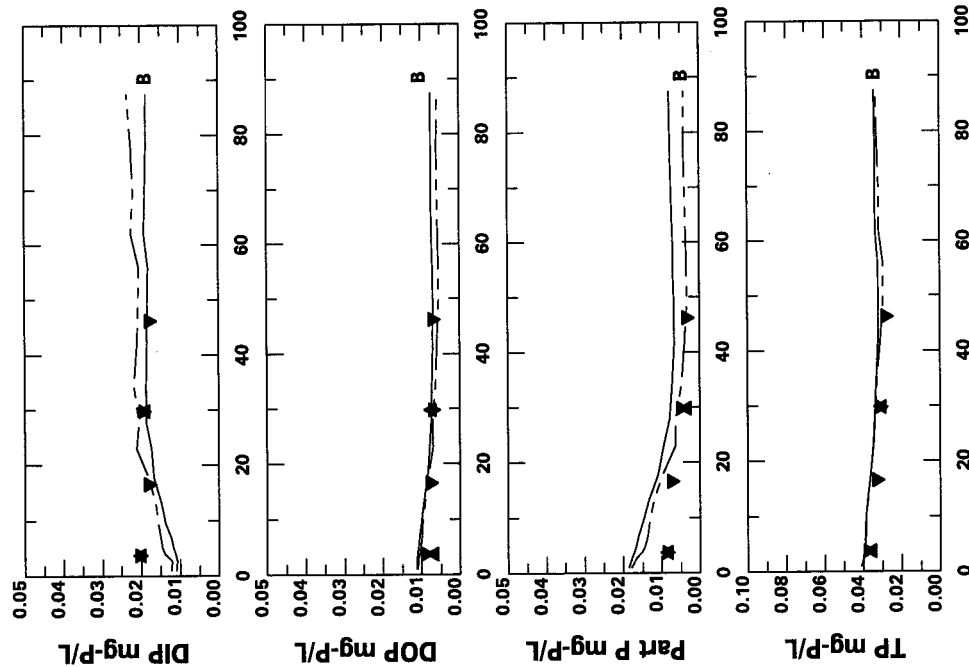
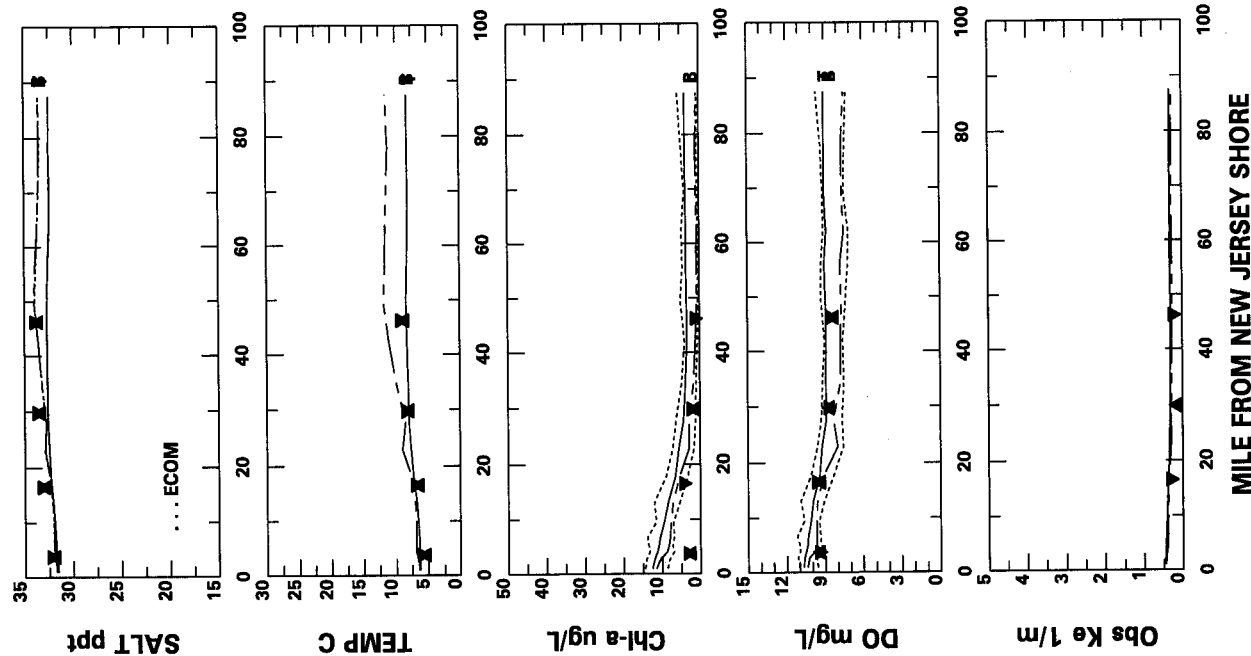
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Jan 23-31, 1995

SURF BOT

▲ ▼

T B

Transect

Embayment

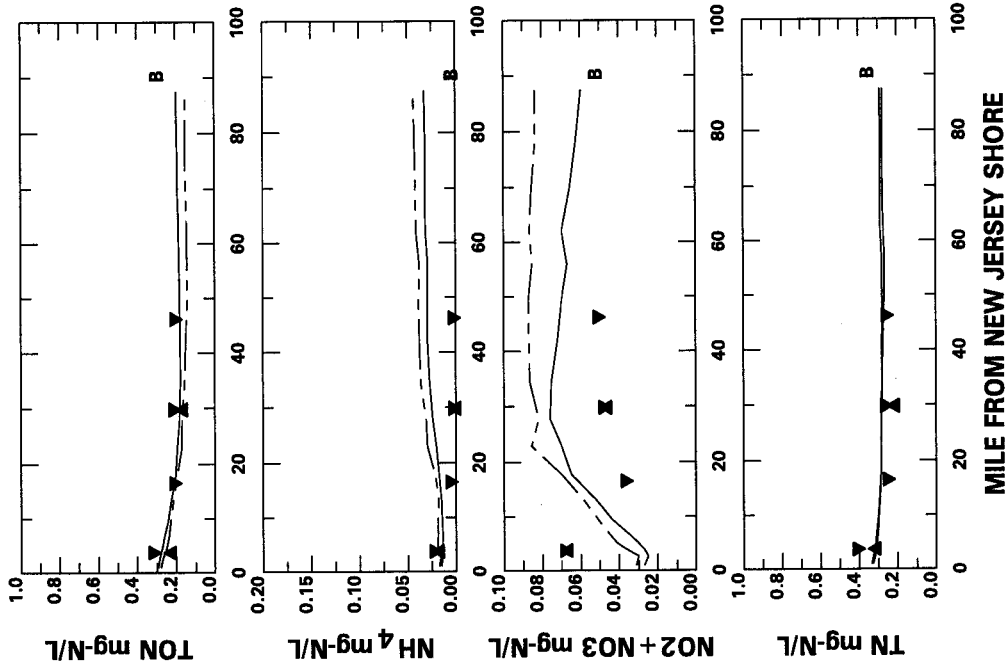
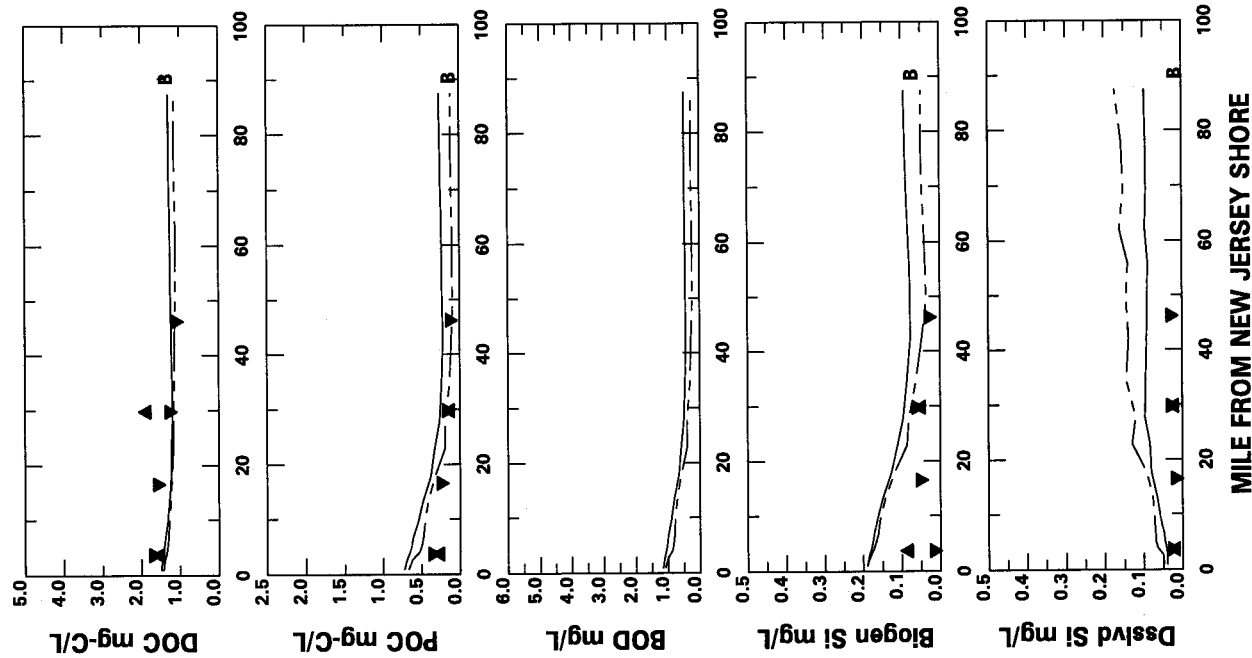
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Jan 23-31, 1995

SURF BOT

▲ Transect
▼ Embayment

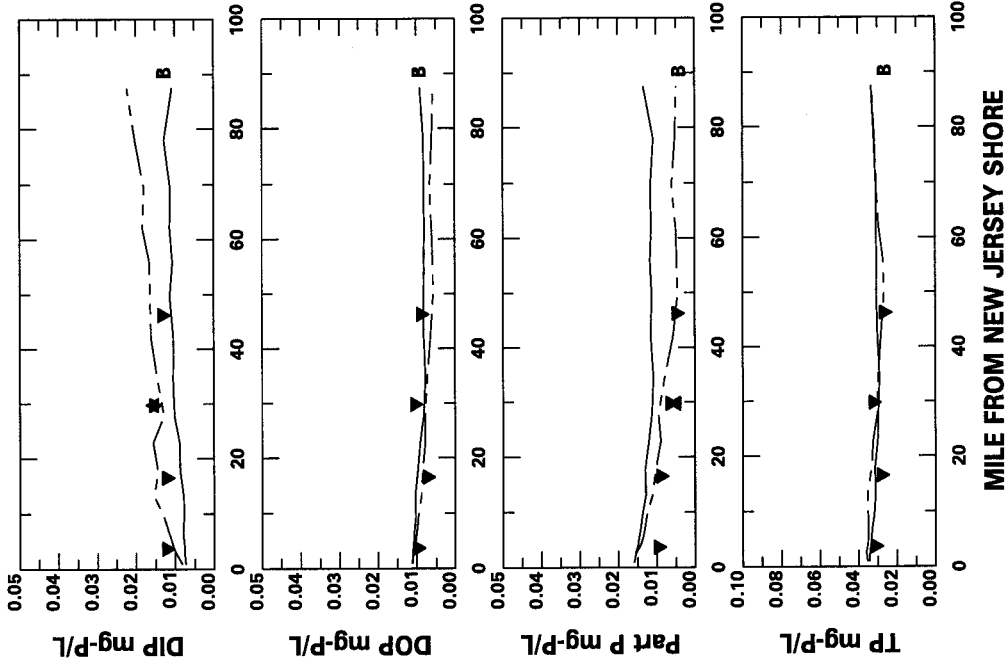
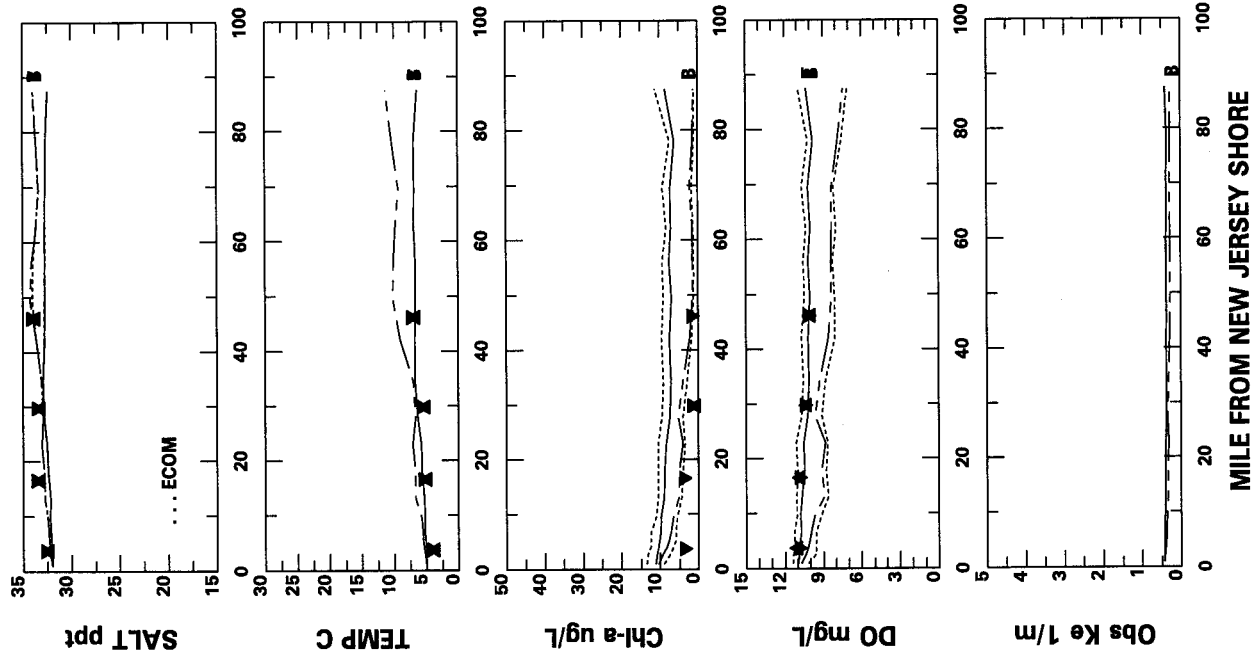
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Feb 22-Mar 1,
1995

SURF BOT

▲ Transect
▼ Embayment

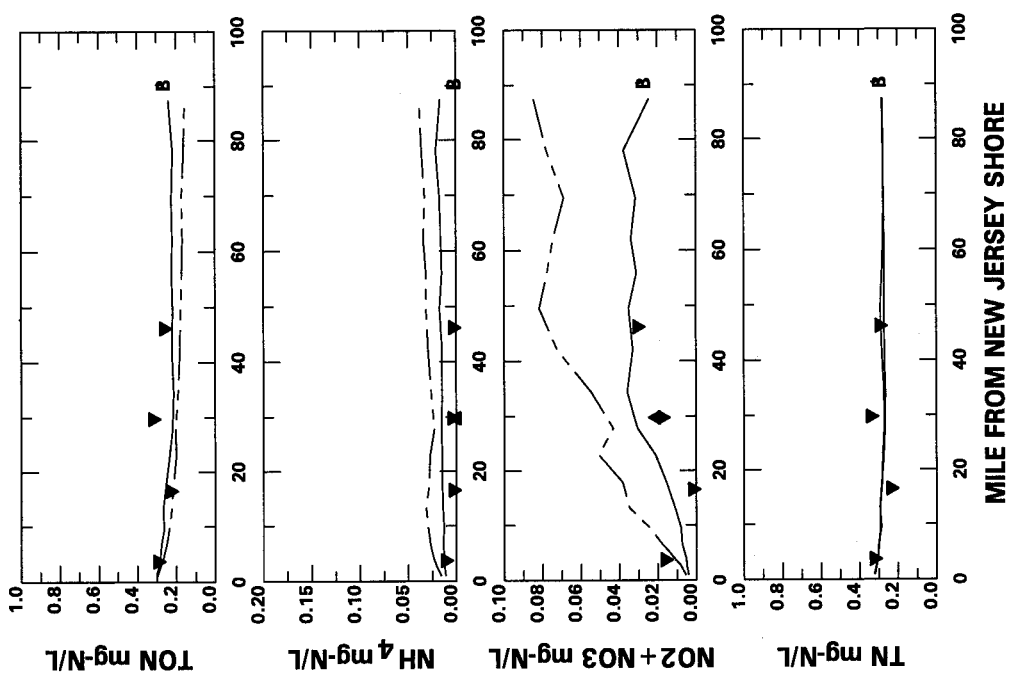
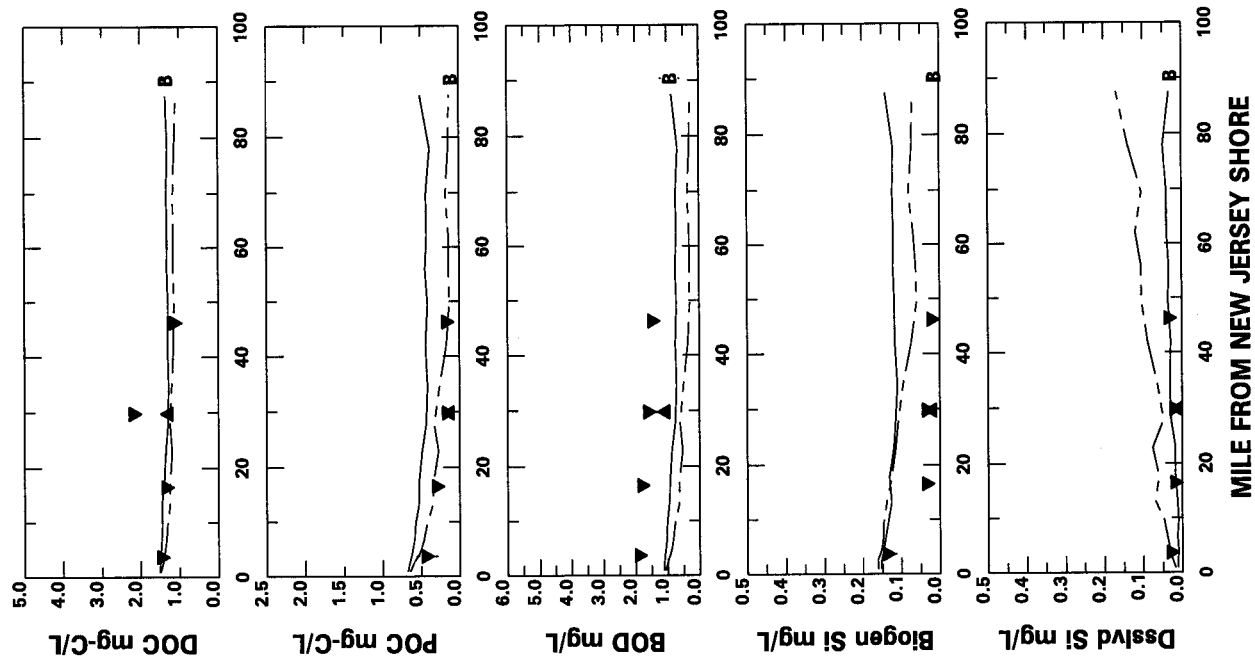
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA Battelle Feb 22-Mar 1, 1995

MODEL

SURF BOT **Transect** **Embayment**

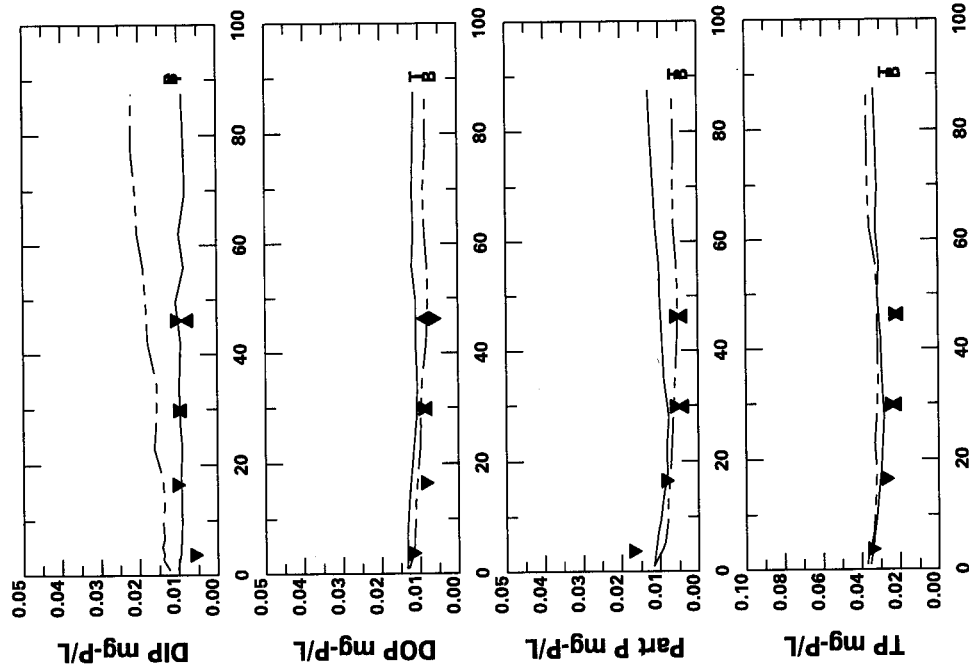
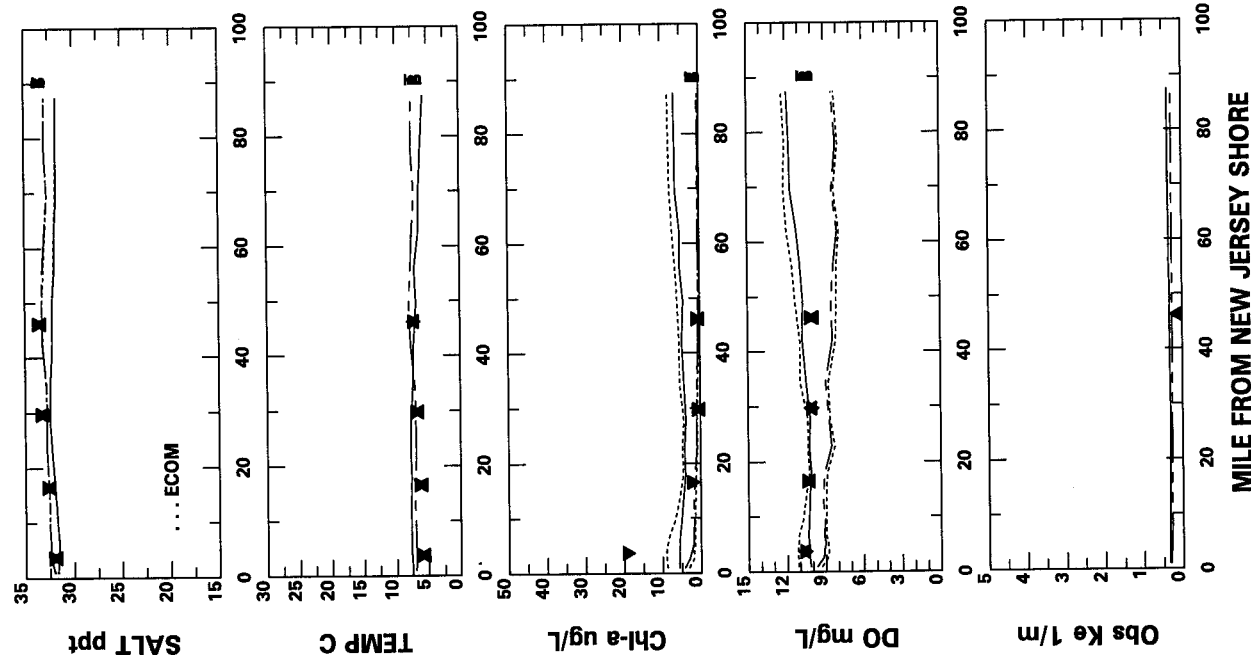
▲ T ▼ B

— SURFACE 10-DAY MEAN

--- BOTTOM 10-DAY MEAN

- - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3
SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8, 1995

SURF BOT

▲ Transect

▼ Embayment

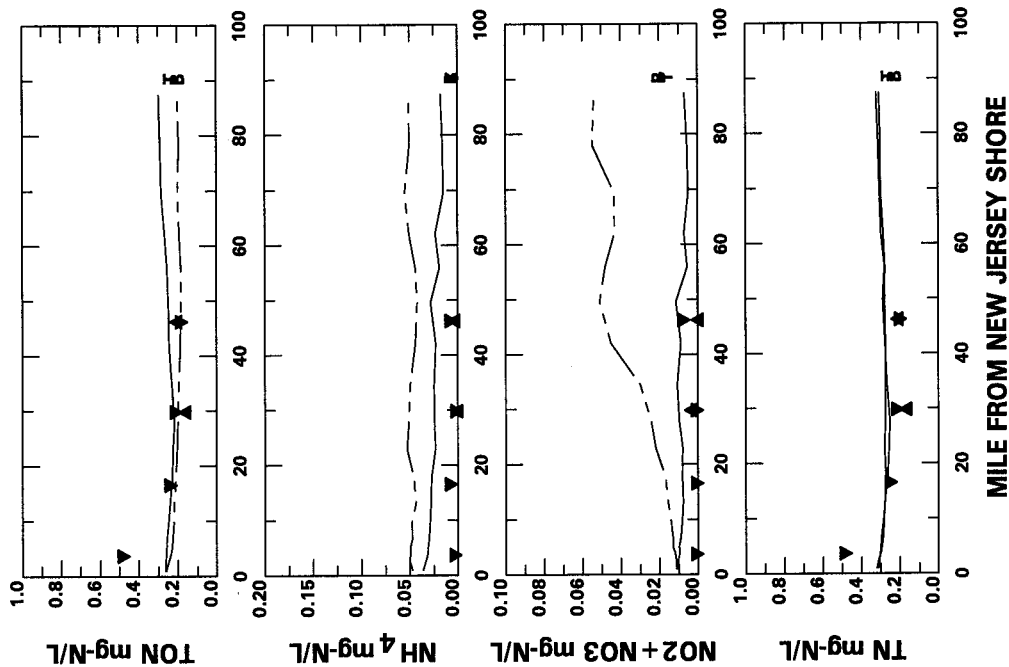
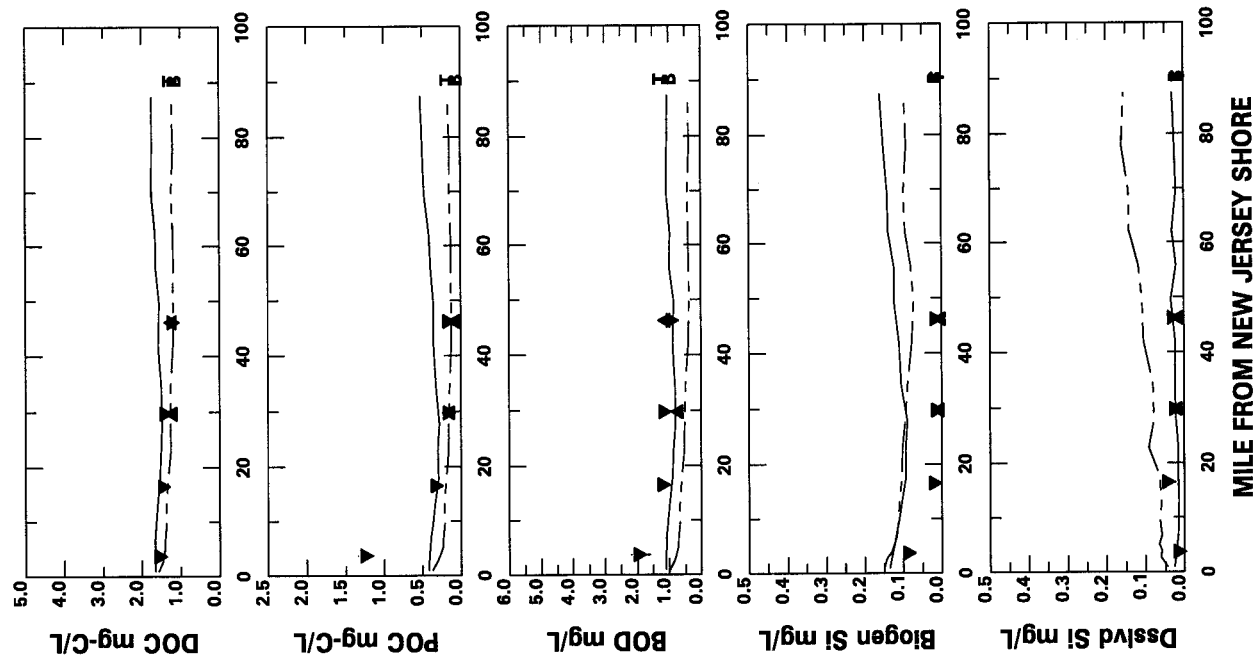
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8,
1995

SURF BOT

▲ Transect
▼ Embayment

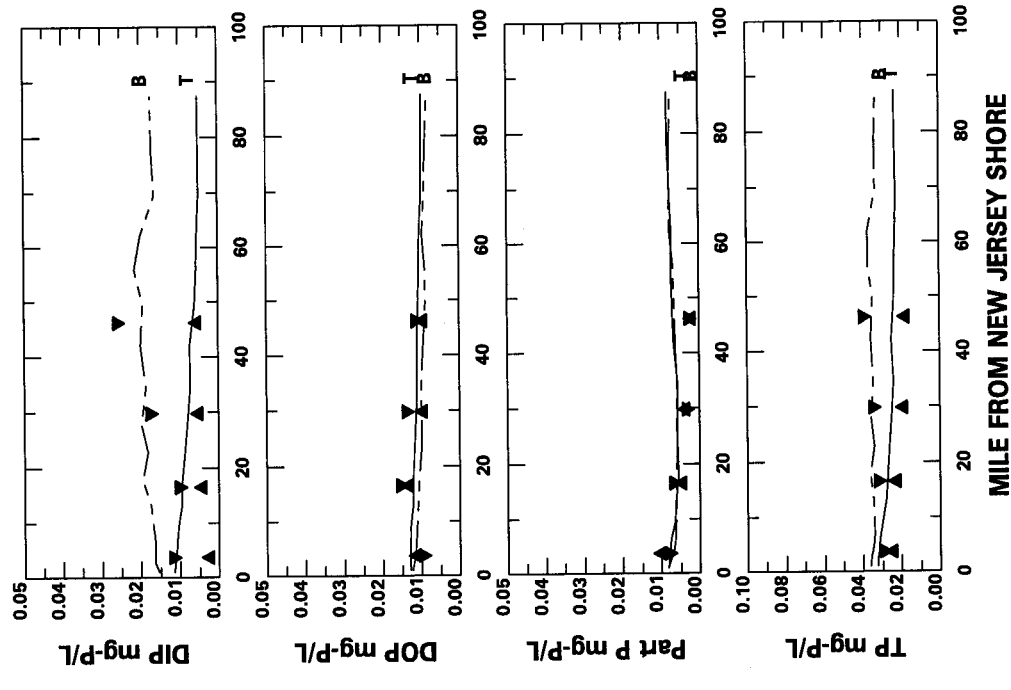
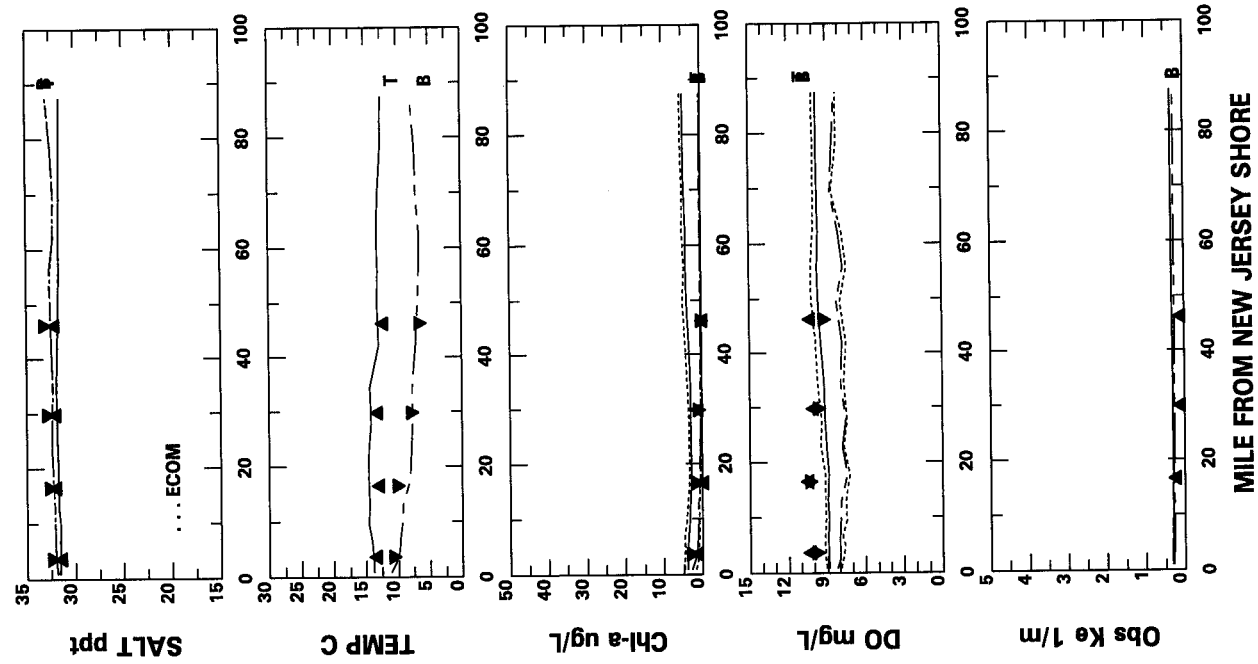
MODEL

— SURFACE 10-DAY MEAN

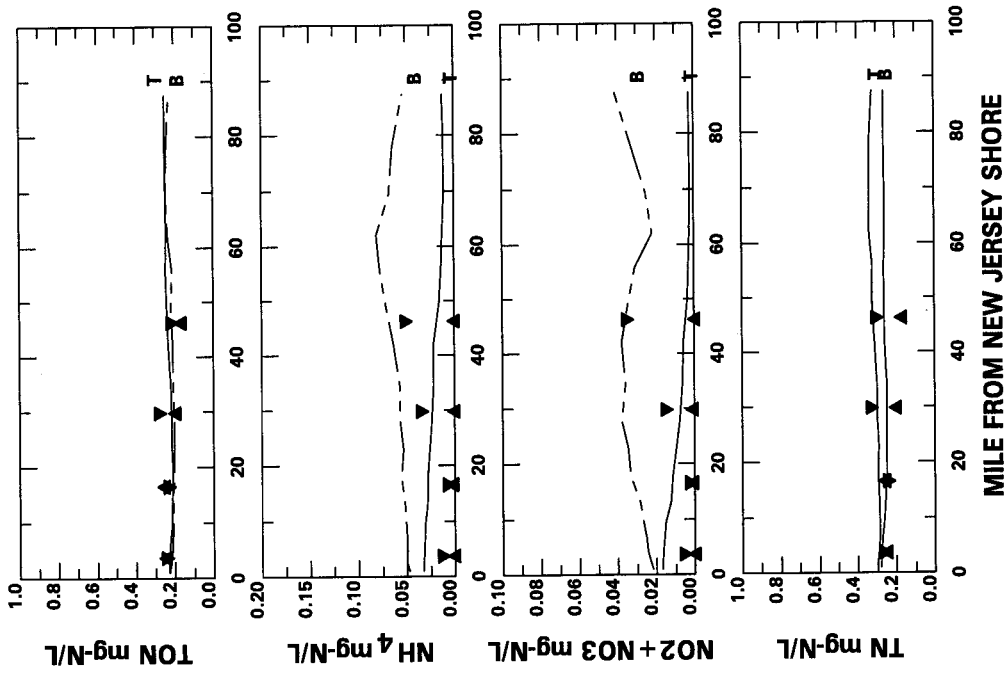
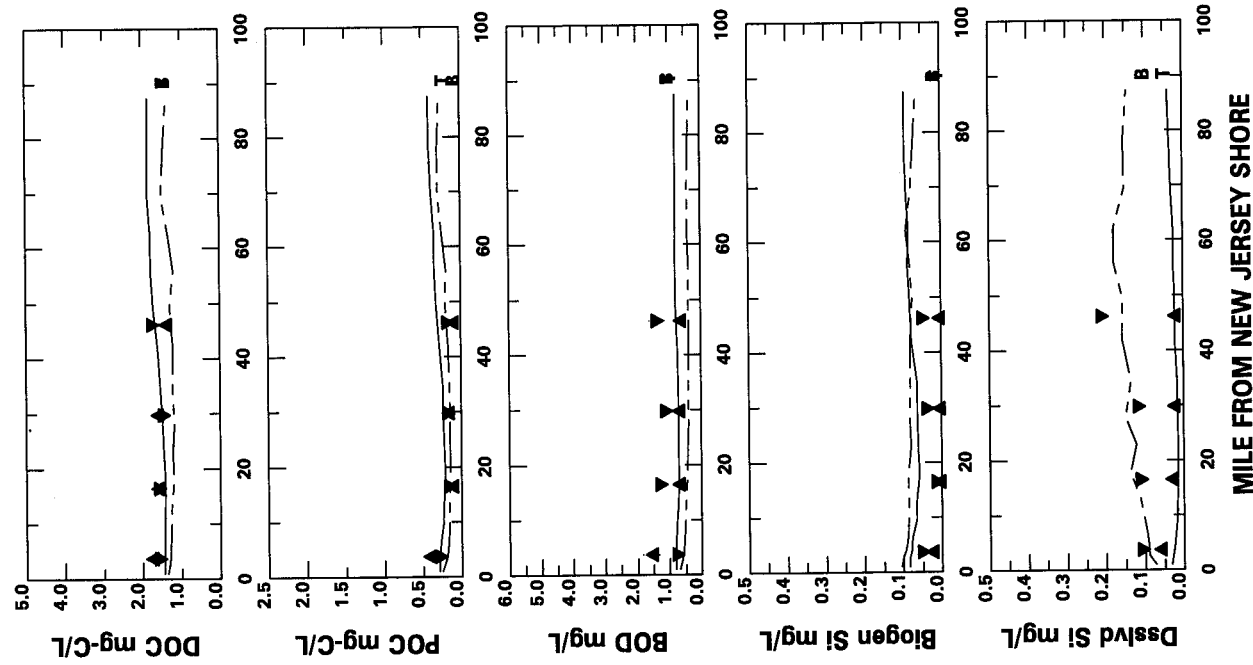
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



**NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3
SWEM REVISED CALIBRATION**



DATA

Battelle May 20-26, 1995

SURF BOT

▲ Transect

▼ Embayment

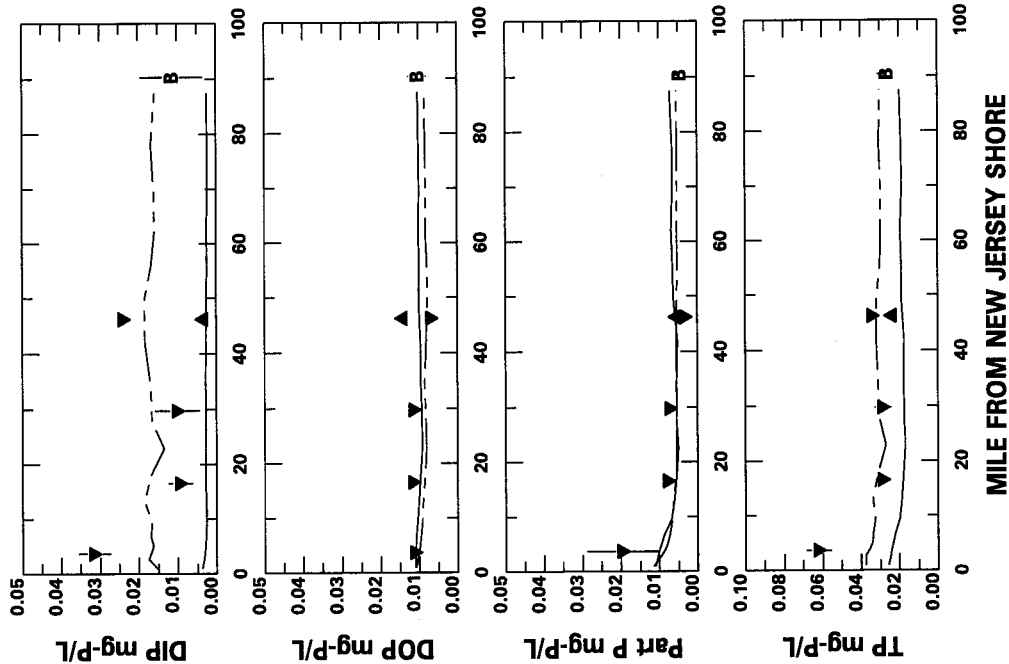
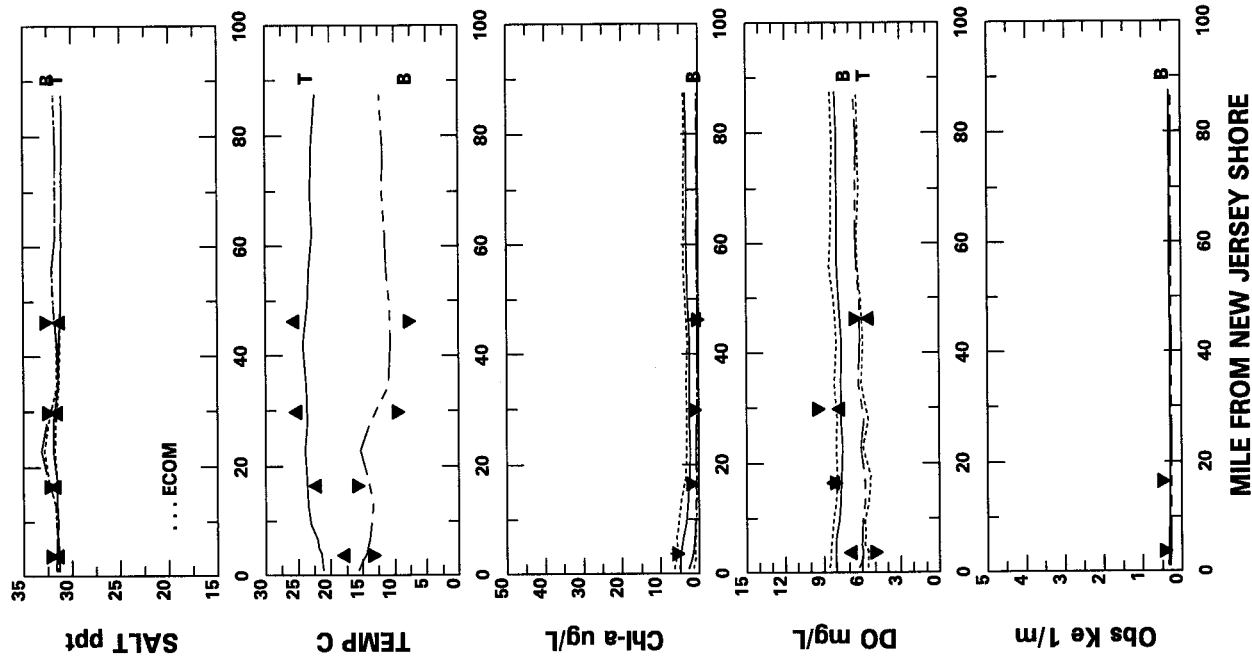
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

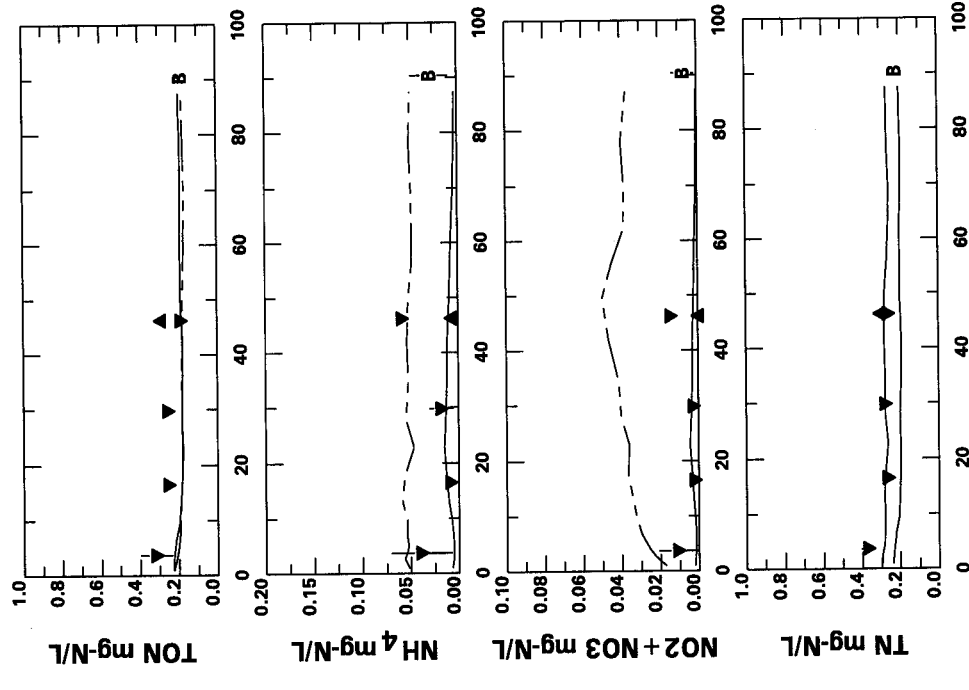
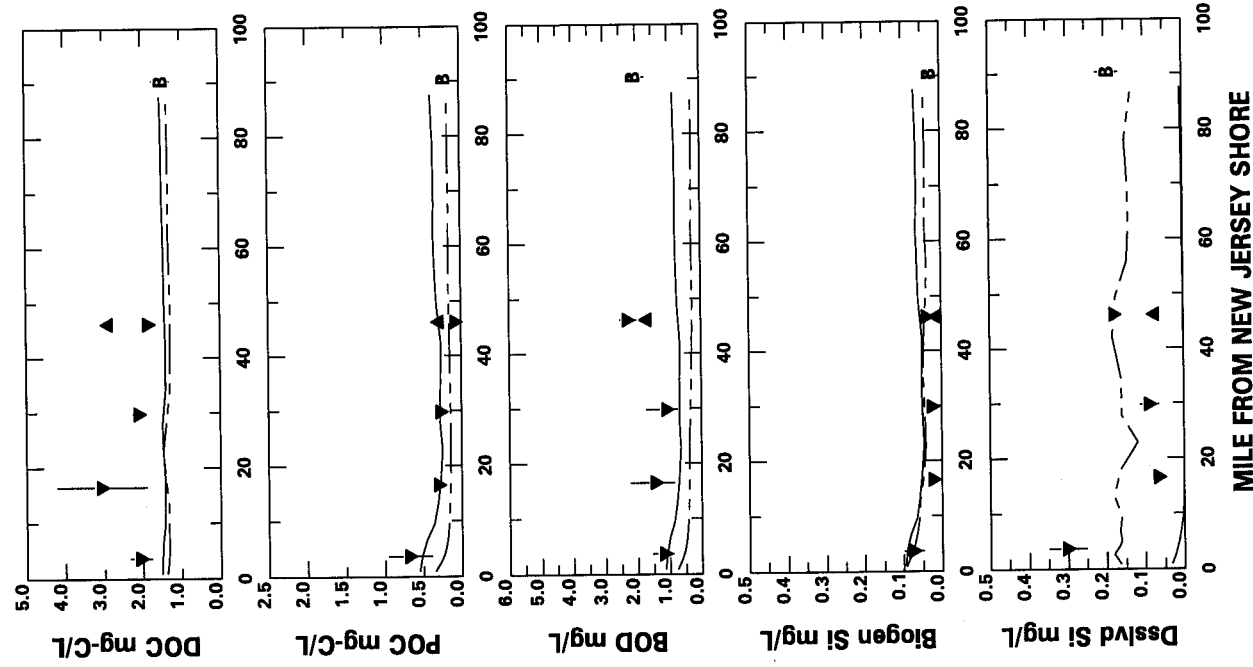
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL
Battelle July 20-Aug 2, 1995	▲ Transect	—
	▼ Embayment	---
		--- 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle July 20-Aug 2,
1995

SURF BOT

▲ ▼ Transect
T B Embayment

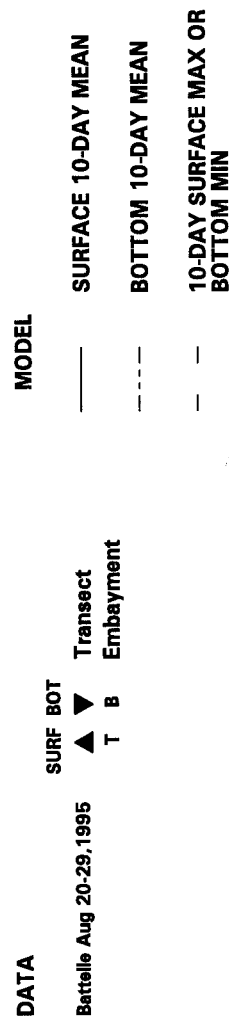
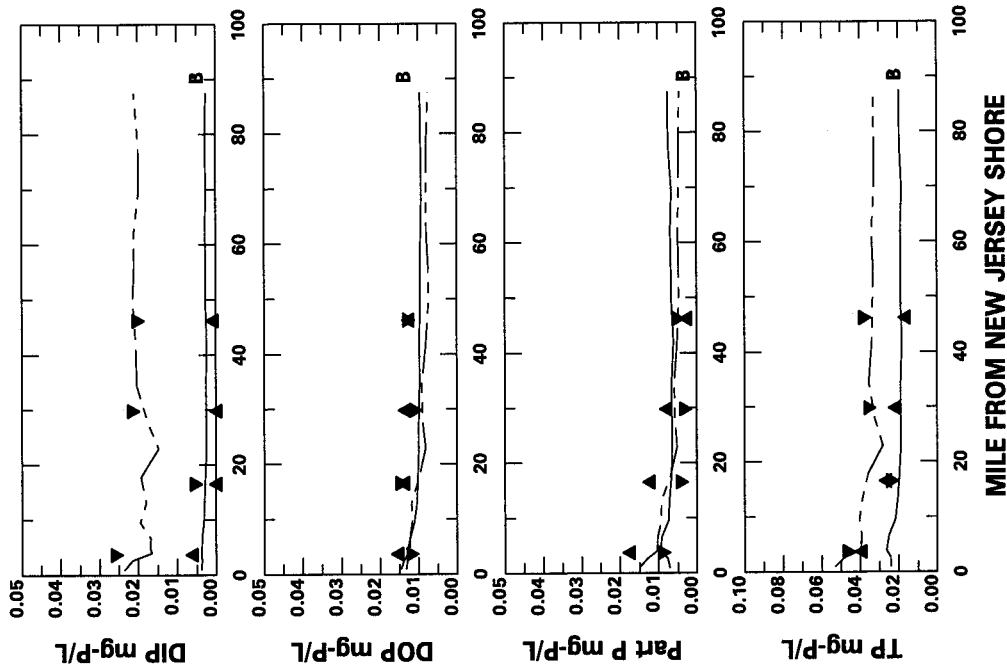
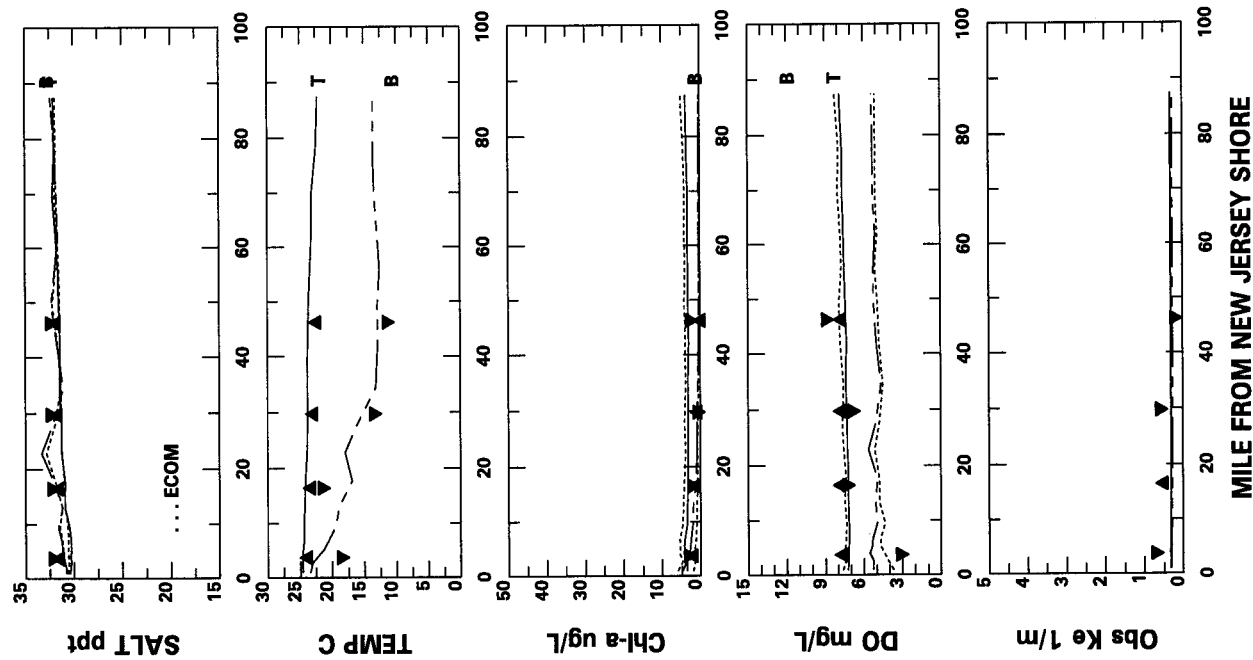
MODEL

SURFACE 10-DAY MEAN

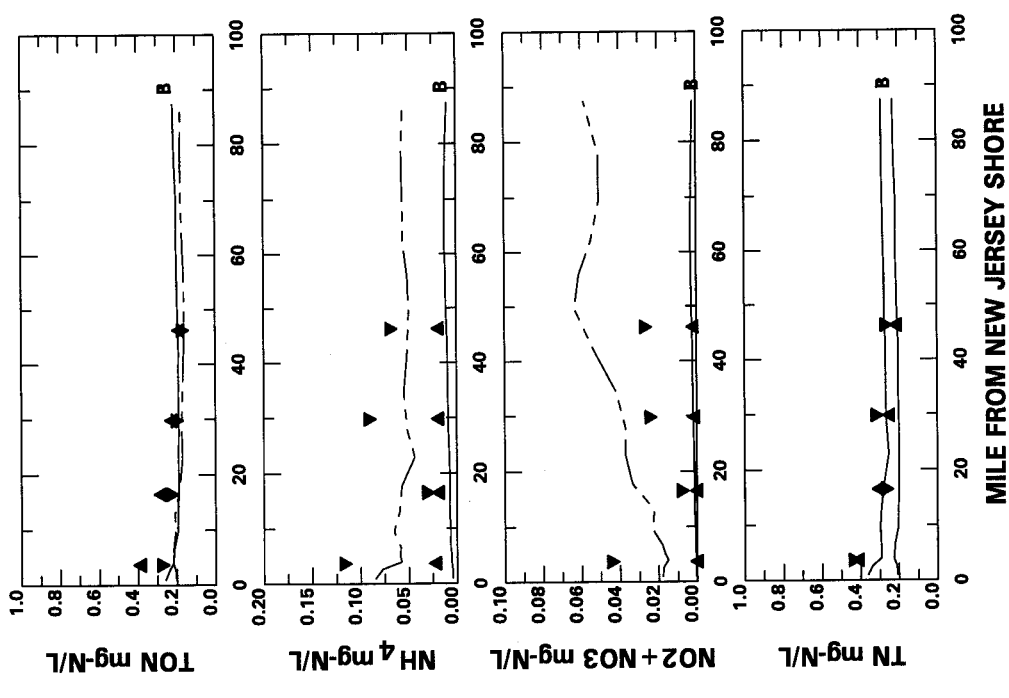
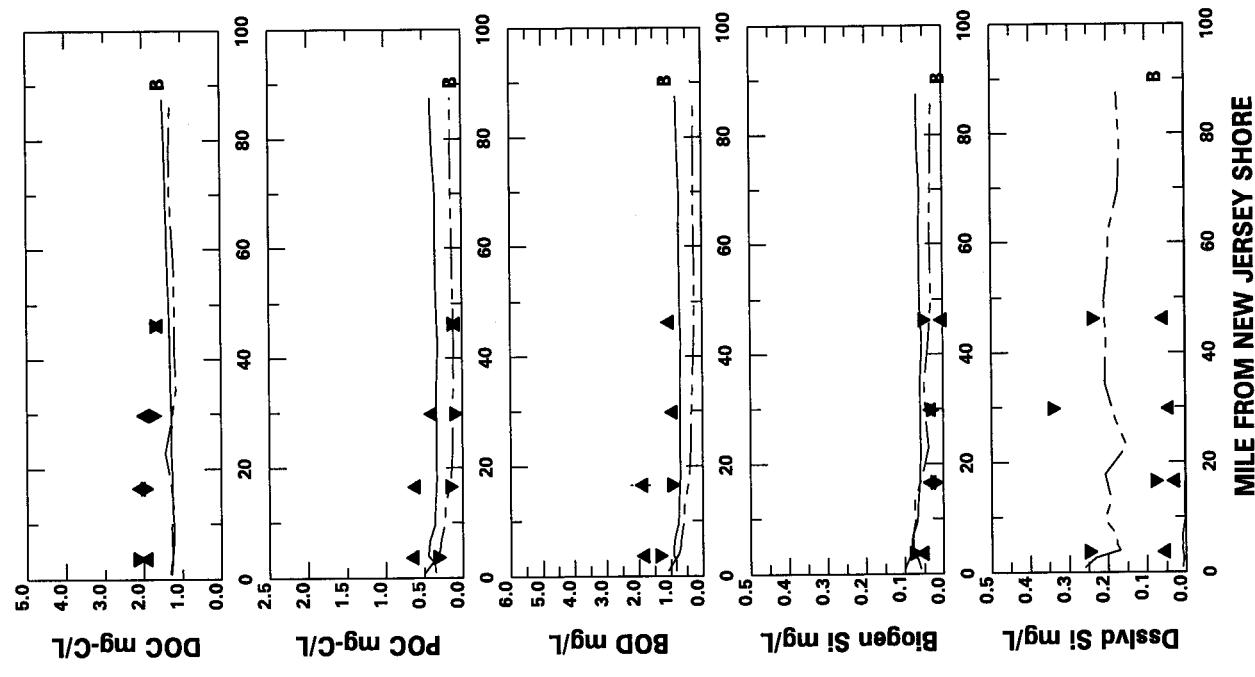
BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Aug 20-29, 1995

SURF BOT

▲ Transect

▼ Embayment

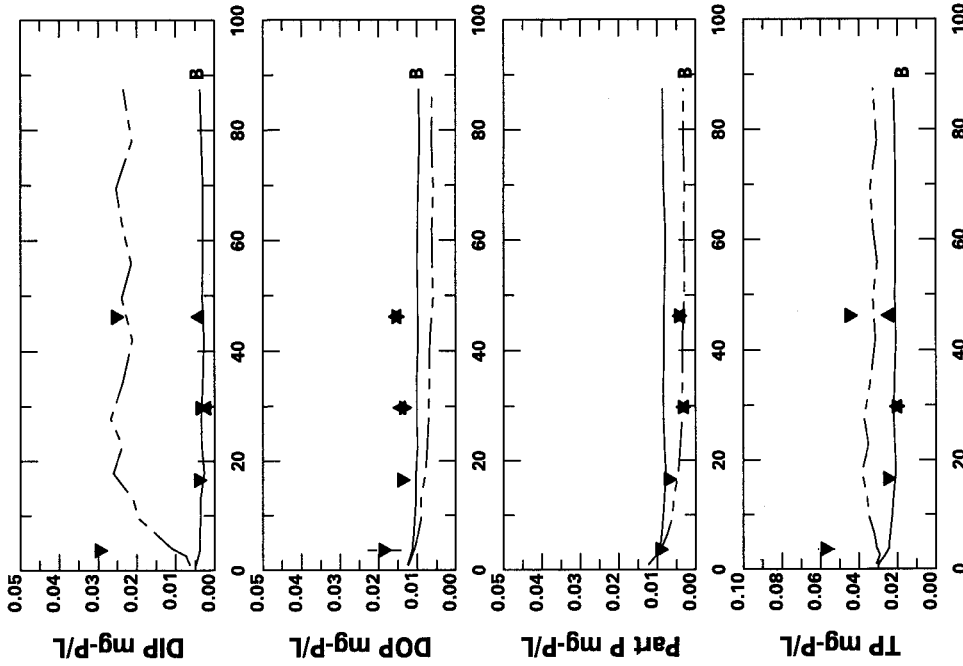
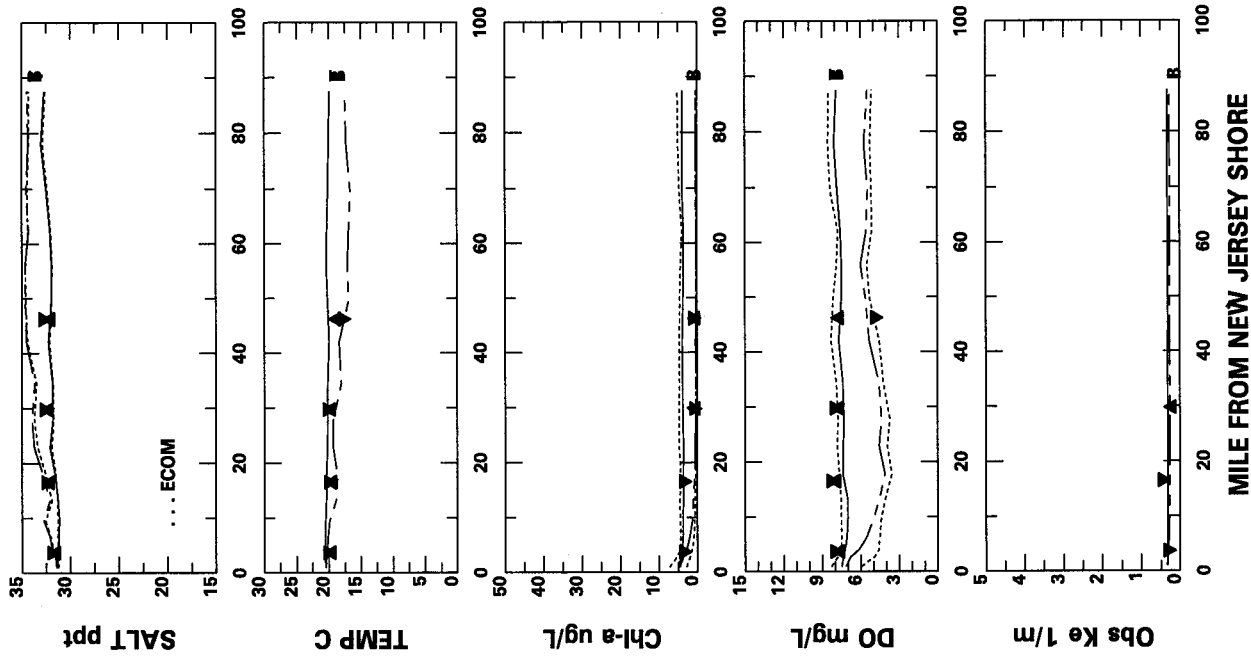
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



MILE FROM NEW JERSEY SHORE

DATA

SURF BOT

Battelle Sep 23-Oct 2,
1995

Transect
T B Embayment

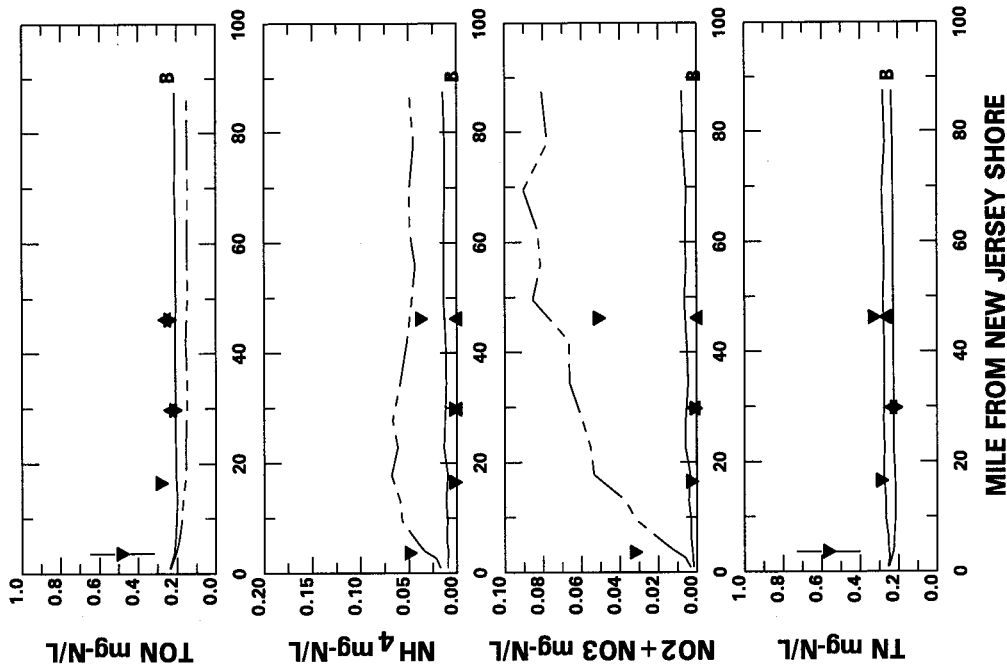
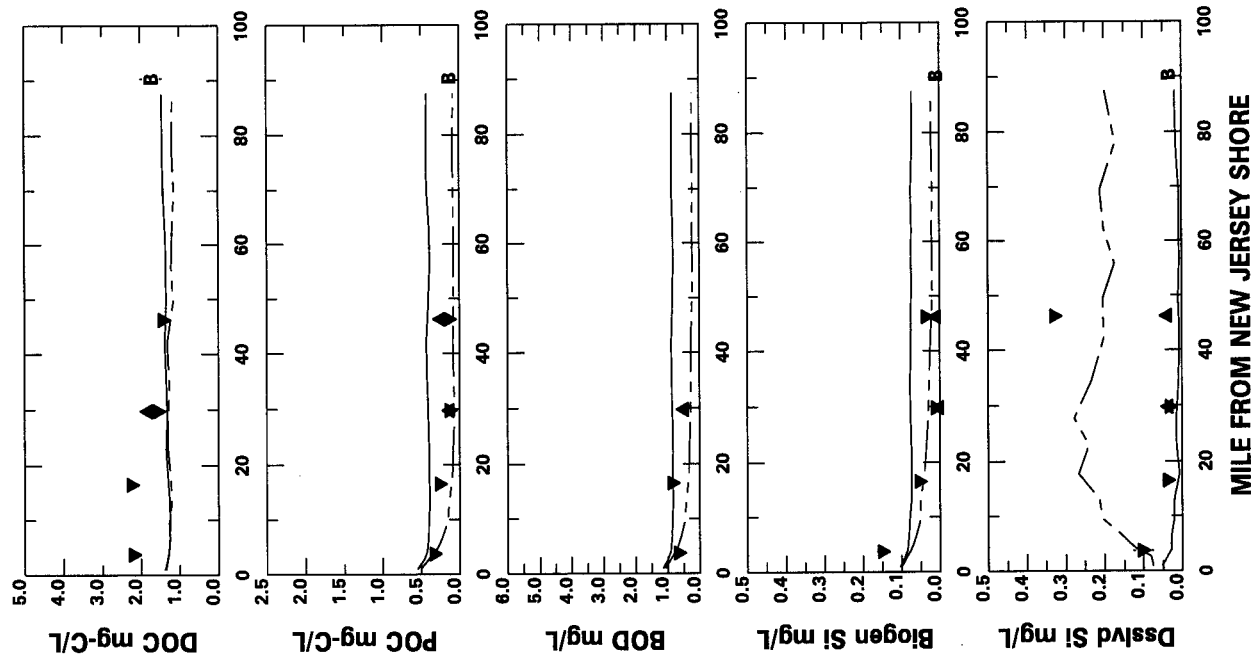
MODEL

SURFACE 10-DAY MEAN

BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR
BOTTOM MIN

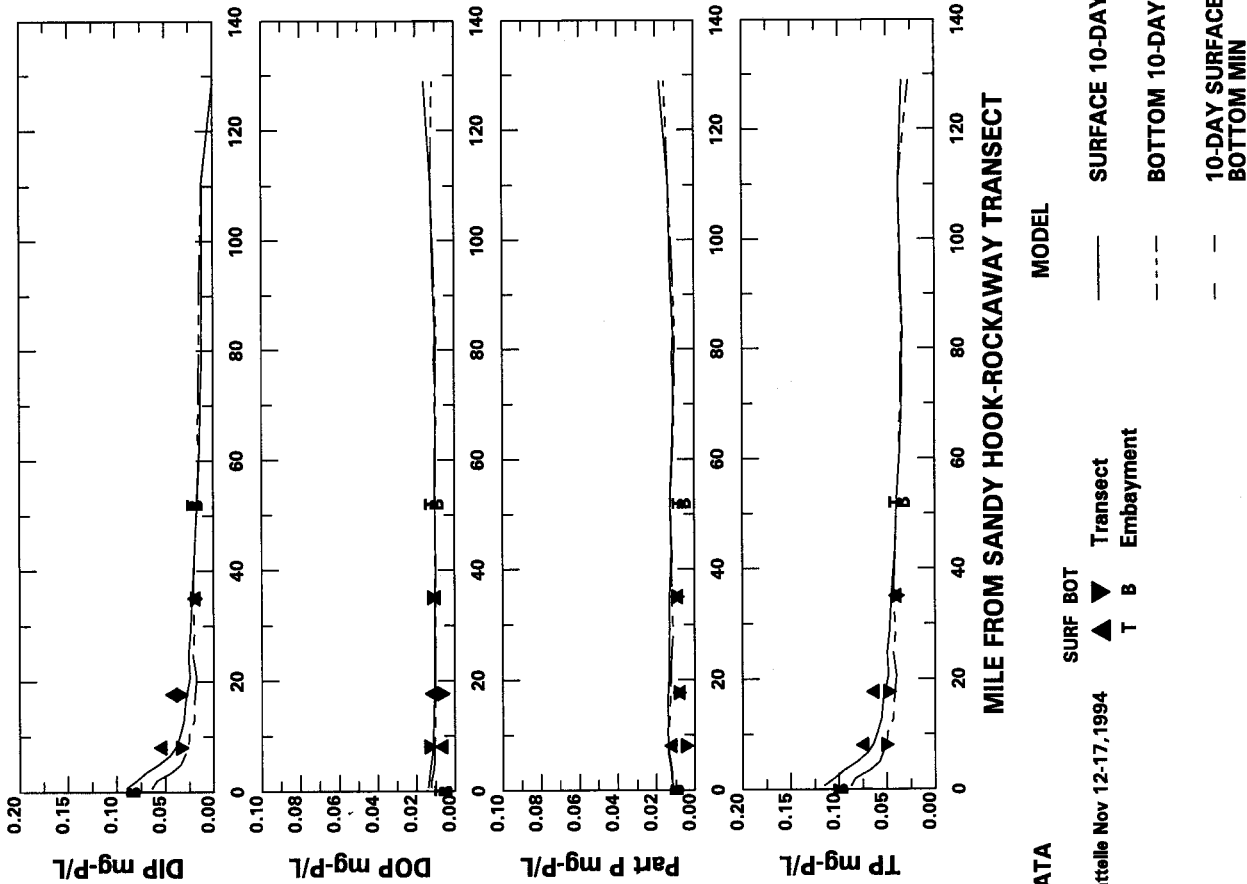
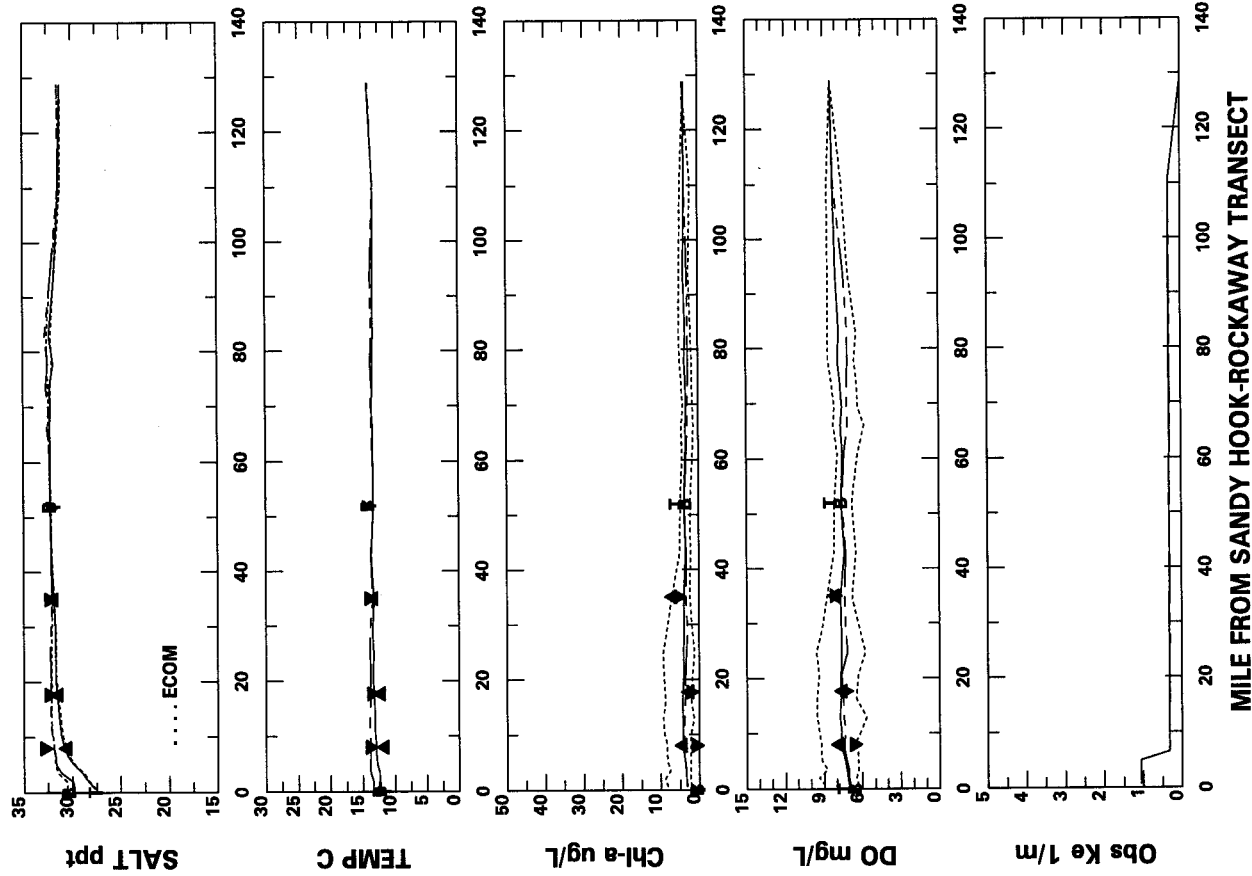
NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA	SURF BOT	MODEL
Battelle Sep 23-Oct 2, 1995	▲ Transect	— SURFACE 10-DAY MEAN
	▼ Embayment	- - - BOTTOM 10-DAY MEAN
		- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT EAST-WEST TRANSECT 5 RUN 9495-BC3 SWEM REVISED CALIBRATION

**SPATIAL DISTRIBUTIONS OF
N.Y. BIGHT
NORTH-SOUTH TRANSECT 1**



DATA

Battelle Nov 12-17, 1994

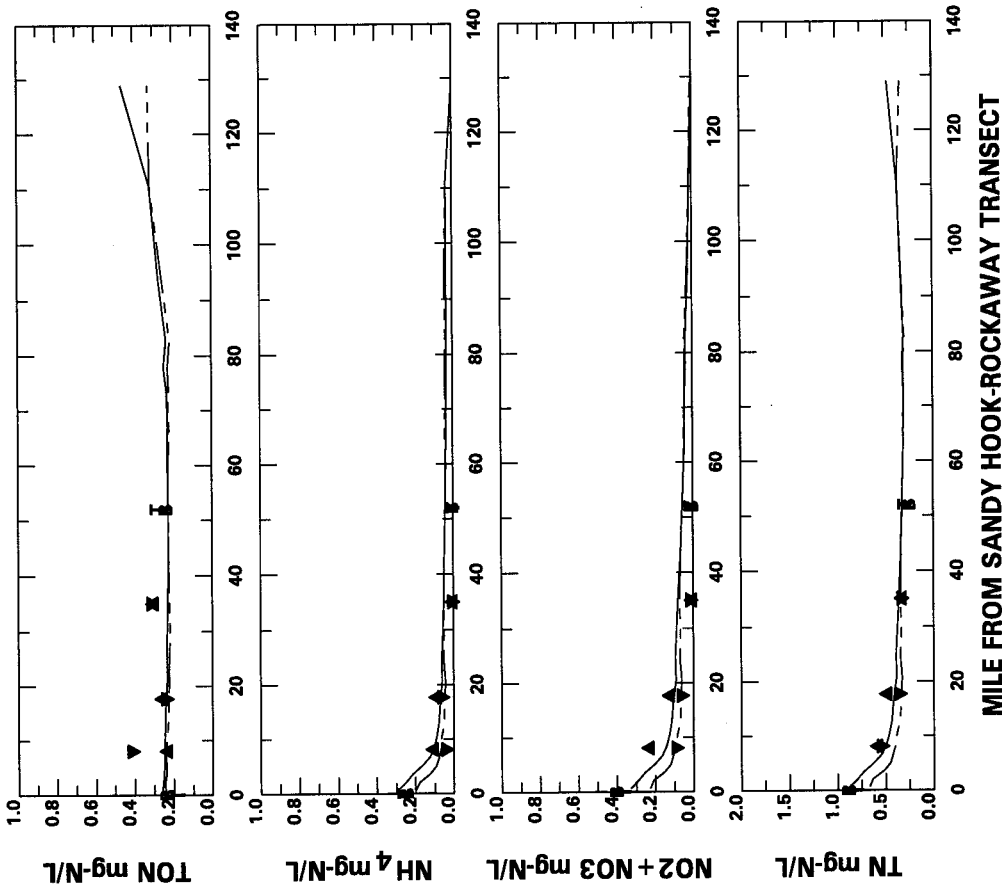
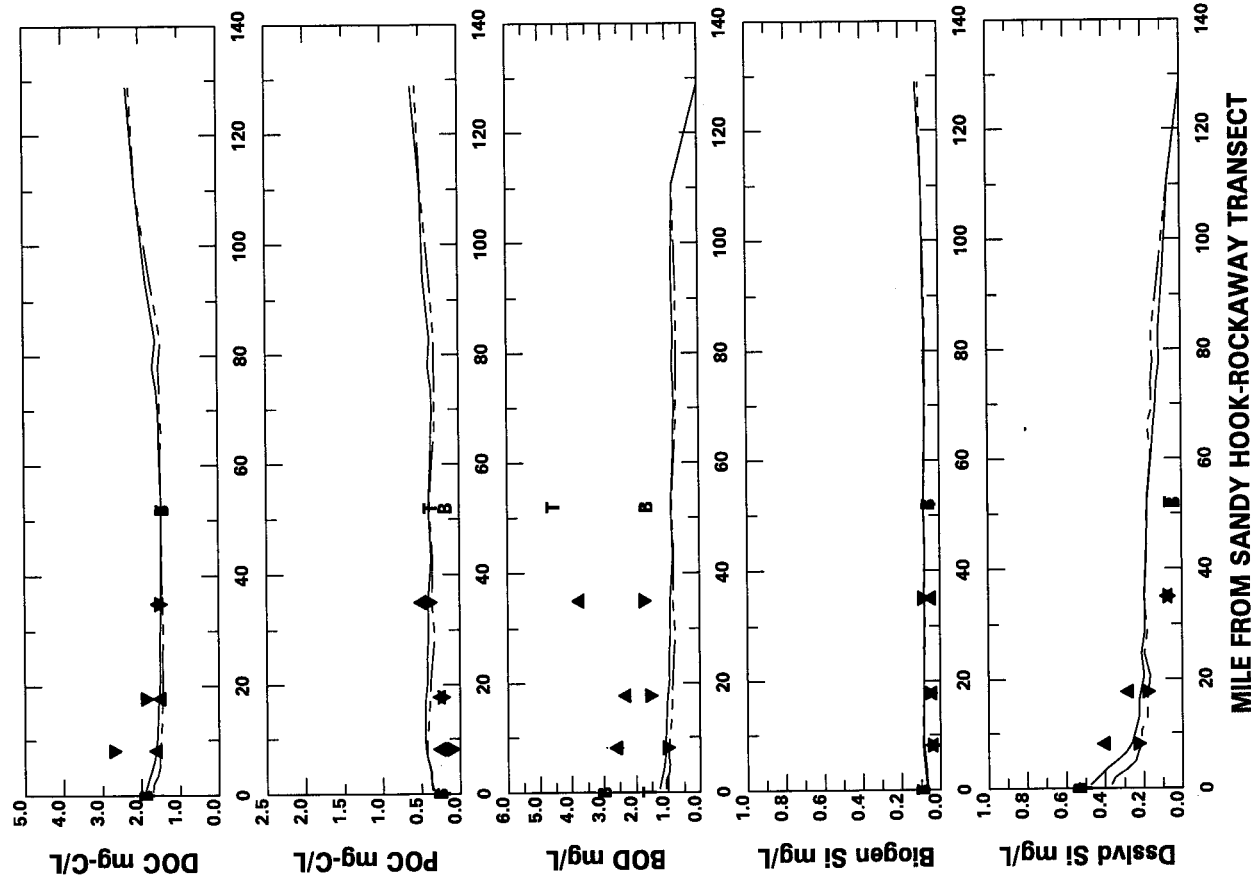
SURF BOT

▲ Transect
T B Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Nov 12-17, 1994

SURF BOT

▲ Transect
▼ Embayment

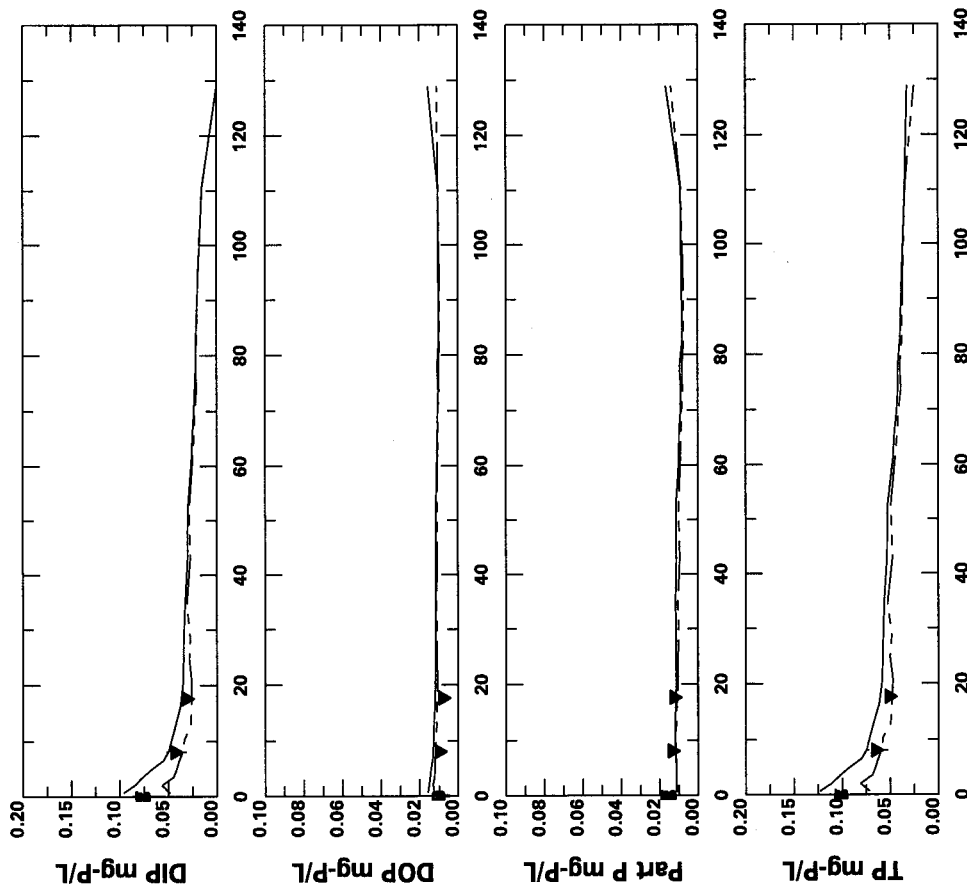
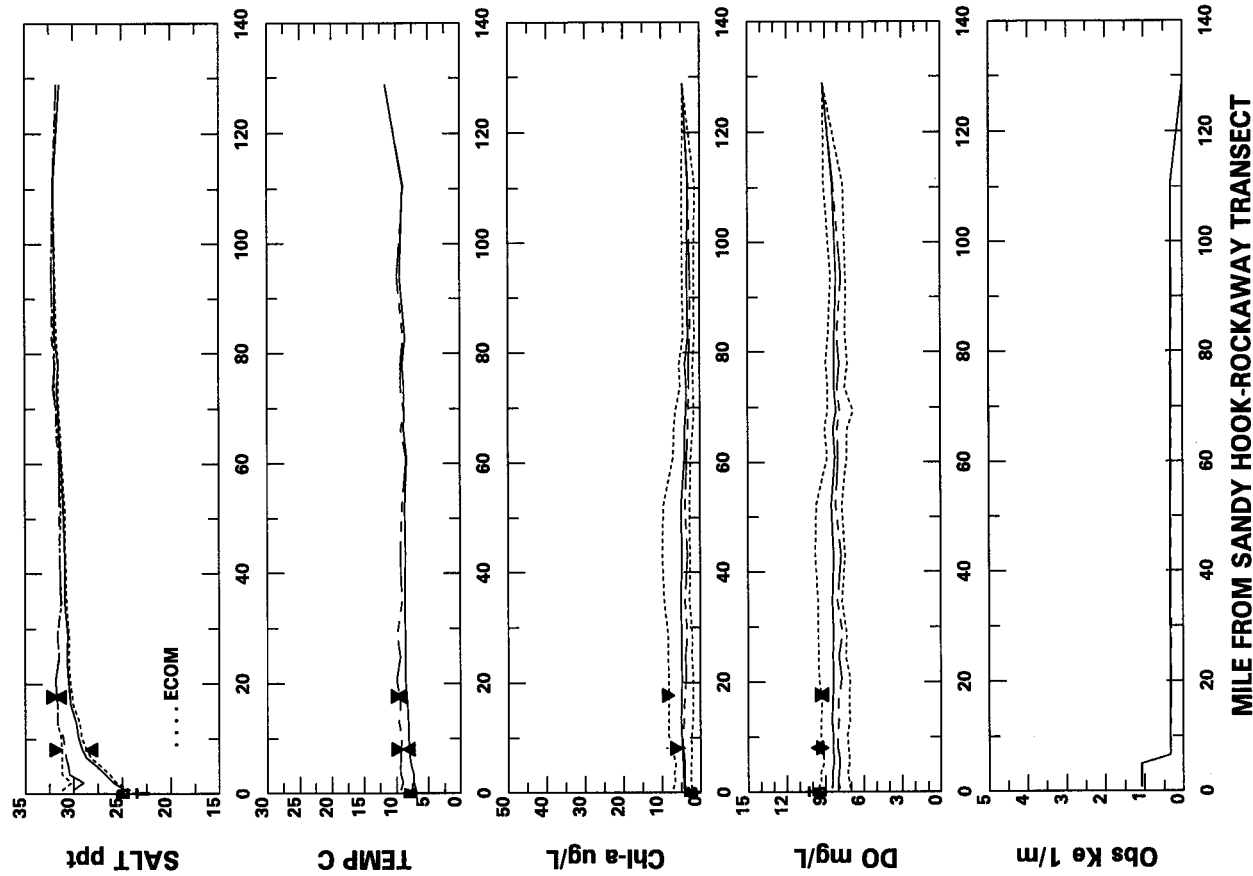
MODEL

— SURFACE 10-DAY MEAN

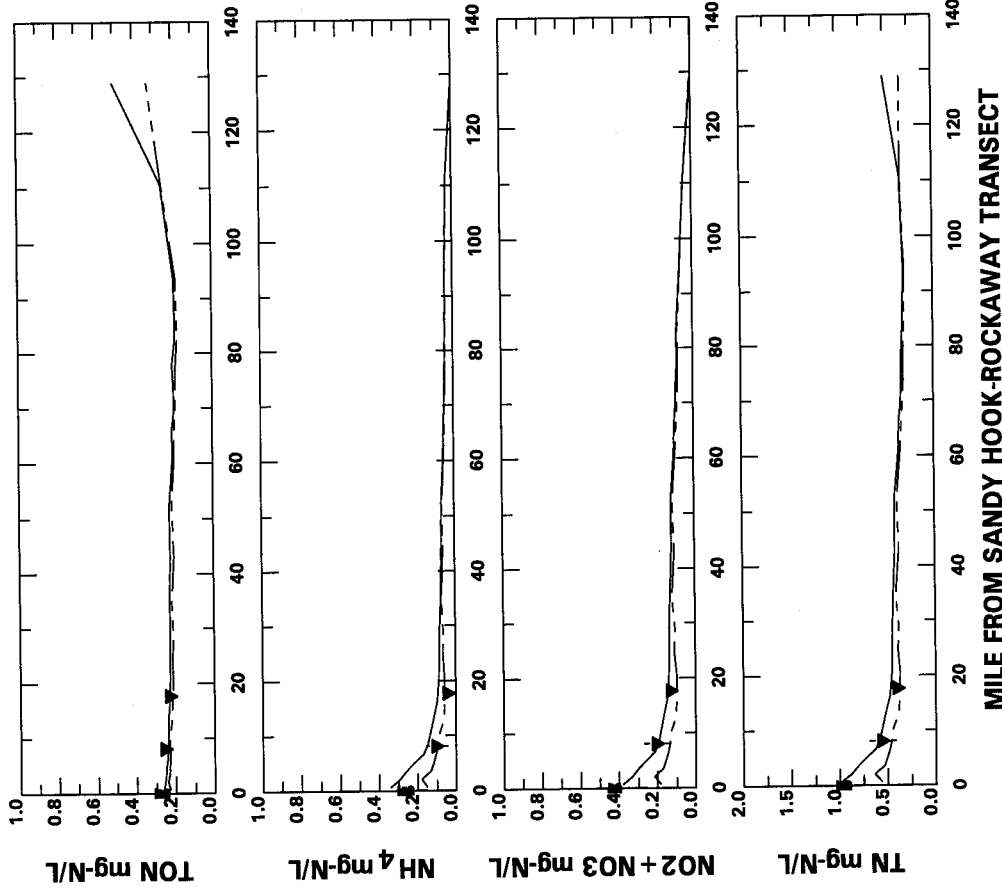
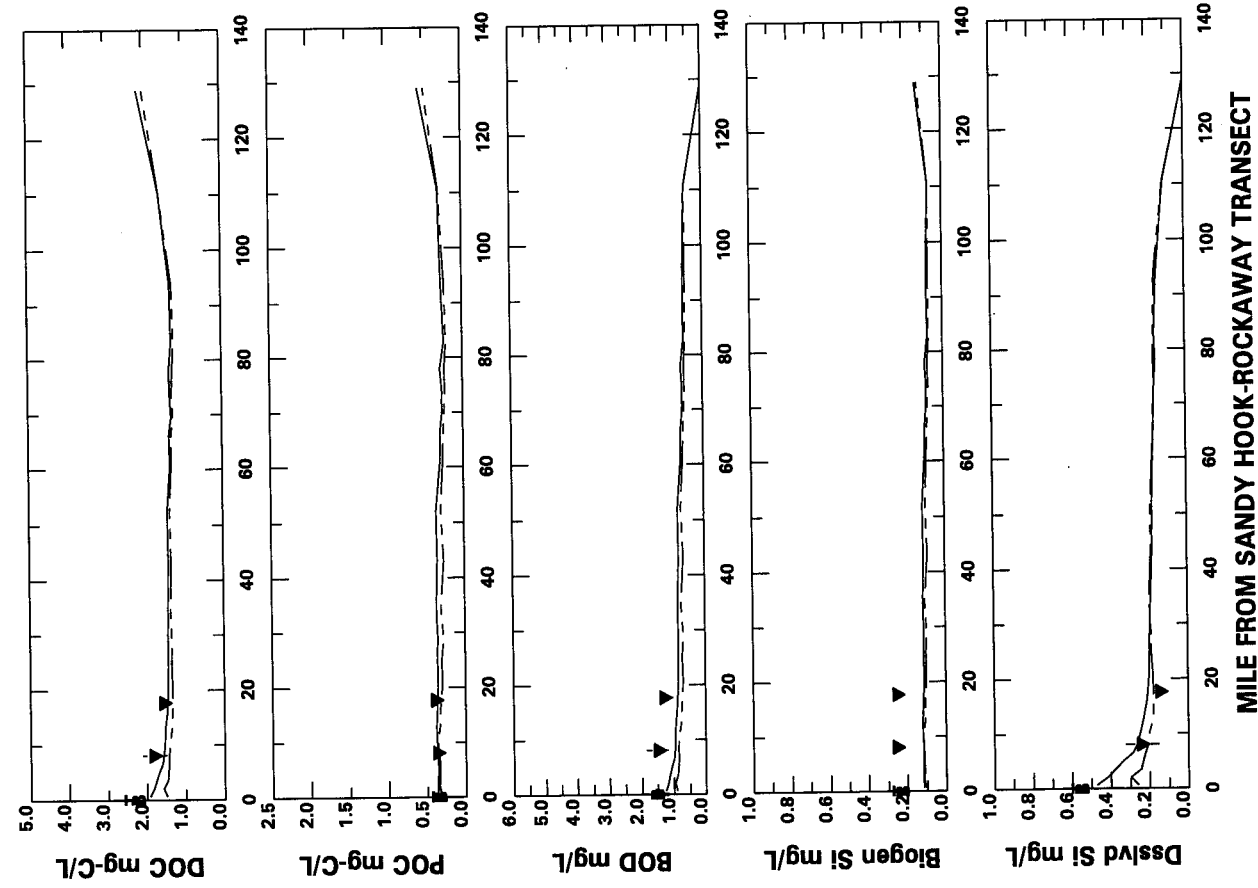
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Dec 10-16, 1994

SURF BOT

▲ ▼

T B

Transect

Embayment

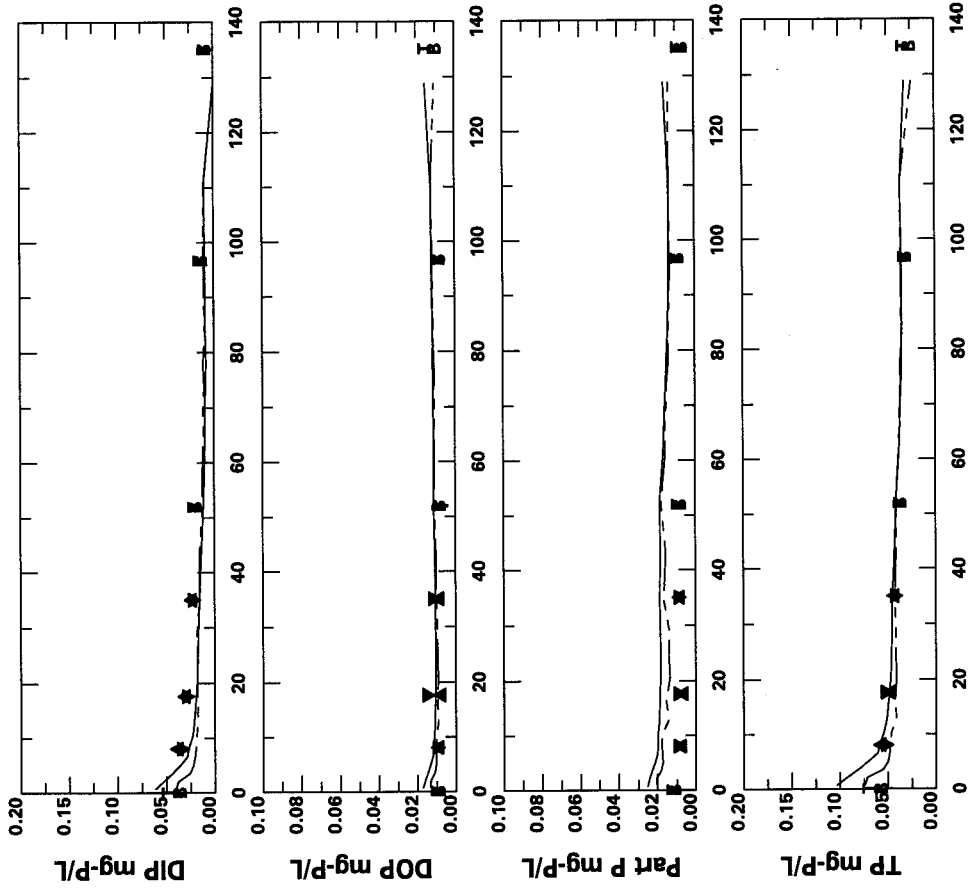
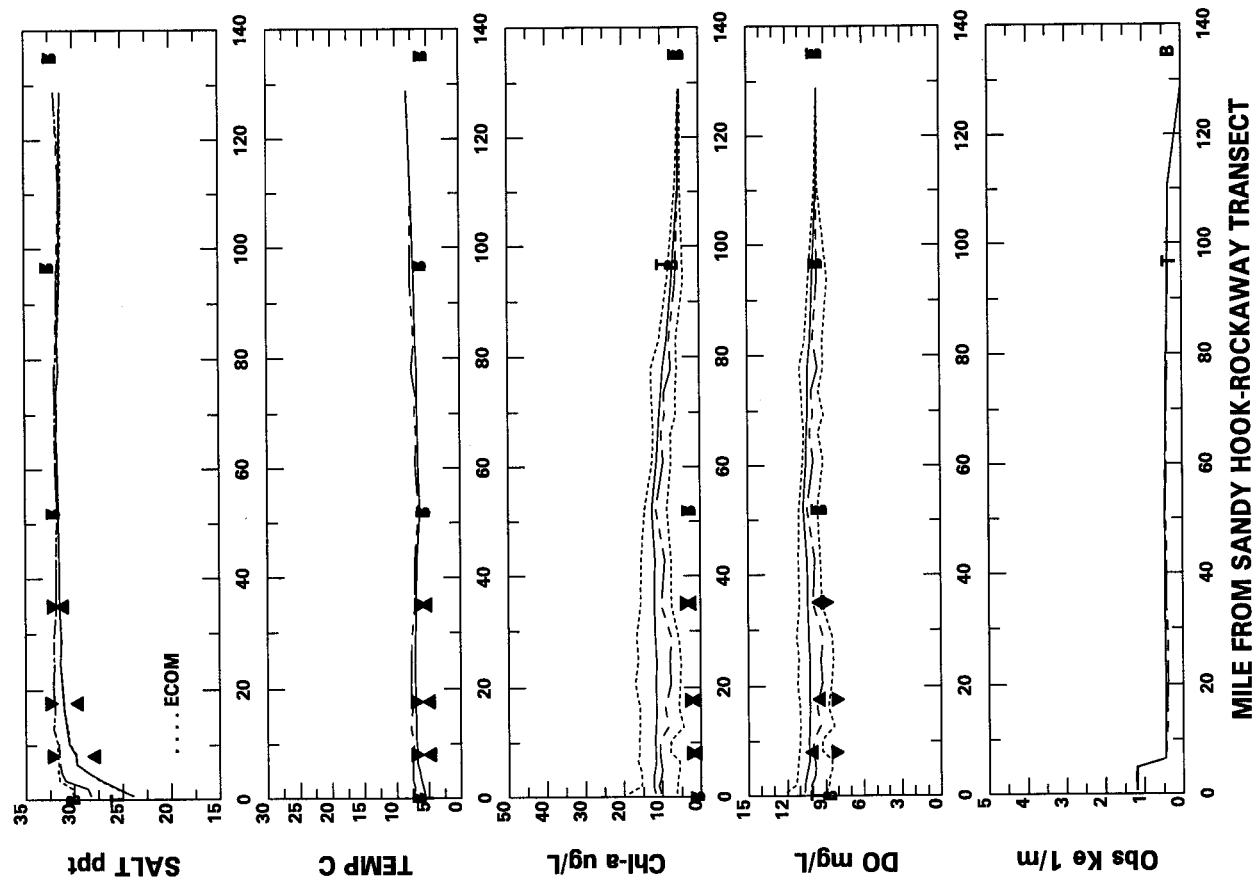
MODEL

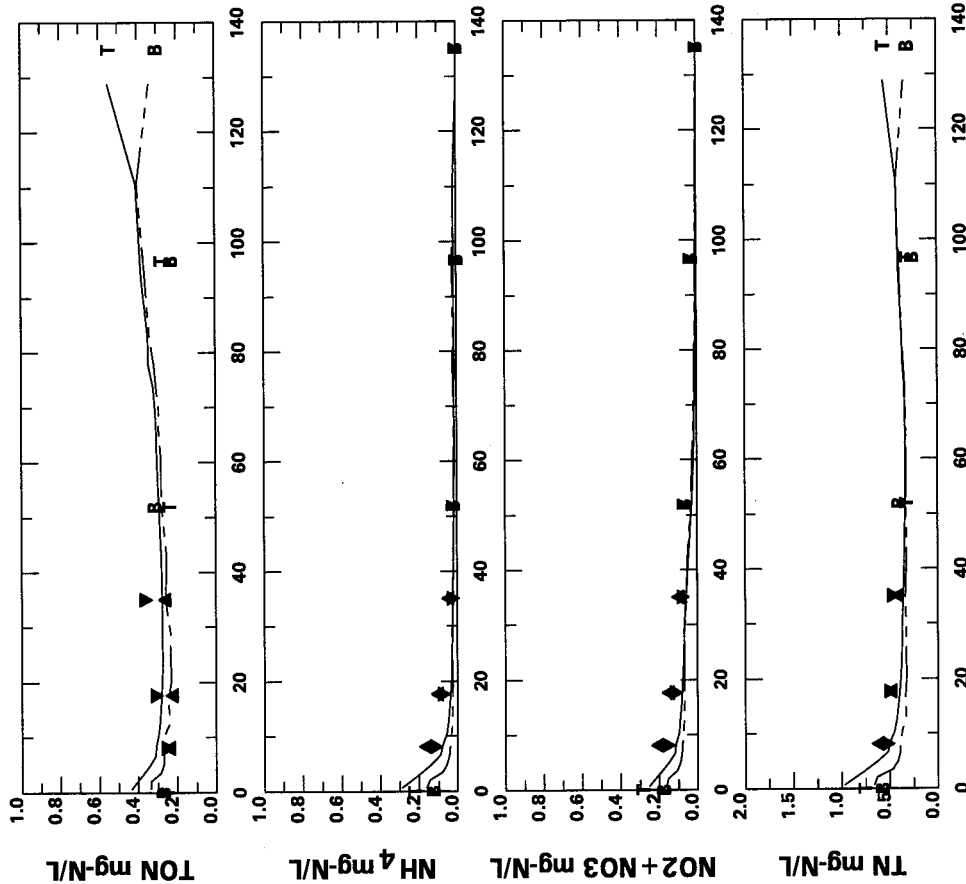
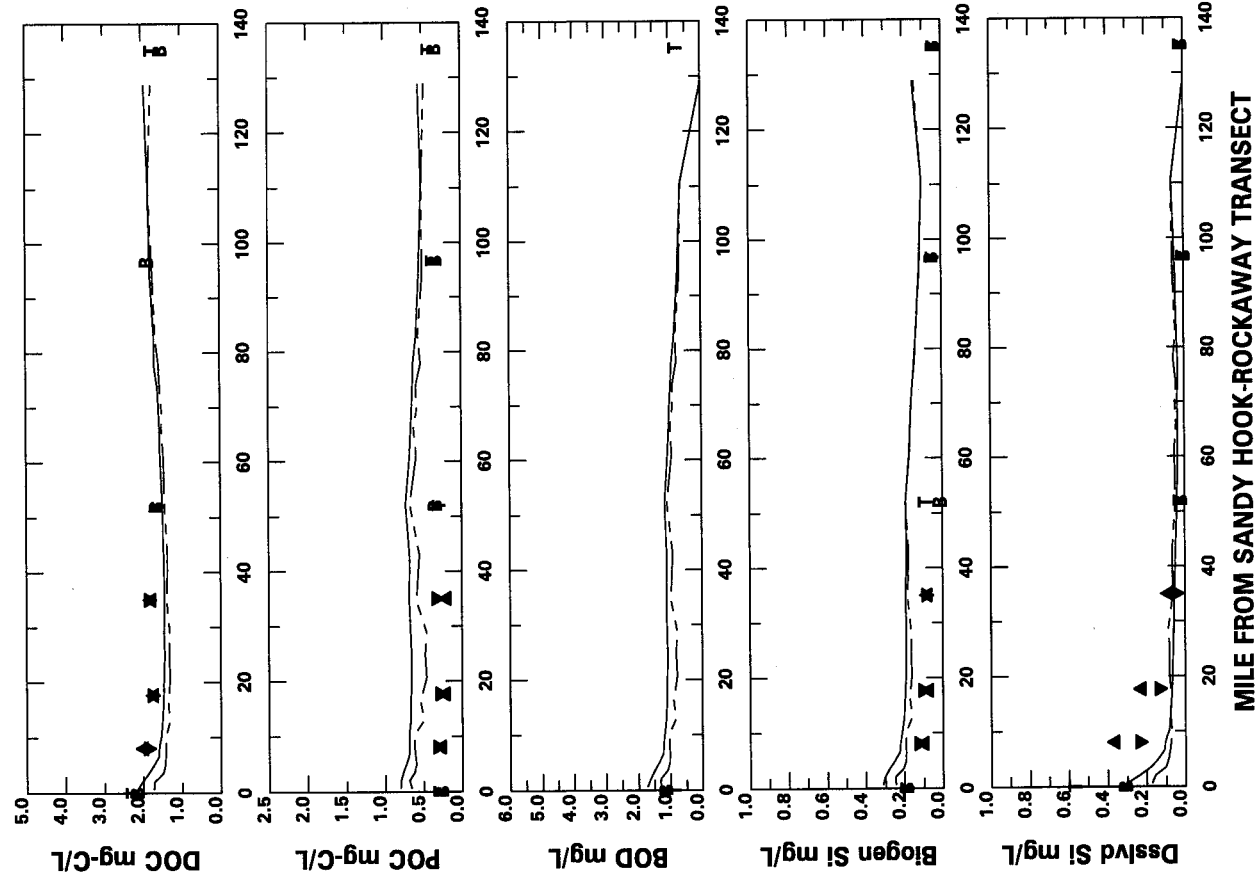
— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION





DATA

Battelle Jan 23-31, 1995

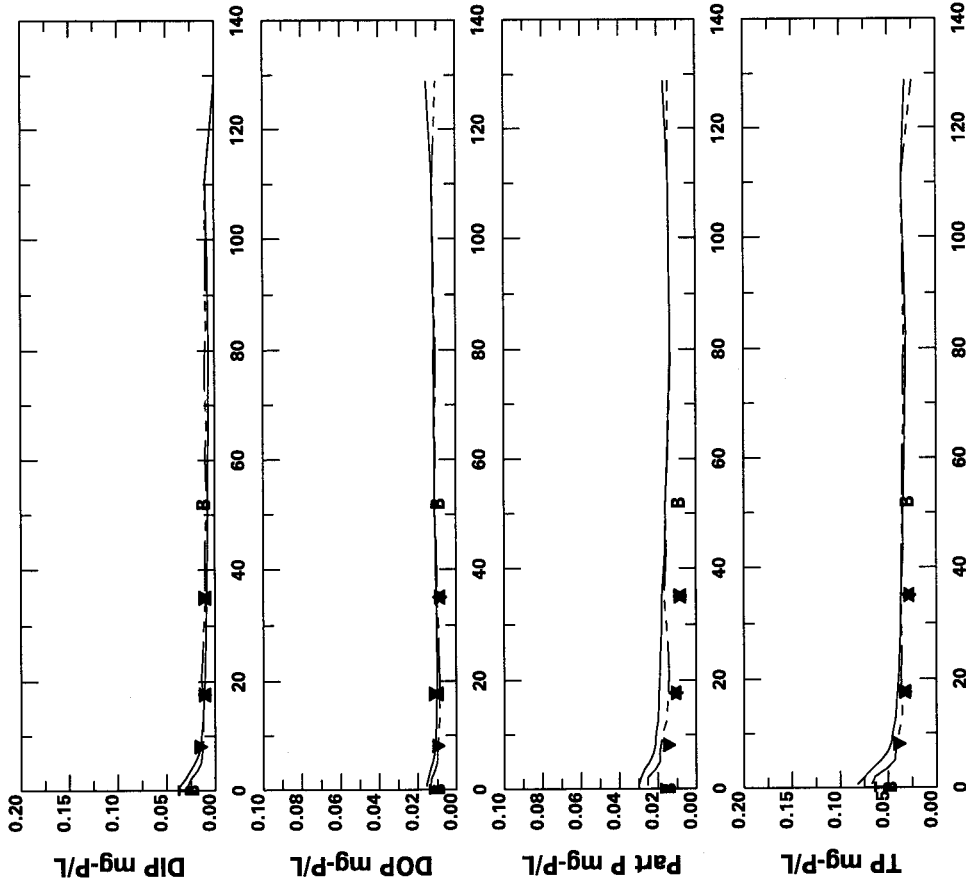
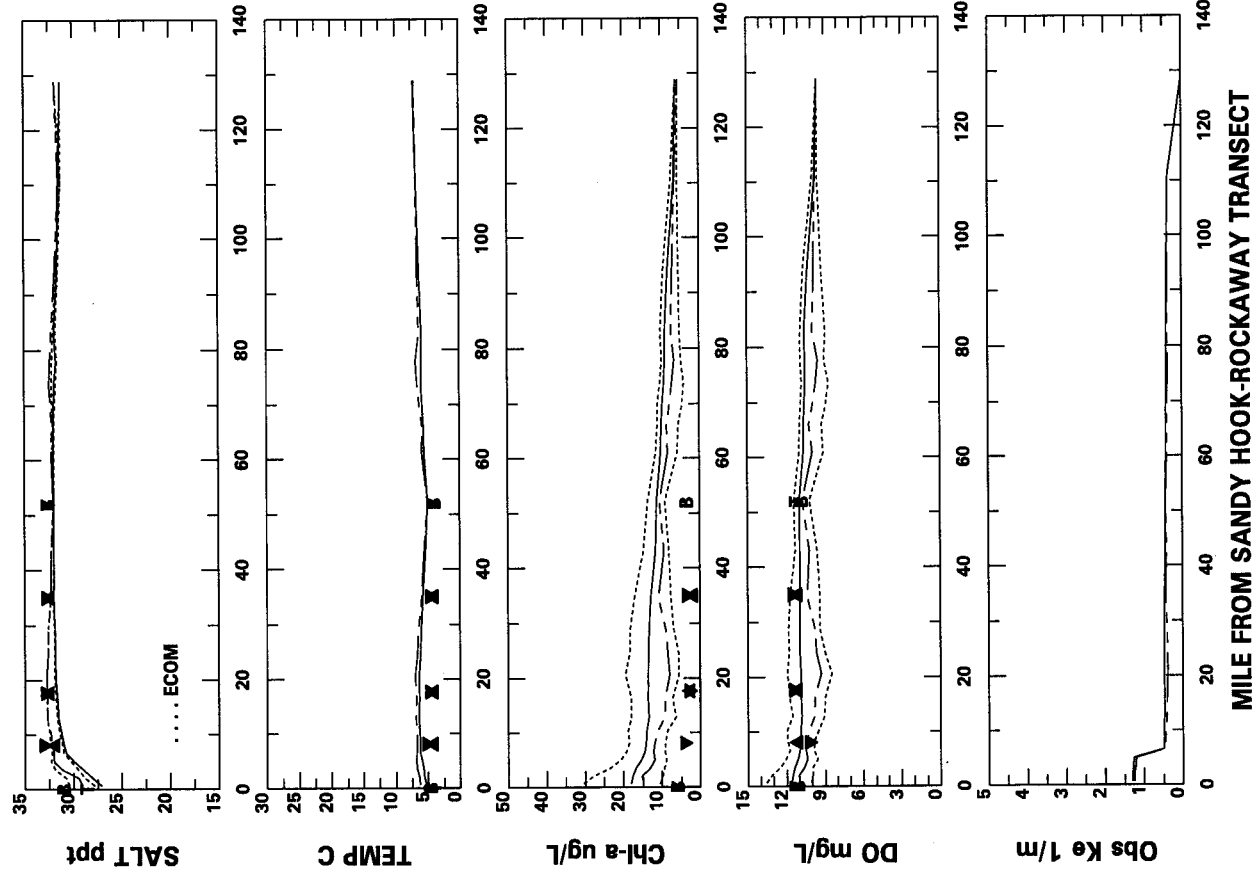
SURF BOT

▲ Transect
▼ Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

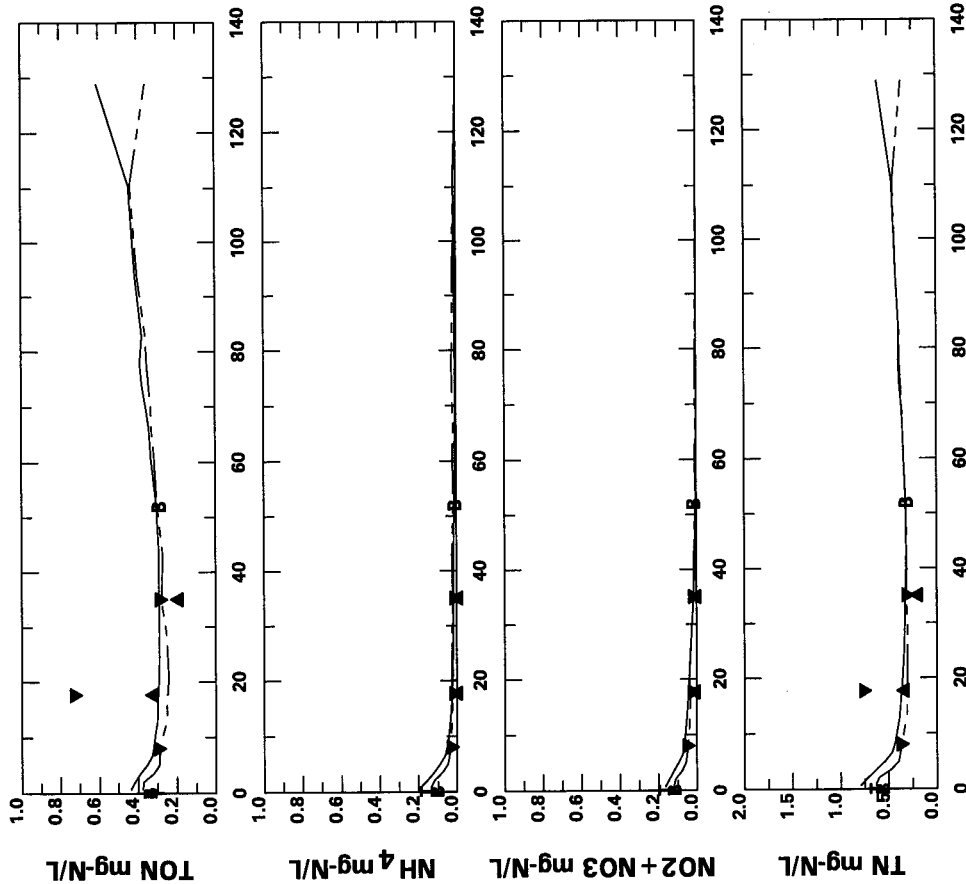
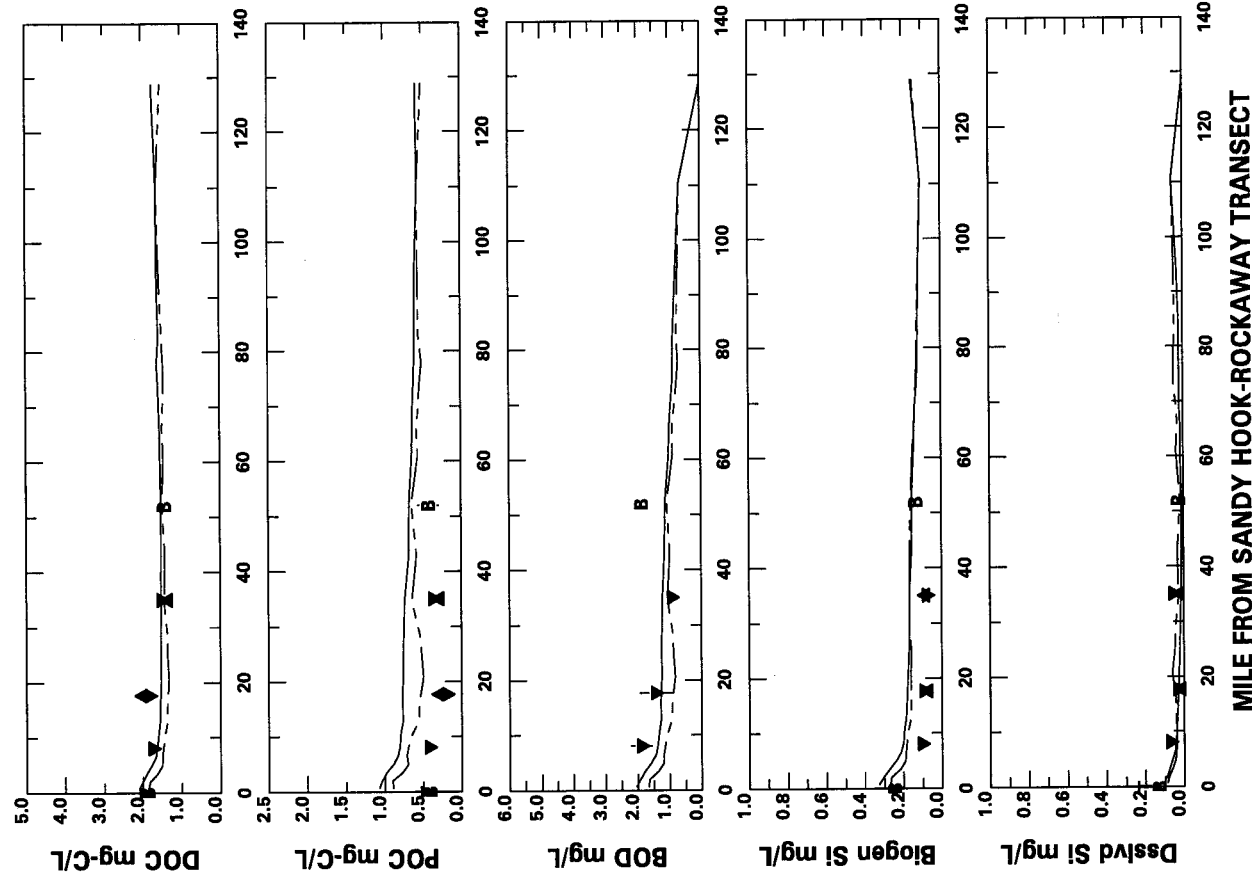
Battelle Feb 22-Mar 1,
1995

SURF BOT

▲ ▼ Transect
T B Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN



DATA

Battelle Feb 22-Mar 1,
1995

SURF BOT

▲ Transect
■ Embayment

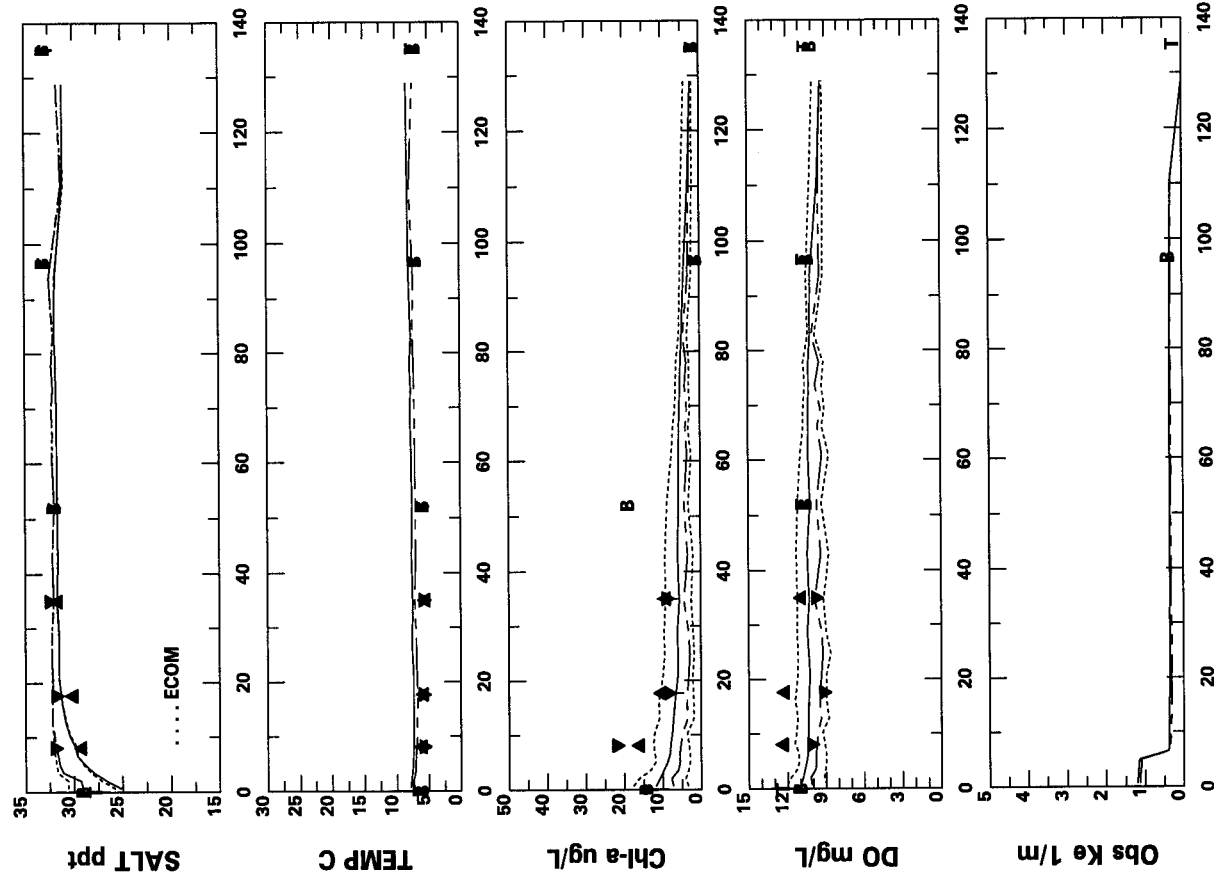
MODEL

— SURFACE 10-DAY MEAN

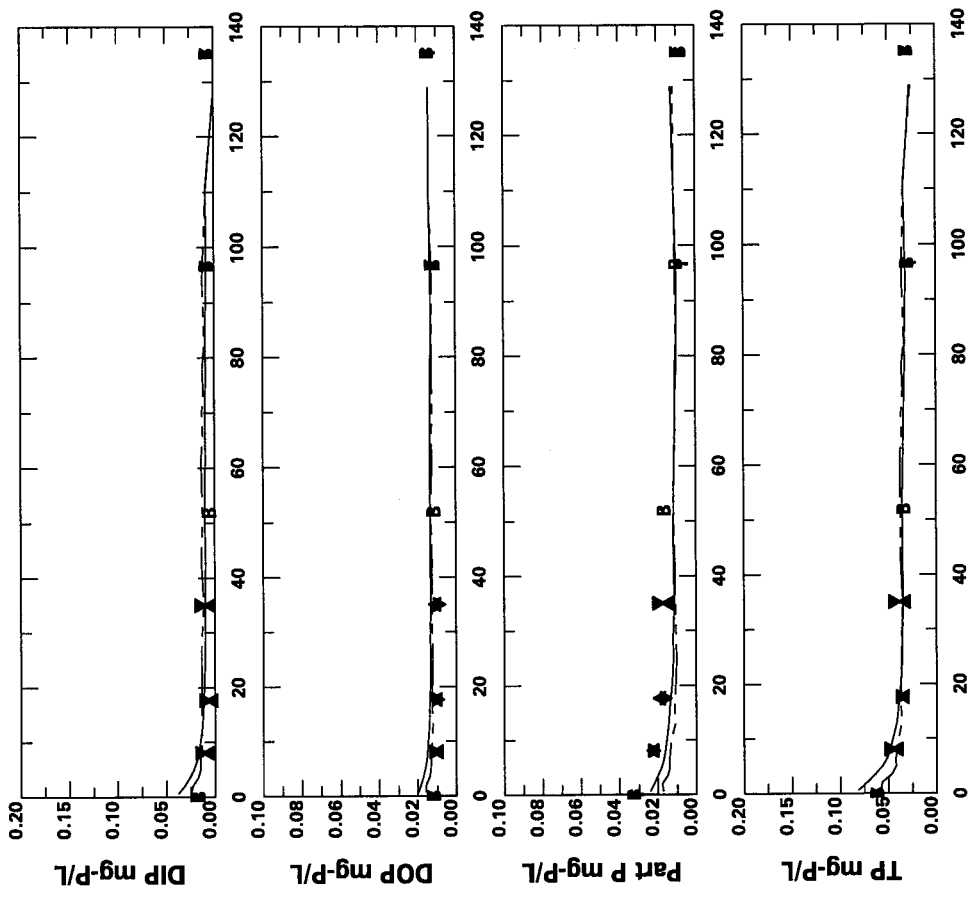
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

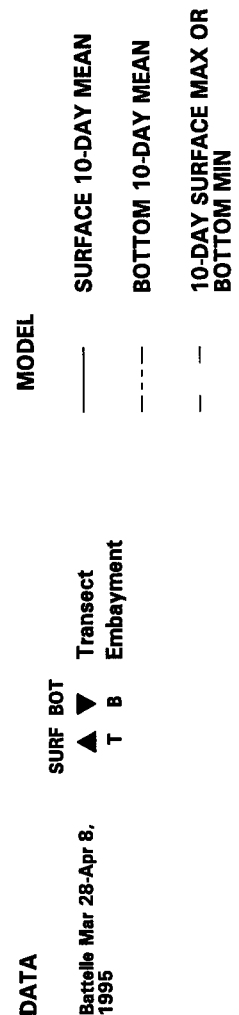
NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



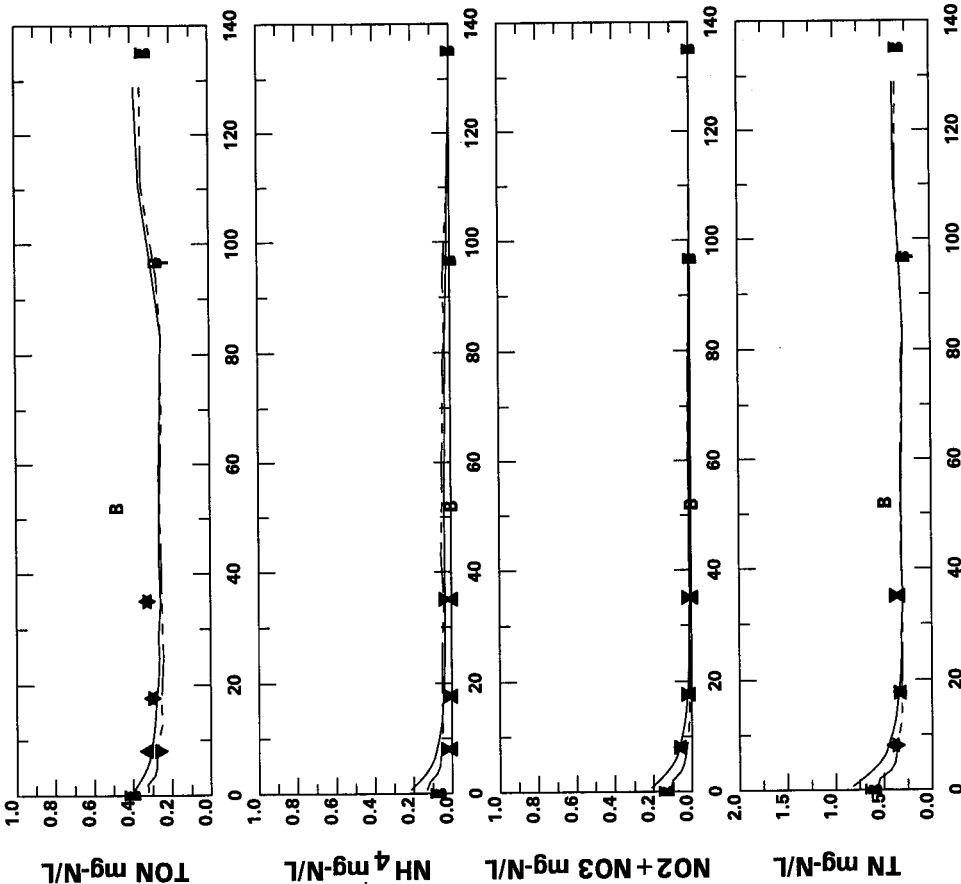
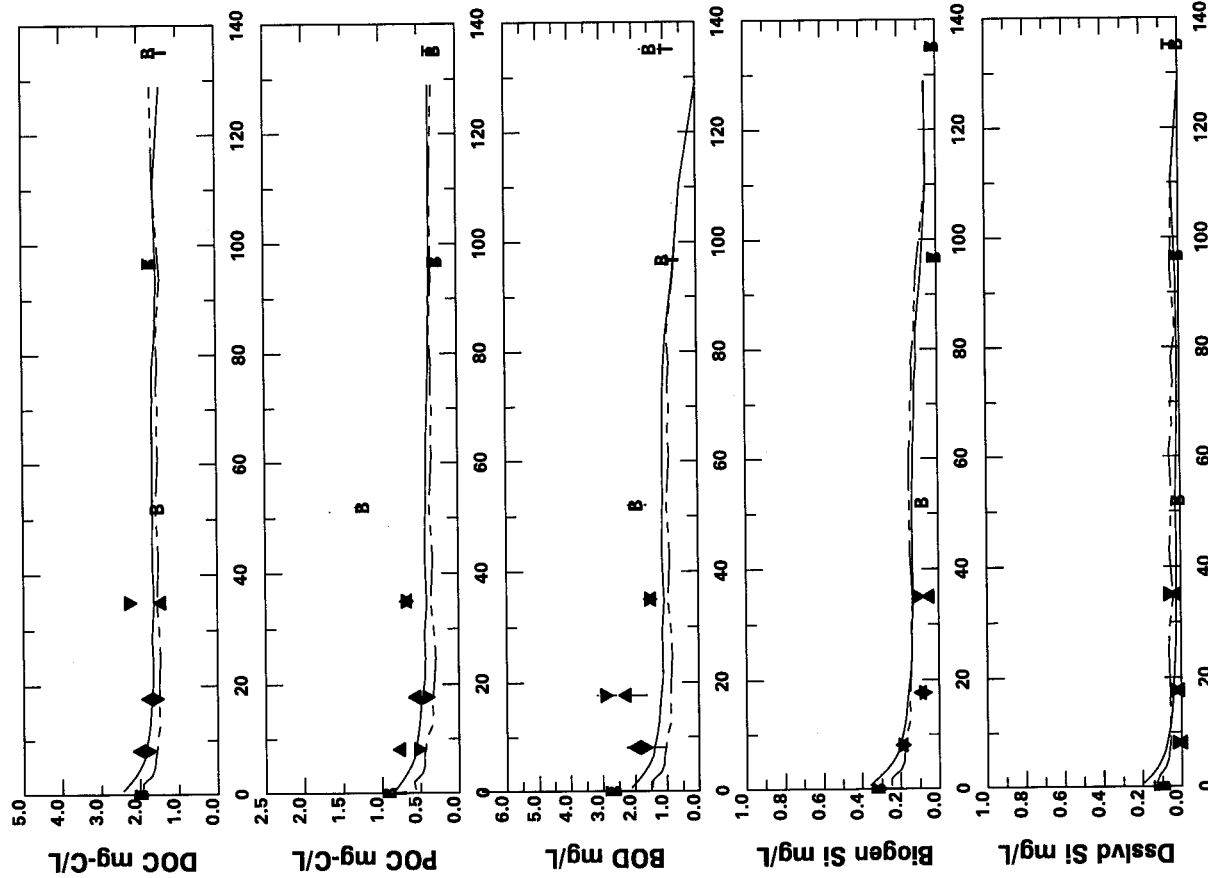
MILE FROM SANDY HOOK-ROCKAWAY TRANSECT



MILE FROM SANDY HOOK-ROCKAWAY TRANSECT



NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8, 1995

SURF BOT
▲ ▼
T B

Transect
Embayment

MODEL

— SURFACE 10-DAY MEAN

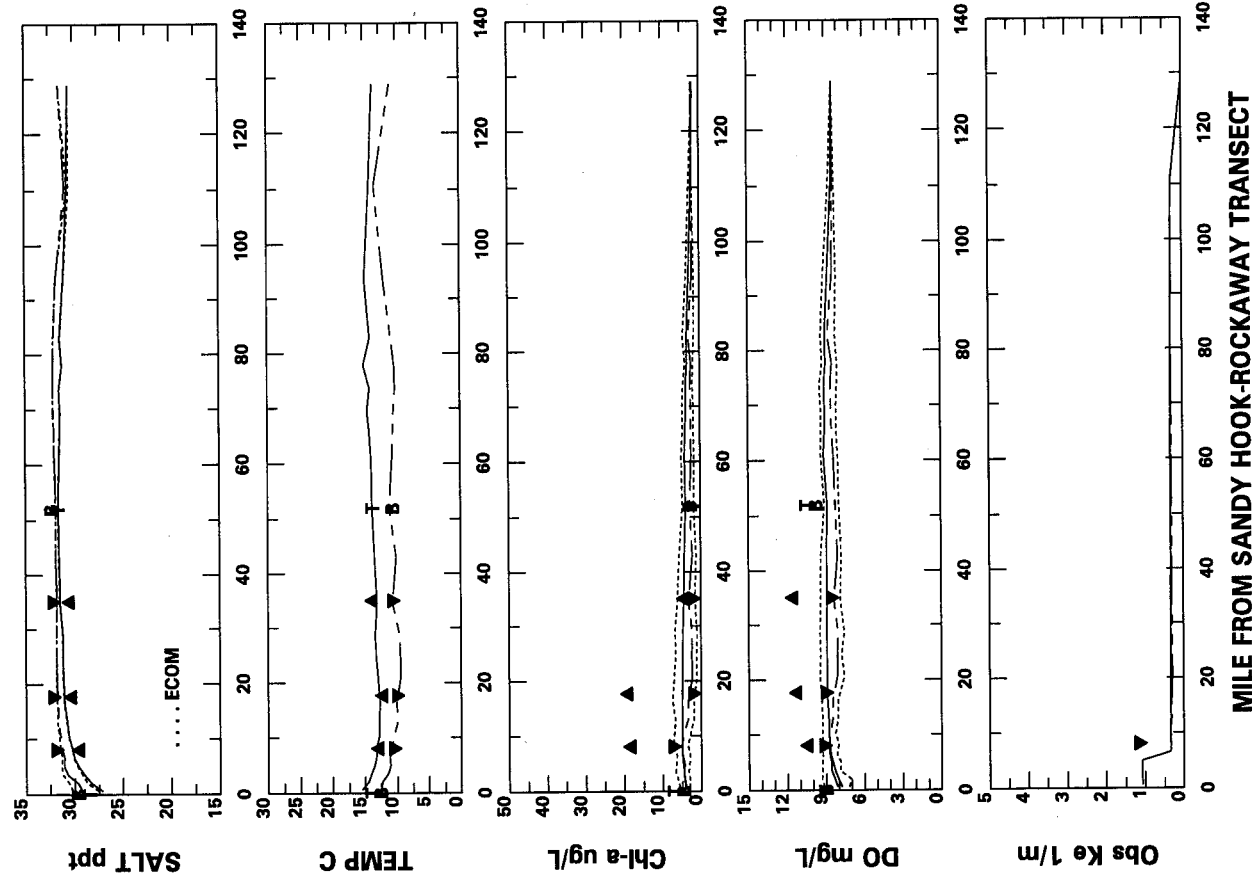
- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

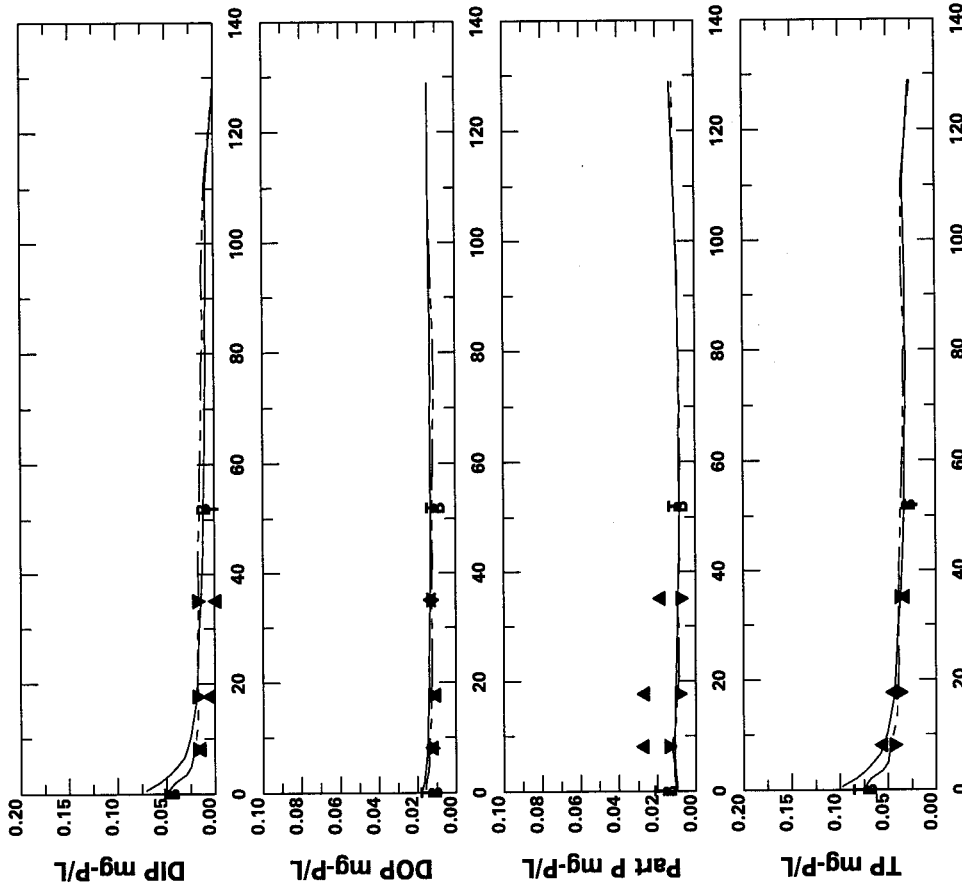
MILE FROM SANDY HOOK-ROCKAWAY TRANSECT

MILE FROM SANDY HOOK-ROCKAWAY TRANSECT

NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3
SWEM REVISED CALIBRATION



MILE FROM SANDY HOOK-ROCKAWAY TRANSECT



MILE FROM SANDY HOOK-ROCKAWAY TRANSECT

DATA

SURF BOT

Battelle May 20-26, 1995

Transect
T B Embayment

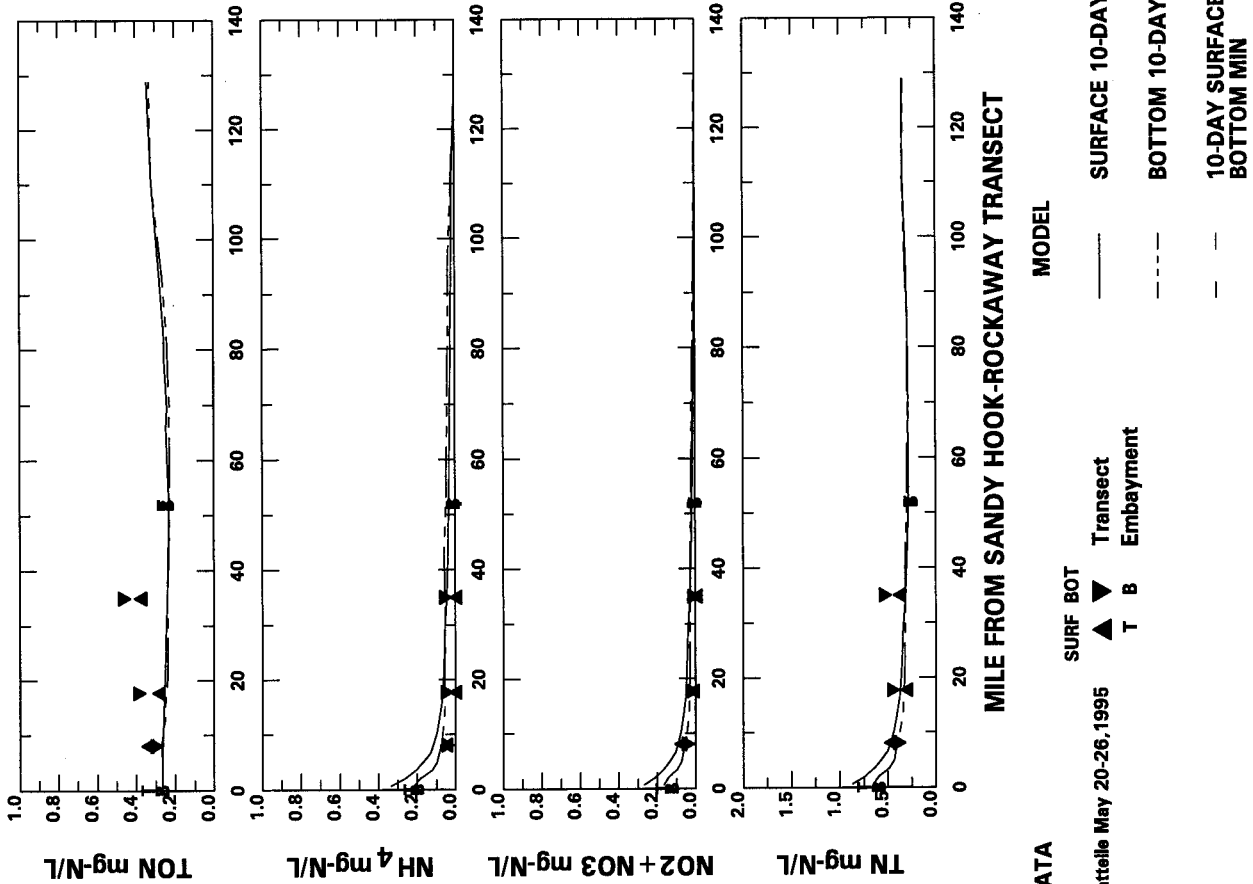
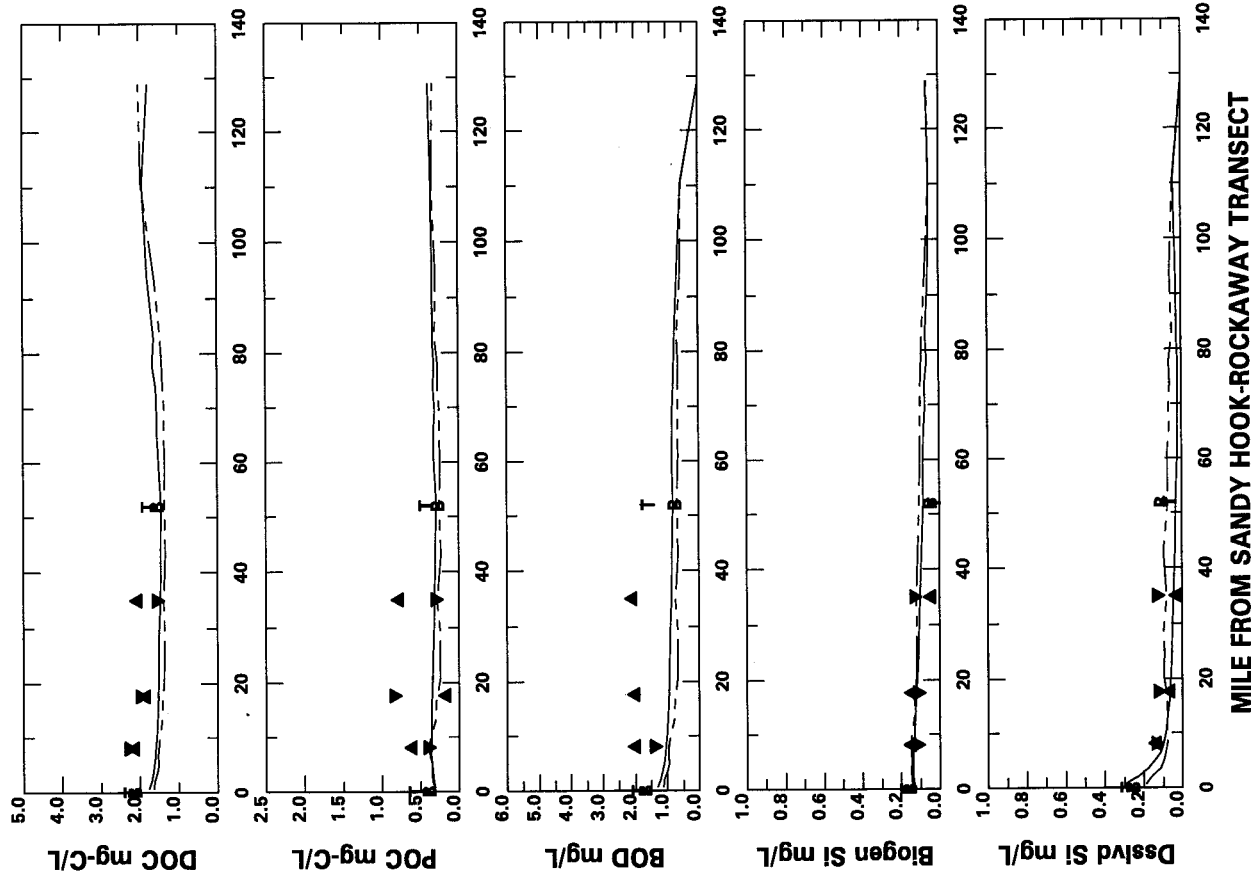
MODEL

SURFACE 10-DAY MEAN

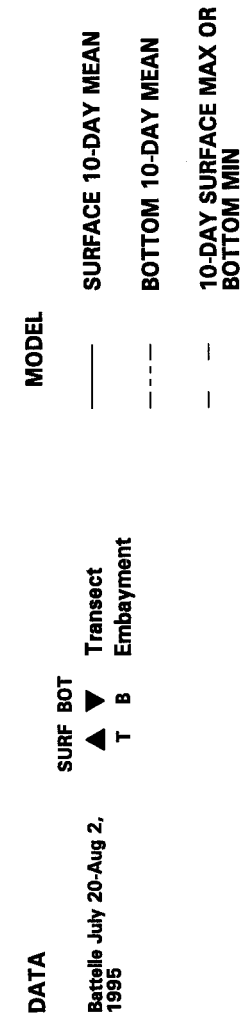
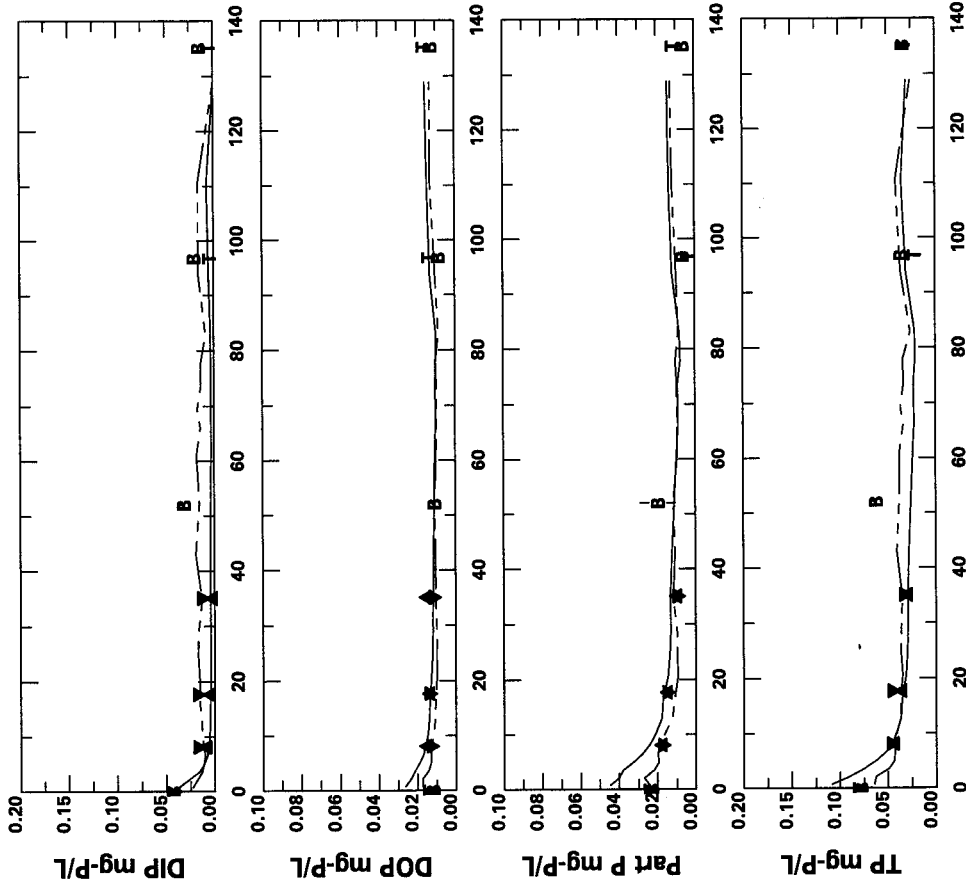
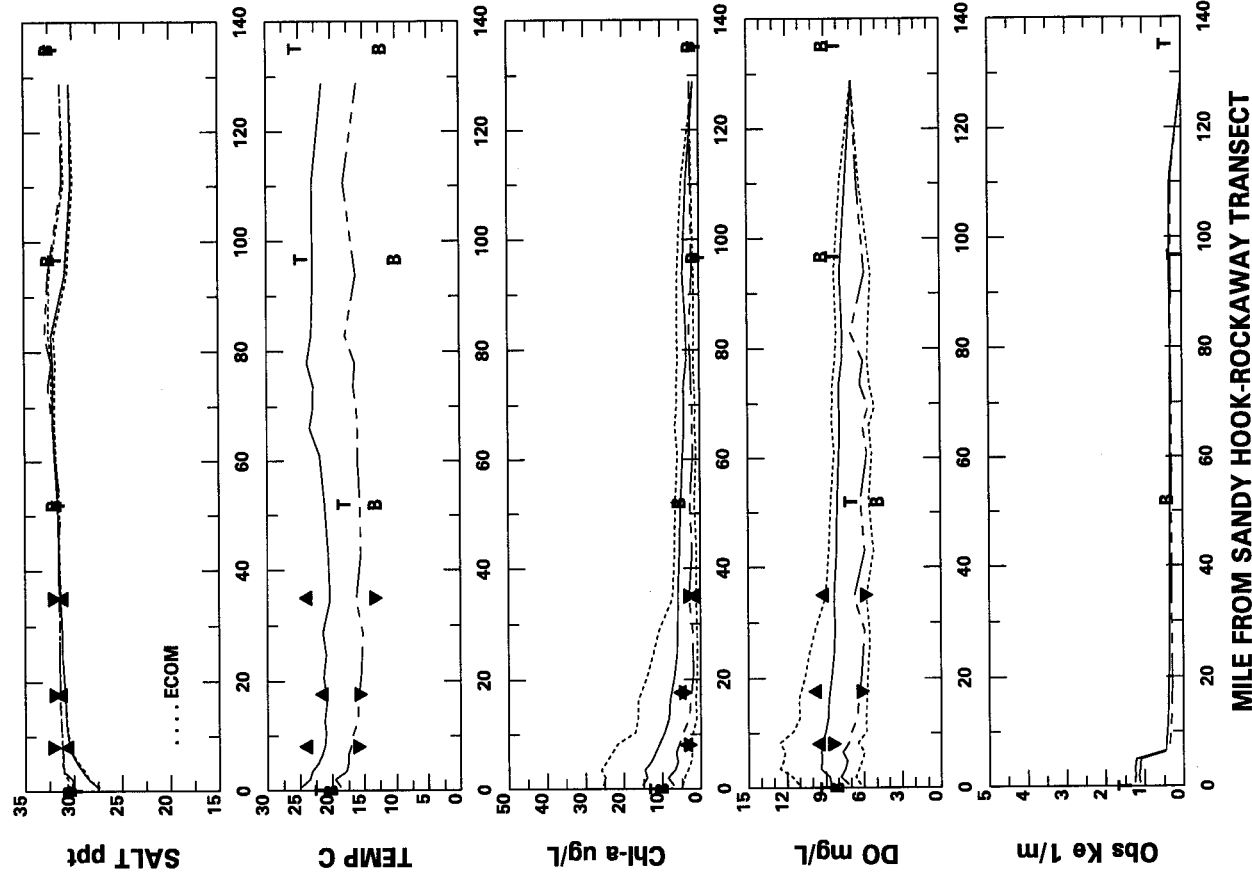
BOTTOM 10-DAY MEAN

10-DAY SURFACE MAX OR
BOTTOM MIN

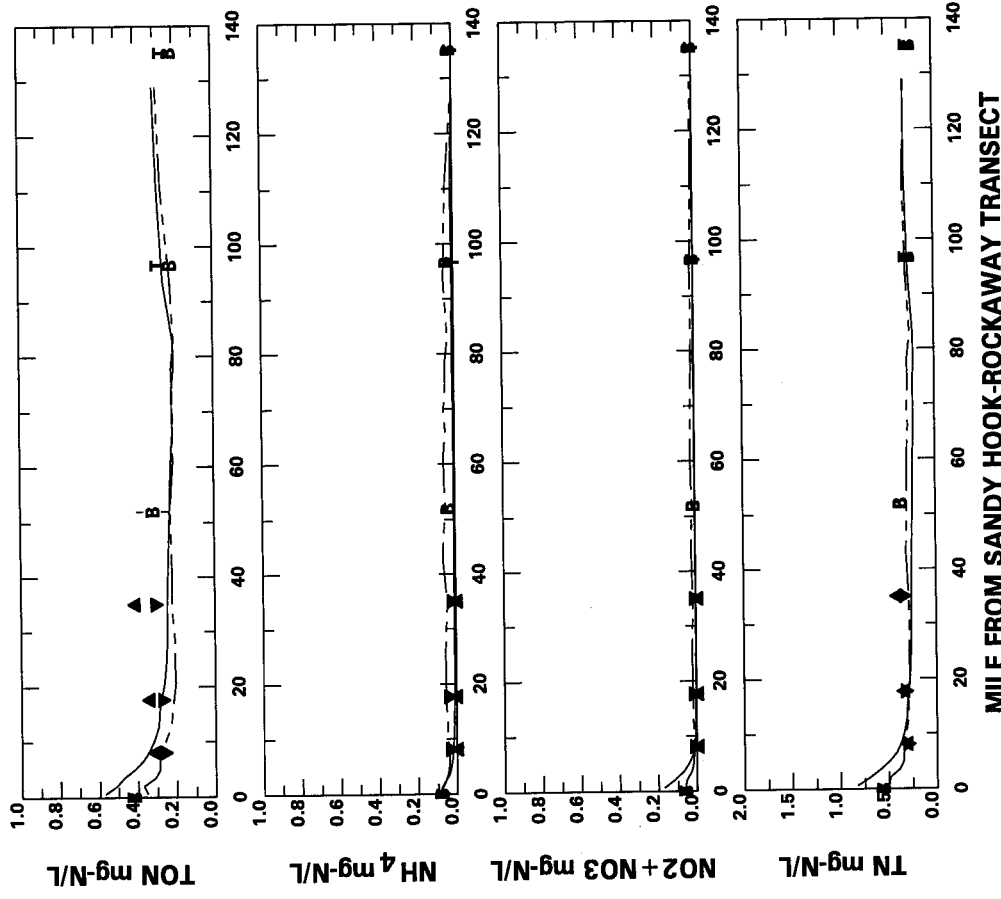
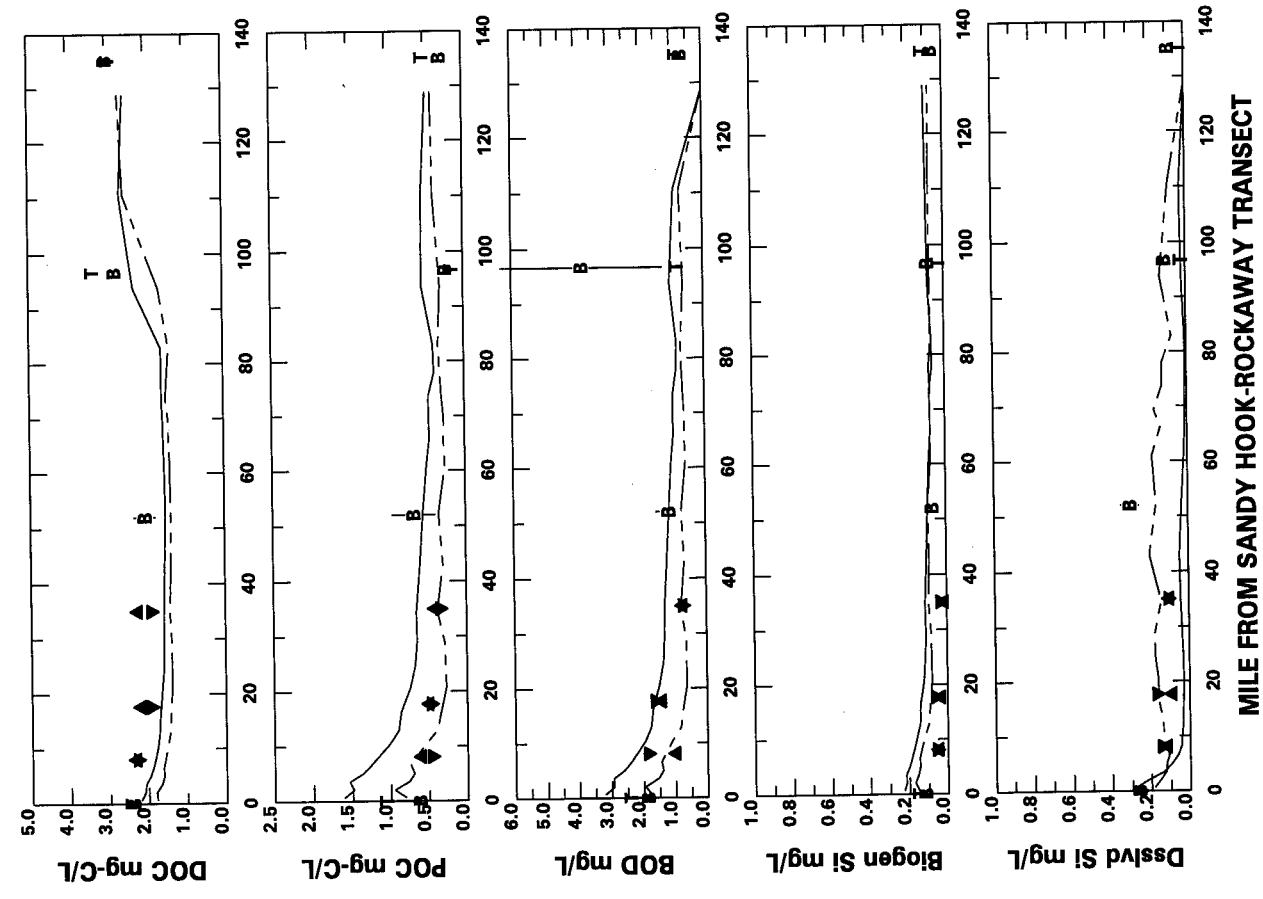
NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

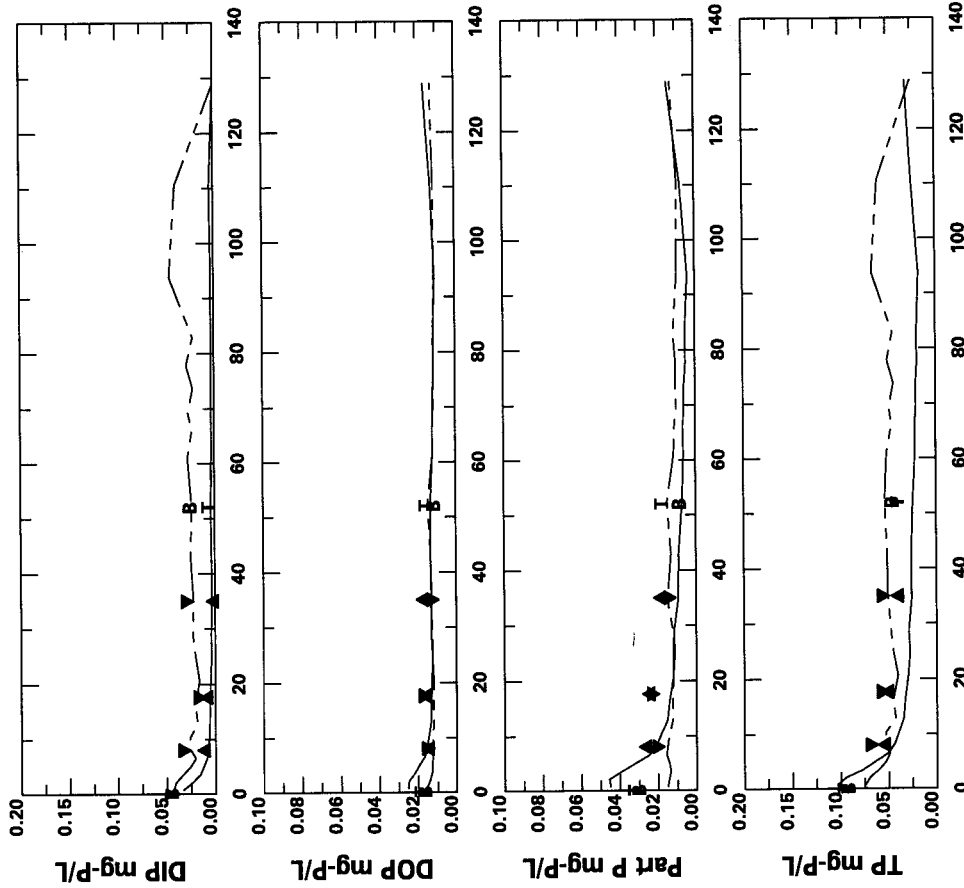
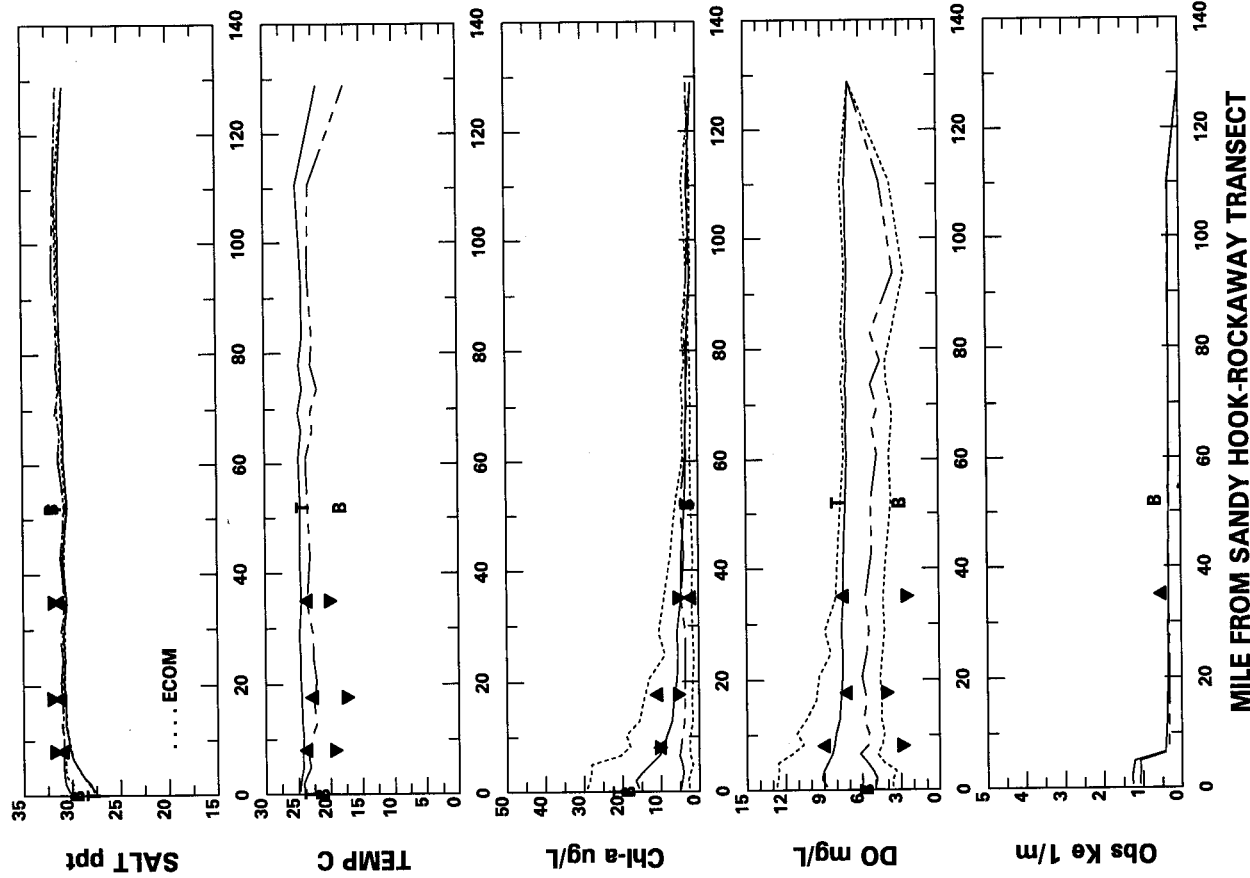
Battelle July 20-Aug 2, 1995

▲ T
▼ B

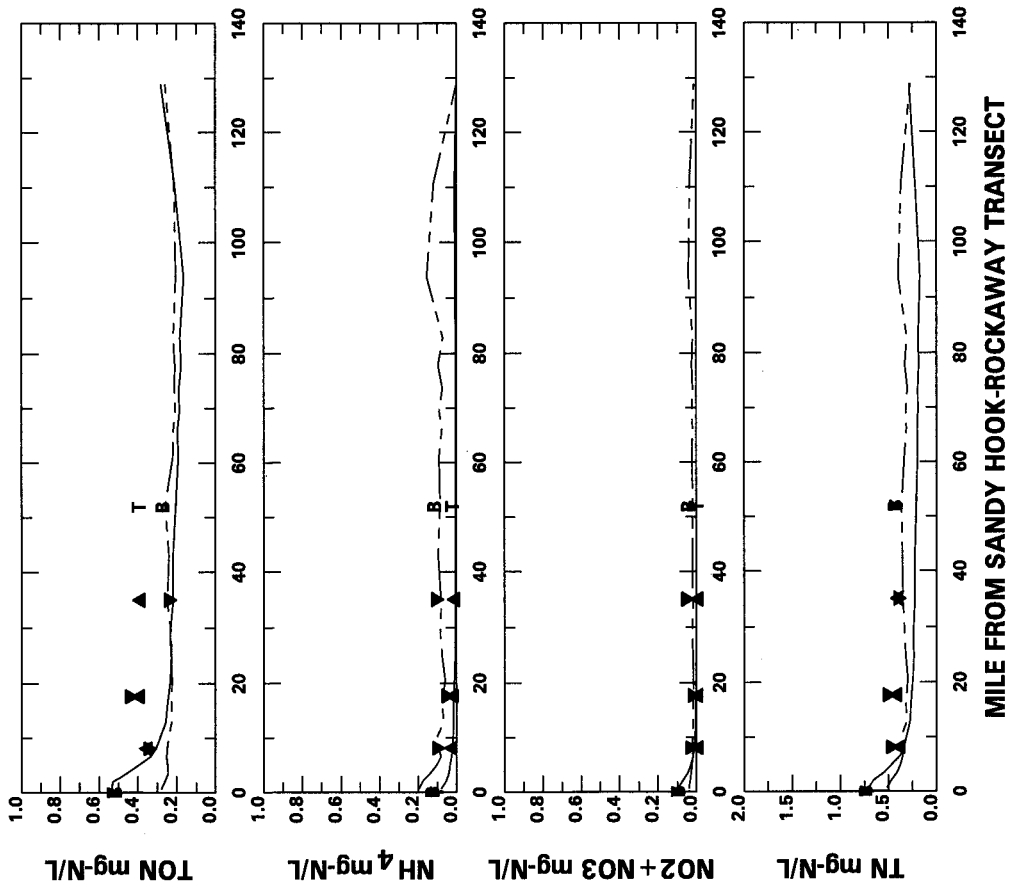
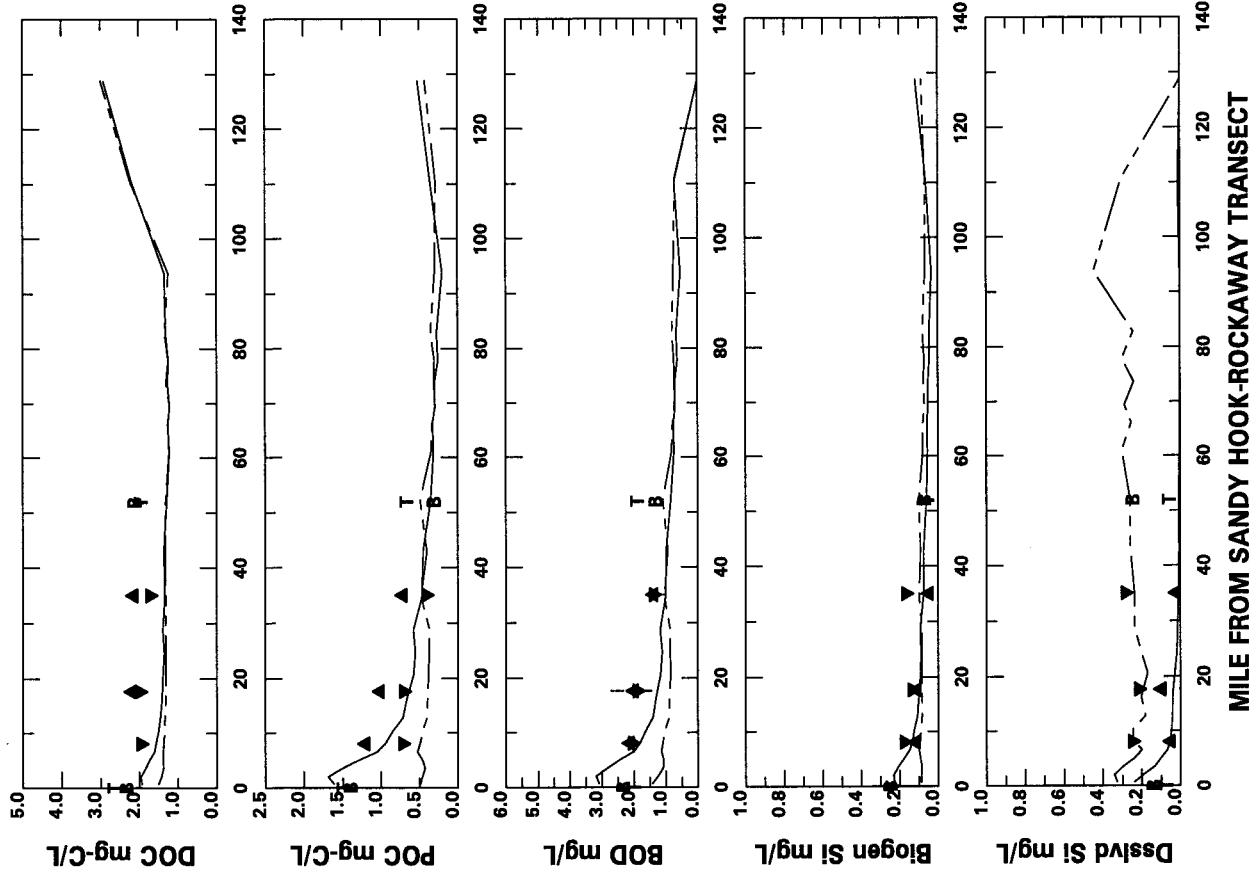
MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3
SWEM REVISED CALIBRATION



NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Aug 20-29, 1995

SURF BOT

▲ T

▼ B

MODEL

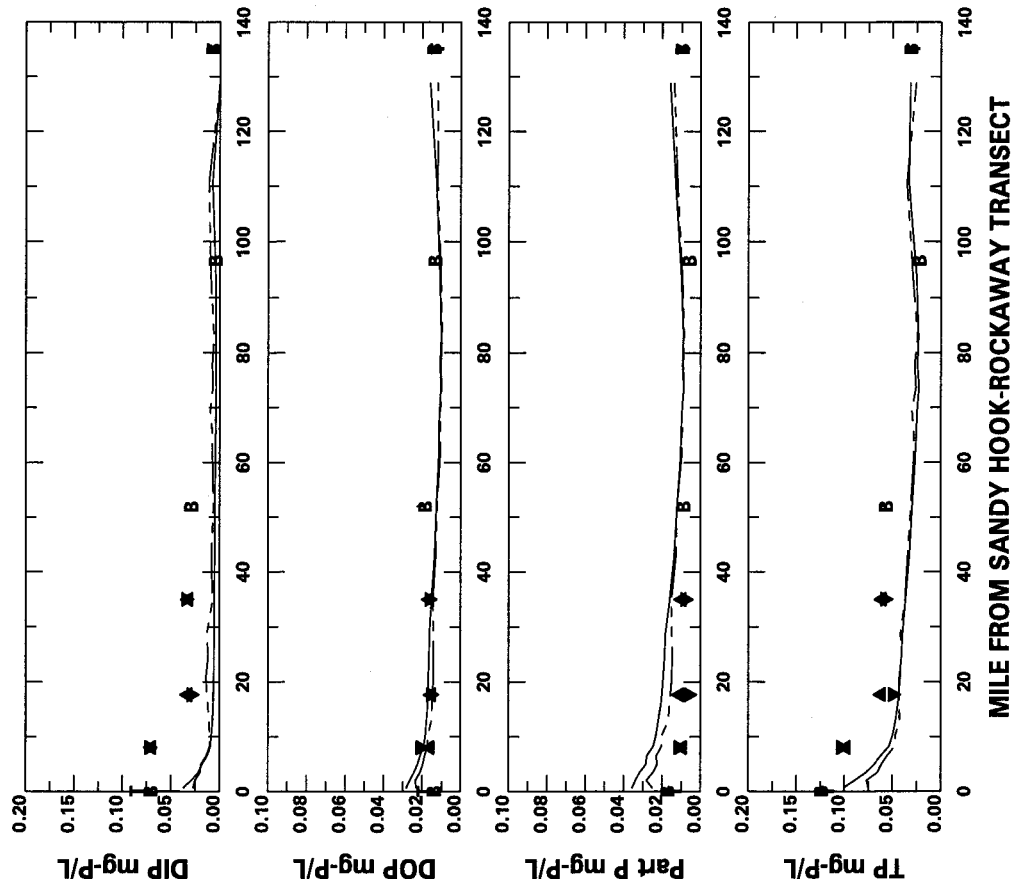
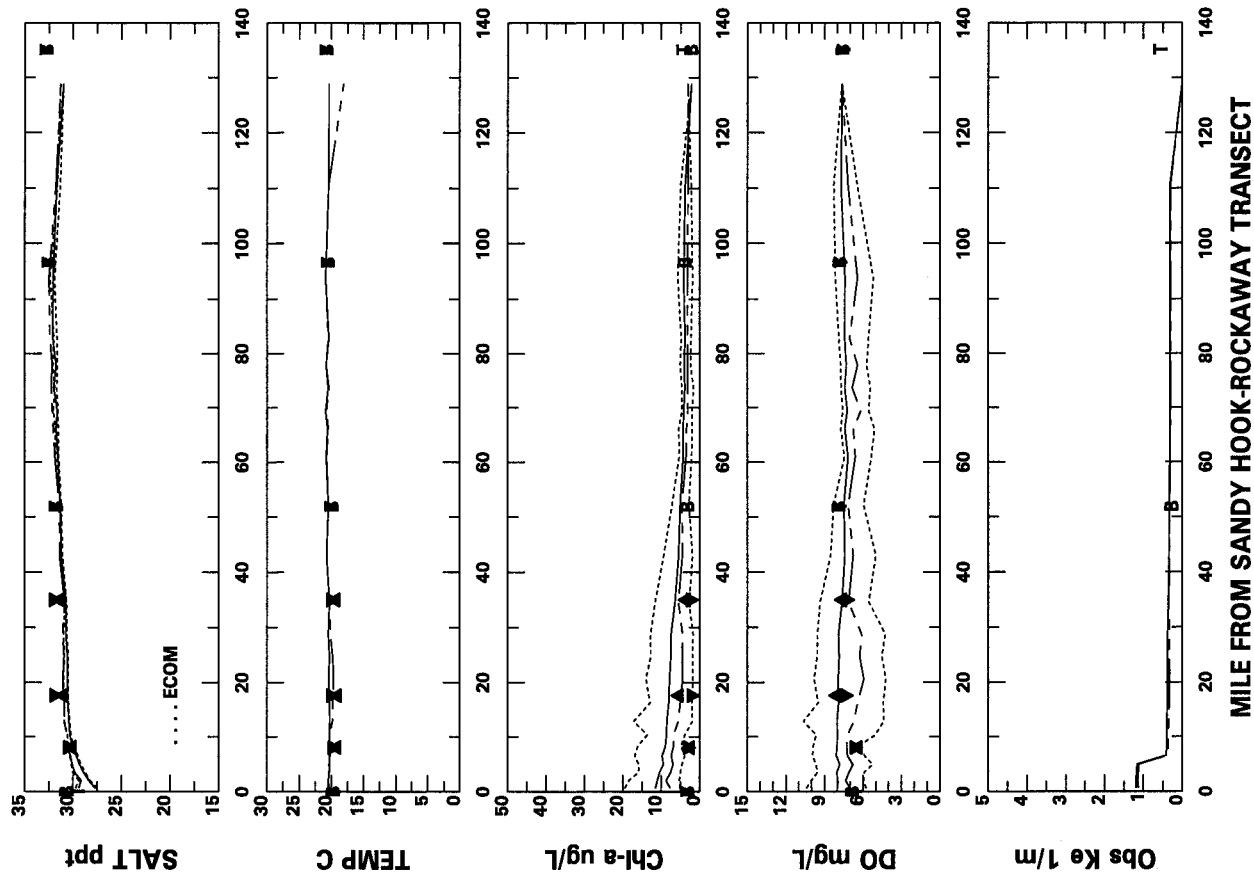
— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3

SWEM REVISED CALIBRATION



DATA

Battelle Sep 23-Oct 2,
1995

SURF BOT
▲ ▼
T B

Transect
Embayment

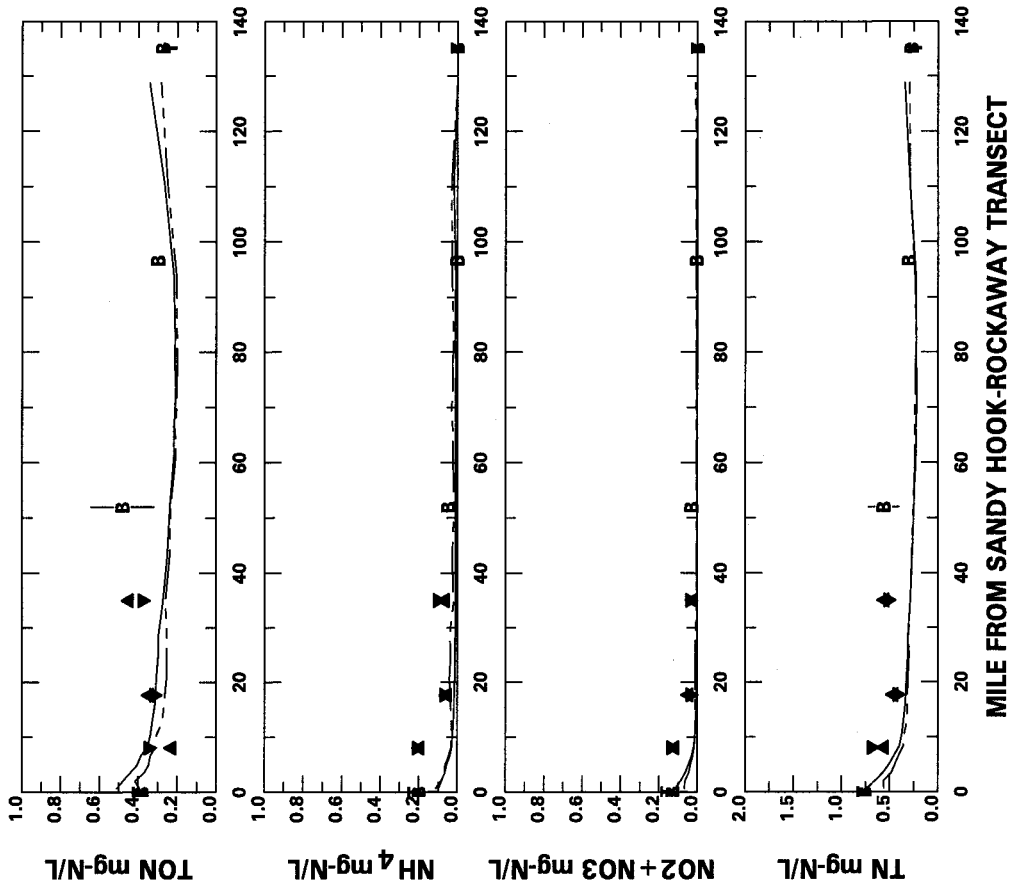
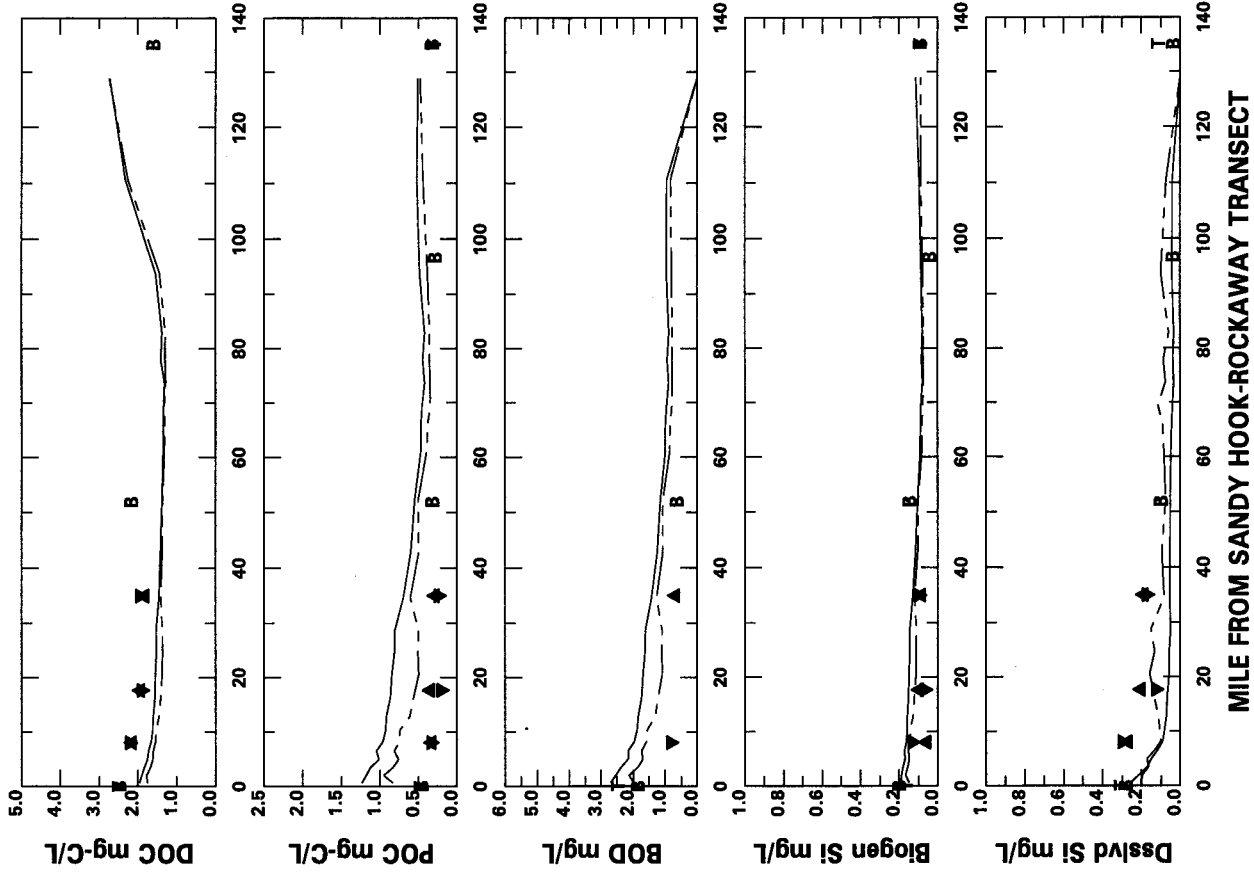
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- . - . 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Sep 23-Oct 2, 1995

SURF BOT

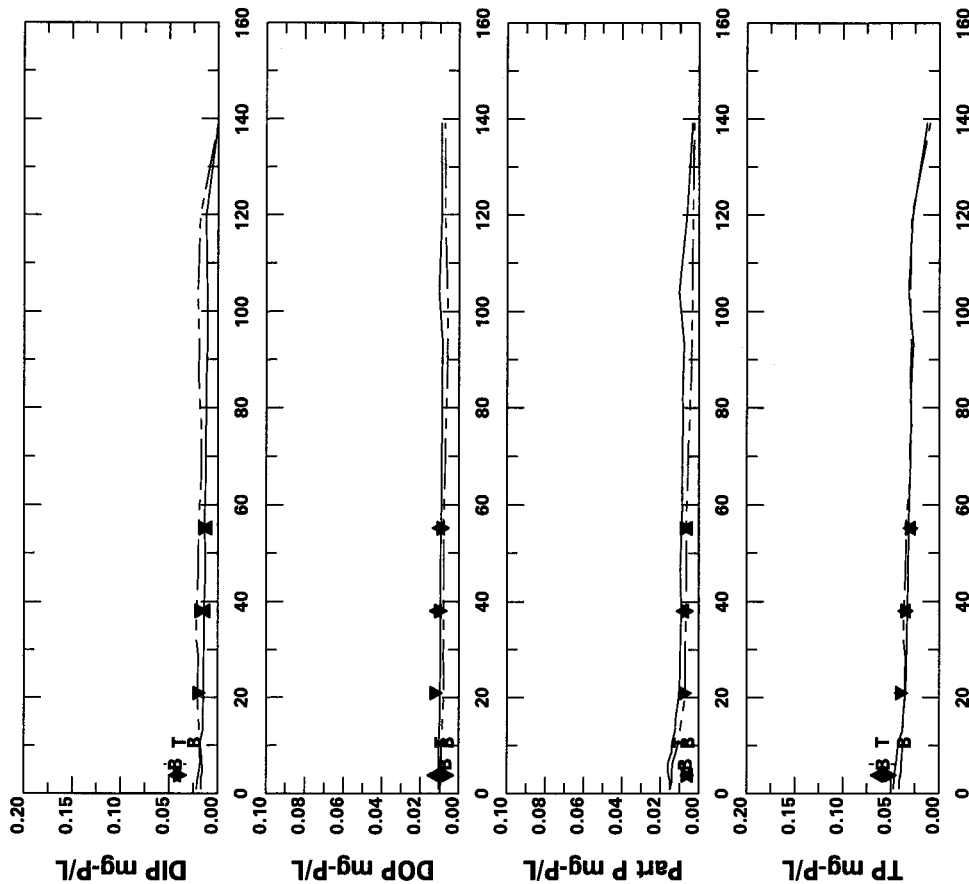
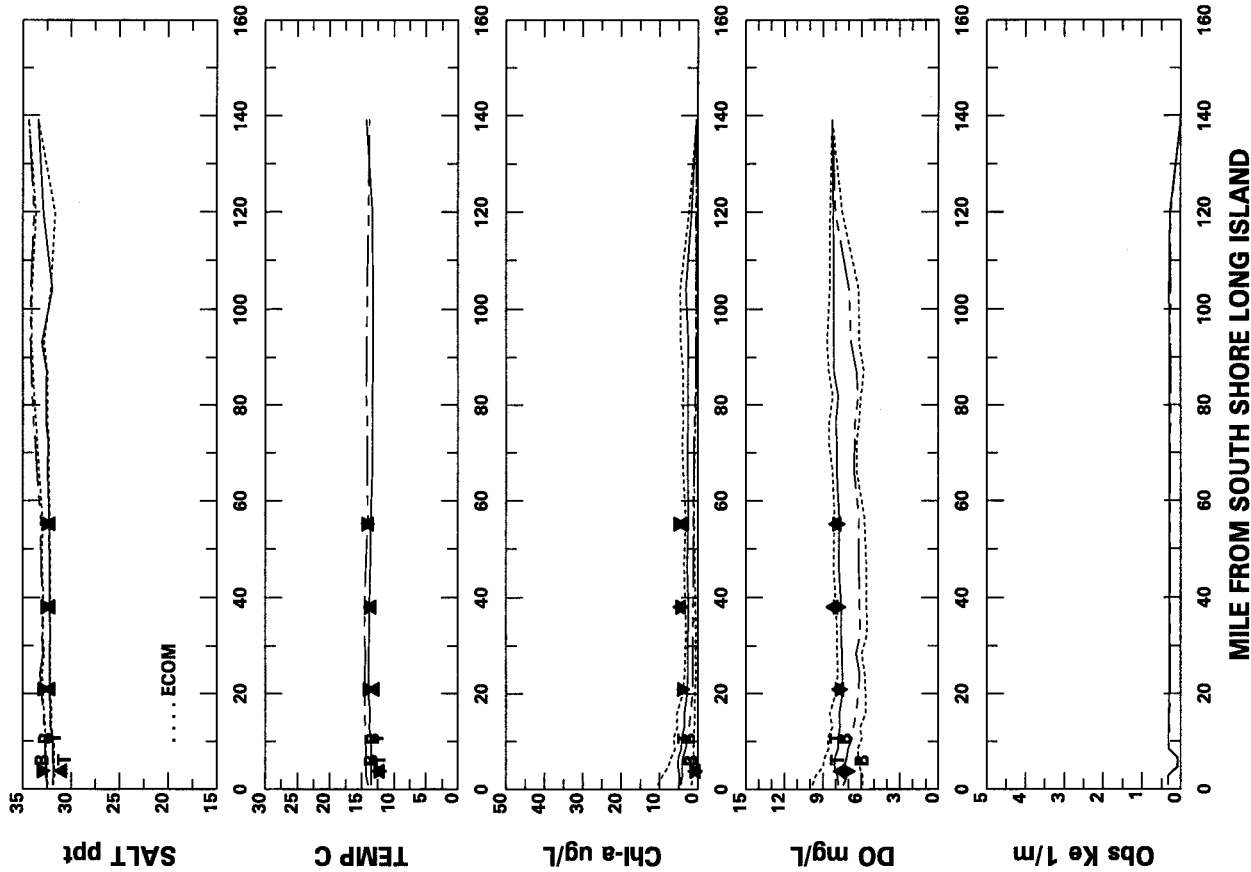
▲ ▼ Transect
T B Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 1 RUN 9495-BC3
SWEM REVISED CALIBRATION

**SPATIAL DISTRIBUTIONS OF
N.Y. BIGHT
NORTH-SOUTH TRANSECT 2**



DATA

Battelle Nov 12-17, 1994

SURF BOT

▲ Transect
▼ Embayment

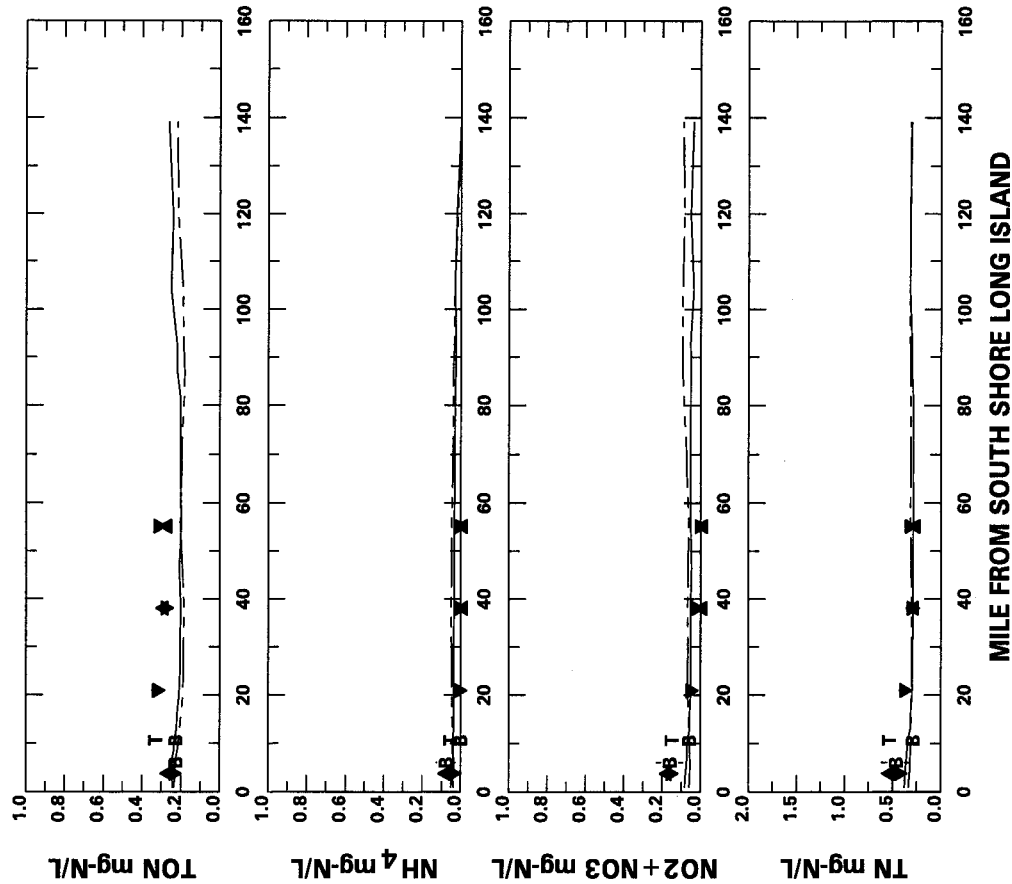
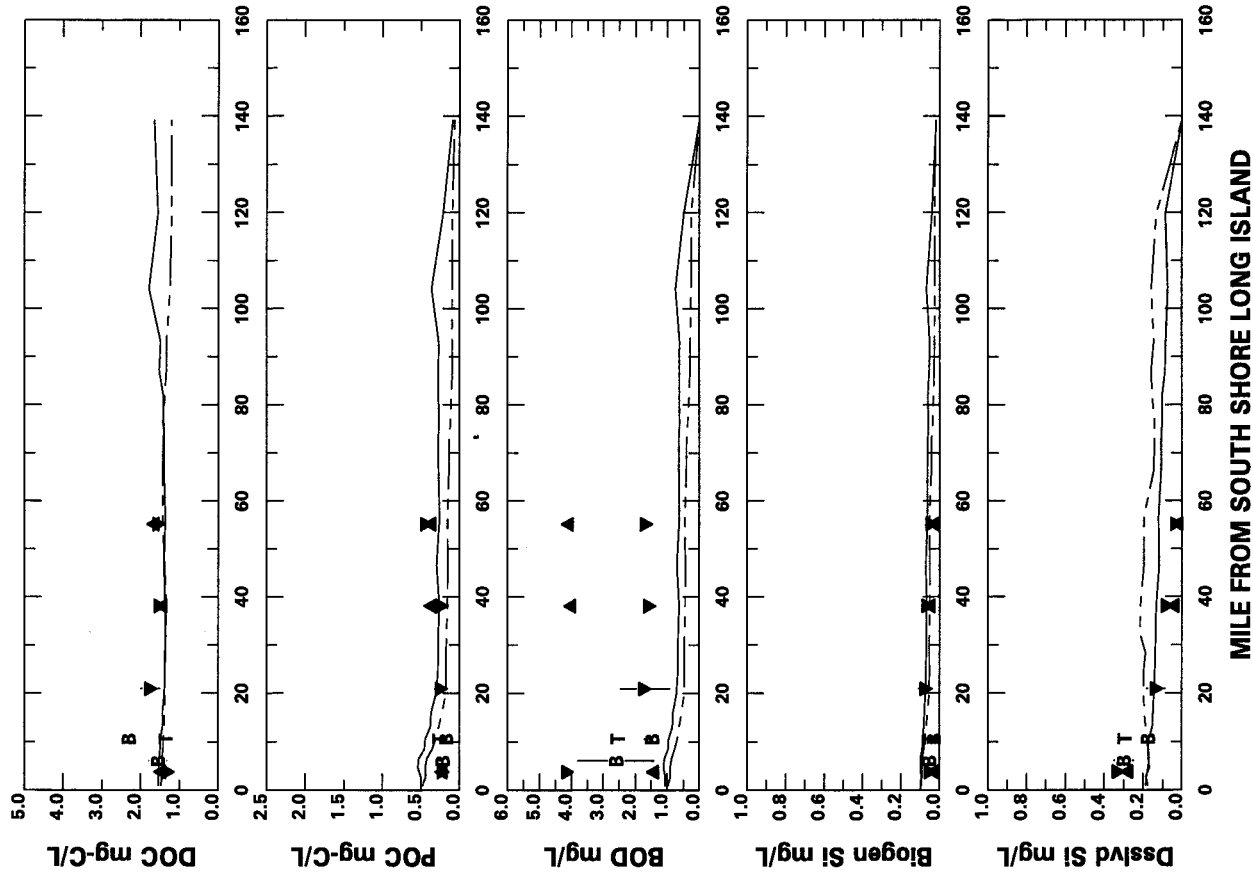
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Nov 12-17, 1994

SURF BOT

▲ Transect
▼ Embayment

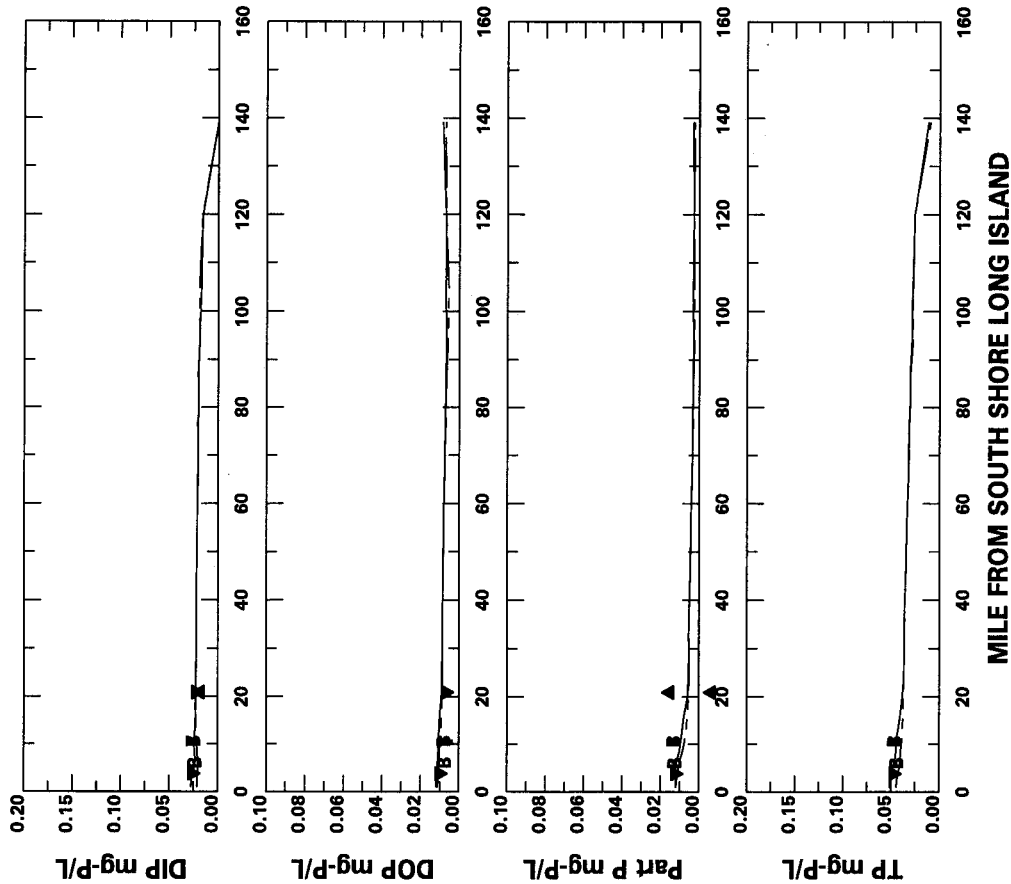
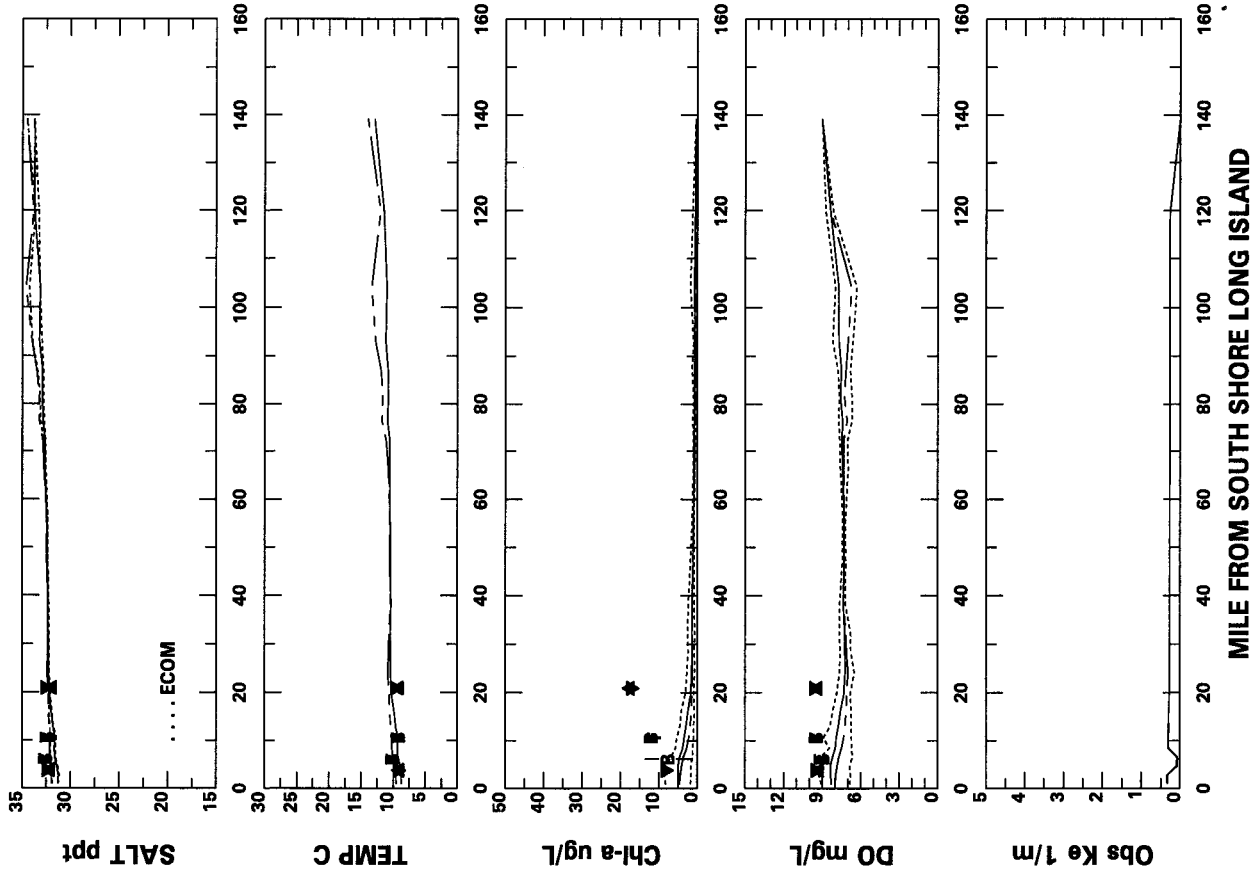
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

— 10-DAY SURFACE MAX OR
— 10-DAY SURFACE MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Dec 10-16, 1994

SURF BOT

▲ T
▼ B

Transect
Embayment

MODEL

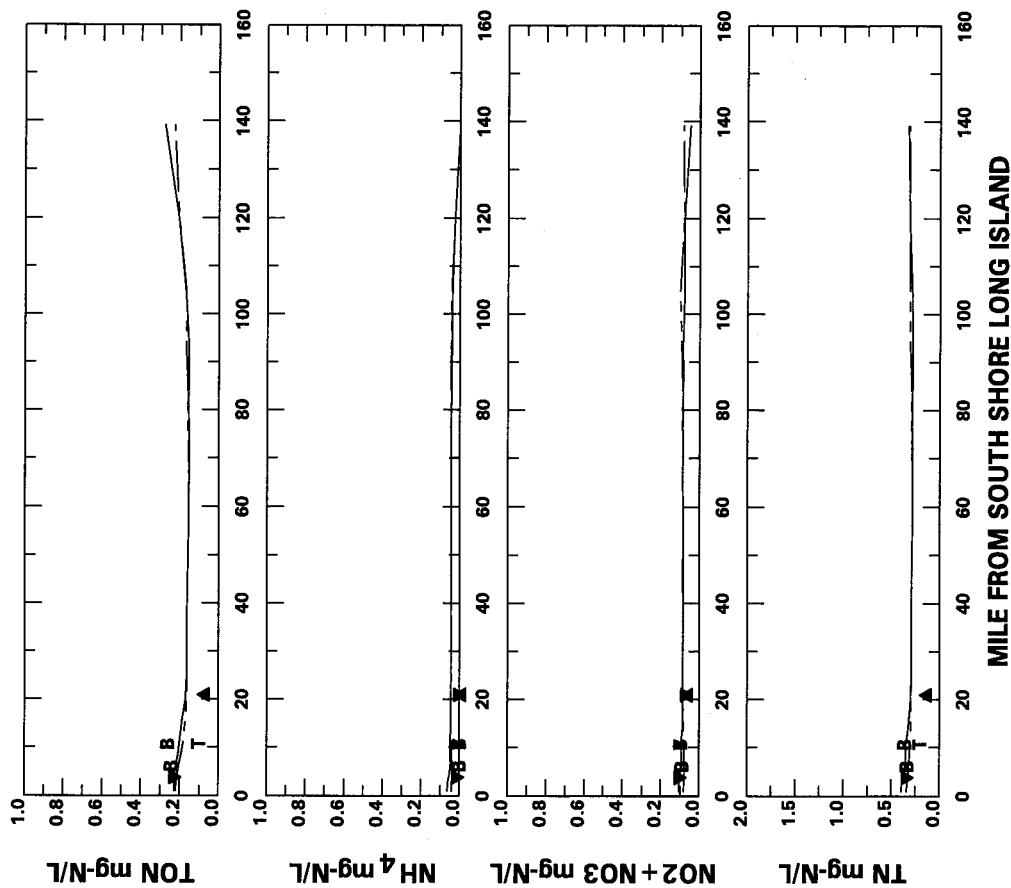
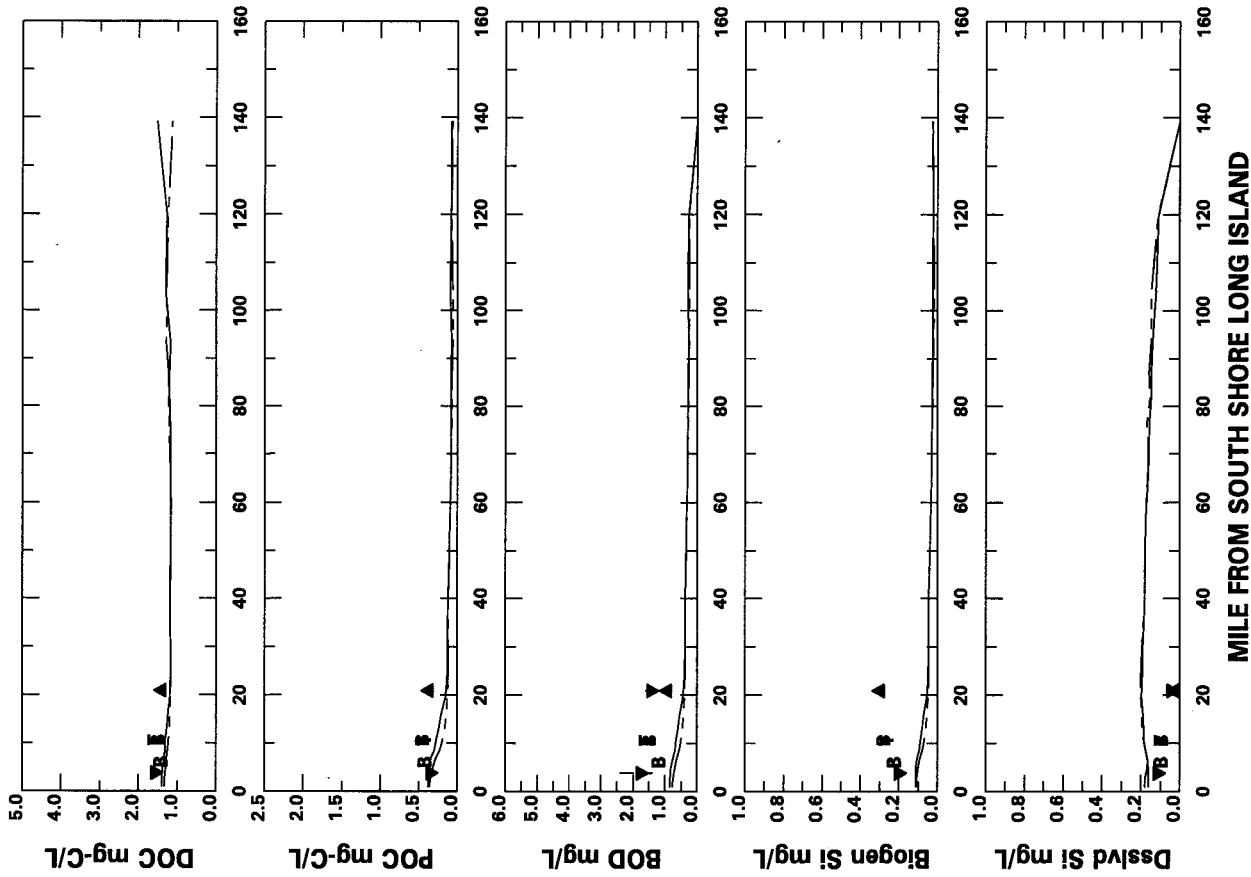
— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

DATE: Wed Apr 28 TIME: 15:09:37

**NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3
SWEM REVISED CALIBRATION**



DATA

Battelle Dec 10-16, 1994

SURF BOT

▲ ▼ Transect
T B Embayment

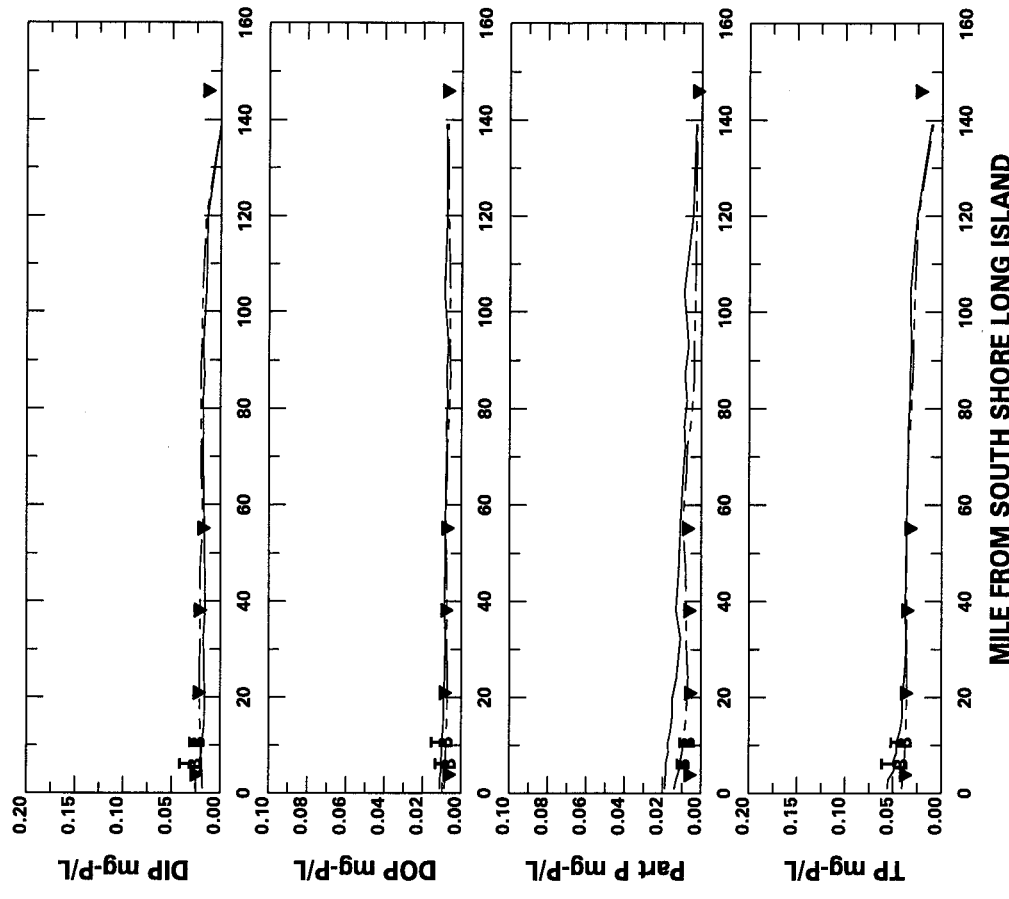
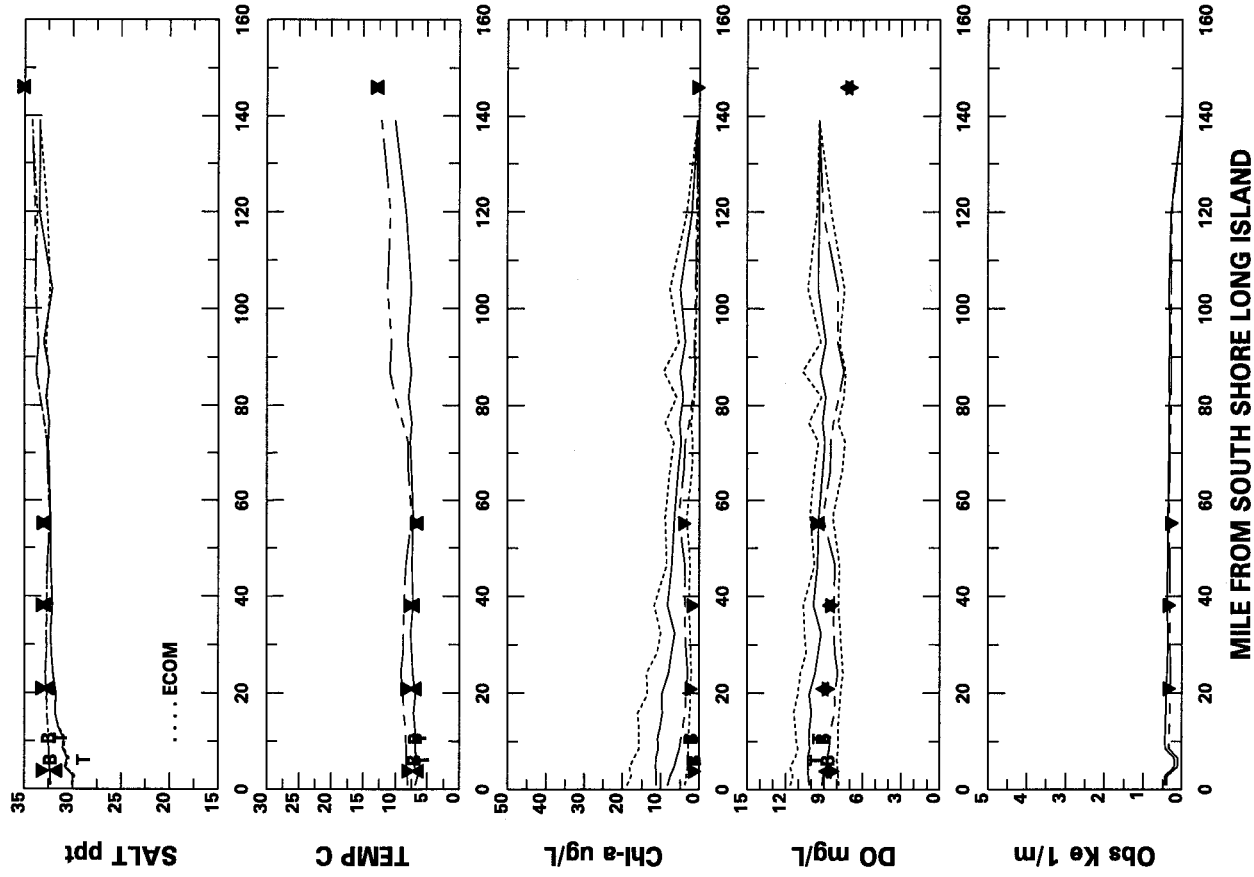
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

**NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3
SWEM REVISED CALIBRATION**



DATA

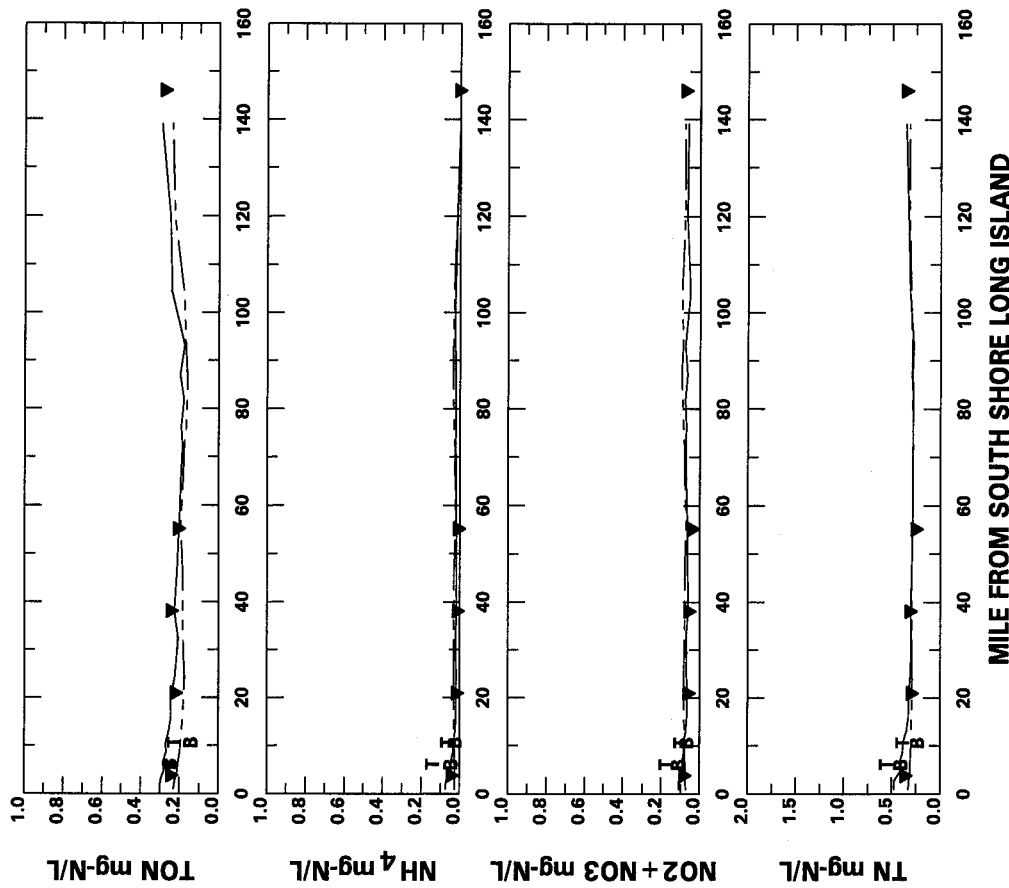
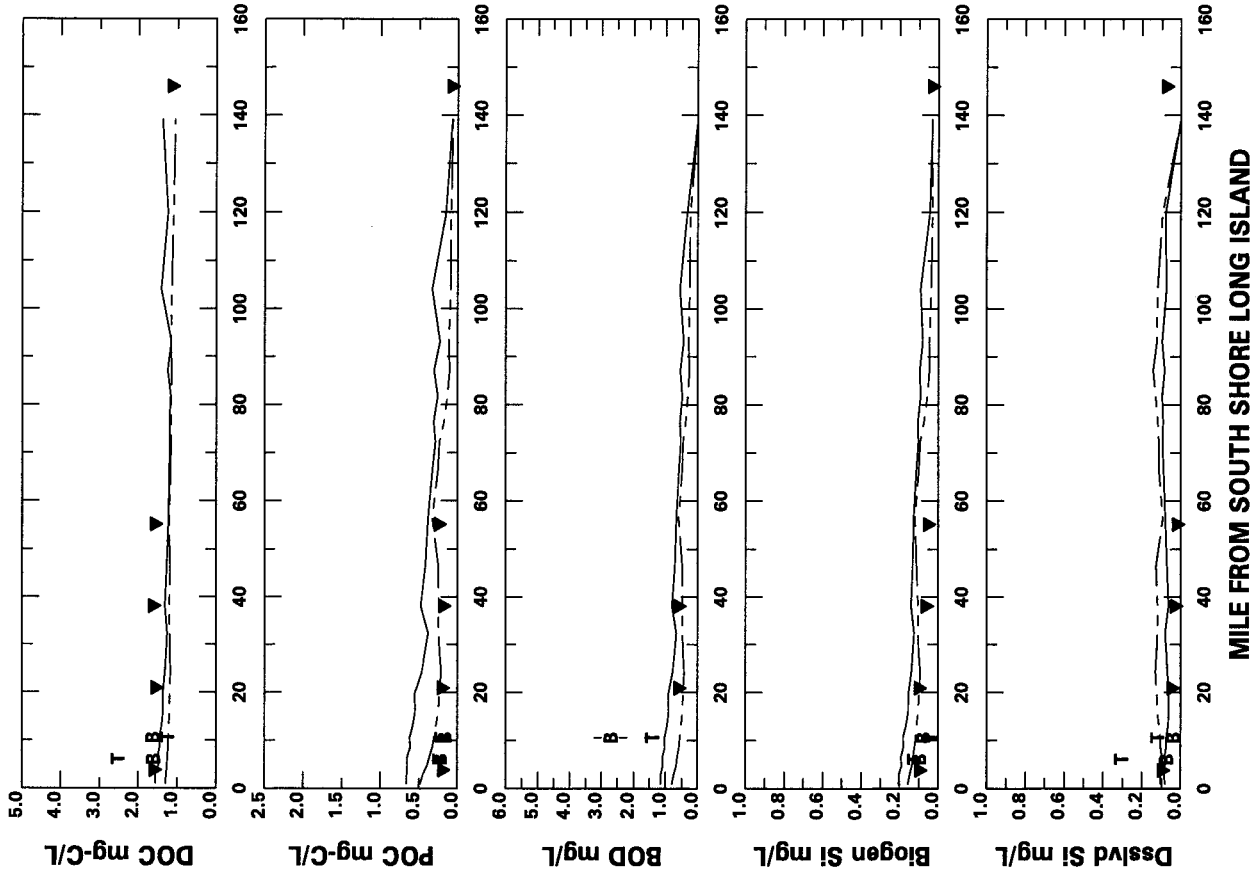
Battelle Jan 23-31, 1995

SURF BOT

▲ ▼ Transect
T B Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN



DATA

Battelle Jan 23-31, 1995

SURF BOT

▲ ▼

T B

Transect Embayment

MODEL

—

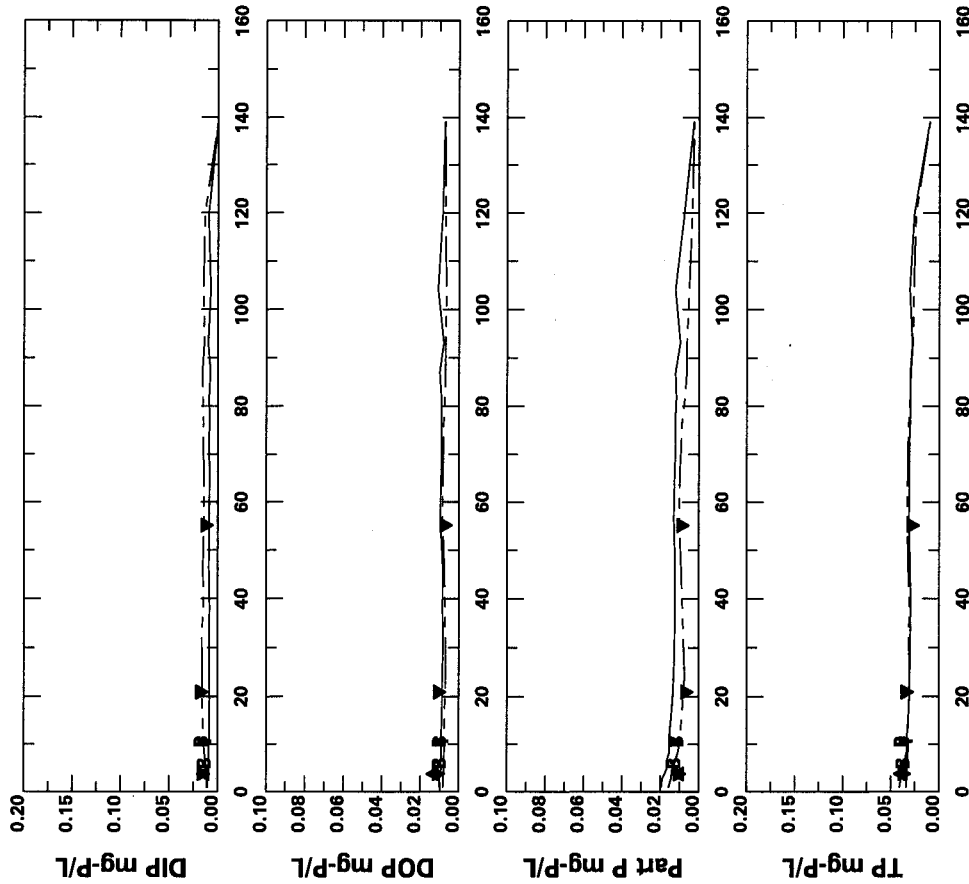
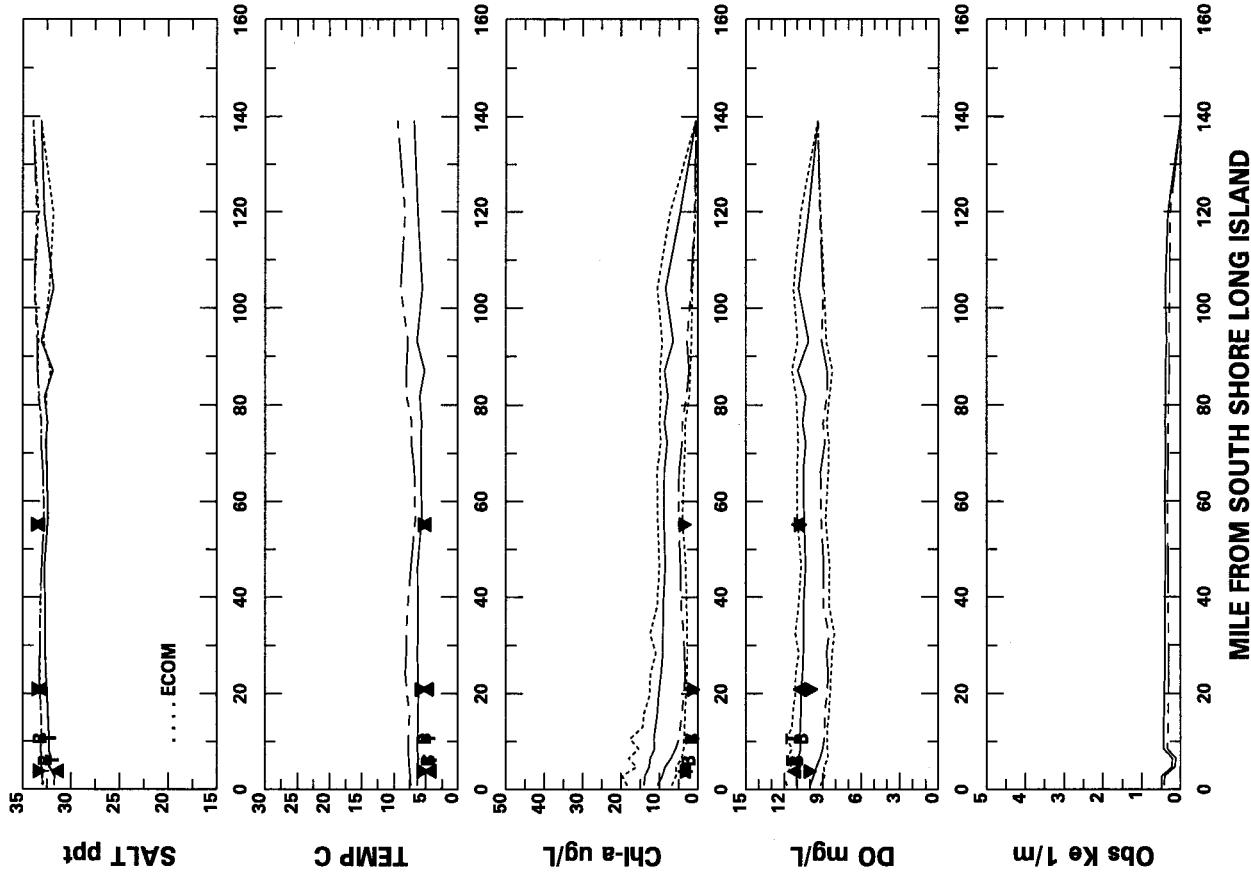
SURFACE 10-DAY MEAN

- - -

BOTTOM 10-DAY MEAN

- - -

10-DAY SURFACE MAX OR BOTTOM MIN



DATA

Battelle Feb 22-Mar 1,
1995

SURF BOT

▲ T
▼ B

Transect
Embayment

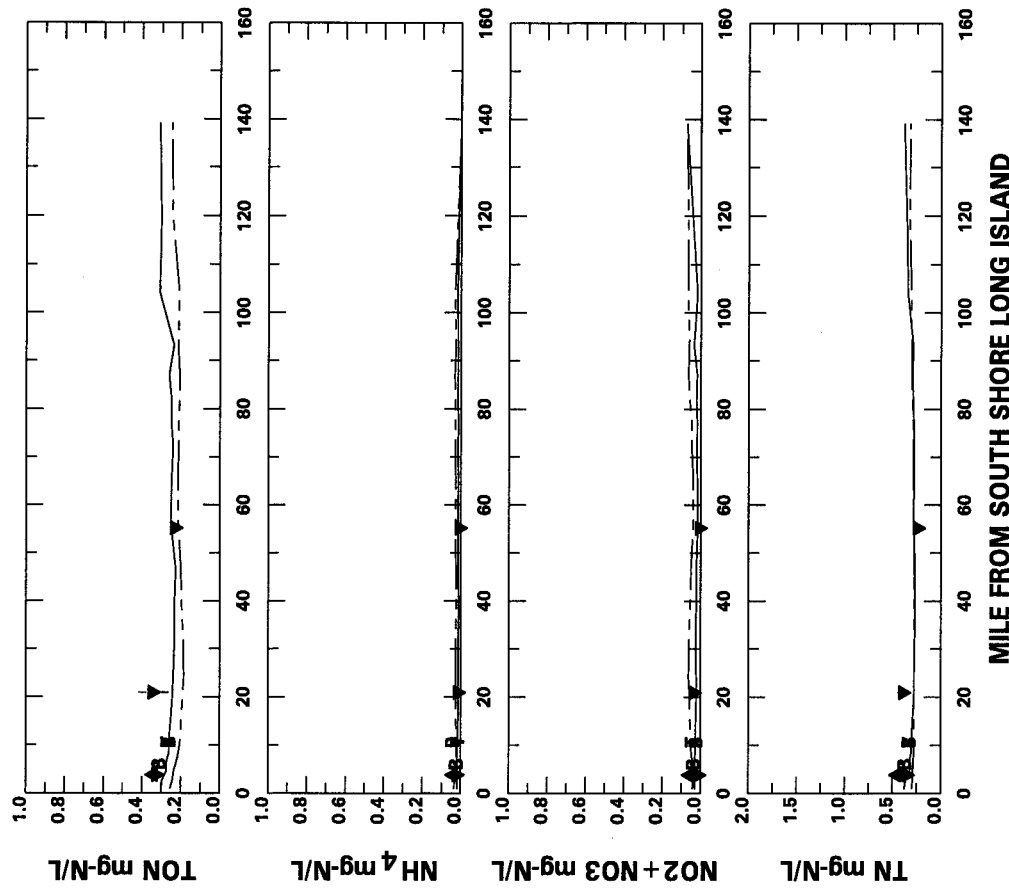
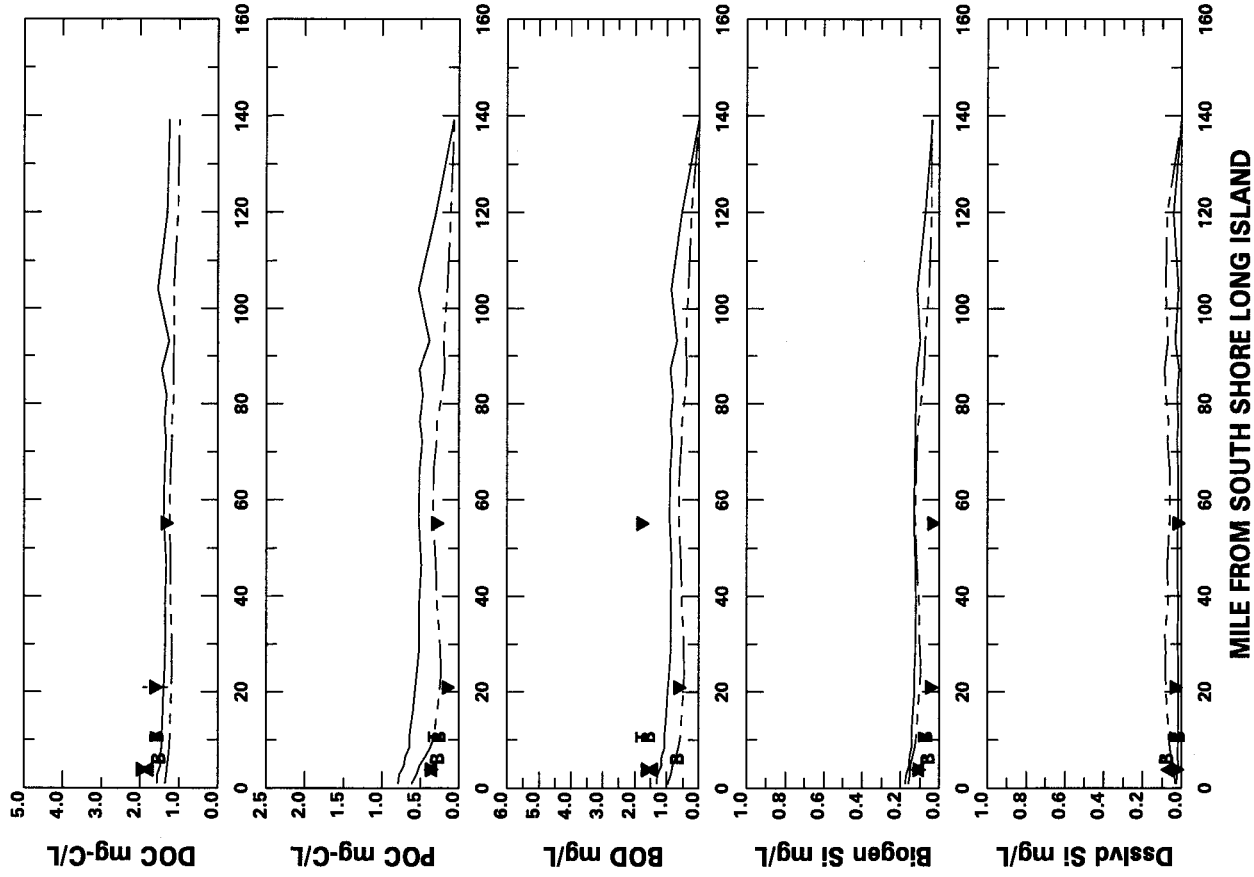
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Feb 22-Mar 1, 1995

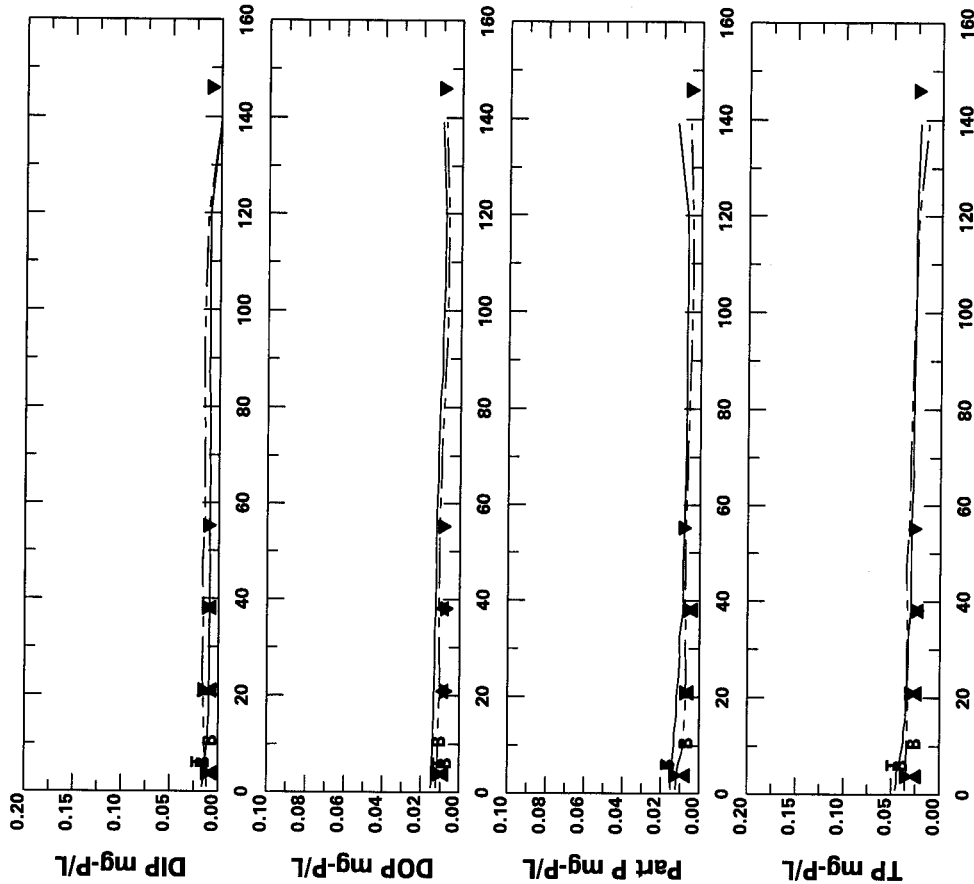
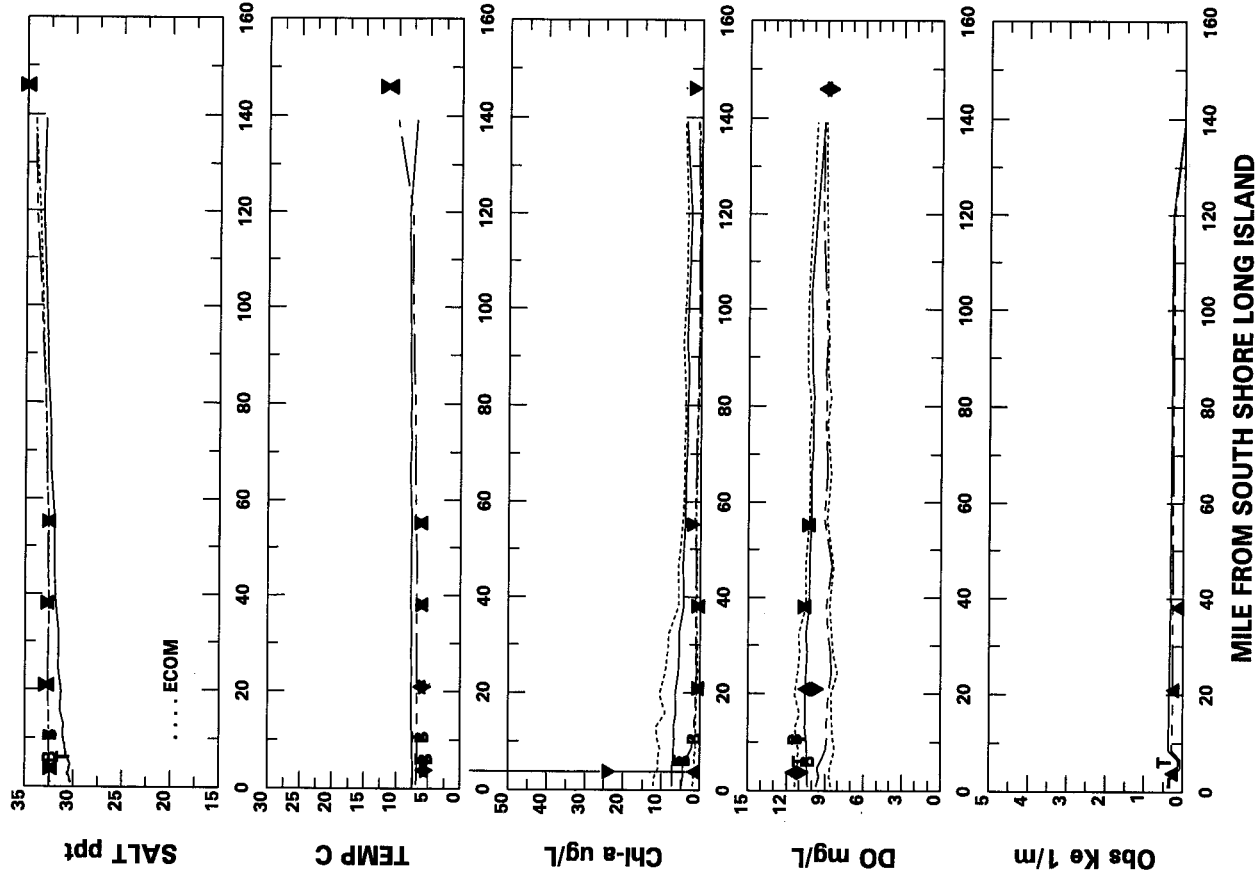
SURF BOT
▲ ▼
T B

Transect
Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8,
1995

SURF BOT

▲ Transect
T B Embayment

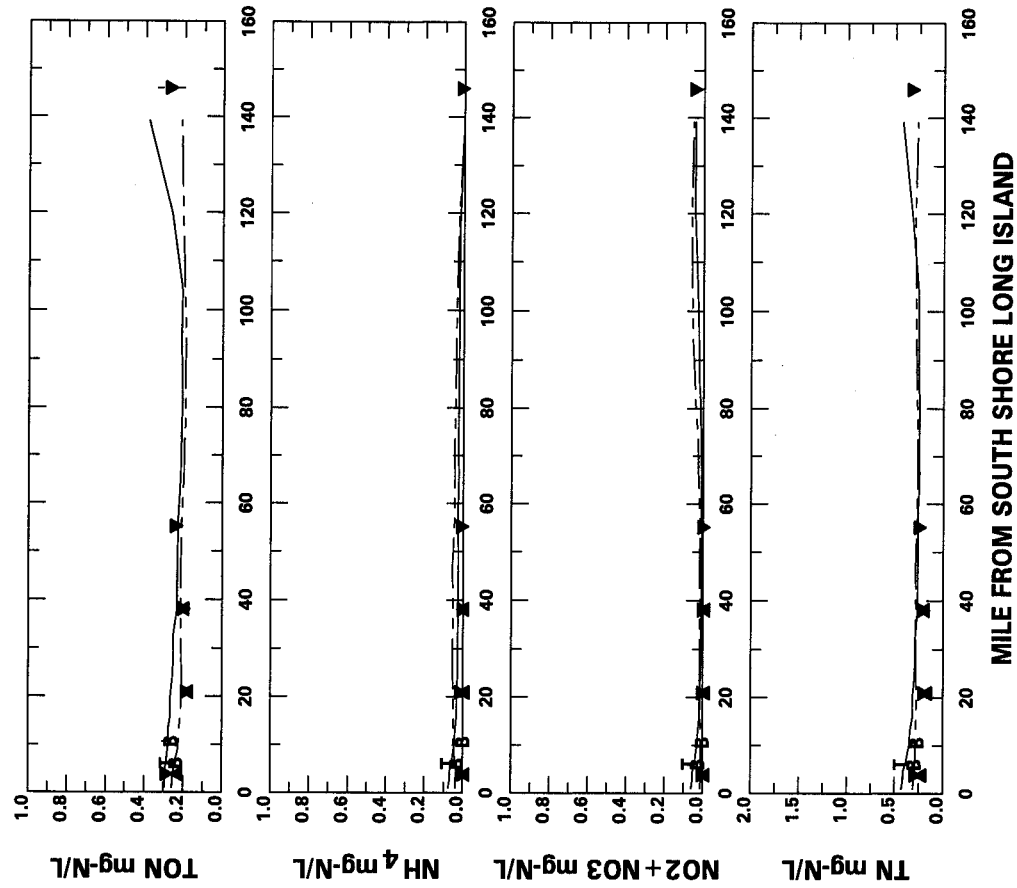
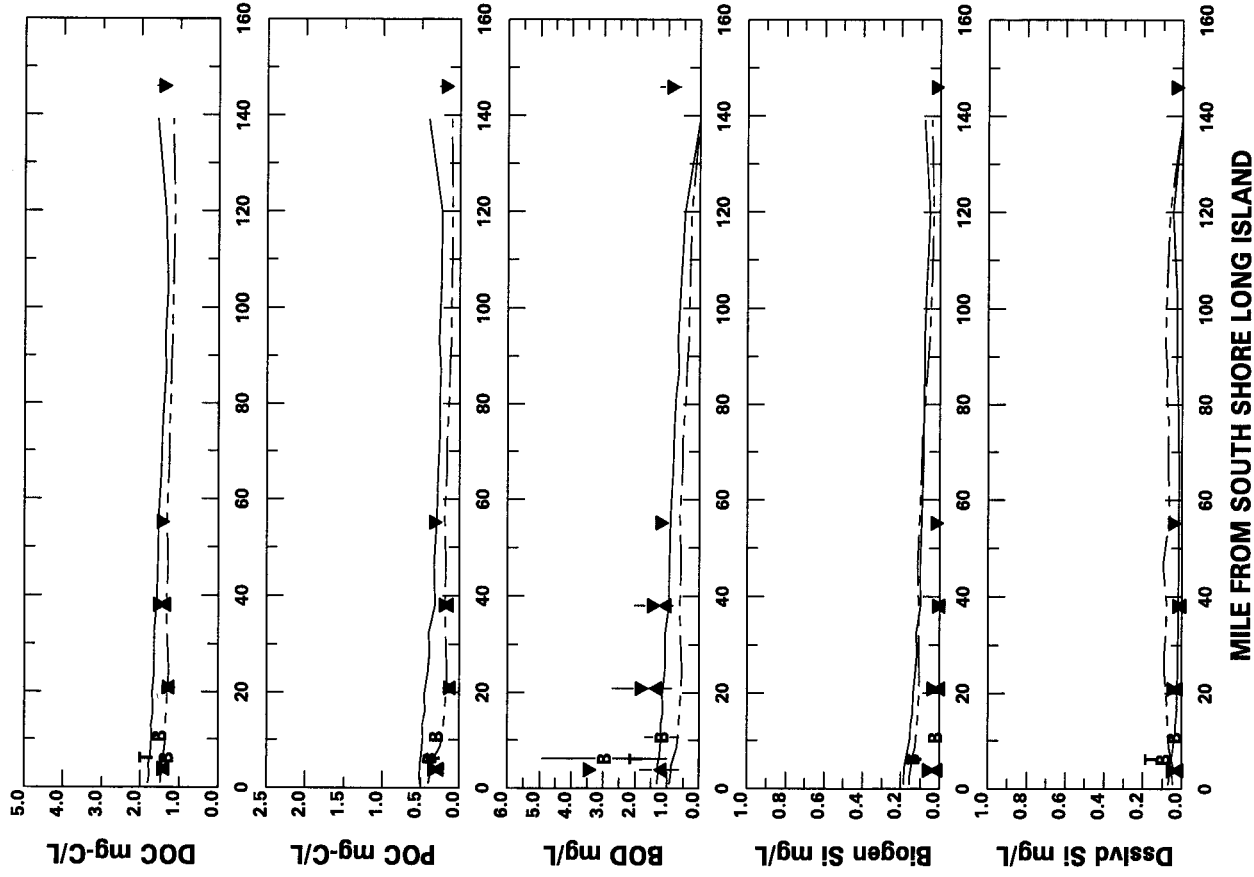
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle Mar 28-Apr 8,
1995

SURF BOT
▲ ▼
T B

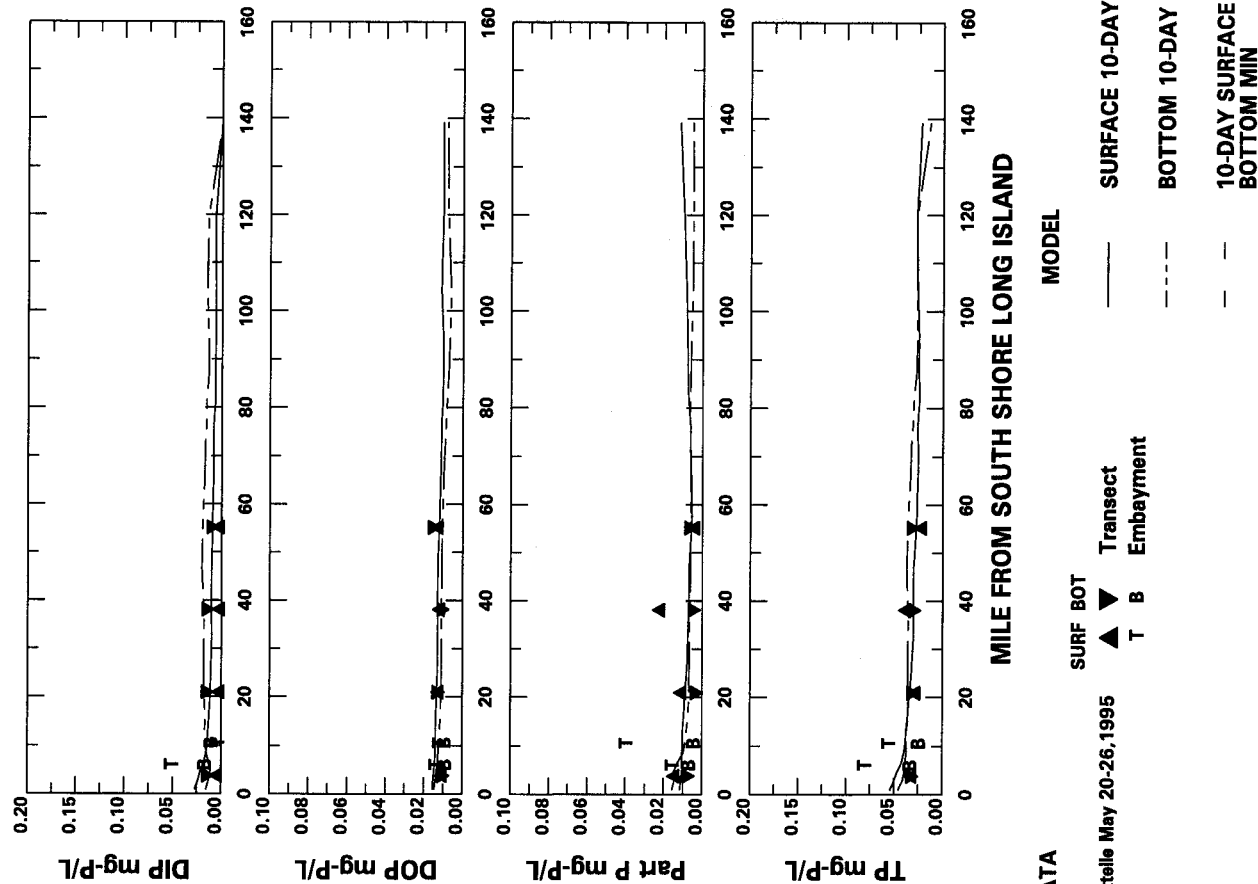
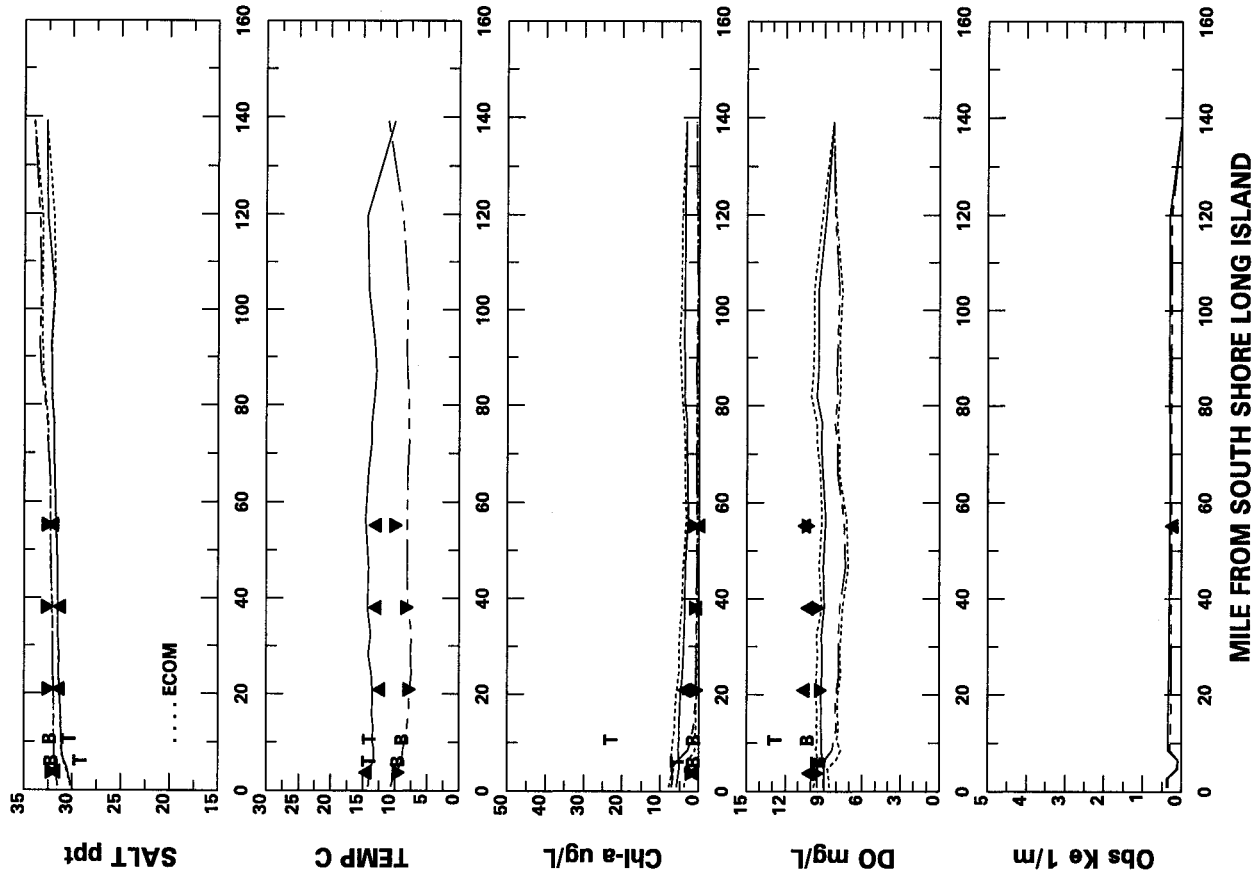
Transect
Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

DATE: Wed Apr 28 TIME: 15:10:22

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3
SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995

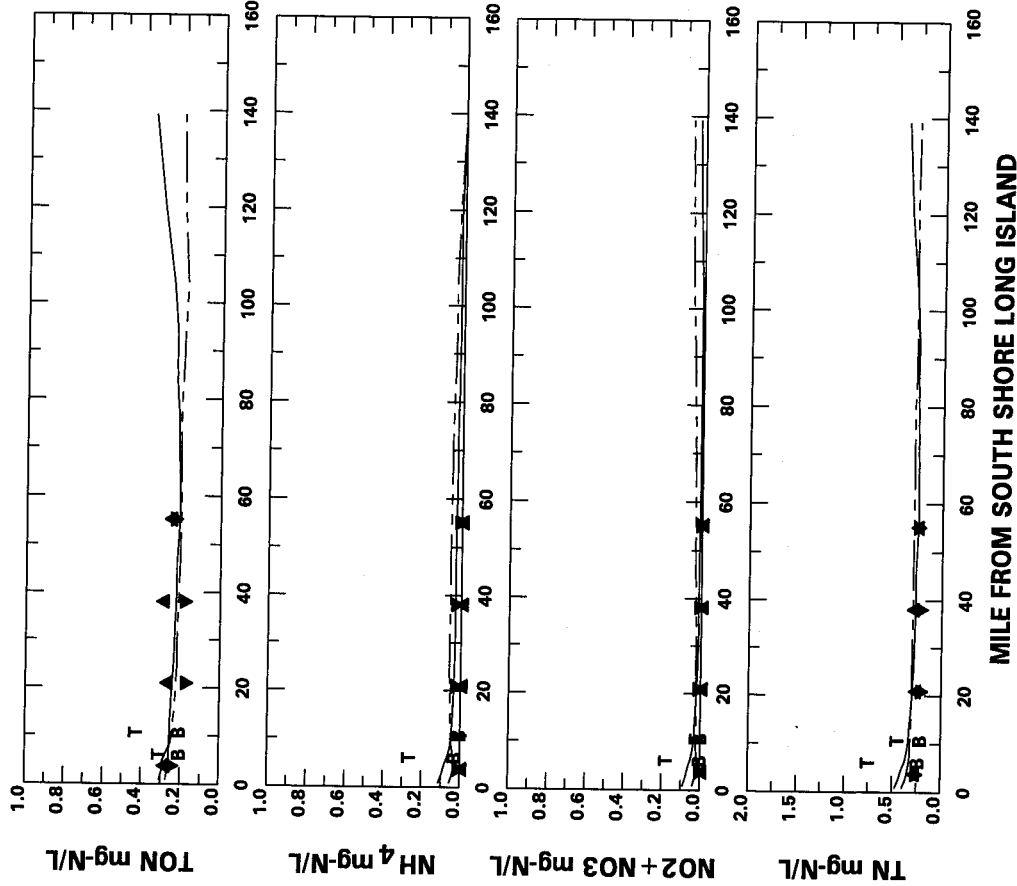
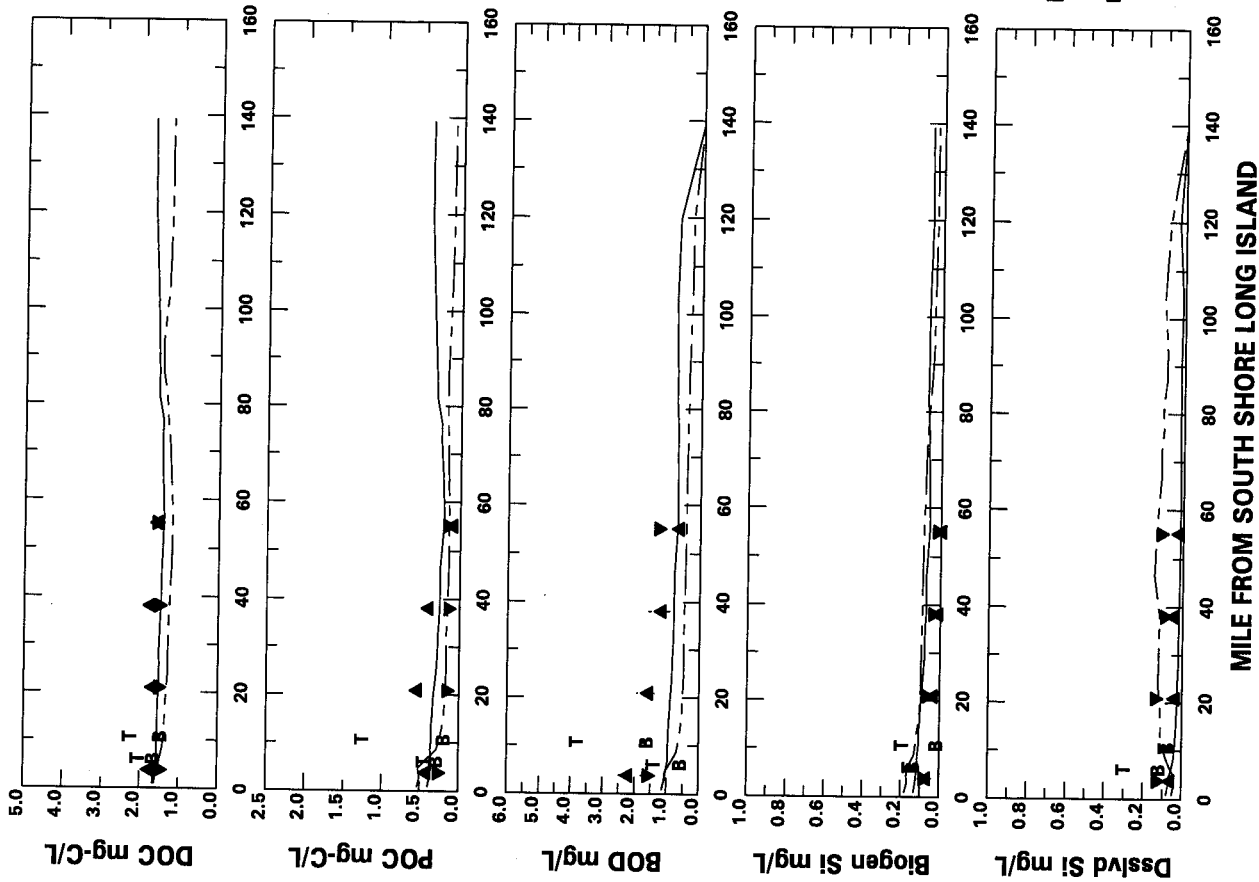
SURF BOT

▲ ▼ Transect
T B Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

Battelle May 20-26, 1995

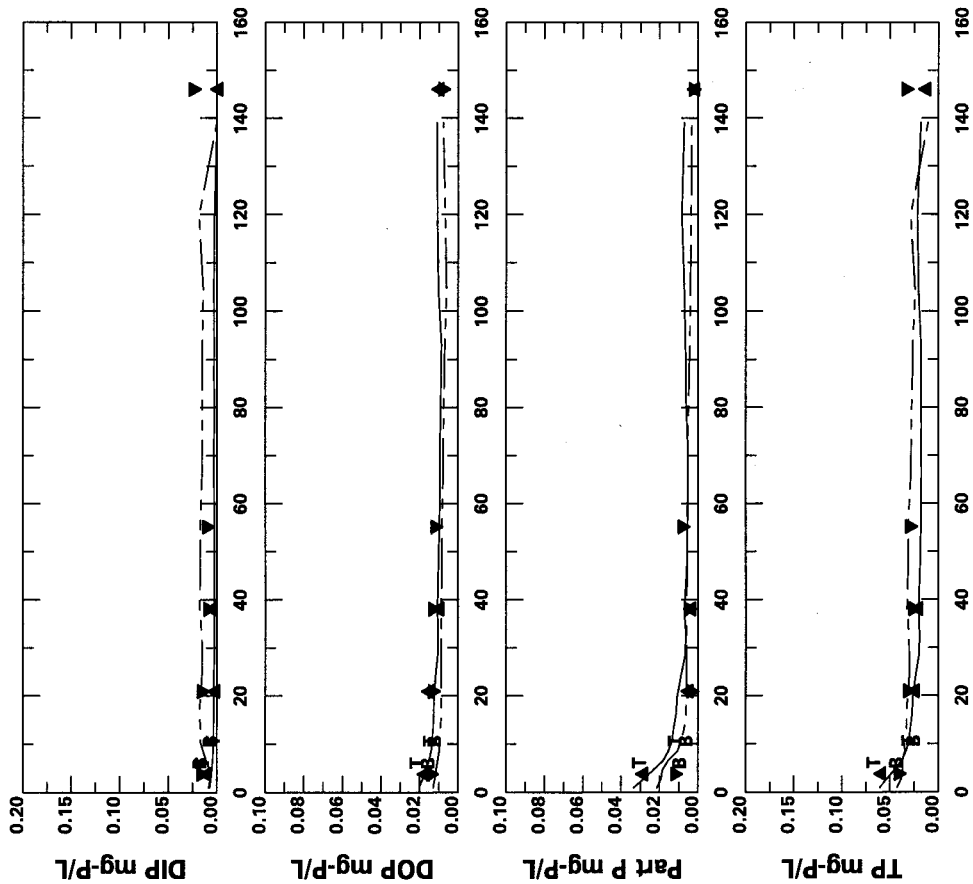
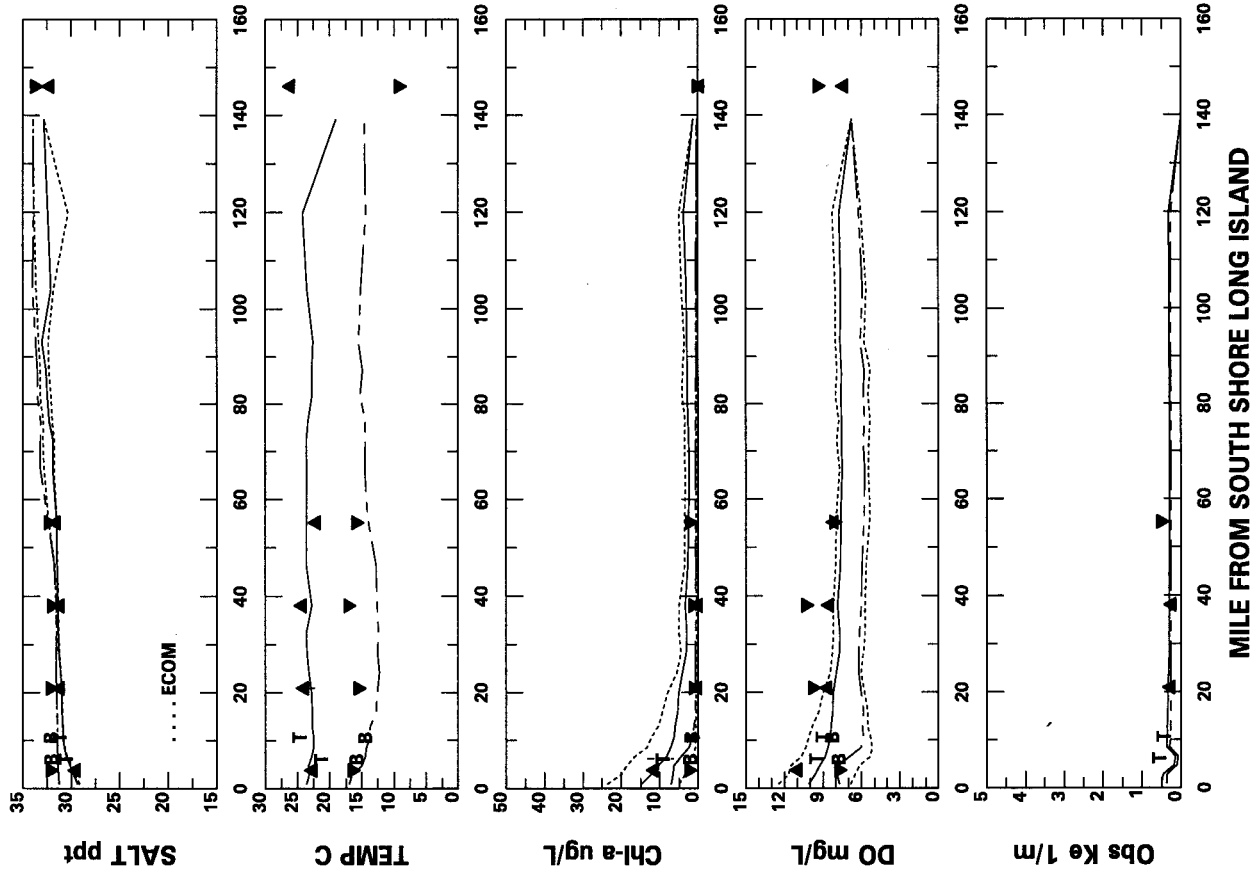
SURF BOT
 ▲ ▼ Transect
 T B Embayment

MODEL

— SURFACE 10-DAY MEAN
 - - - BOTTOM 10-DAY MEAN
 - - - 10-DAY SURFACE MAX OR BOTTOM MIN

DATE: Wed Apr 29 TIME: 15:10:39

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



MILE FROM SOUTH SHORE LONG ISLAND

DATA

Battelle July 20-Aug 2,
1995

SURF BOT

▲ Transect
T B Embayment

MODEL

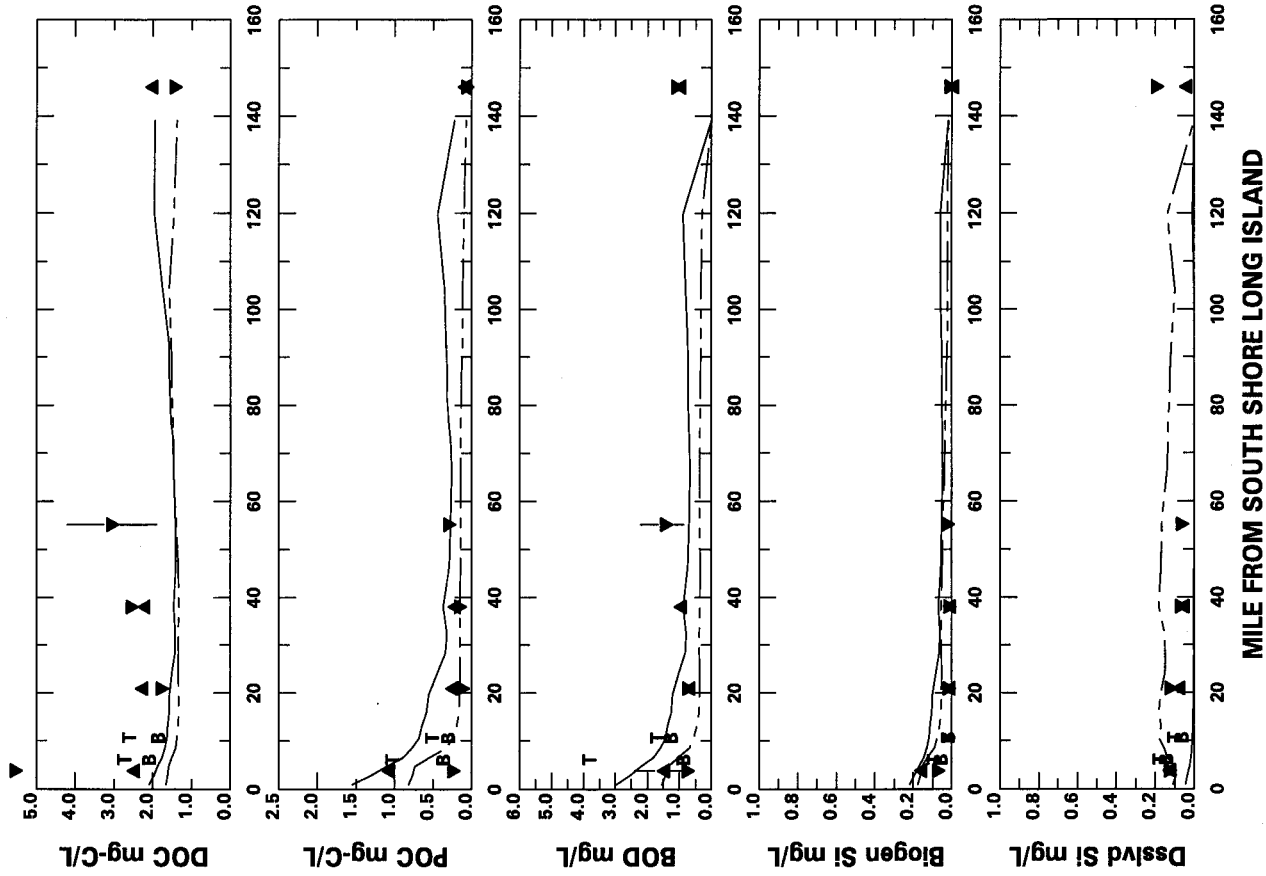
— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

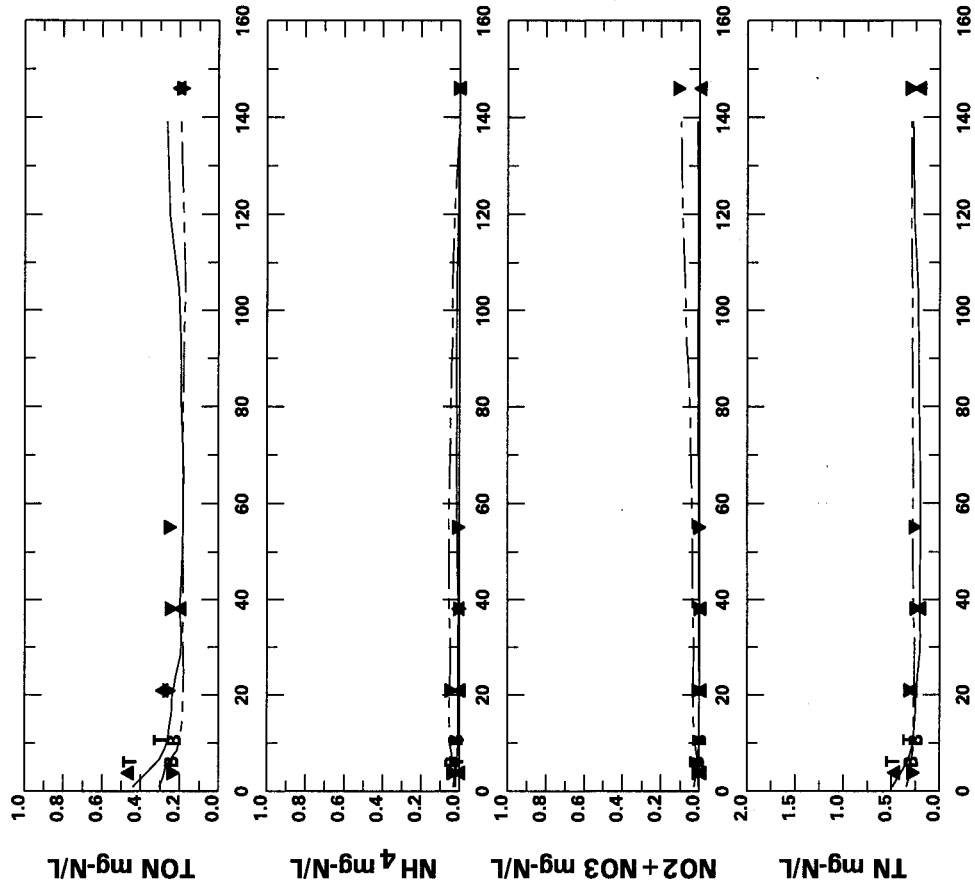
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

MILE FROM SOUTH SHORE LONG ISLAND

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



MILE FROM SOUTH SHORE LONG ISLAND



MILE FROM SOUTH SHORE LONG ISLAND

DATA

Battelle July 20-Aug 2, 1995

SURF BOT

▲ Transect
▼ Embayment

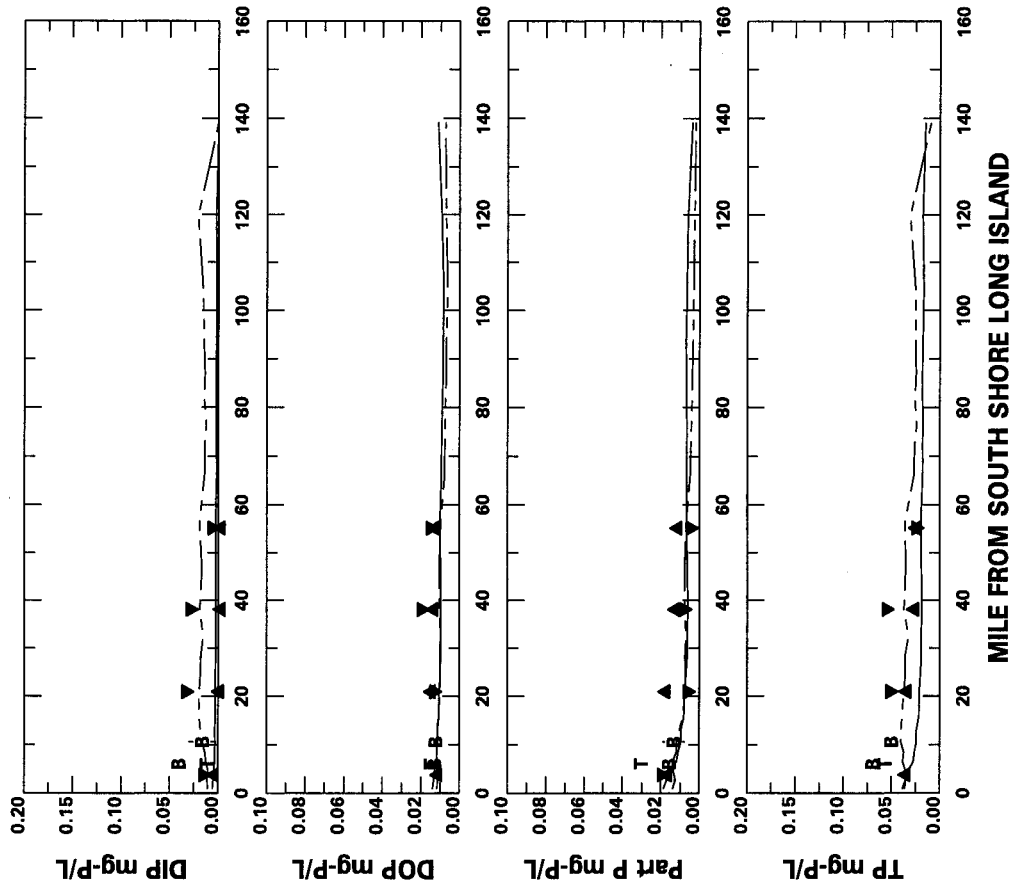
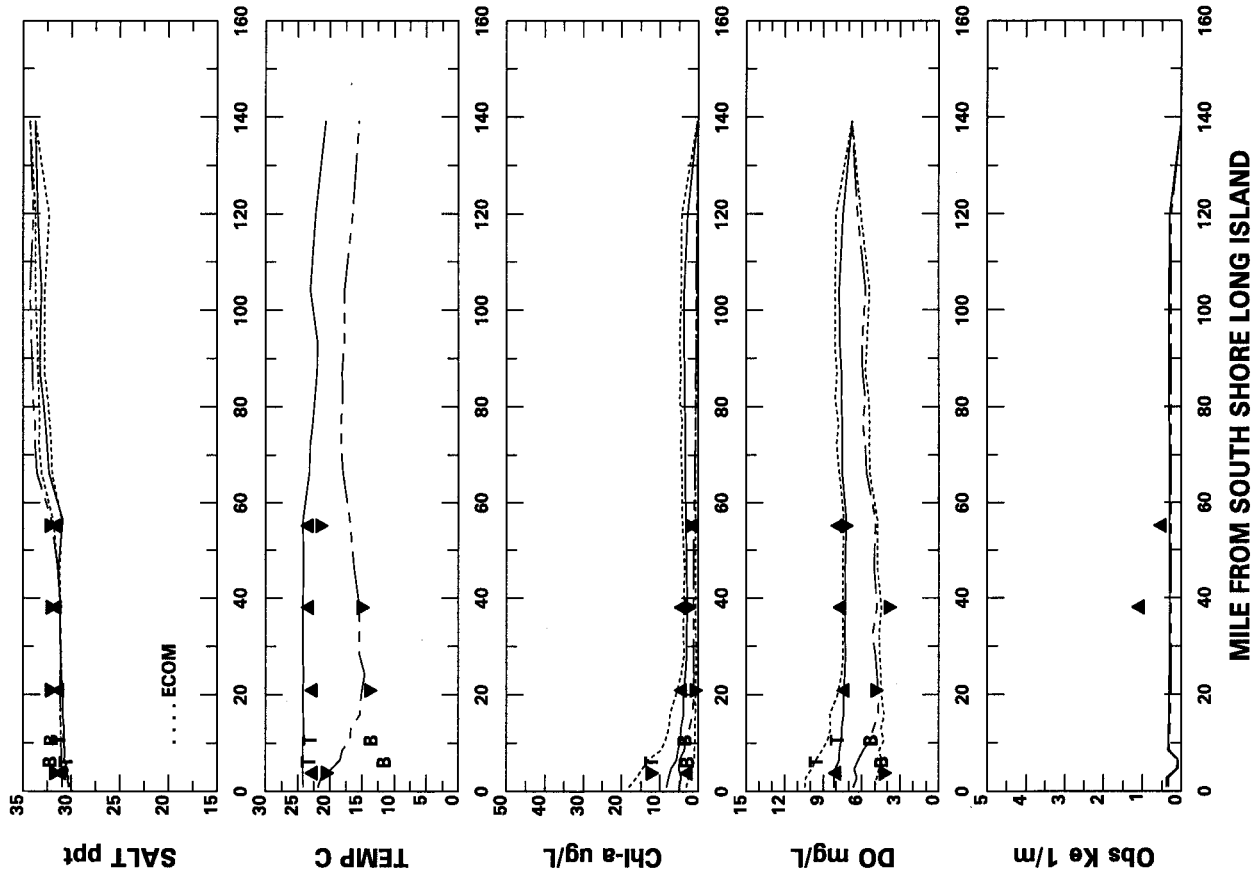
MODEL

— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION



DATA

SURF BOT

Battelle Aug 20-29, 1995

▲ ▼ Transect

T B Embayment

MODEL

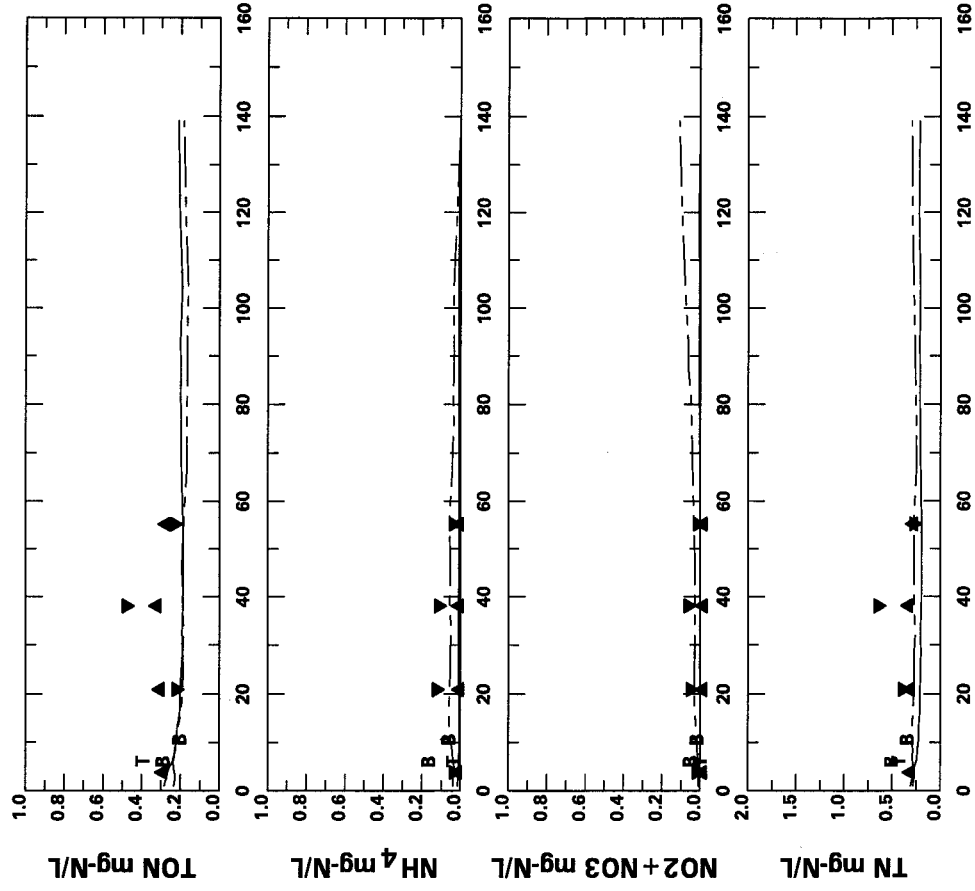
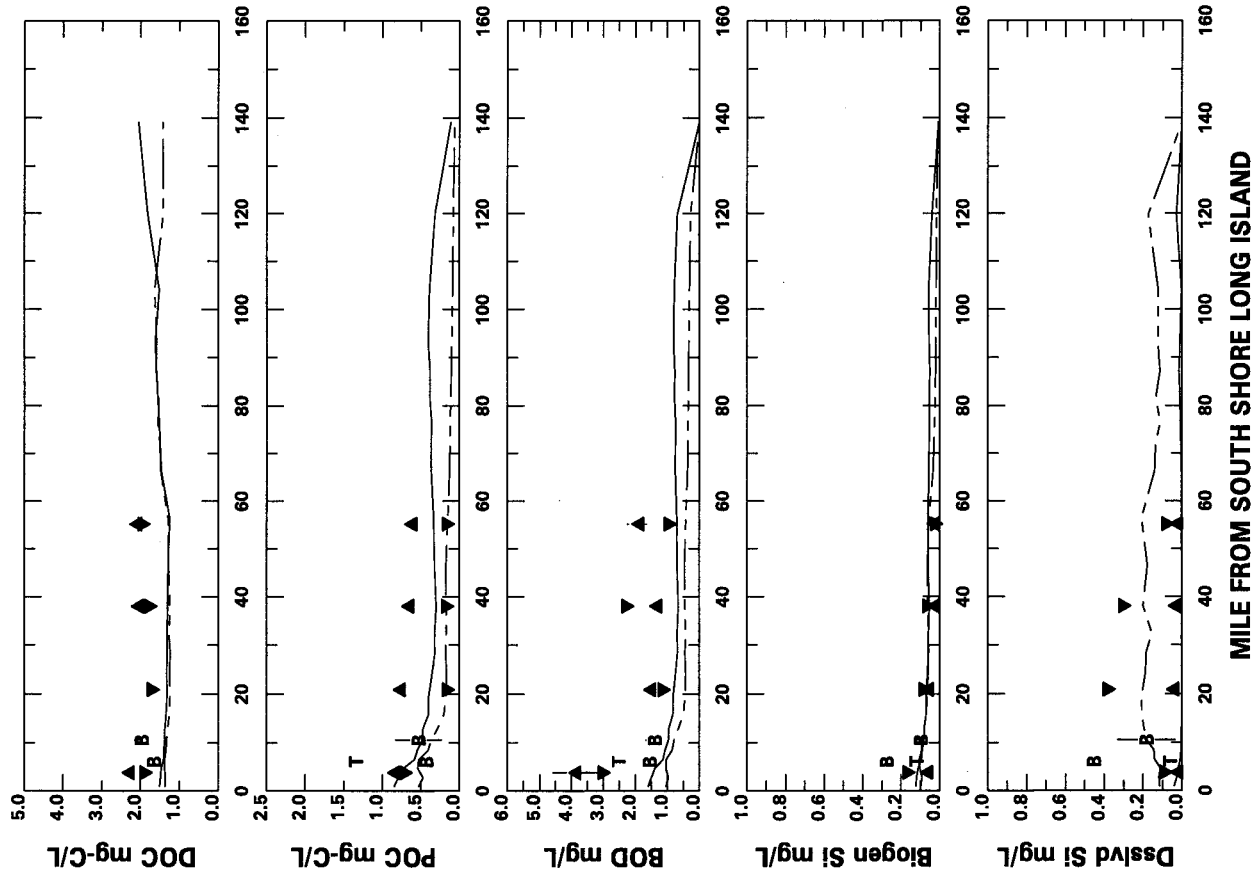
— SURFACE 10-DAY MEAN

- - - BOTTOM 10-DAY MEAN

- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION

DATE: Wed Apr 29 TIME: 15:11:18



DATA

Battelle Aug 20-29, 1995

SURF BOT

▲ ▼

T B

Transect Embayment

MODEL

—

SURFACE 10-DAY MEAN

- - -

BOTTOM 10-DAY MEAN

- - -

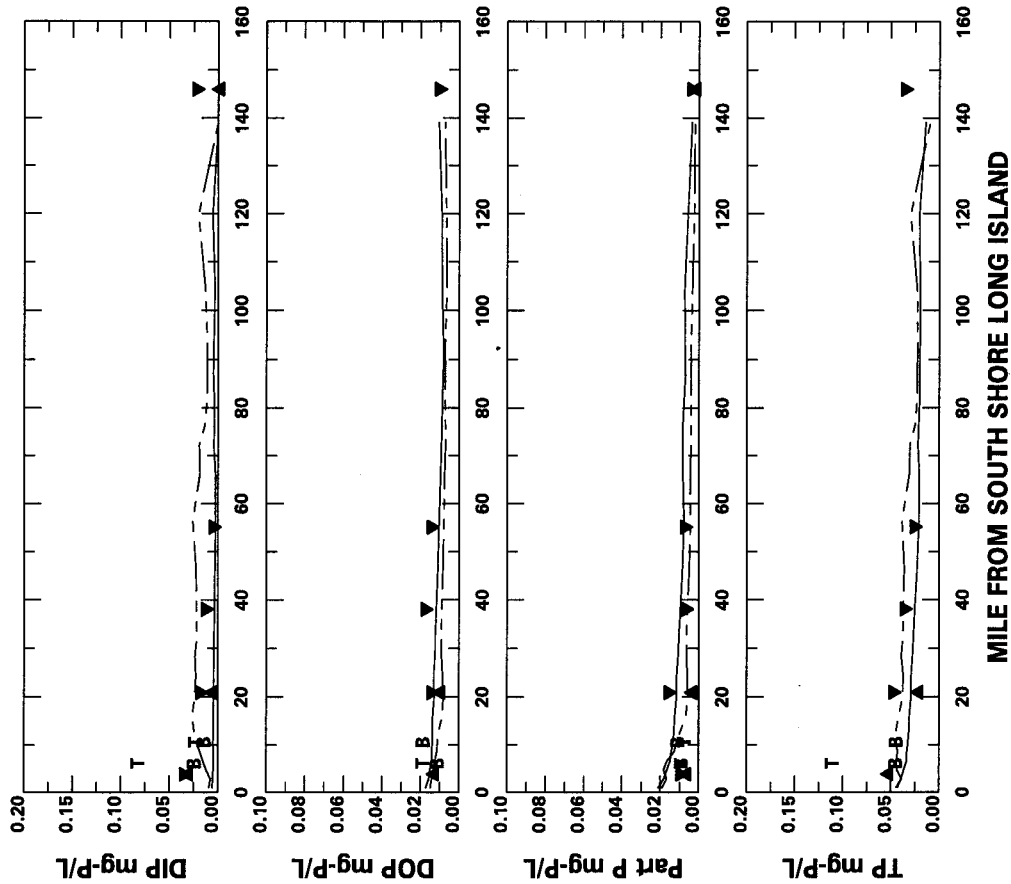
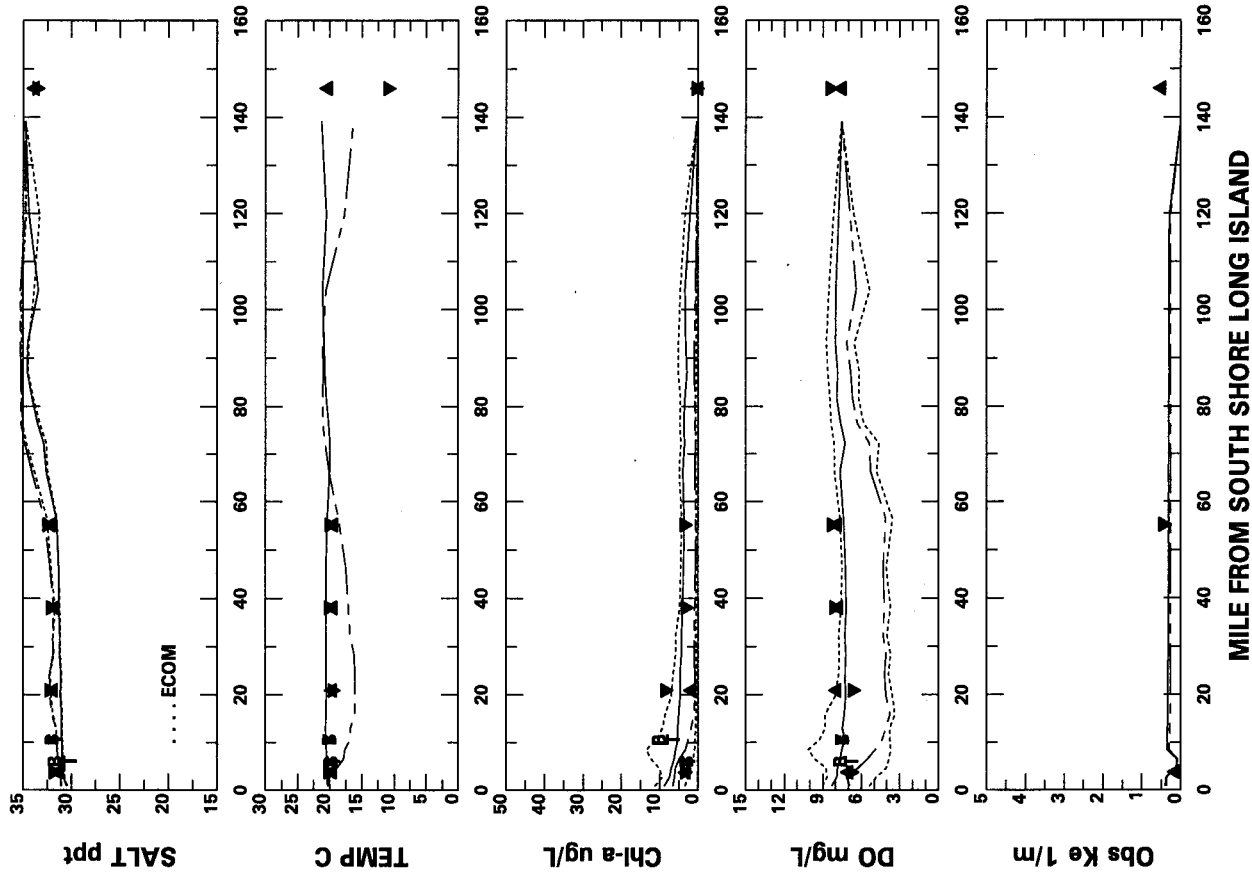
10-DAY SURFACE MAX OR
BOTTOM MIN

MILE FROM SOUTH SHORE LONG ISLAND

MILE FROM SOUTH SHORE LONG ISLAND

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION

DATE: Wed Apr 29 TIME: 15:11:18



DATA

Battelle Sep 23-Oct 2,
1995

SURF BOT

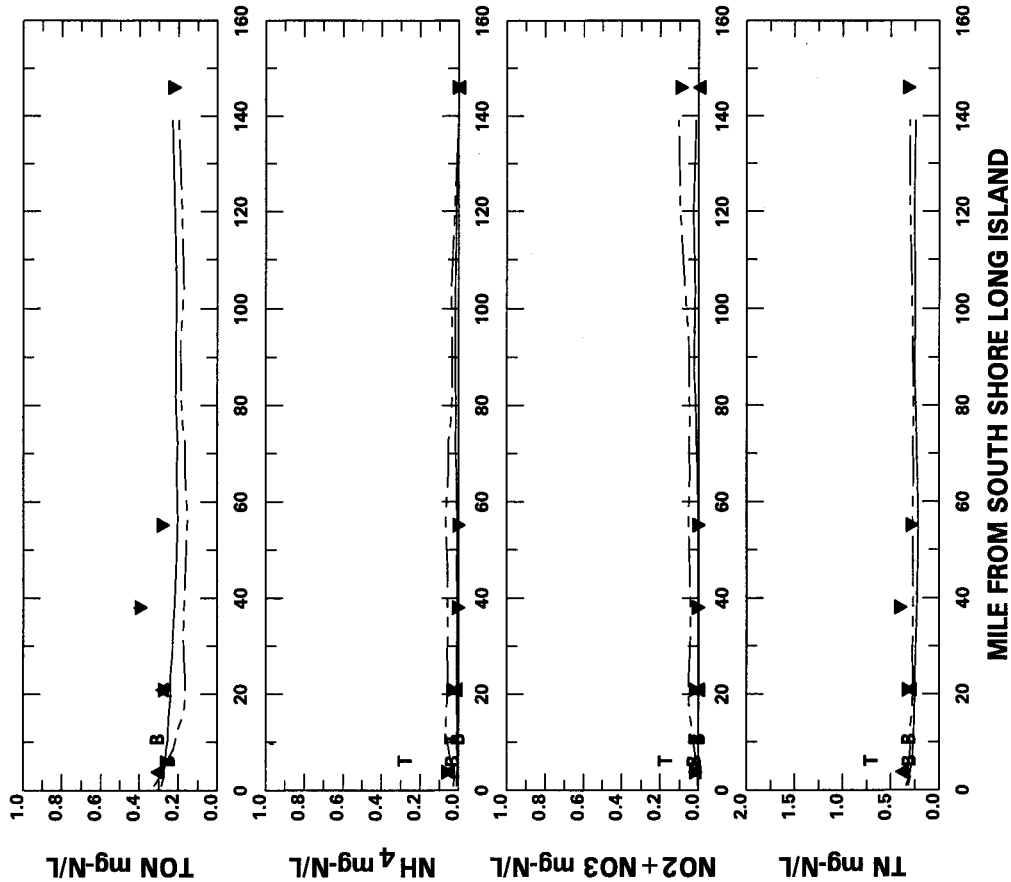
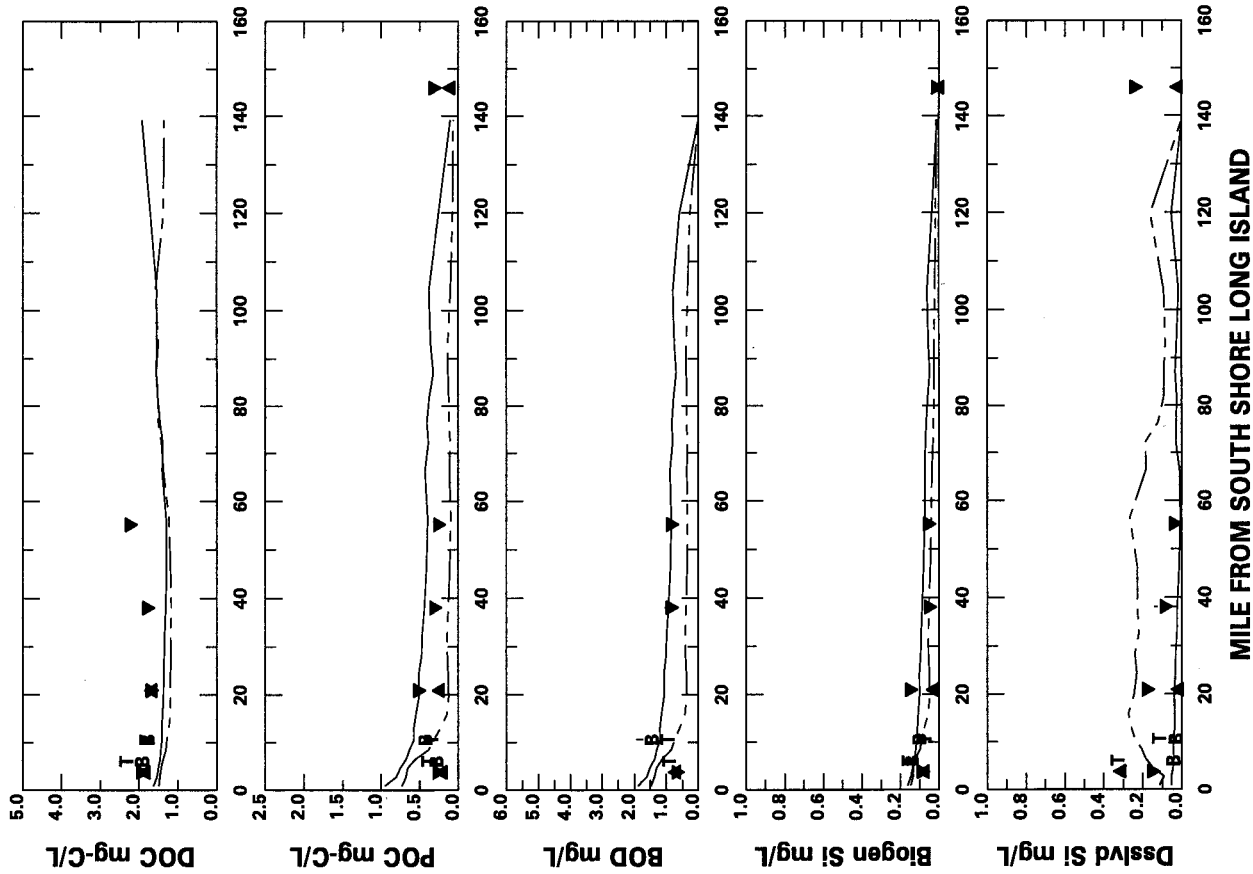
▲ ▼ Transect
T B Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION

DATE: Wed Apr 29 TIME: 15:11:39



DATA

Battelle Sep 23-Oct 2,
1995

SURF BOT

▲ ▼ Transect
T B Embayment

MODEL

— SURFACE 10-DAY MEAN
- - - BOTTOM 10-DAY MEAN
- - - 10-DAY SURFACE MAX OR
BOTTOM MIN

NEW YORK BIGHT NORTH-SOUTH TRANSECT 2 RUN 9495-BC3 SWEM REVISED CALIBRATION

TEMPORAL DISTRIBUTIONS

MAP LOCATIONS FOR TEMPORAL COMPARISONS

MAP LOCATIONS FOR TEMPORAL MODEL AND DATA COMPARISONS

Lower East River

1	Pier 10
2	23 rd Street
3	42 nd Street
4	Hell Gate

Upper East River

5	Flushing Bay
6	Throgs Neck
7	Stepping Stones

Long Island Sound

8	Milepoint 23
9	Milepoint 41

Hudson River, Upper Bay, Lower Bay

10	Above Haverstraw Bay
11	Mount. St. Vincent
12	Spuyten Duyvil
13	125 th Street
14	42 nd Street
15	The Battery
16	The Narrows
17	Rockaway Point
18	Robbins Reef

Harlem River

19	155 th Street
----	--------------------------

Newark Bay, Kill van Kull, Arthur Kill

20	Newark Bay
21	Shooters Island
22	Elizabeth
23	Fresh Kills
24	Tottenville

MAP LOCATIONS FOR TEMPORAL MODEL AND DATA COMPARISONS

Raritan Bay

25	Middlesex
26	Orchard Light
27	Atlantic Highlands
28	Northeast of Point Comfort
29	Off Staten Island

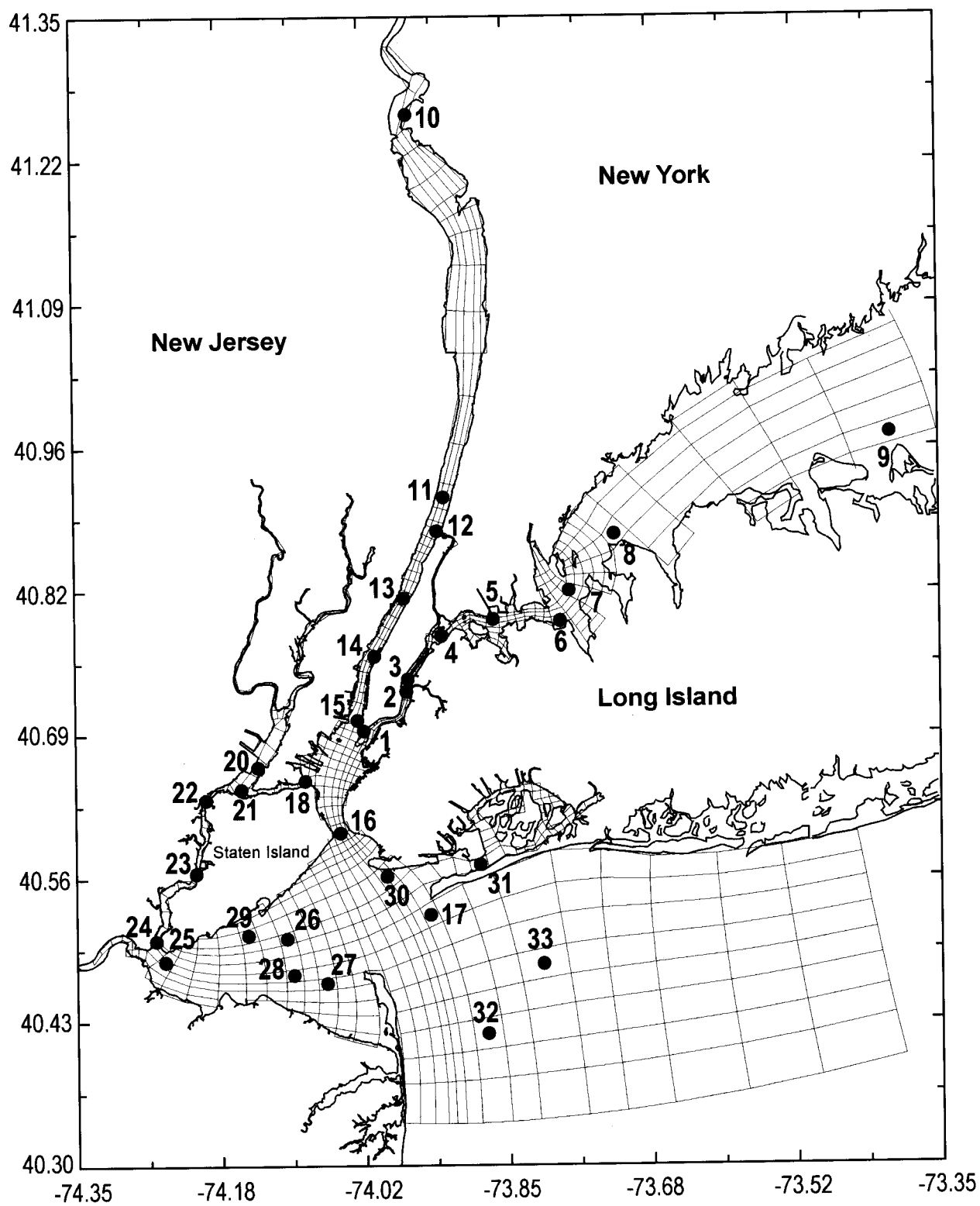
Jamaica Bay

30	Steeplechase
31	Rockaway Inlet

New York Bight

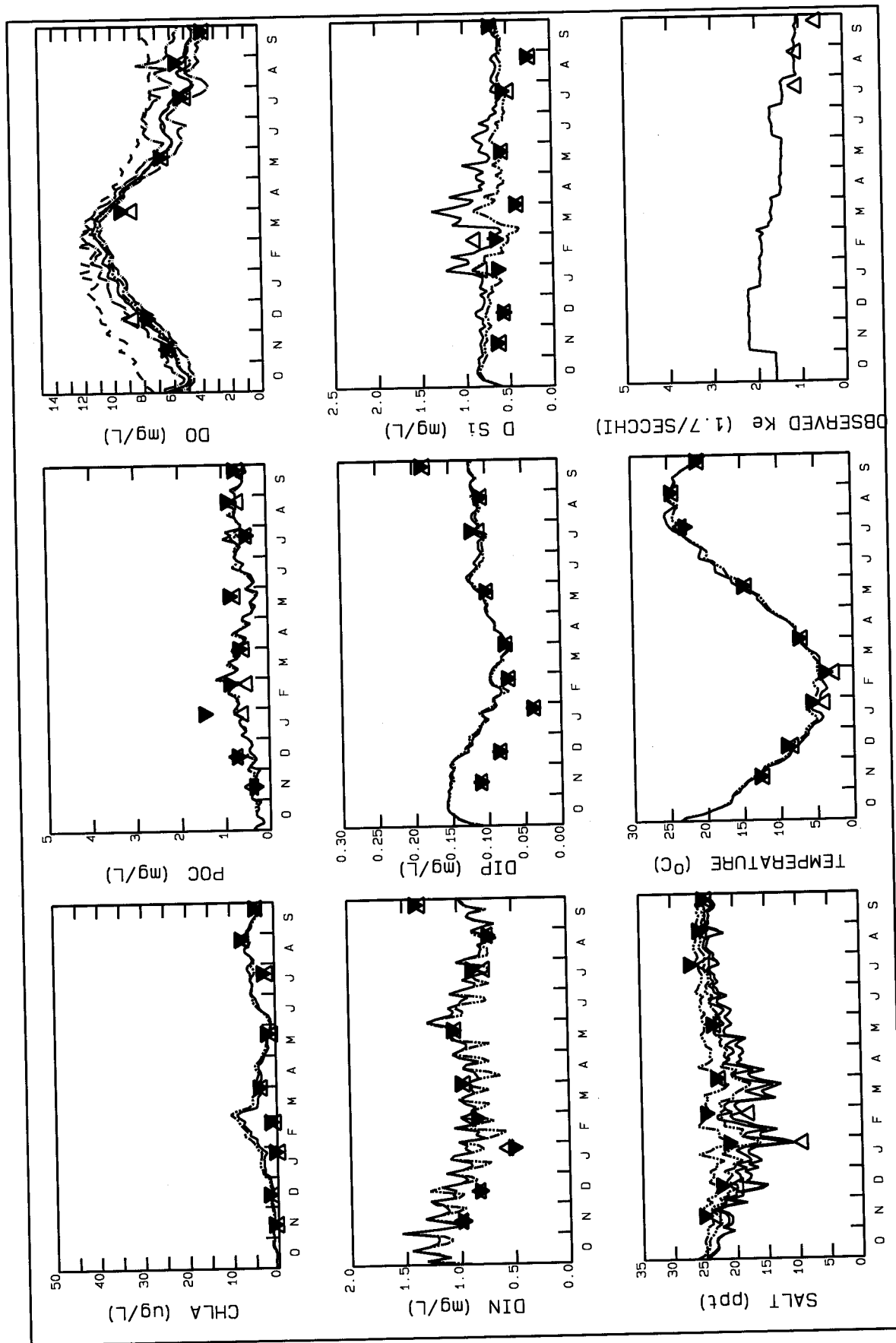
32	Bight Apex
33	NY Coast

Not Shown on Map: NJ Coastal Plume
Central Apex Transect (183)
Central Apex Transect (184)



LOCATIONS FOR TEMPORAL MODEL & DATA COMPARISONS

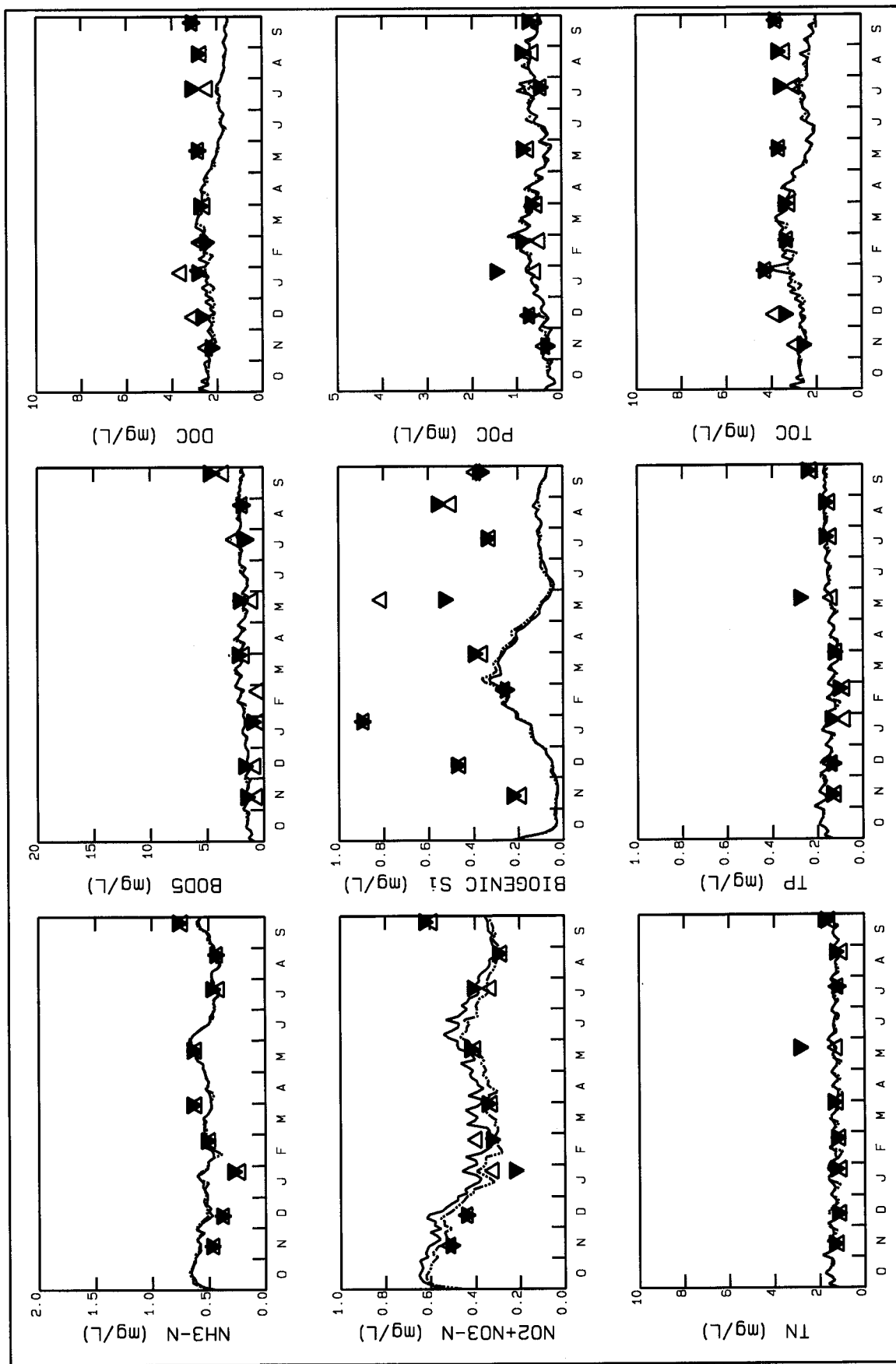
**TEMPORAL DISTRIBUTIONS OF
LOWER EAST RIVER**



STATION 46 LOWER EAST RIVER-PIER 10

SWEM 94-95 CALIBRATION

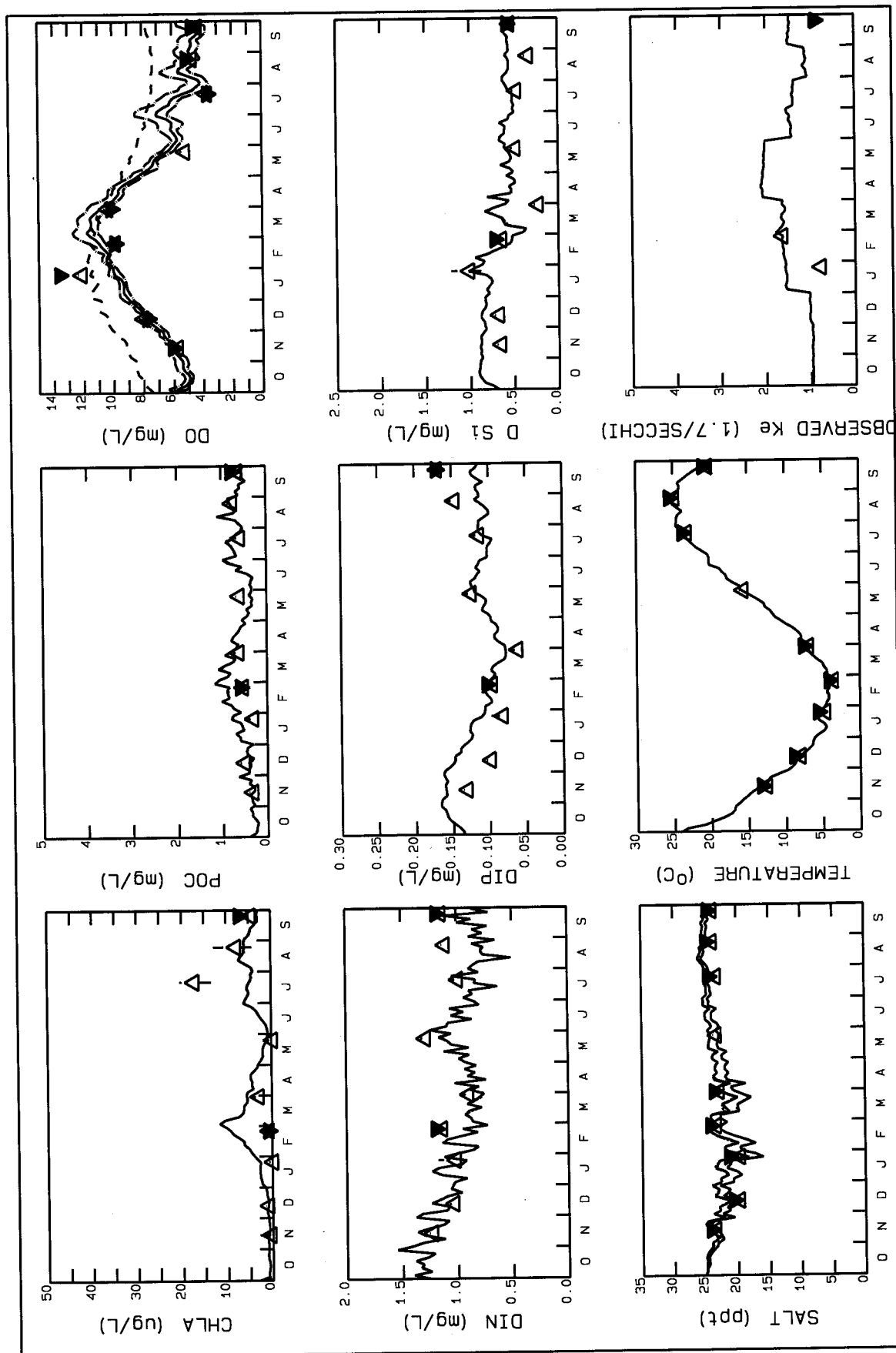
SWEM RUN 9495-BC3



STATION 46 LOWER EAST RIVER-PIER 10

SWEM RUN 9495-BC3

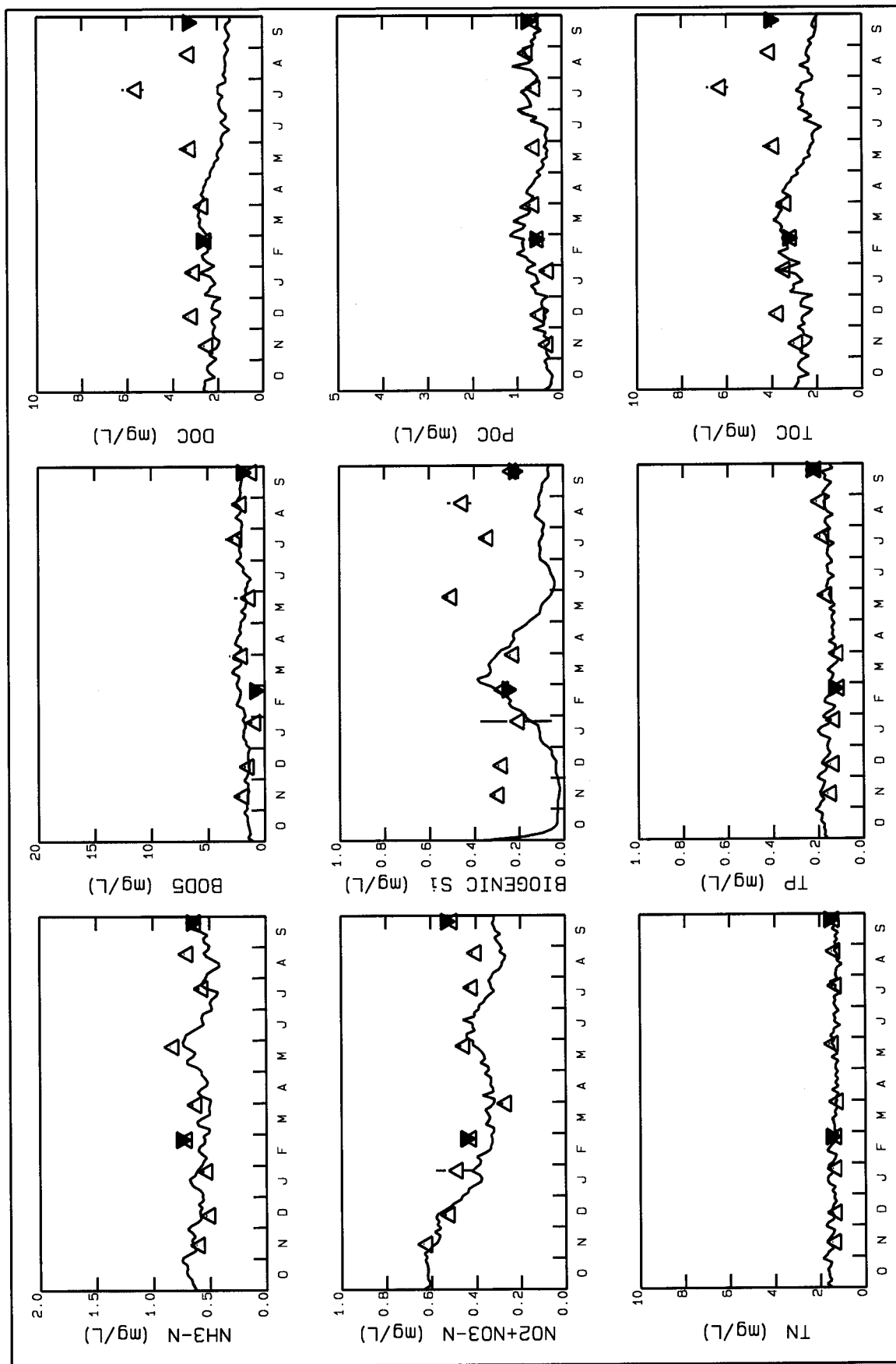
SWEM 94-95 CALIBRATION



STATION 54 LOWER EAST RIVER-23rd STREET

SWEM 94-95 CALIBRATION

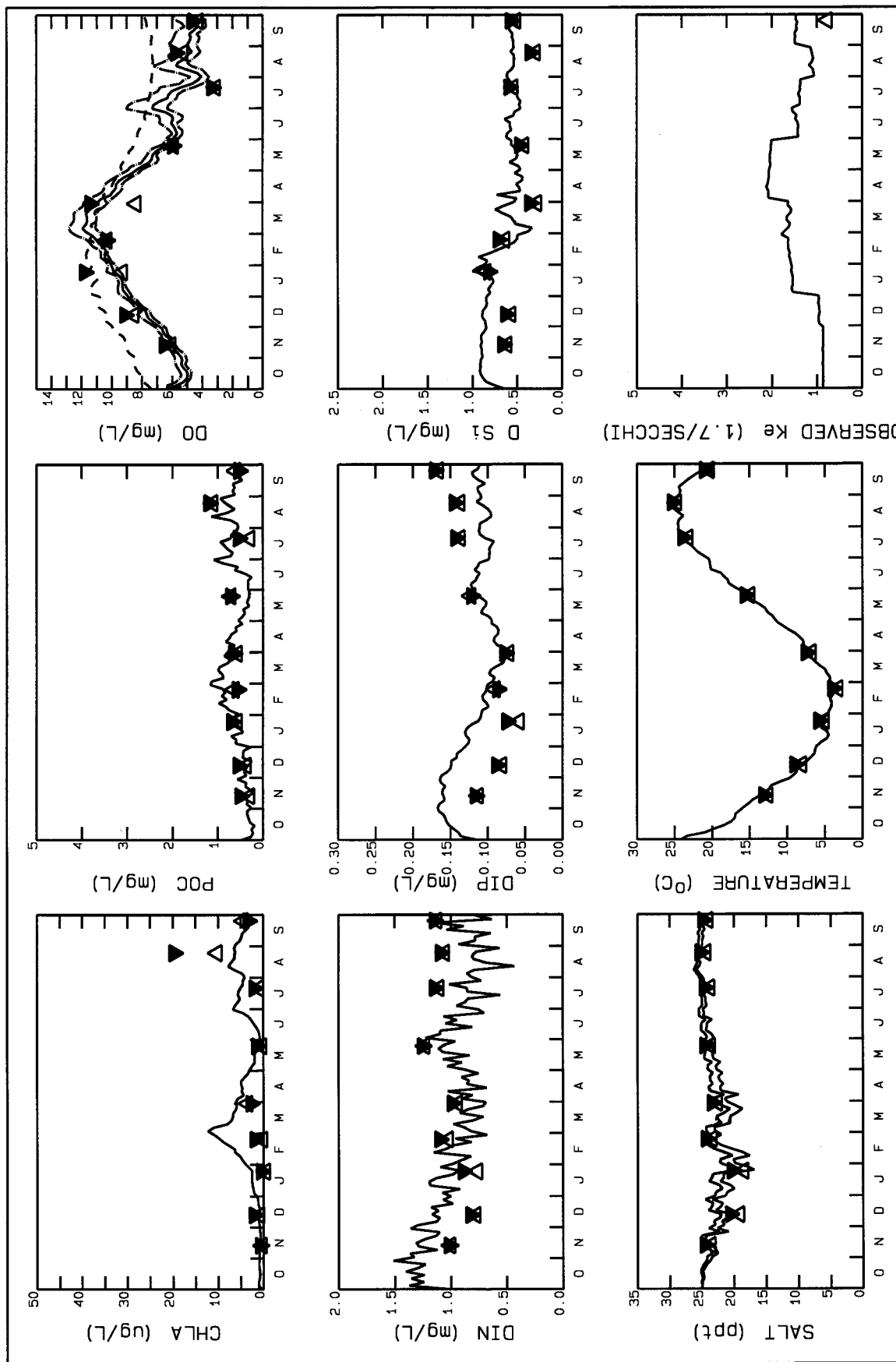
SWEM RUN 9495-BC3



STATION 54 LOWER EAST RIVER-23rd STREET

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

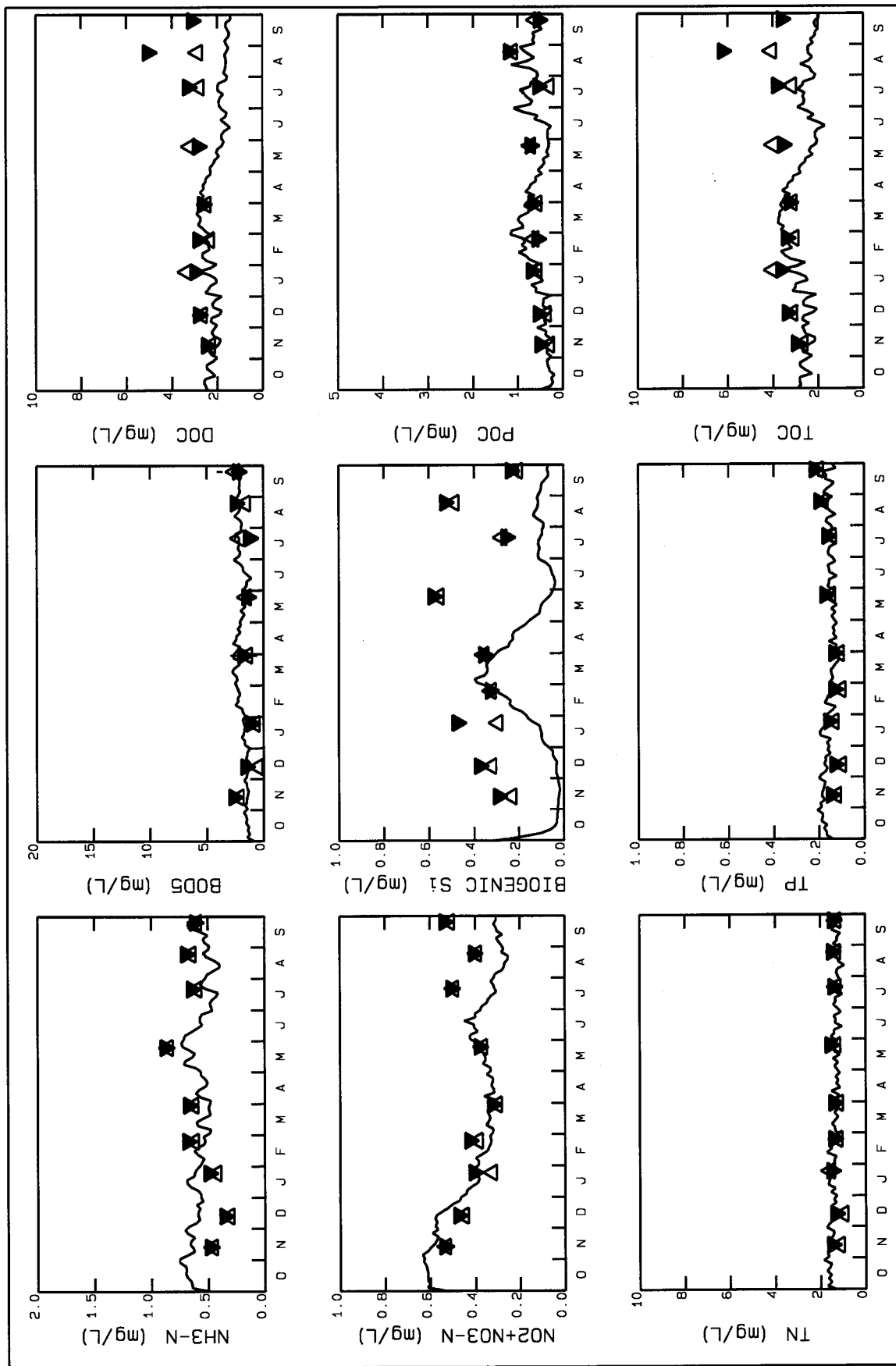


STATION 55 LOWER EAST RIVER-42nd STREET

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

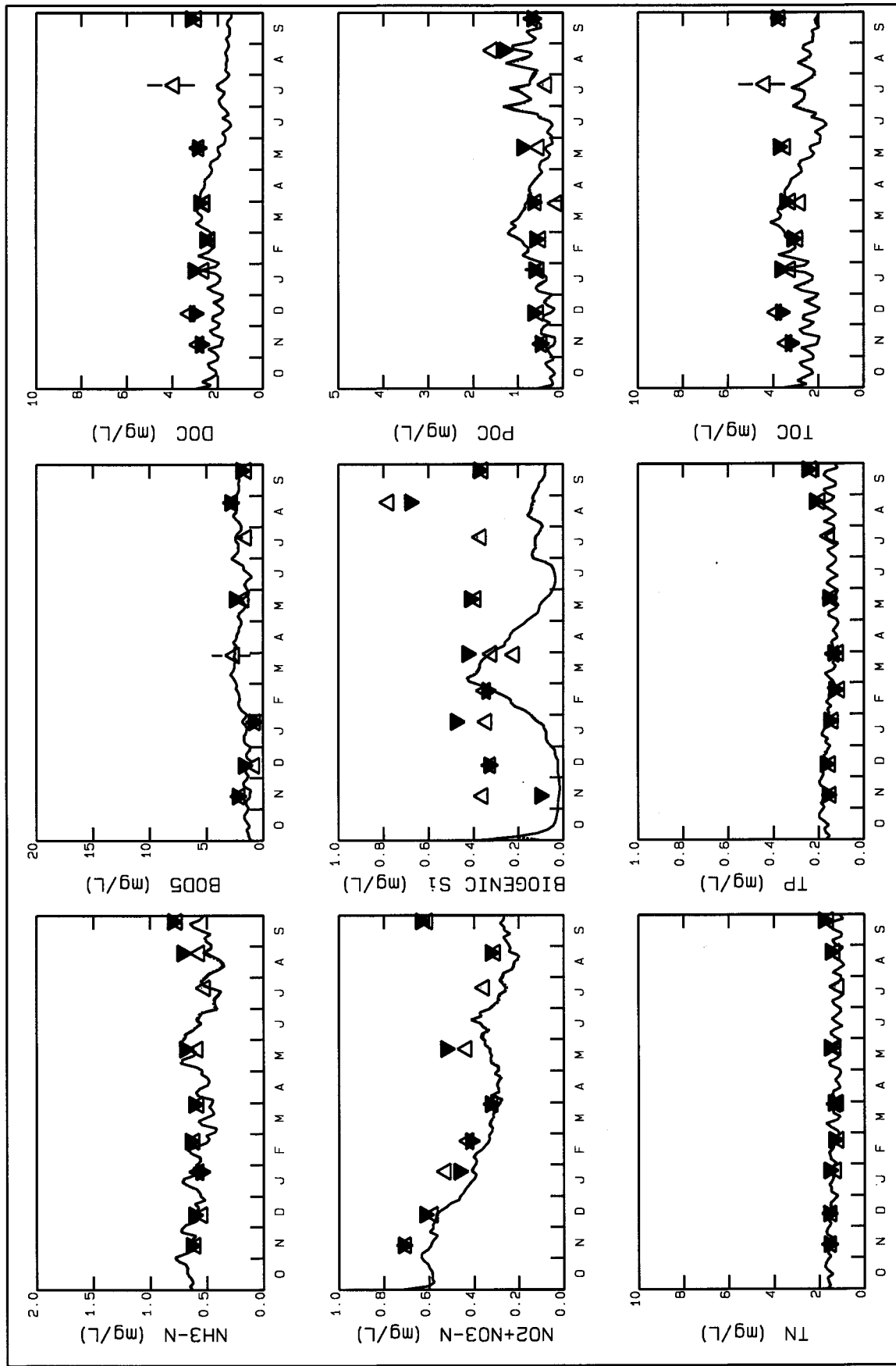
DATE: Thu Apr 30 TIME: 10:38:05



STATION 55 LOWER EAST RIVER-42nd STREET

SWEM RUN 9495-BC3

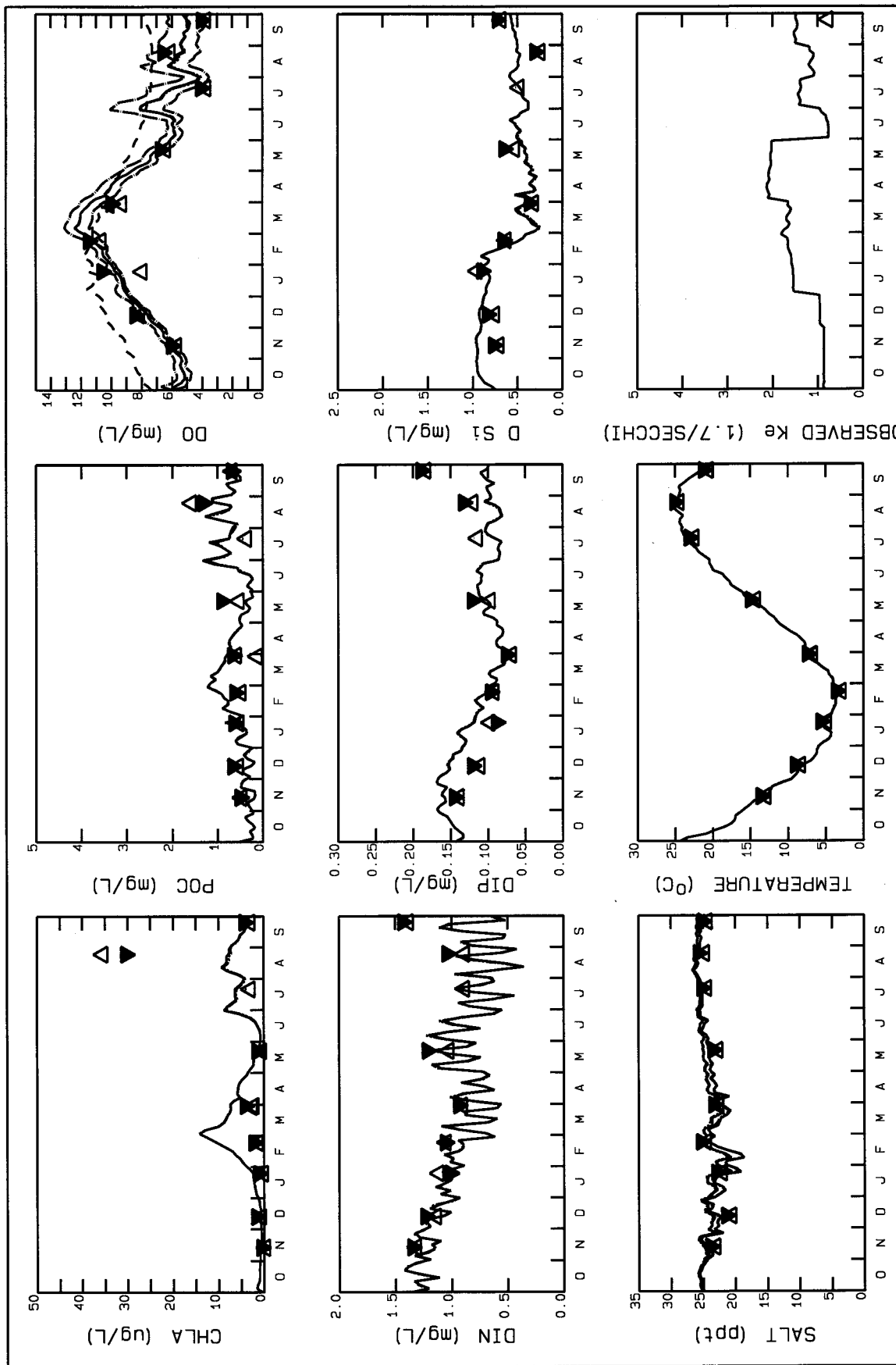
SWEM 94-95 CALIBRATION



STATION 56 LOWER EAST RIVER-HELL GATE

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

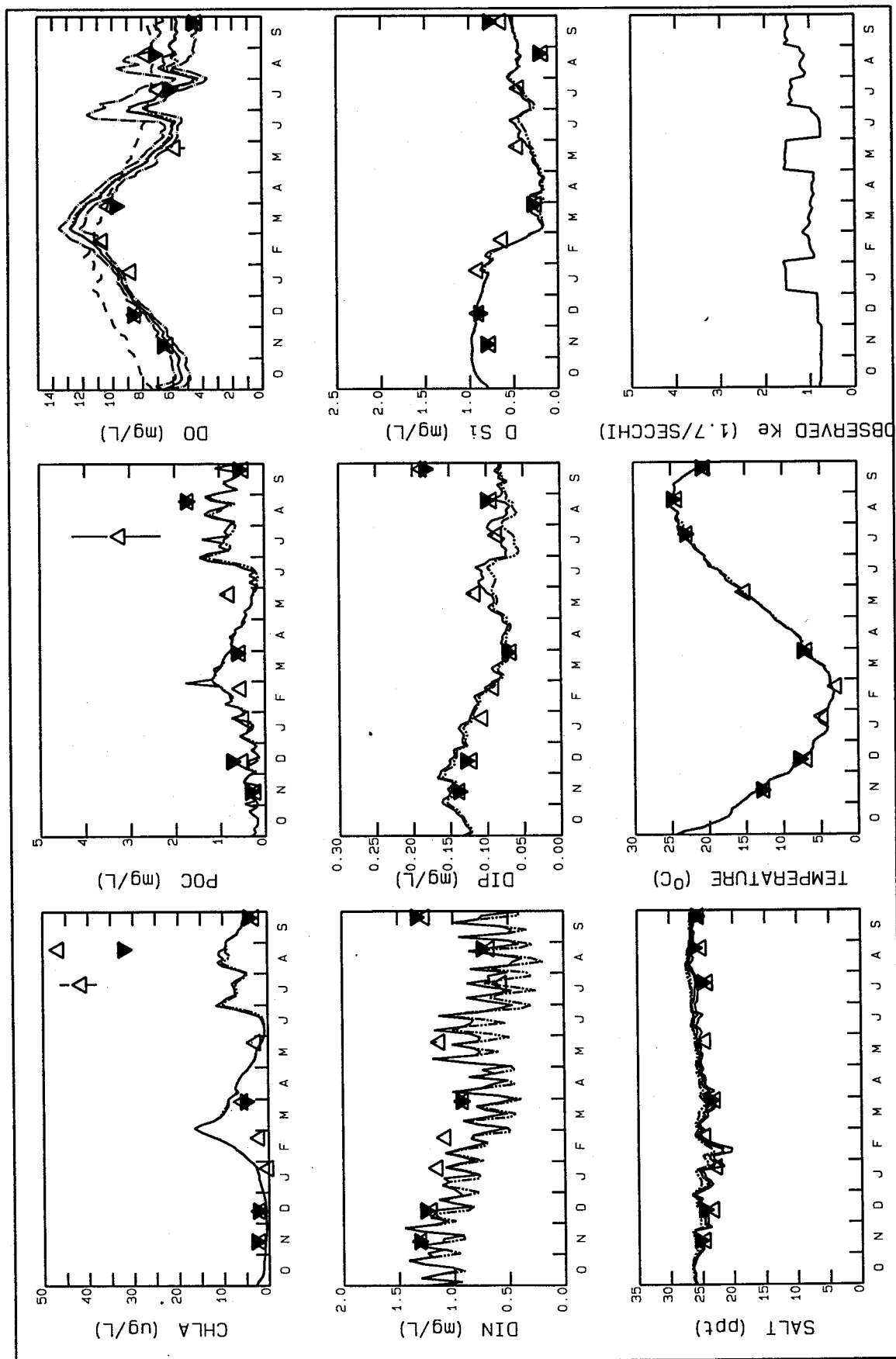


STATION 56 LOWER EAST RIVER-HELL GATE

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

TEMPORAL DISTRIBUTIONS OF UPPER EAST RIVER



STATION 58 UPPER EAST RIVER-FLUSHING BAY

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

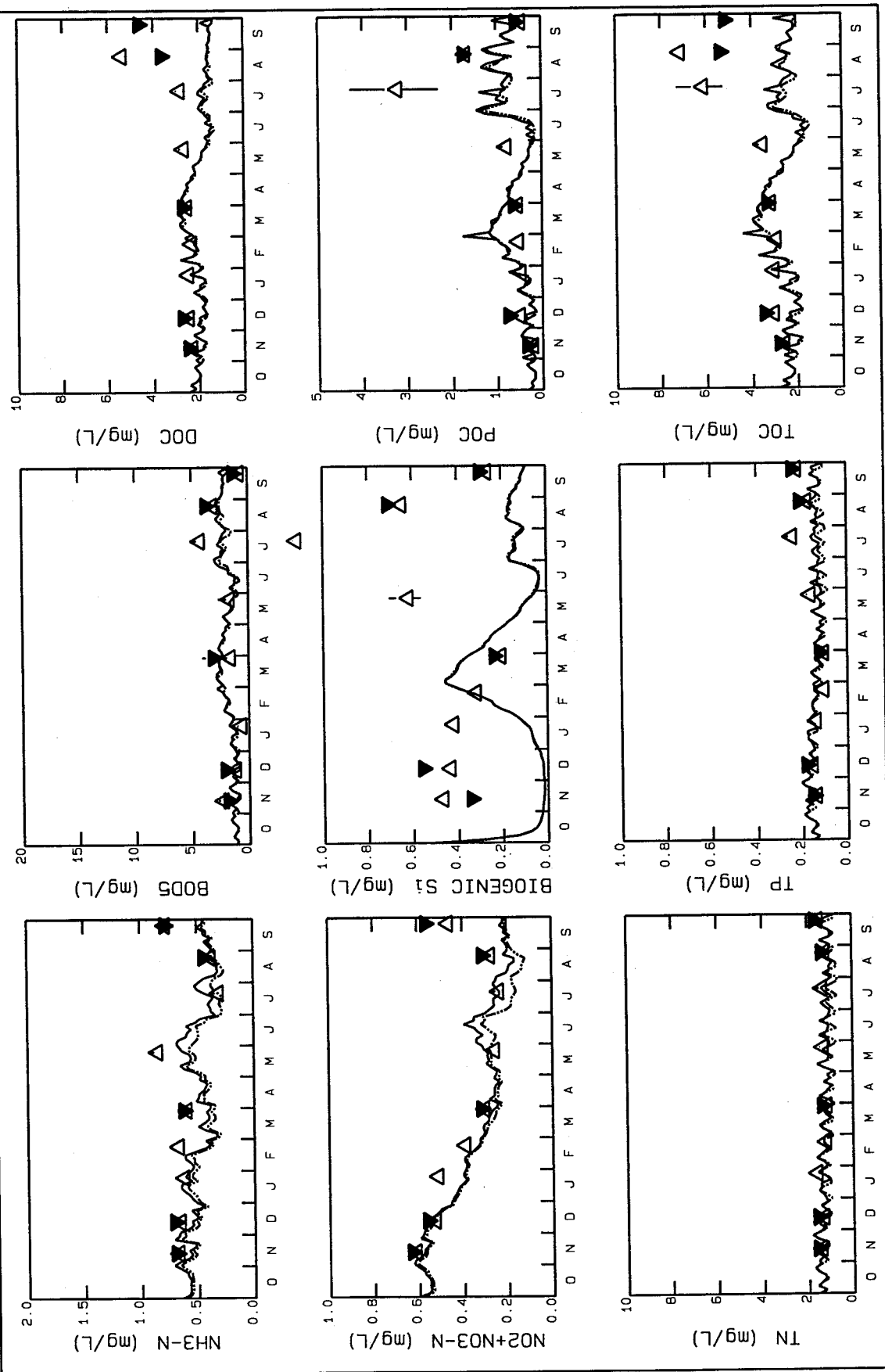
DATE: Thu Apr 30 TIME: 10:38:51

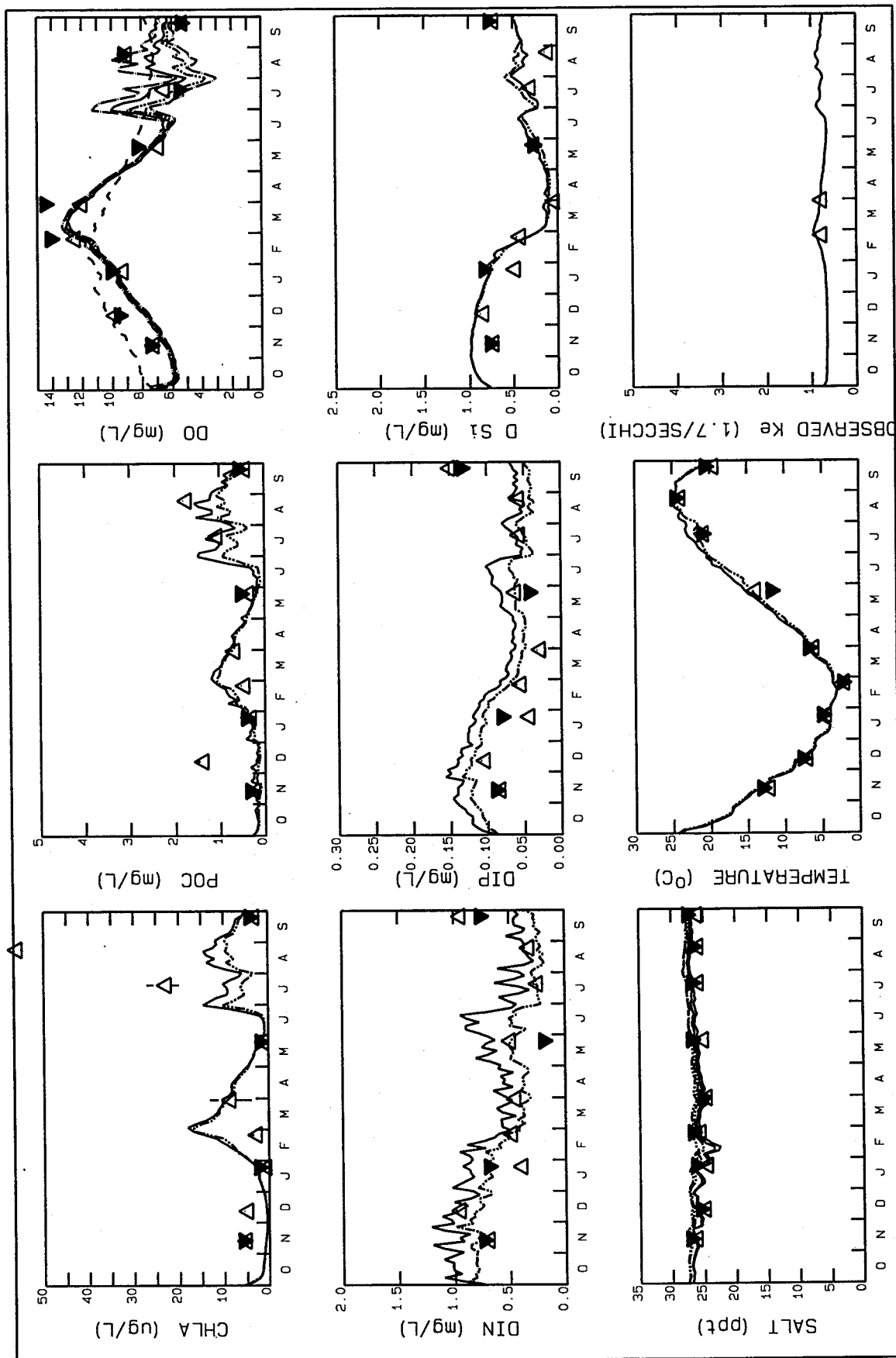
STATION 58 UPPER EAST RIVER-FLUSHING BAY

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:38:51



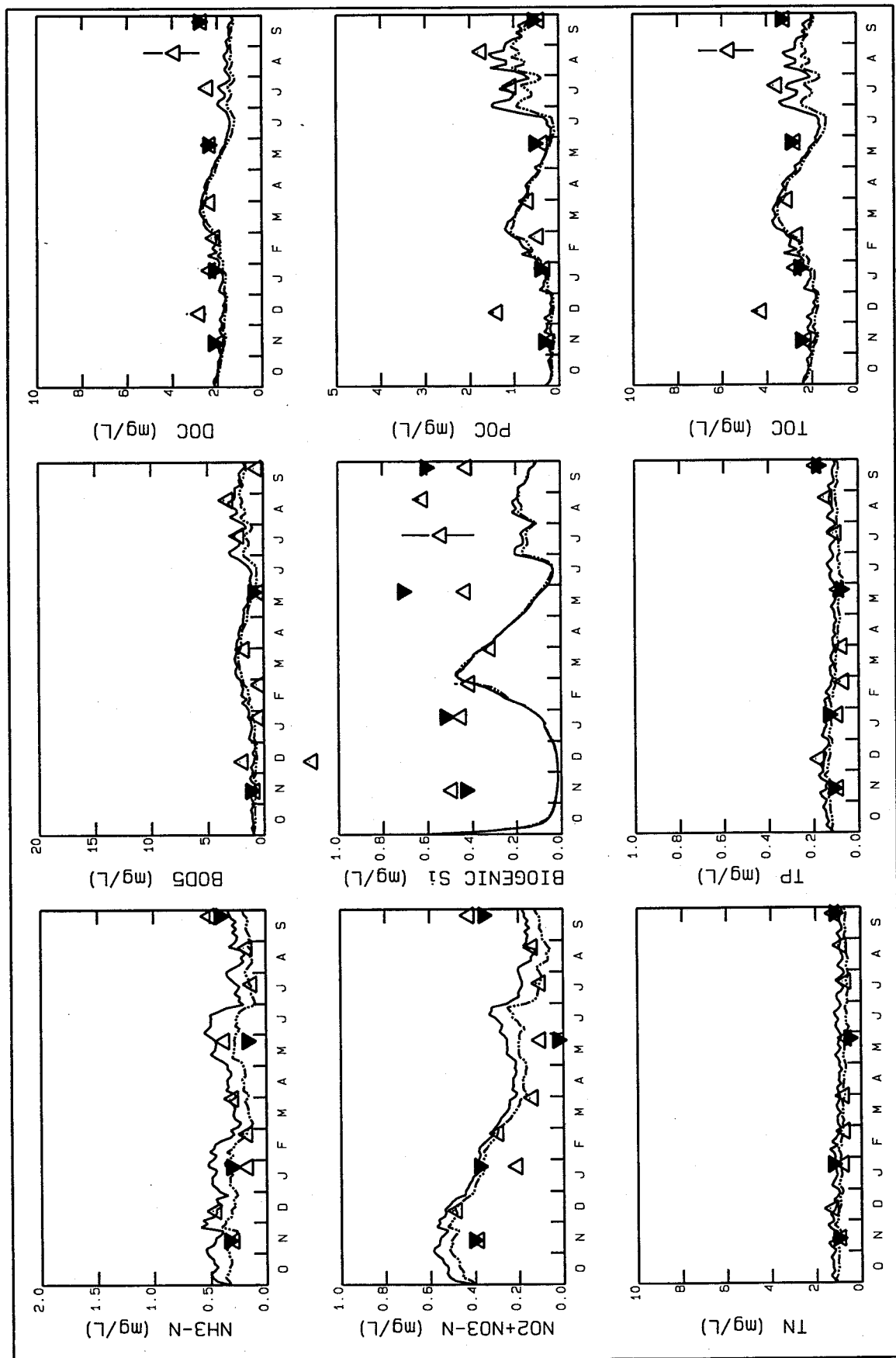


STATION 121 UPPER EAST RIVER-THROGS NECK

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

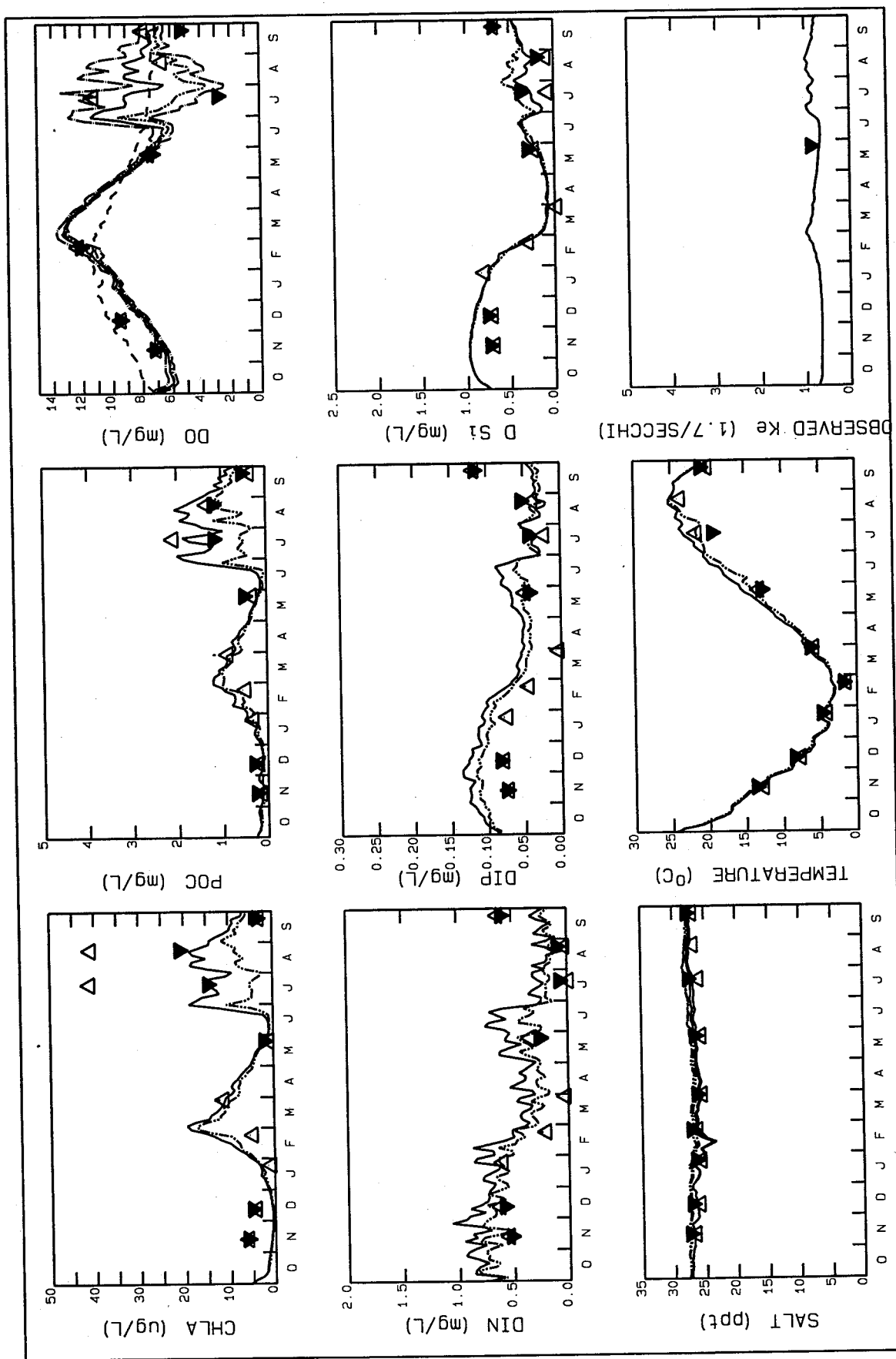
DATE: Thu Apr 30 TIME: 10:39:13



STATION 121 UPPER EAST RIVER-THROGS NECK

SWEM 94-95 CALIBRATION

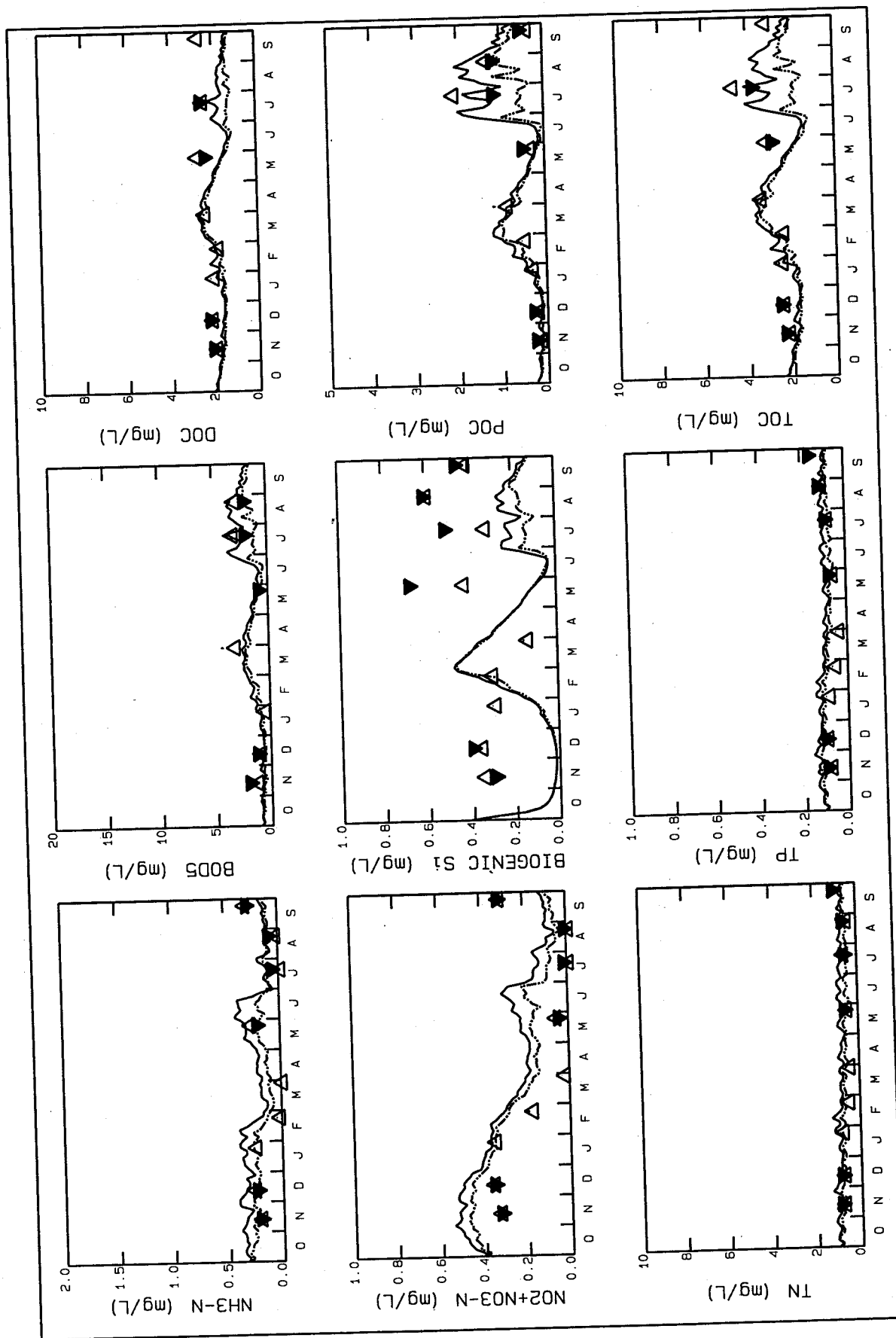
SWEM RUN 9495-BC3



STATION 47 UPPER EAST RIVER-STEPPING STONES

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

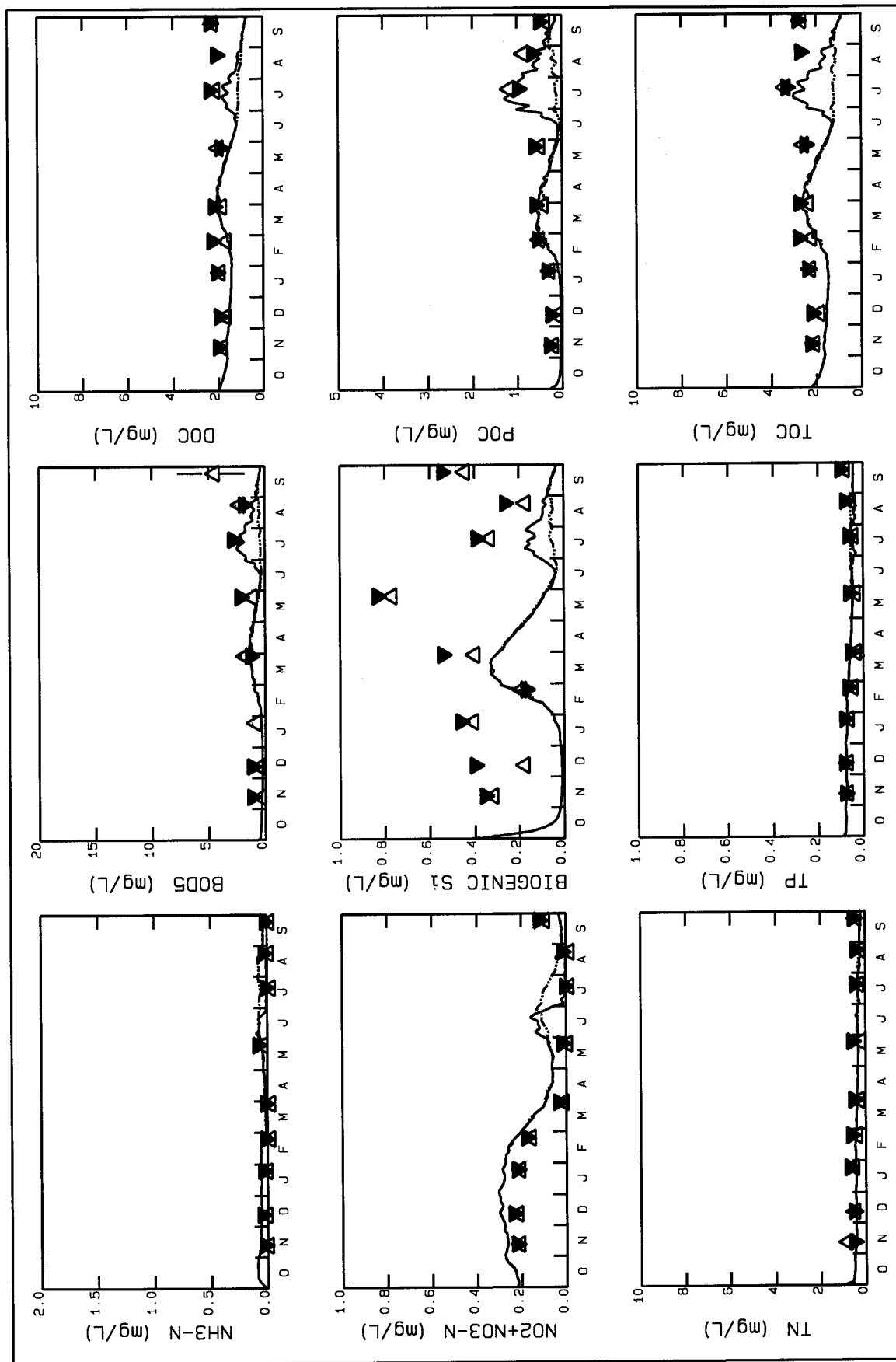


STATION 47 UPPER EAST RIVER-STEPPING STONES

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

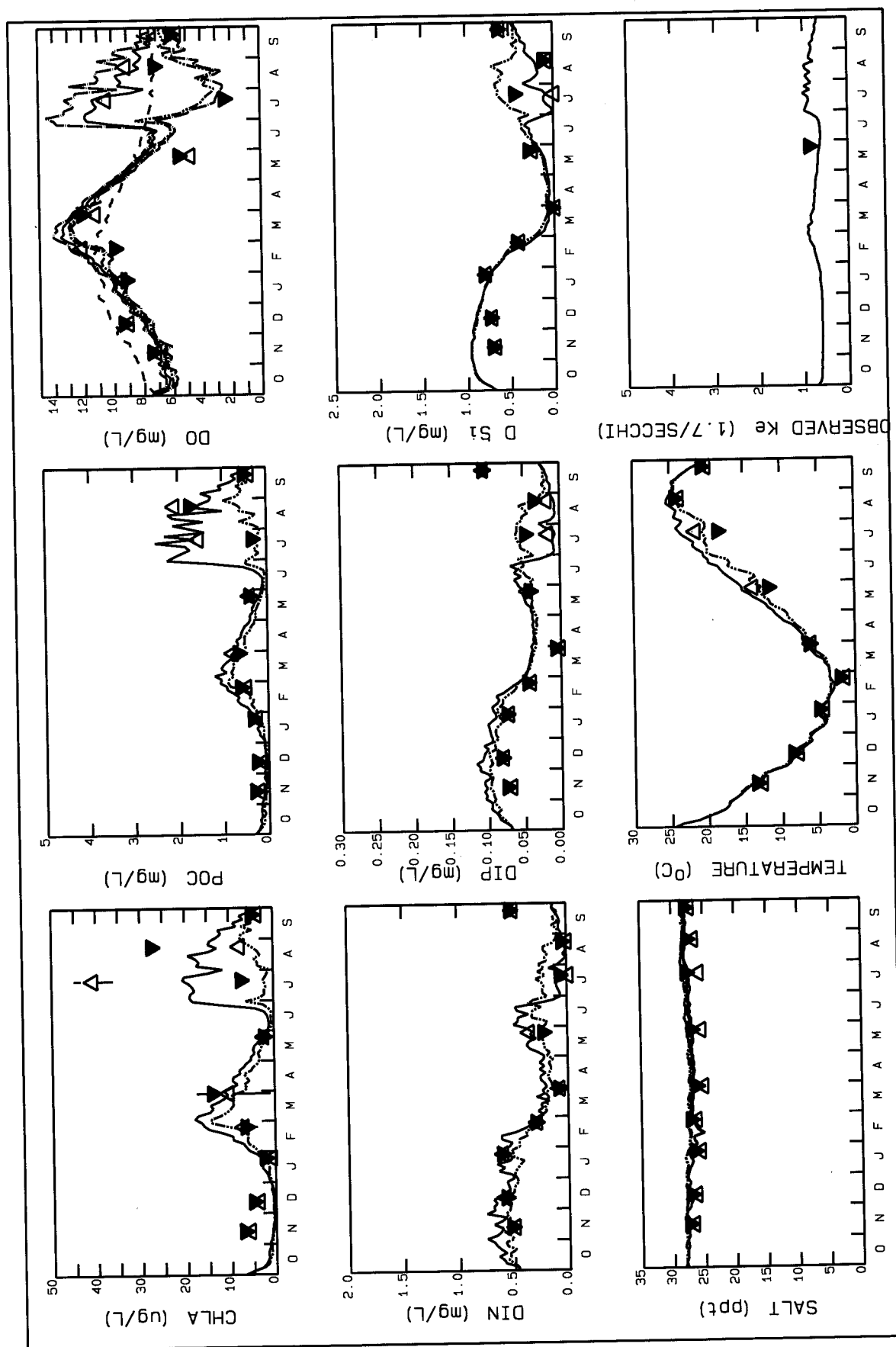
TEMPORAL DISTRIBUTIONS OF LONG ISLAND SOUND



STATION 42 LONG ISLAND SOUND-MP41

SWEM 94-95 CALIBRATION

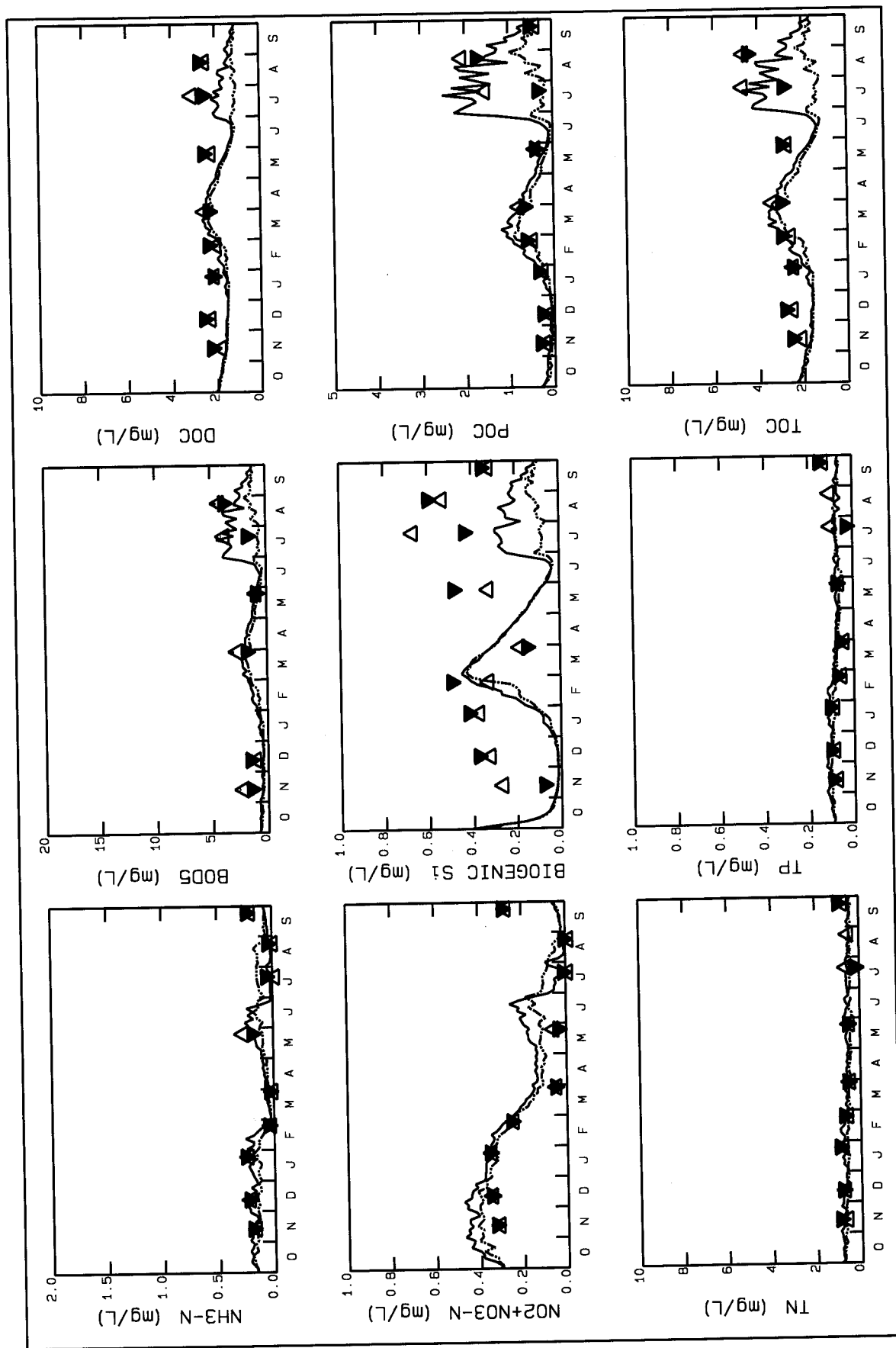
SWEM RUN 9495-BC3



STATION 123 WESTERN LONG ISLAND SOUND-MP23

SWEM 94-95 CALIBRATION

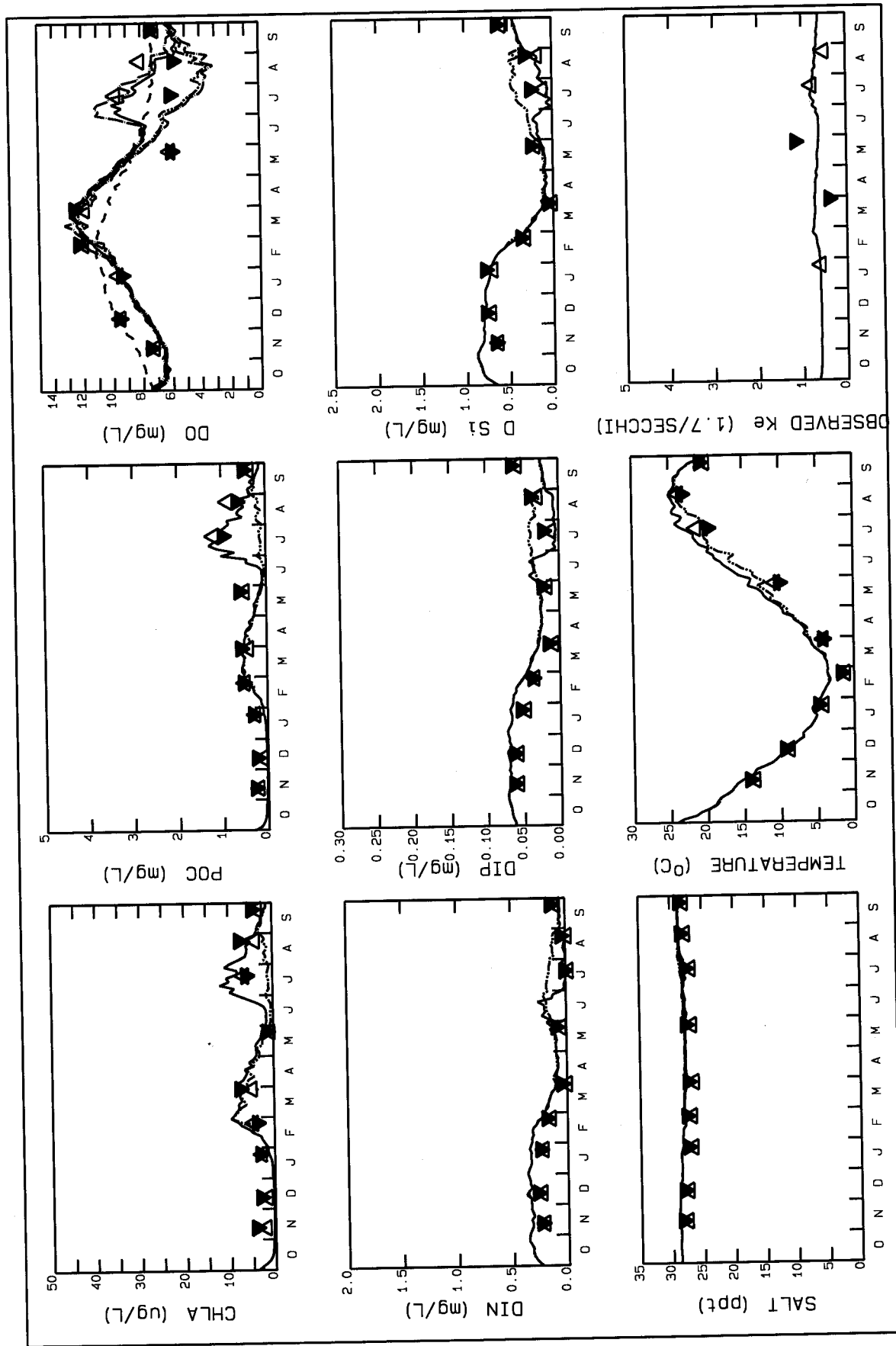
SWEM RUN 9495-BC3



STATION 123 WESTERN LONG ISLAND SOUND-MP23

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

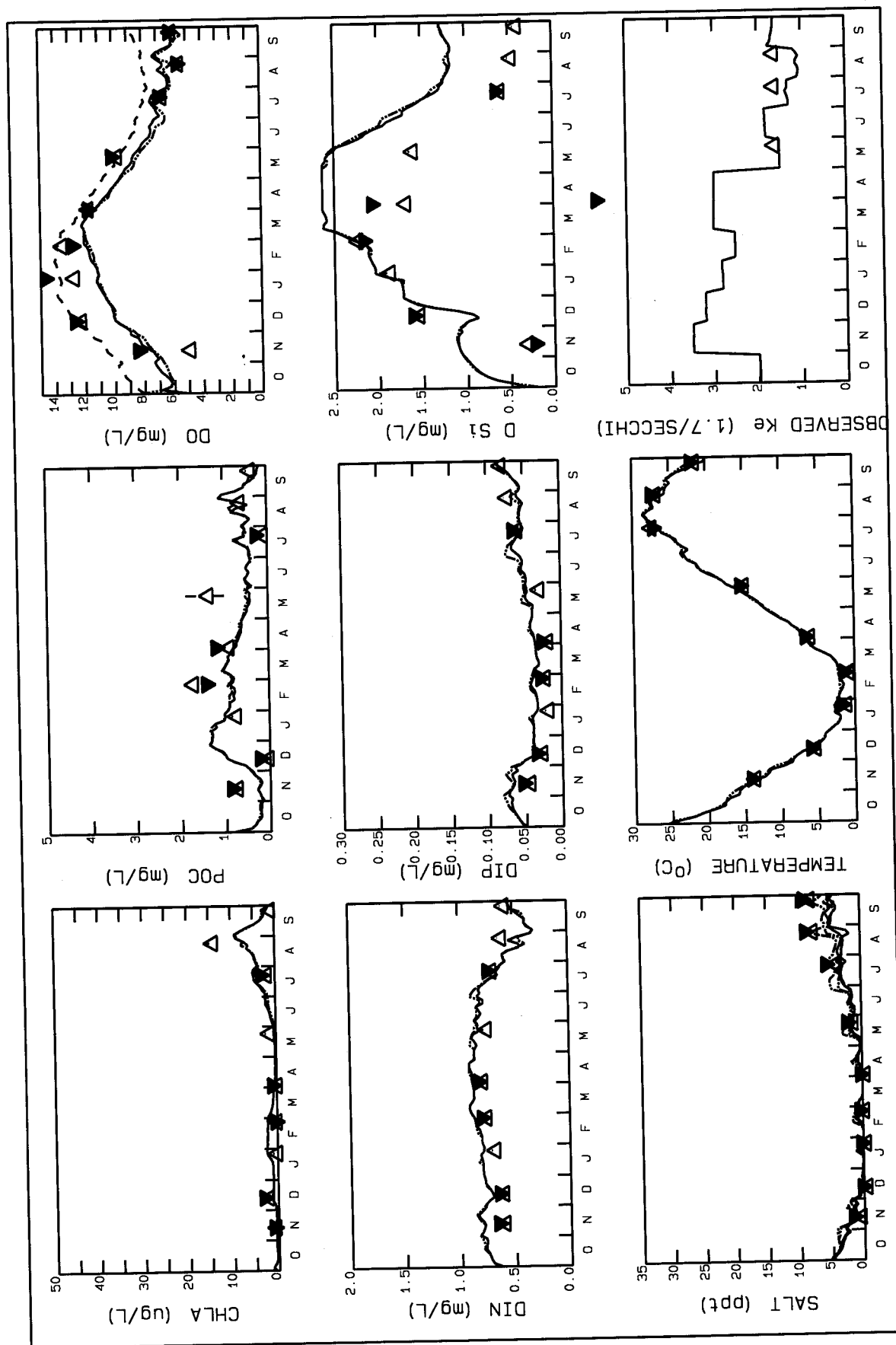


STATION 42 LONG ISLAND SOUND-MP41

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

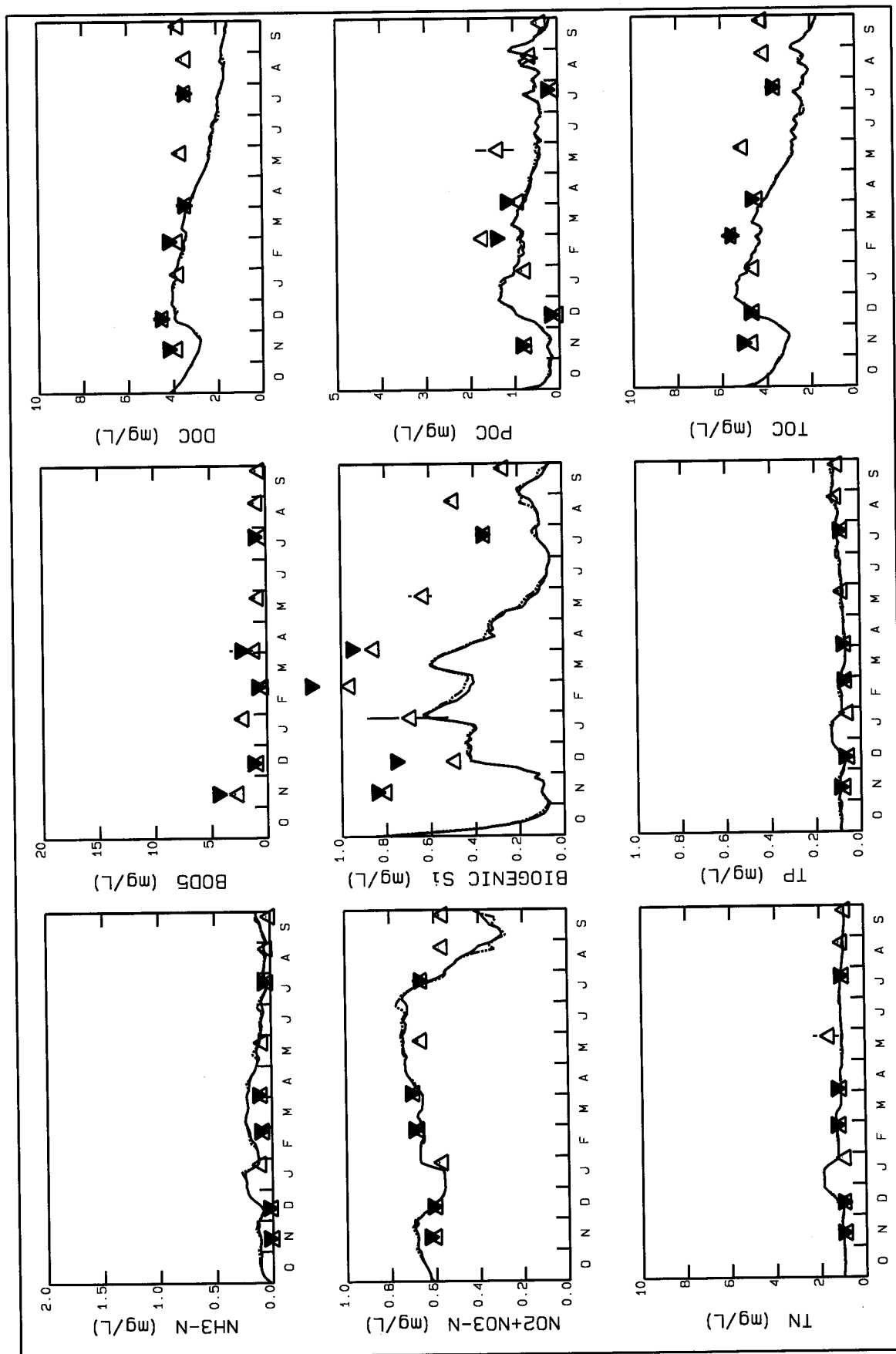
**TEMPORAL DISTRIBUTIONS OF
HUDSON RIVER, UPPER BAY, LOWER BAY**



STATION 164 HUDSON RIVER-ABOVE HAVERSTRAW BAY

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

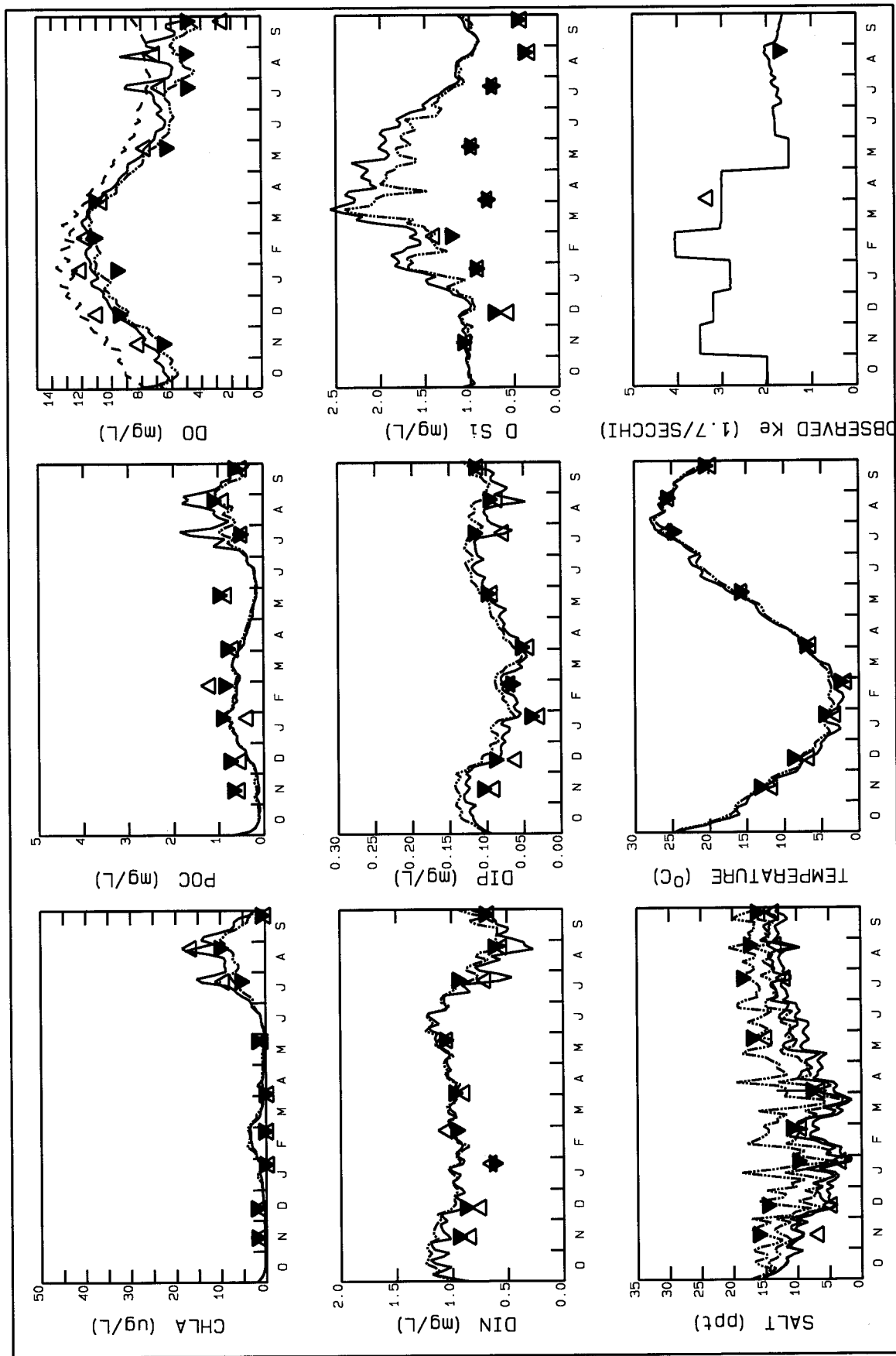


STATION 164 HUDSON RIVER-ABOVE HAVERSTRAW BAY

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

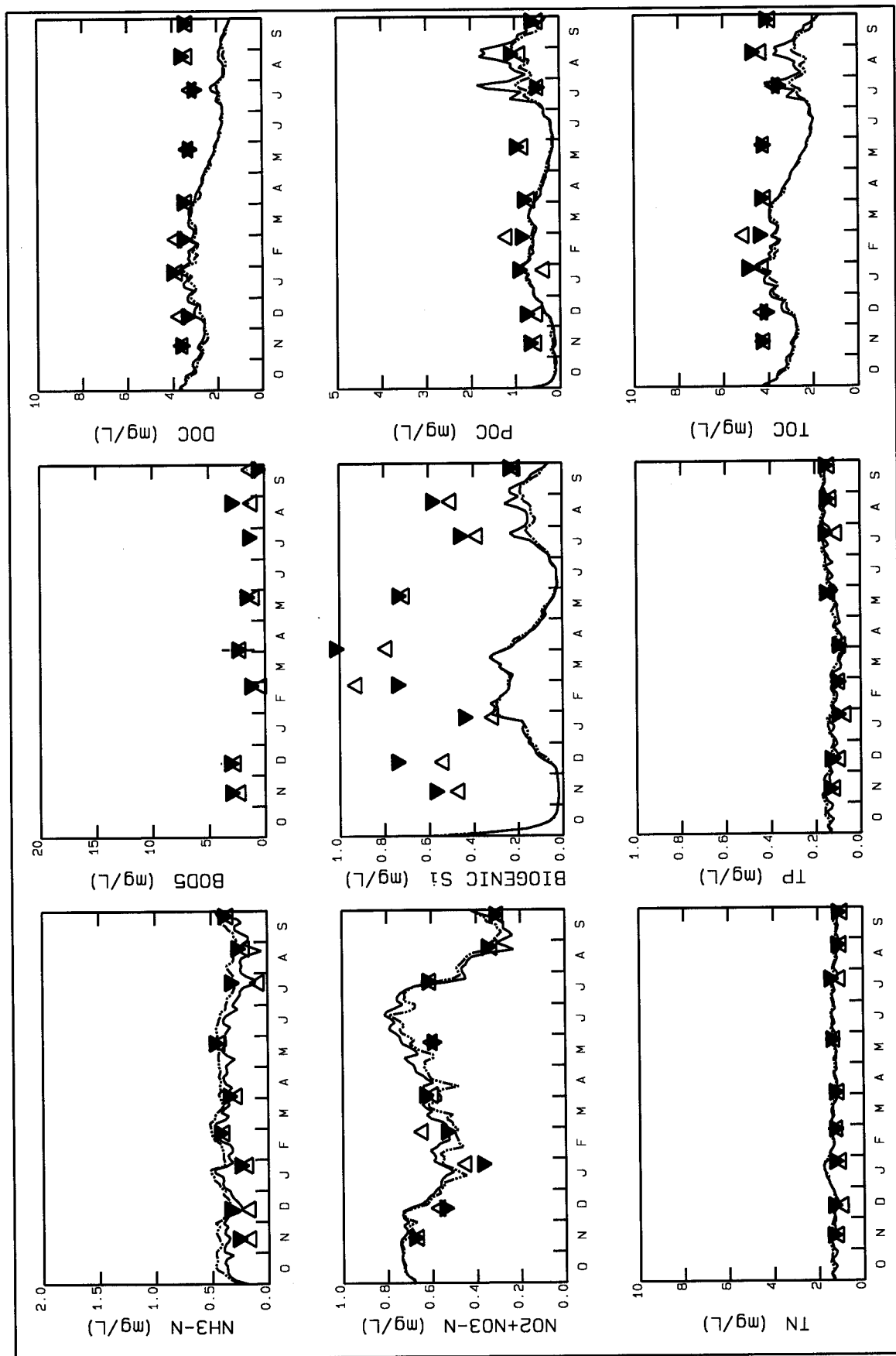
DATE: Thu Apr 30 TIME: 10:31:29



STATION 130 HUDSON RIVER-MT ST VINCENT

SWEM RUN 9495-BC3

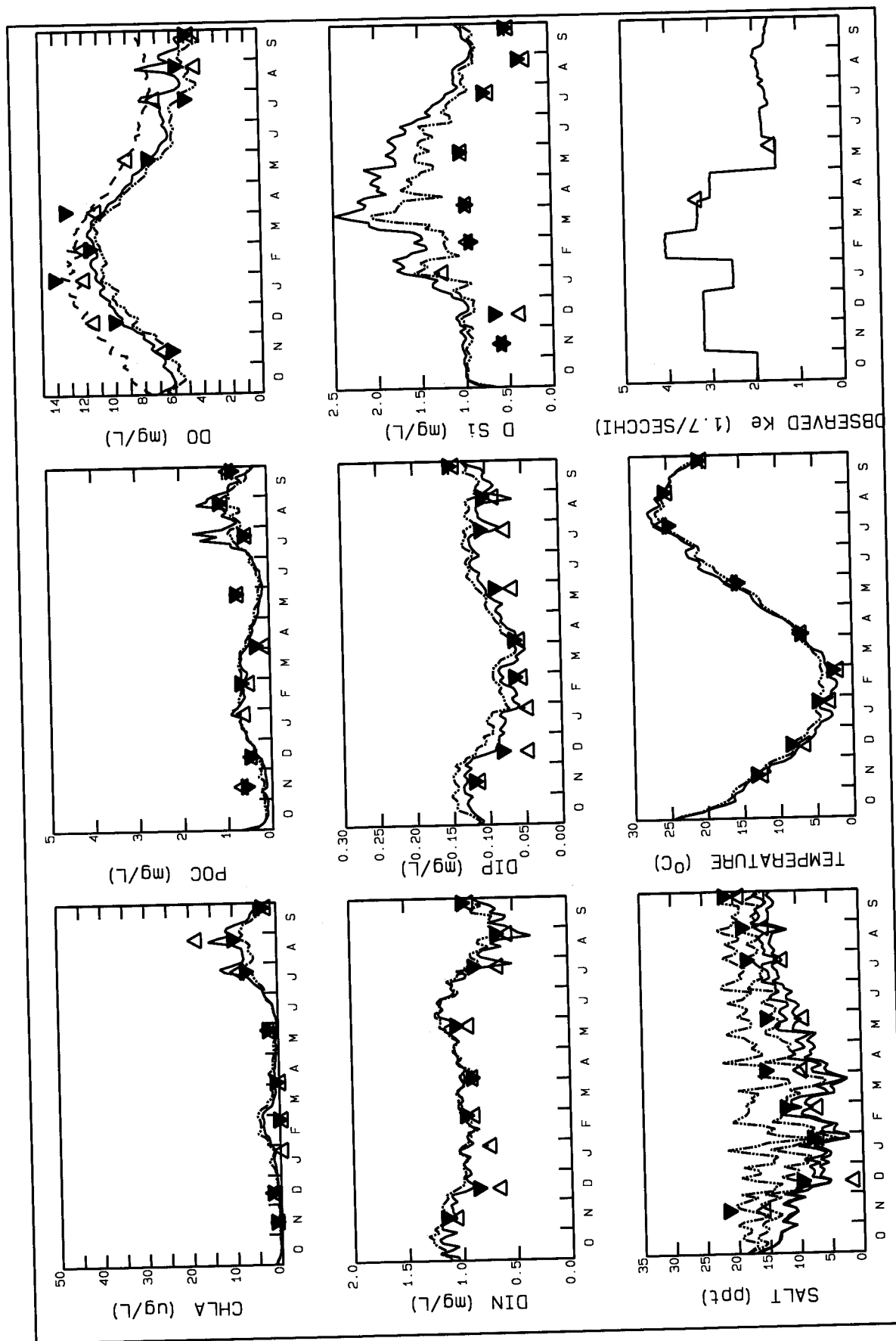
SWEM 94-95 CALIBRATION



STATION 130 HUDSON RIVER-MT ST VINCENT

SWEM 94-95 CALIBRATION

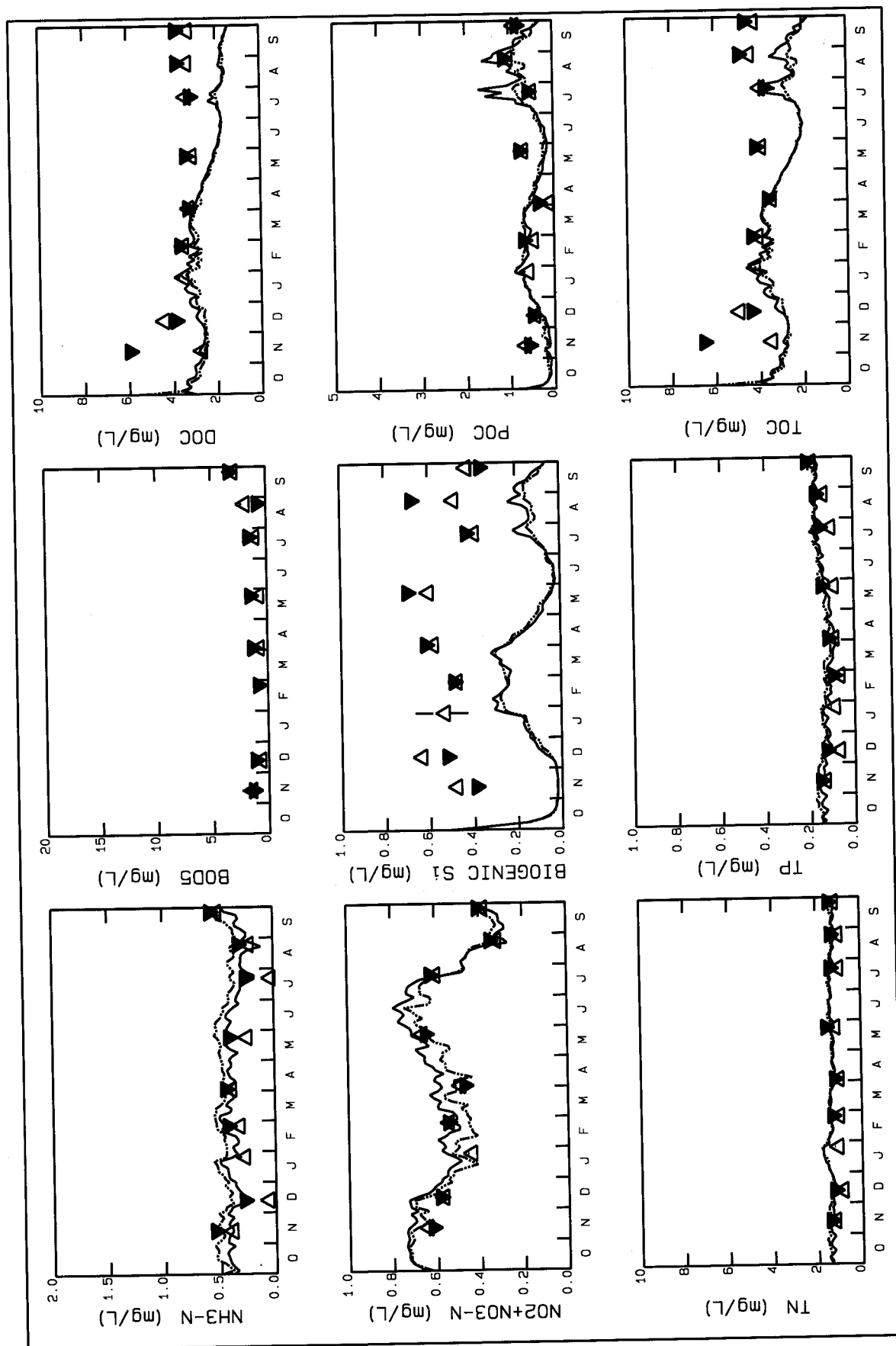
SWEM RUN 9495-BC3



STATION 135 HUDSON RIVER-SPUYTEN DUYVIL

SWEM 94-95 CALIBRATION

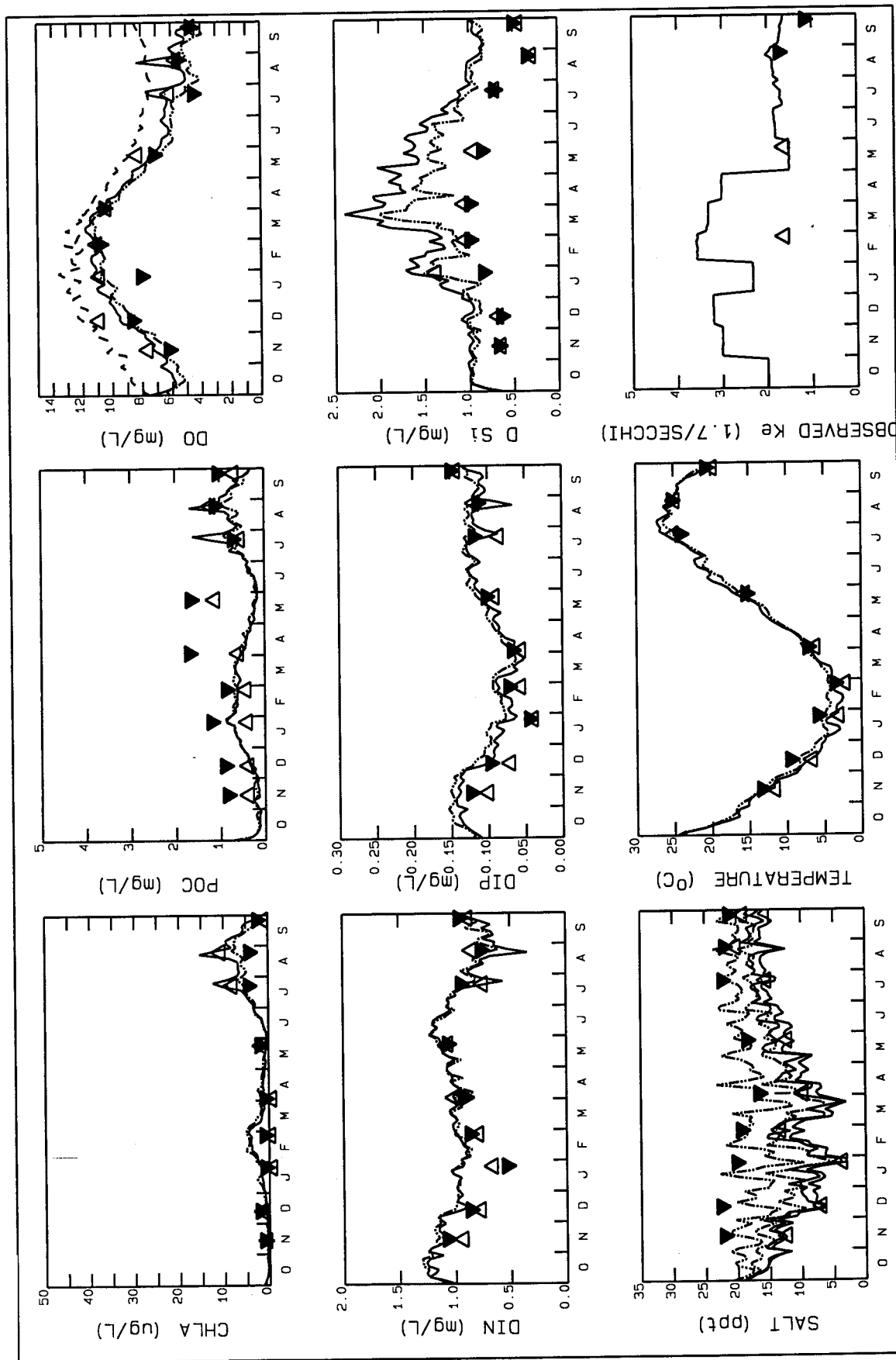
SWEM RUN 9495-BC3



STATION 135 HUDSON RIVER-SPUYTEN DUYVIL

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3



STATION 139 HUDSON RIVER-125th STREET

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

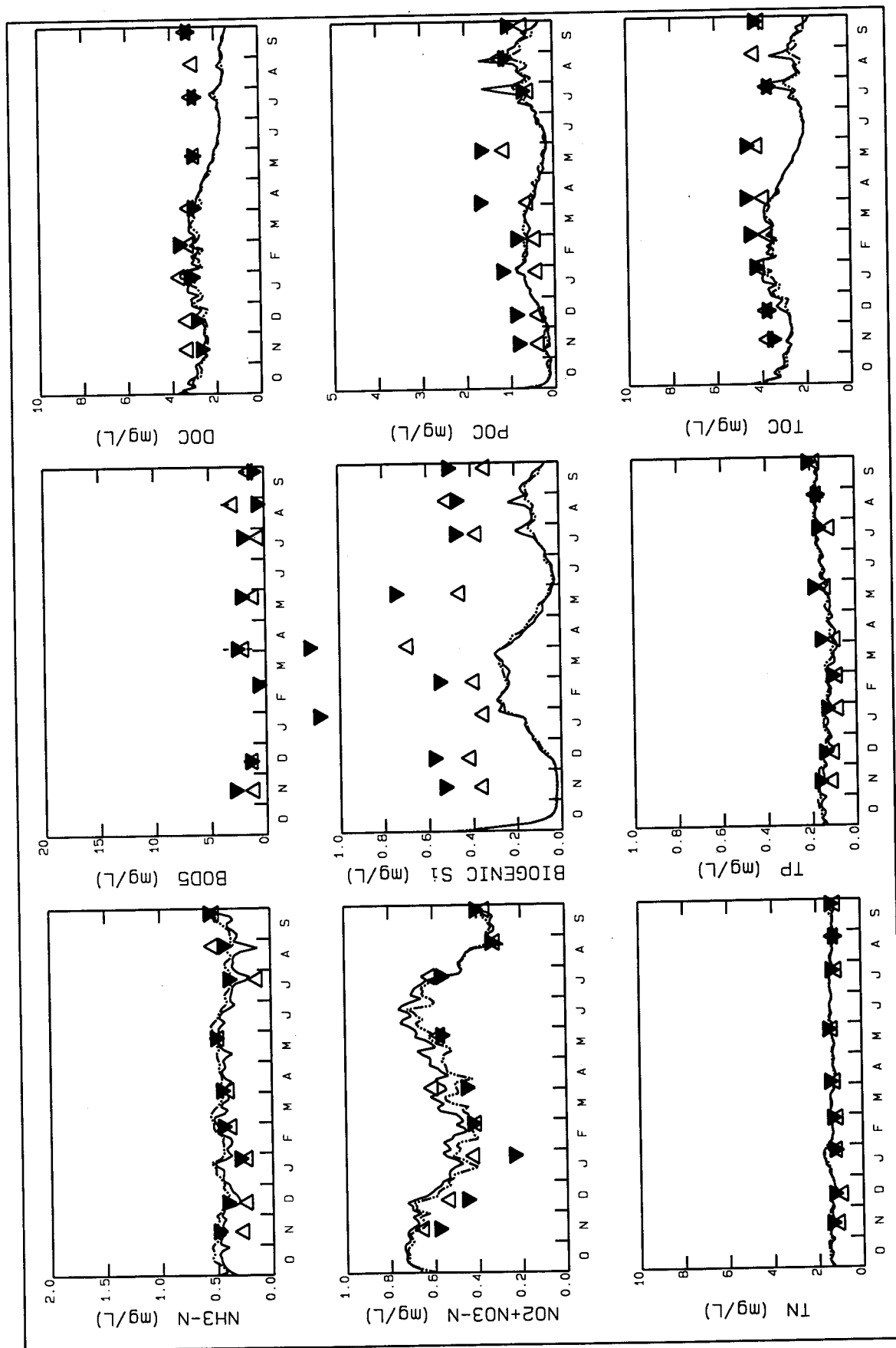
DATE: Thu Apr 29 TIME: 14:17:39

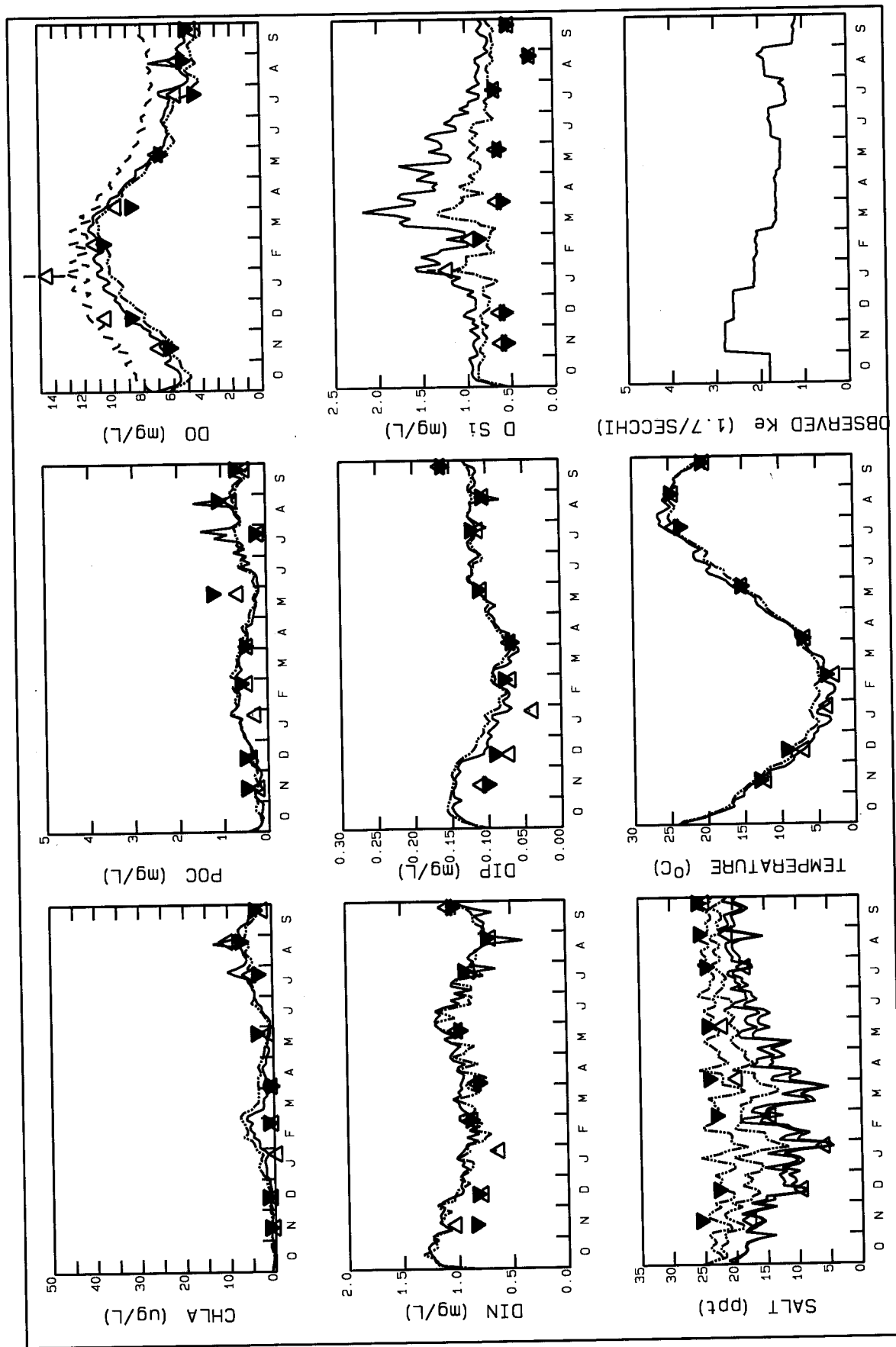
STATION 139 HUDSON RIVER-125th STREET

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 29 TIME: 14:17:39

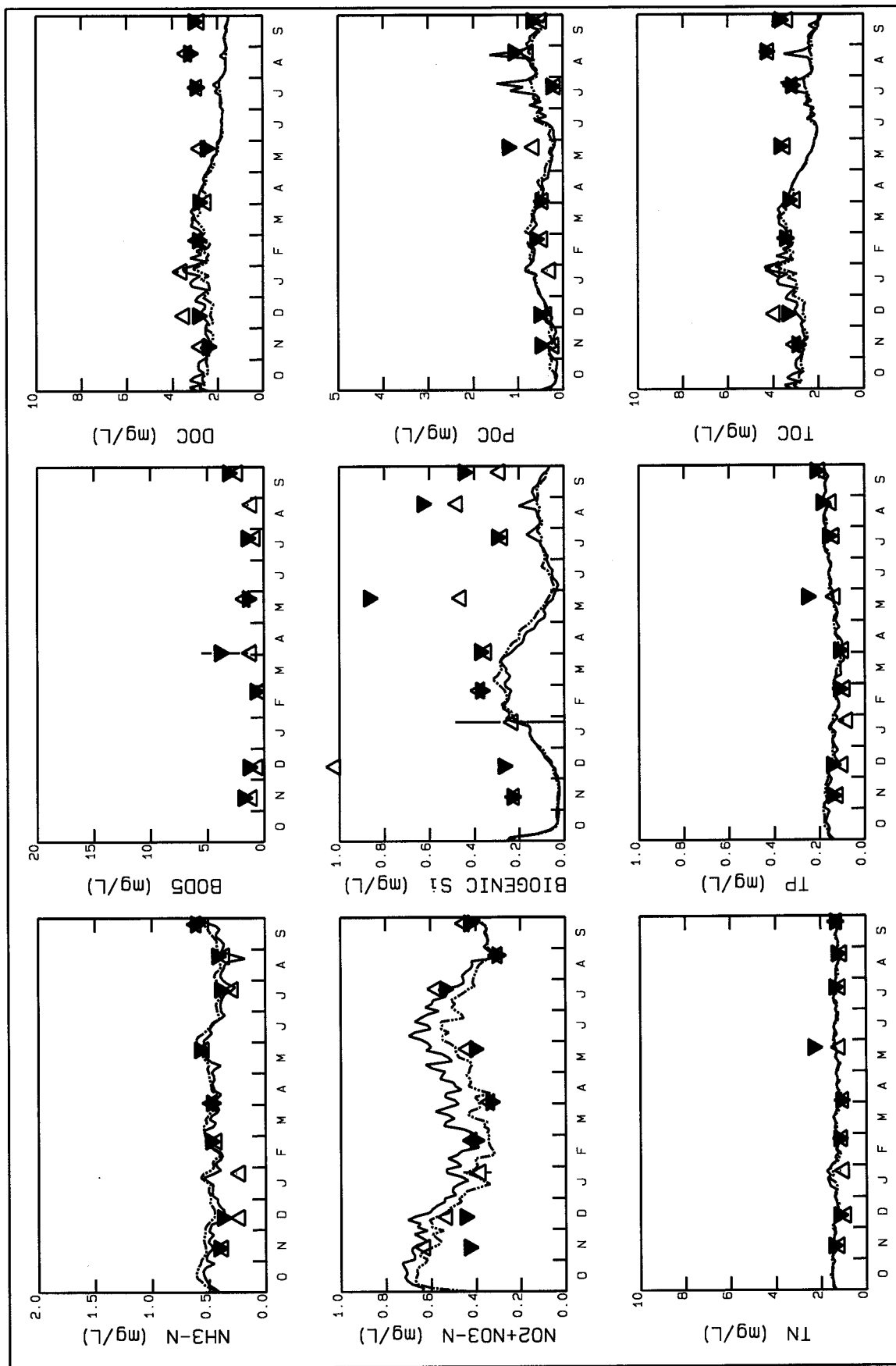




STATION 141 HUDSON RIVER-42nd STREET

SWEM 94-95 CALIBRATION

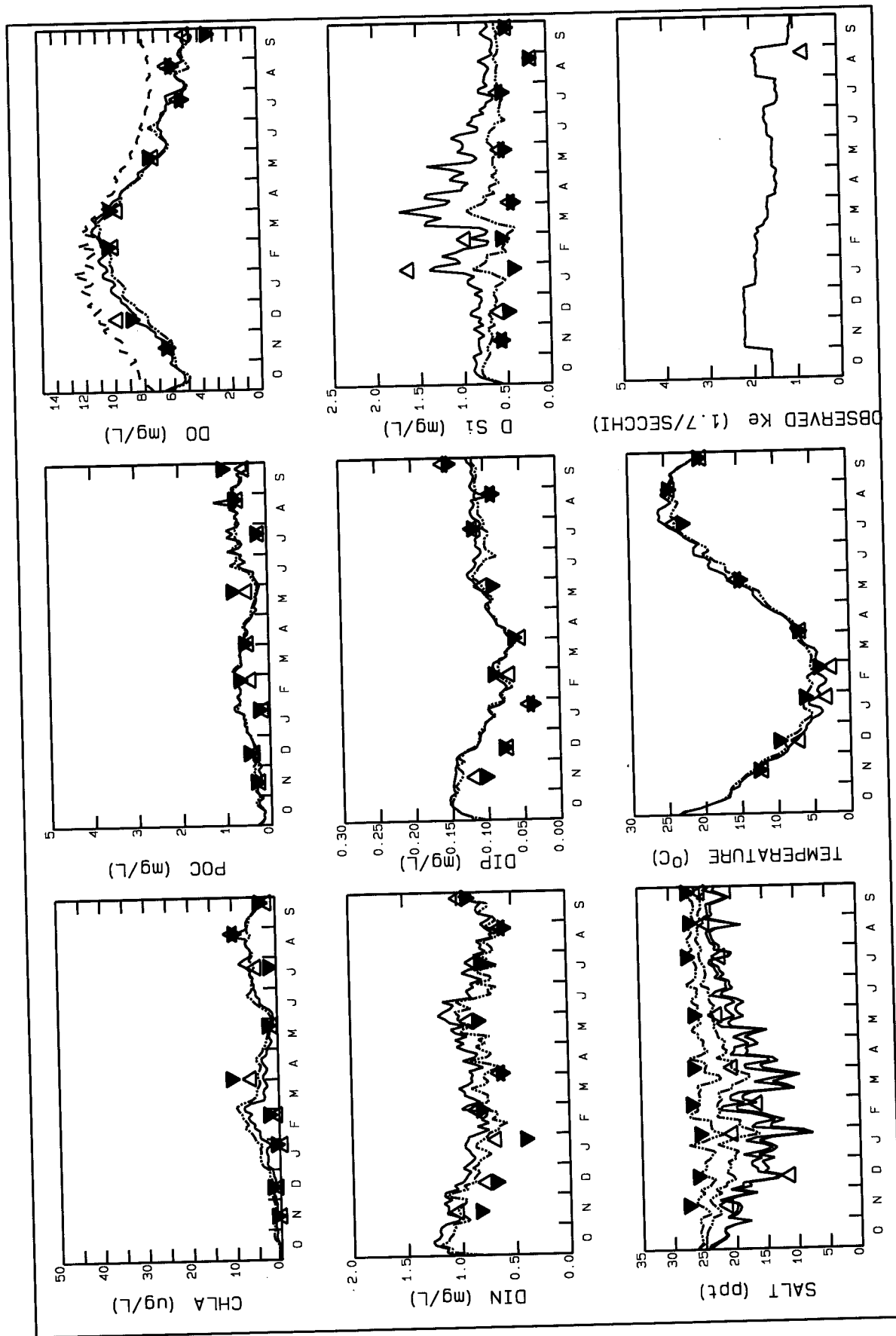
SWEM RUN 9495-BC3



STATION 141 HUDSON RIVER-42nd STREET

SWEM 94-95 CALIBRATION

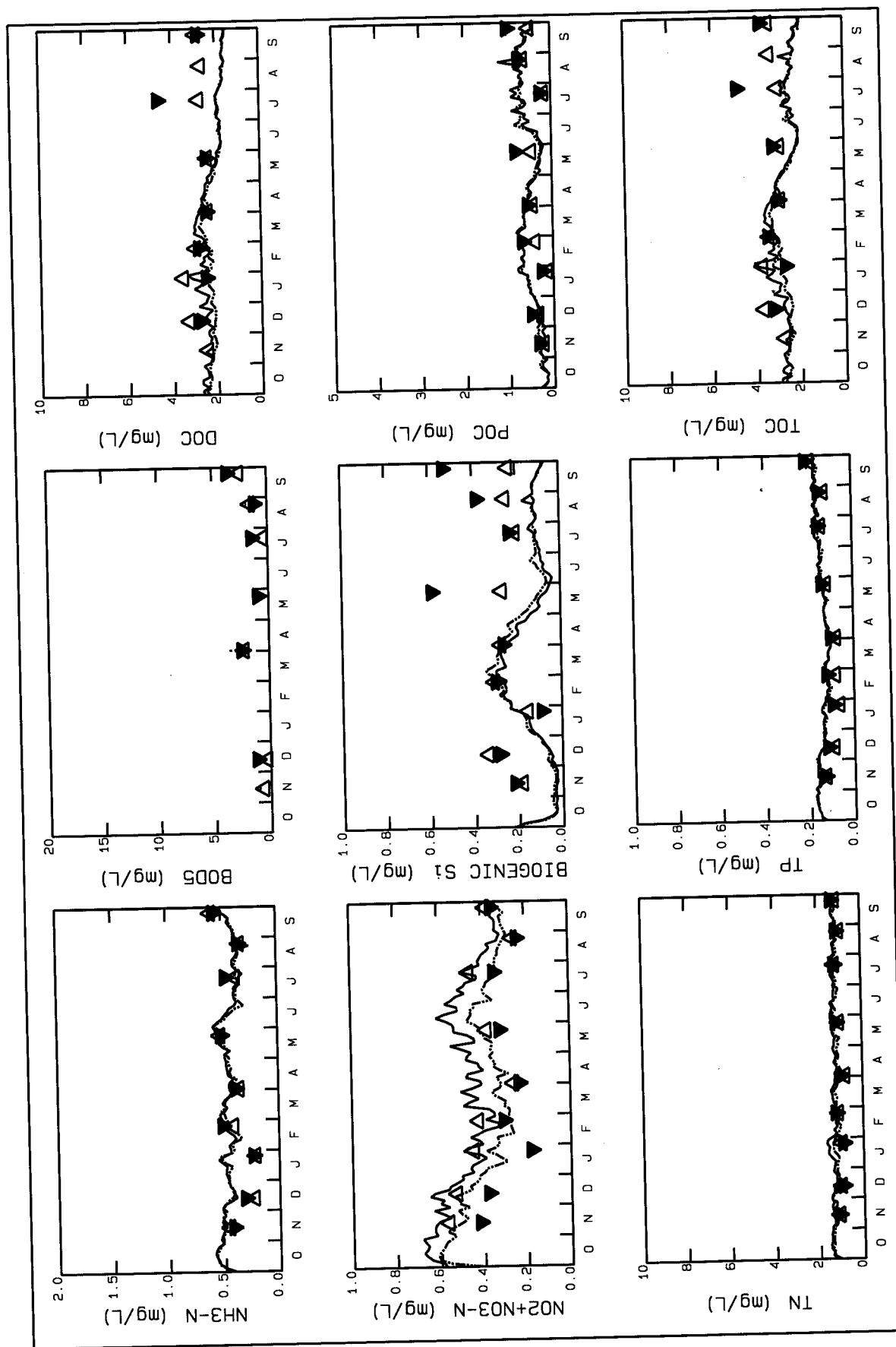
SWEM RUN 9495-BC3



STATION 143 THE BATTERY

SWEM 94-95 CALIBRATION

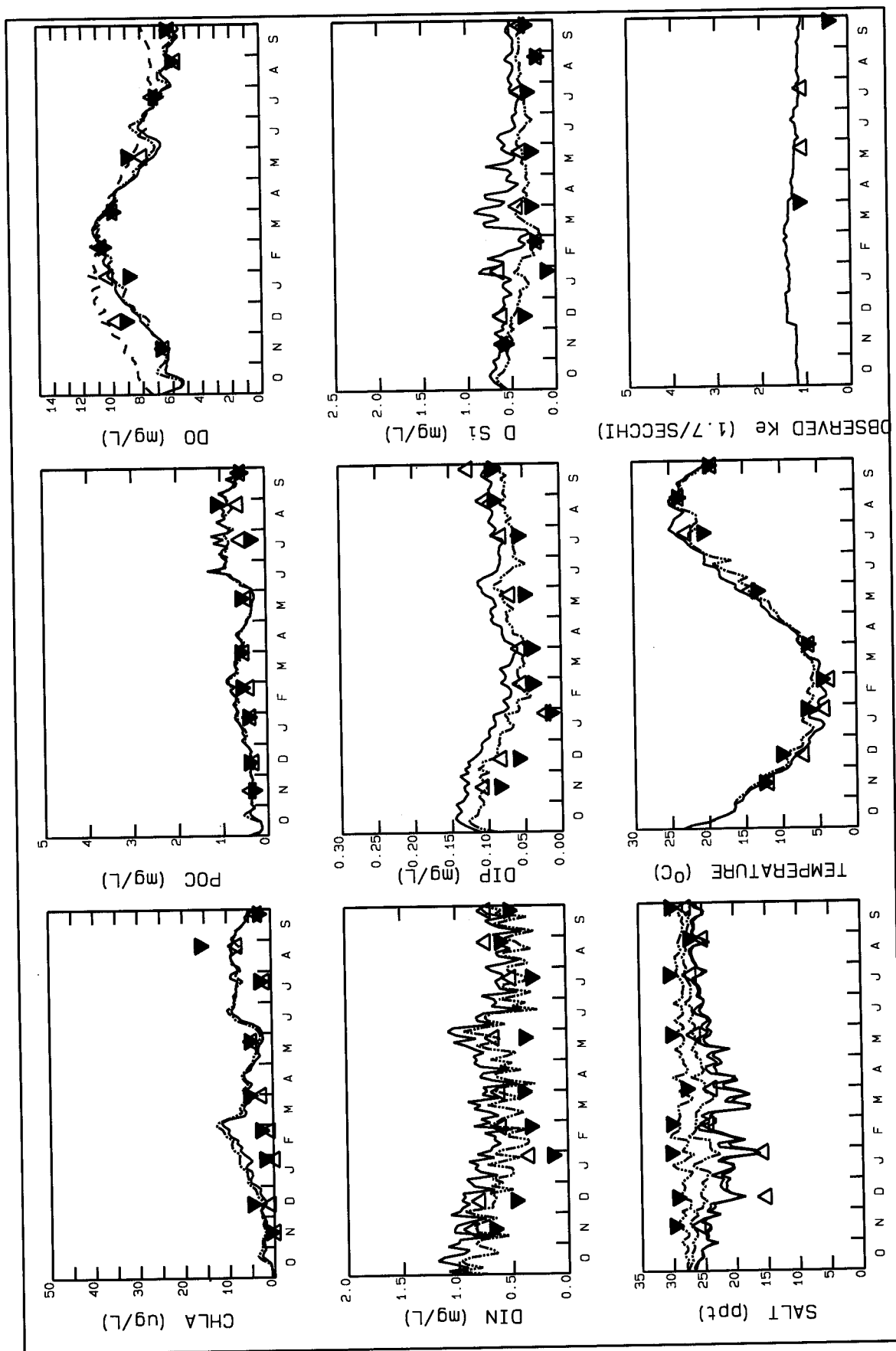
SWEM RUN 9495-BC3



STATION 143 THE BATTERY

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

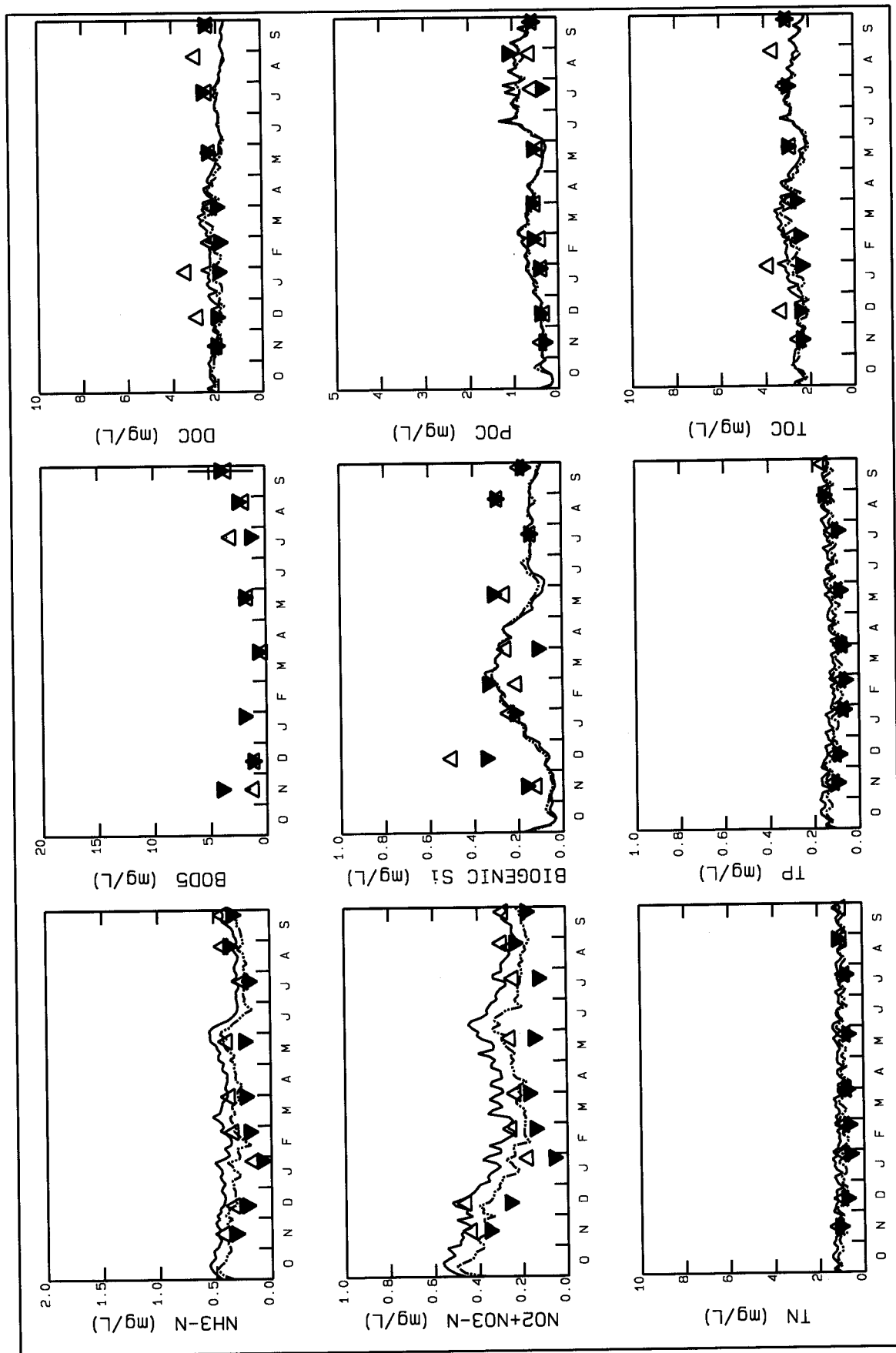


STATION 146 THE NARROWS

SWEM 94-95 CALIBRATION

SWEM RUN 9495-8C3

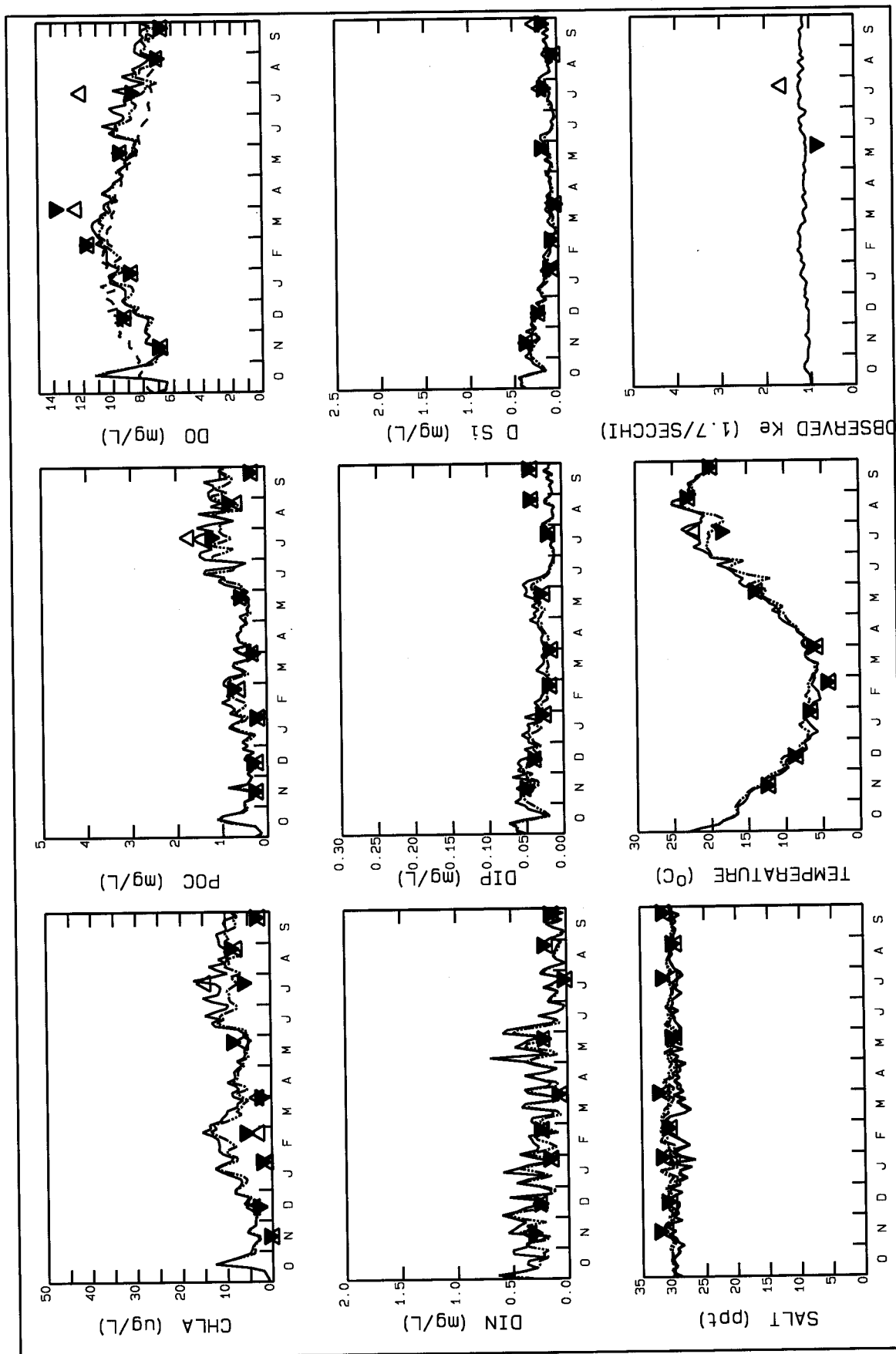
DATE: Thu Apr 30 TIME: 10:33:42



STATION 146 THE NARROWS

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

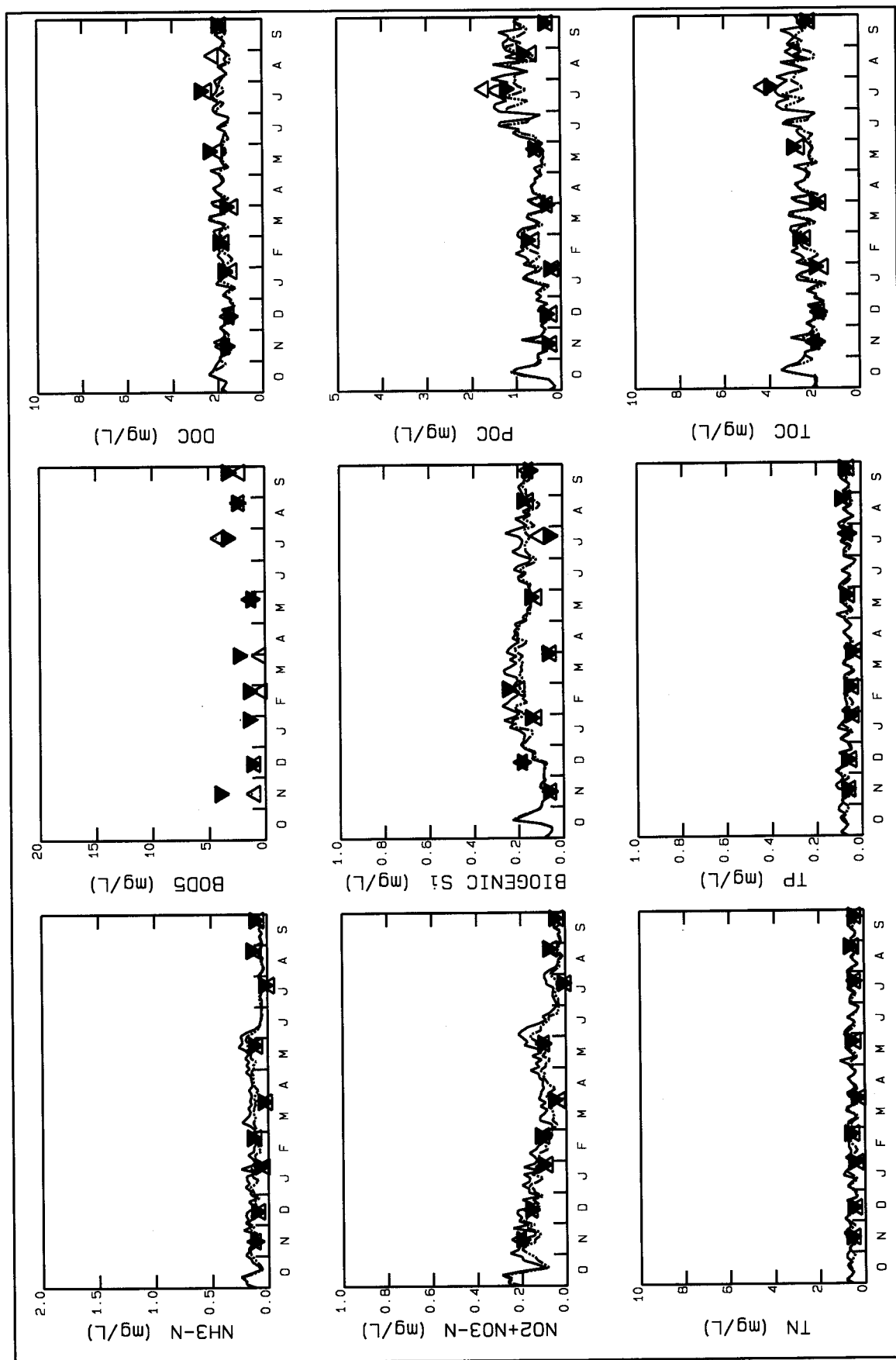


STATION 167 LOWER BAY-ROCKAWAY POINT

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:34:04



STATION 167 LOWER BAY-ROCKAWAY POINT

SWEM RUN 9495-BC3

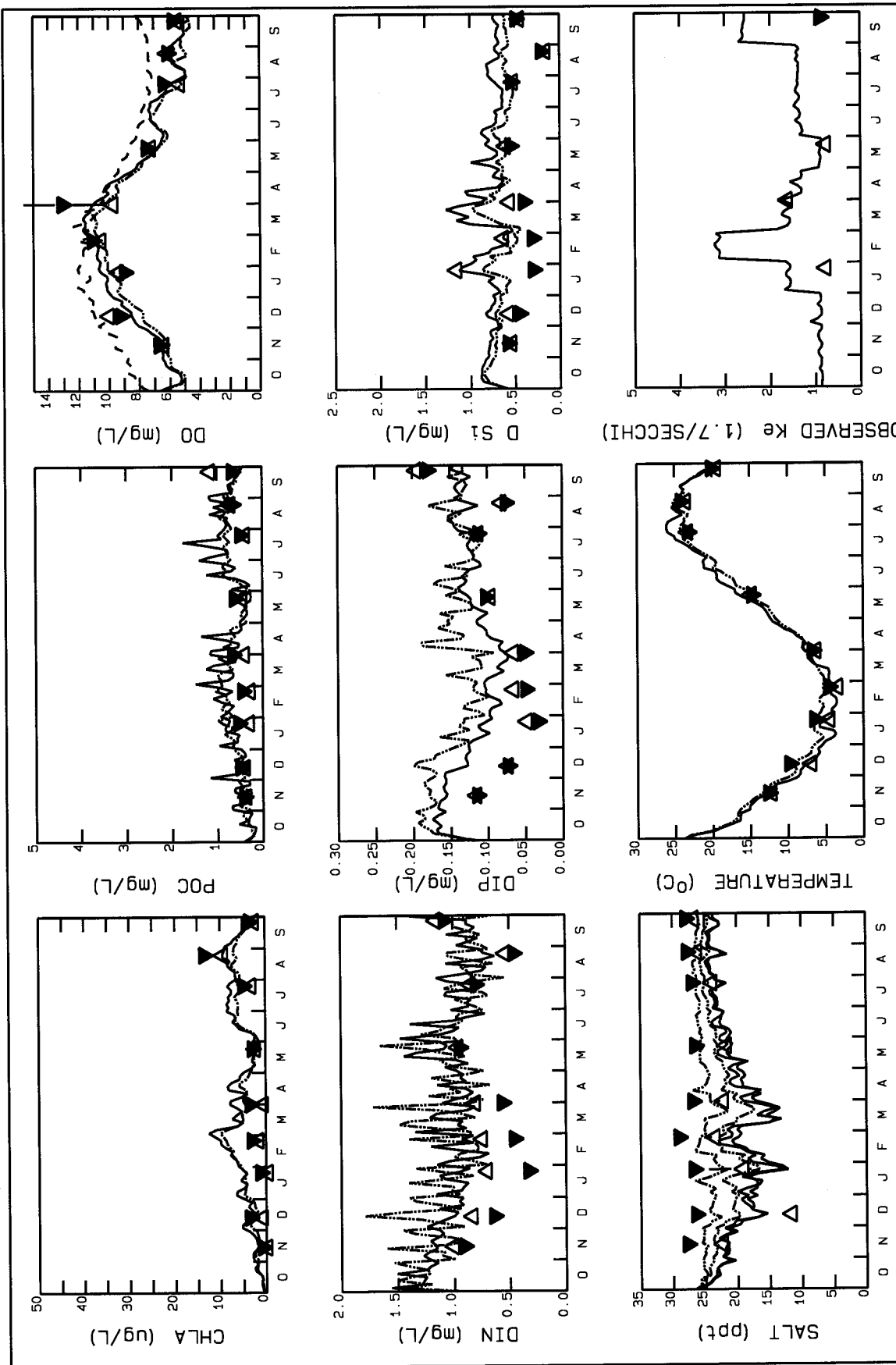
SWEM 94-95 CALIBRATION

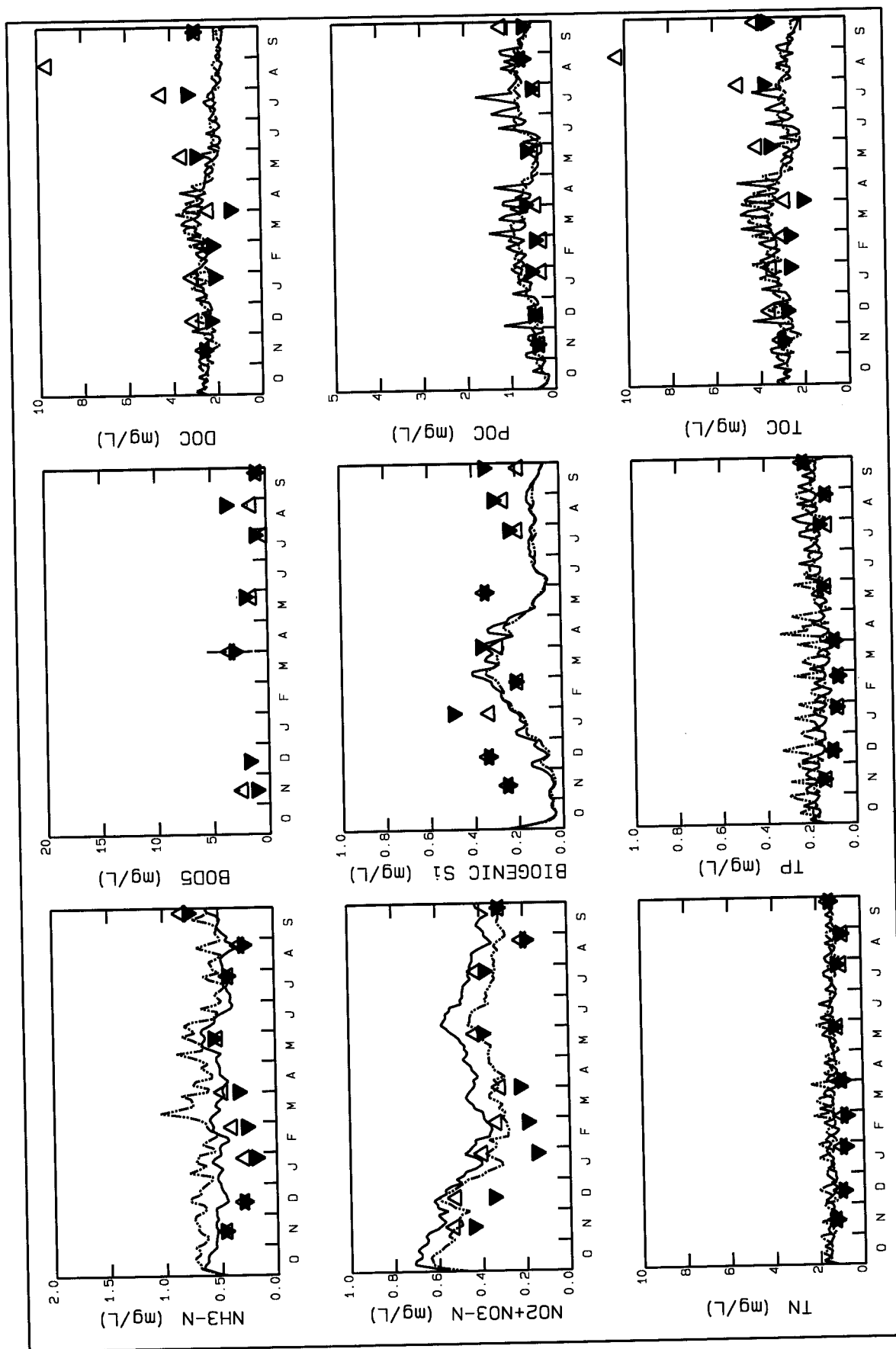
STATION 144 UPPER BAY-ROBBINS REEF

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:41:24



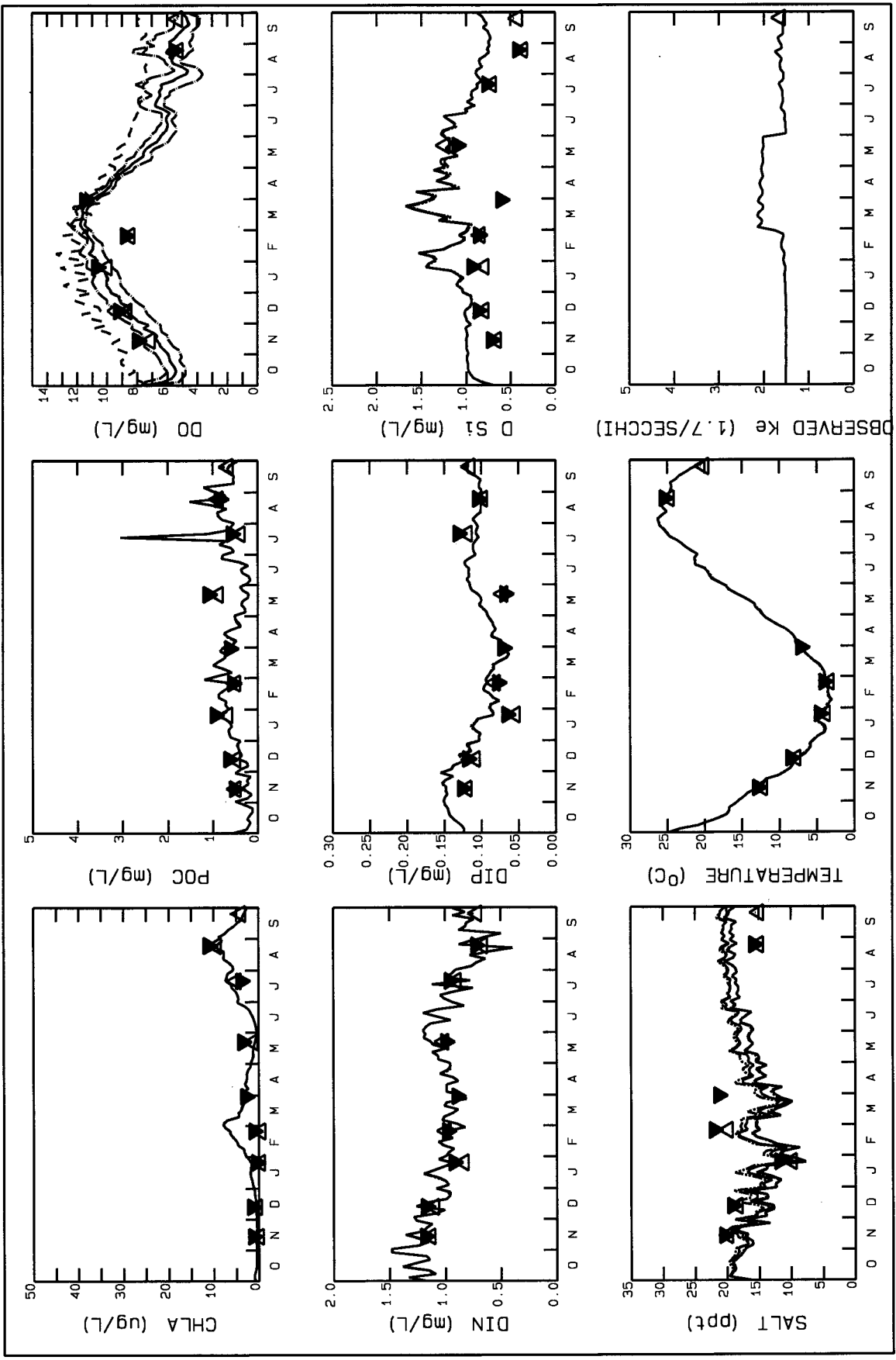


STATION 144 UPPER BAY-ROBBINS REEF

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

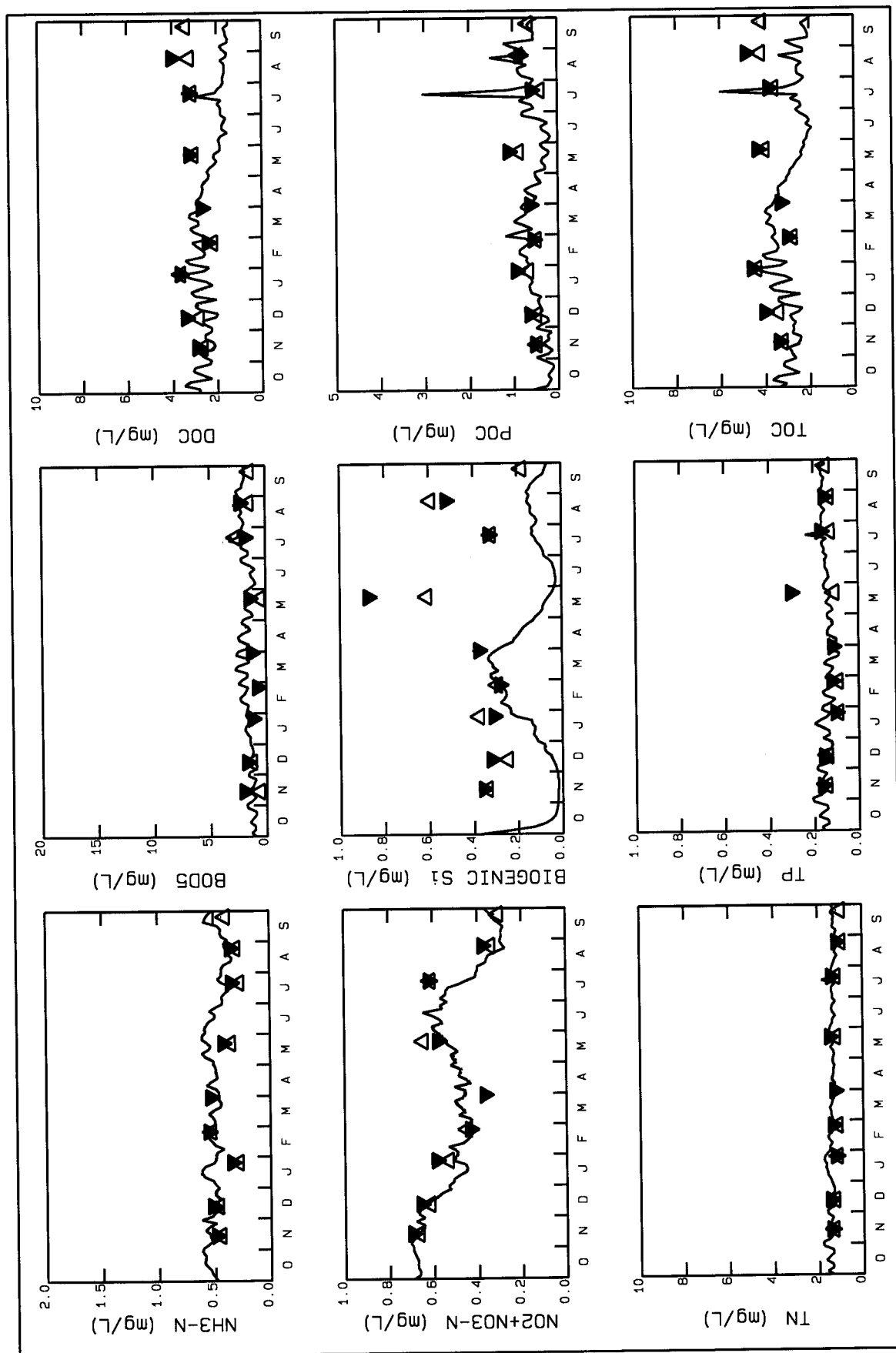
TEMPORAL DISTRIBUTIONS OF HARLEM RIVER



STATION 74 HARLEM RIVER-155th STREET

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3



STATION 74 HARLEM RIVER-155th STREET

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

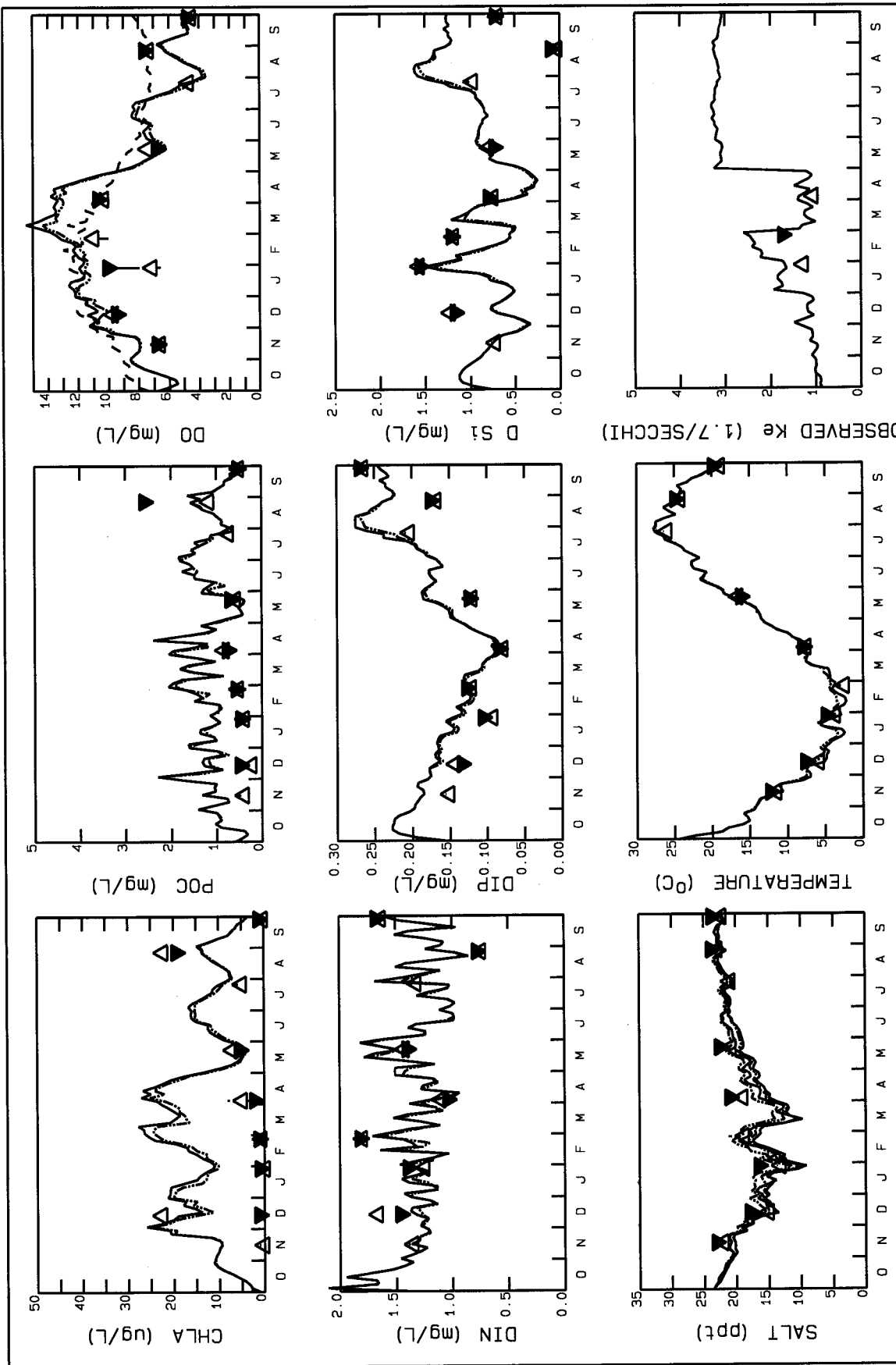
**TEMPORAL DISTRIBUTIONS OF
NEWARK BAY, KILL VAN KULL, ARTHUR KILL**

STATION 158 NEWARK BAY-

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:43:10

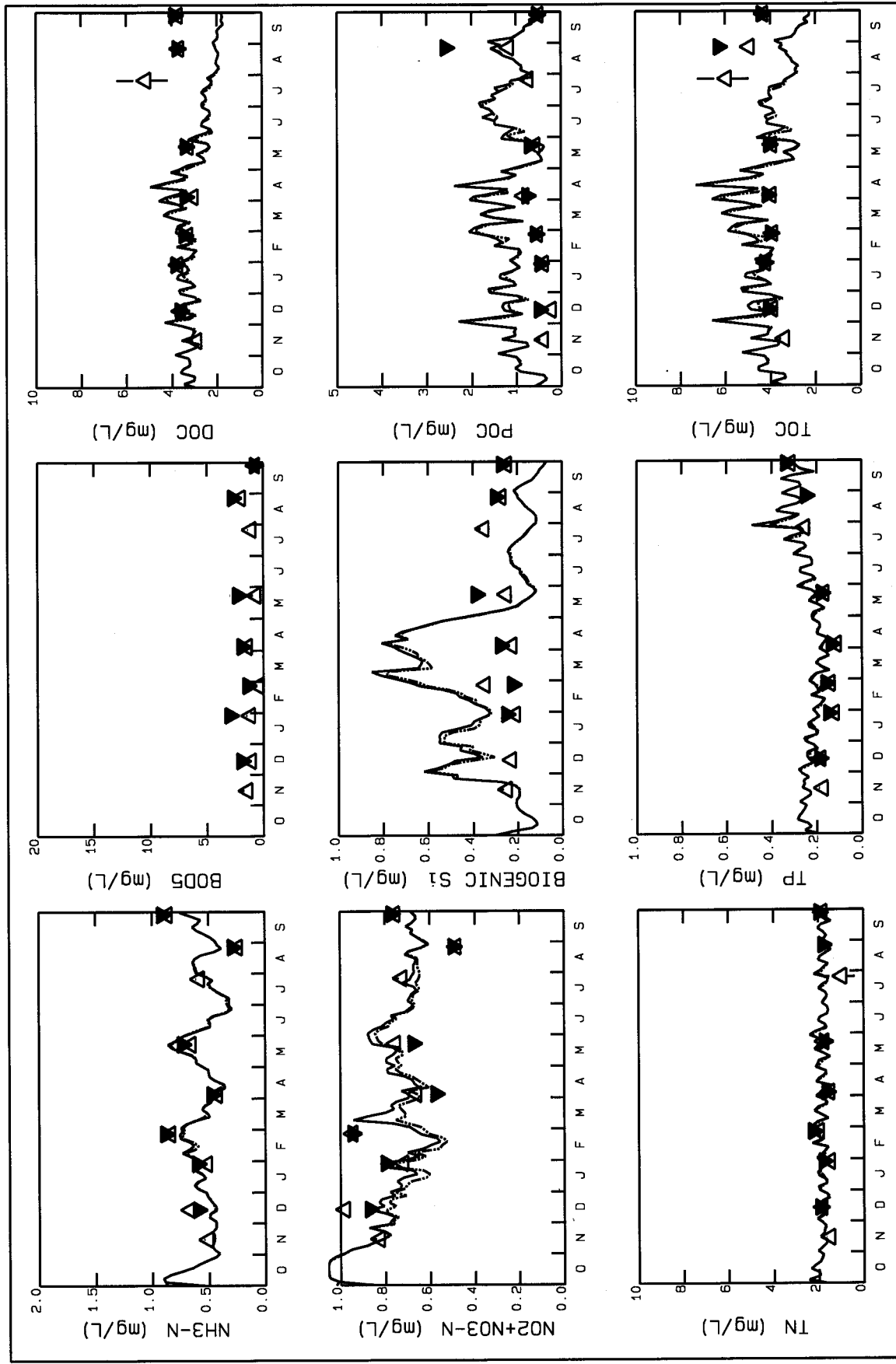


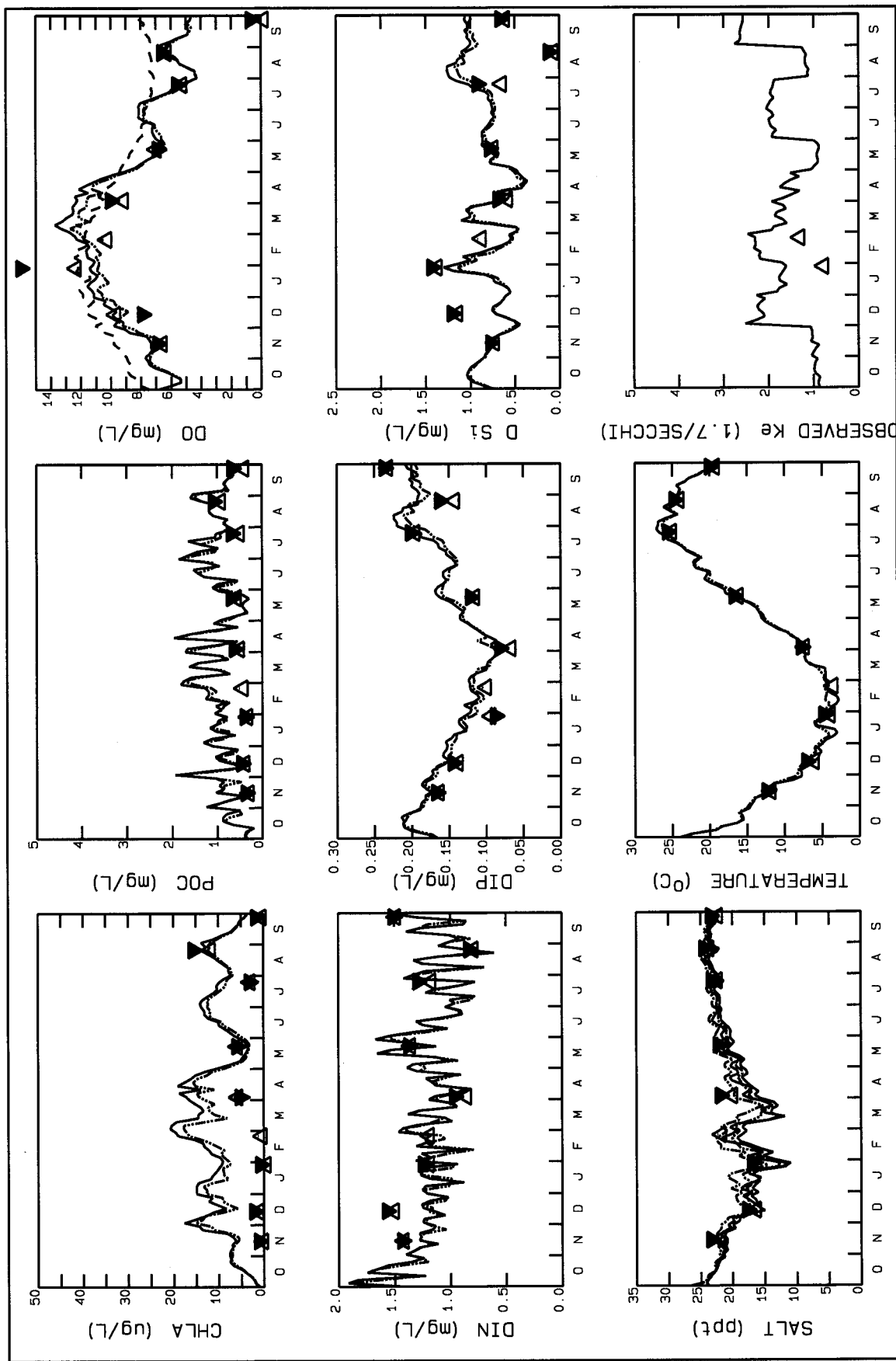
STATION 158 NEWARK BAY-

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:43:10



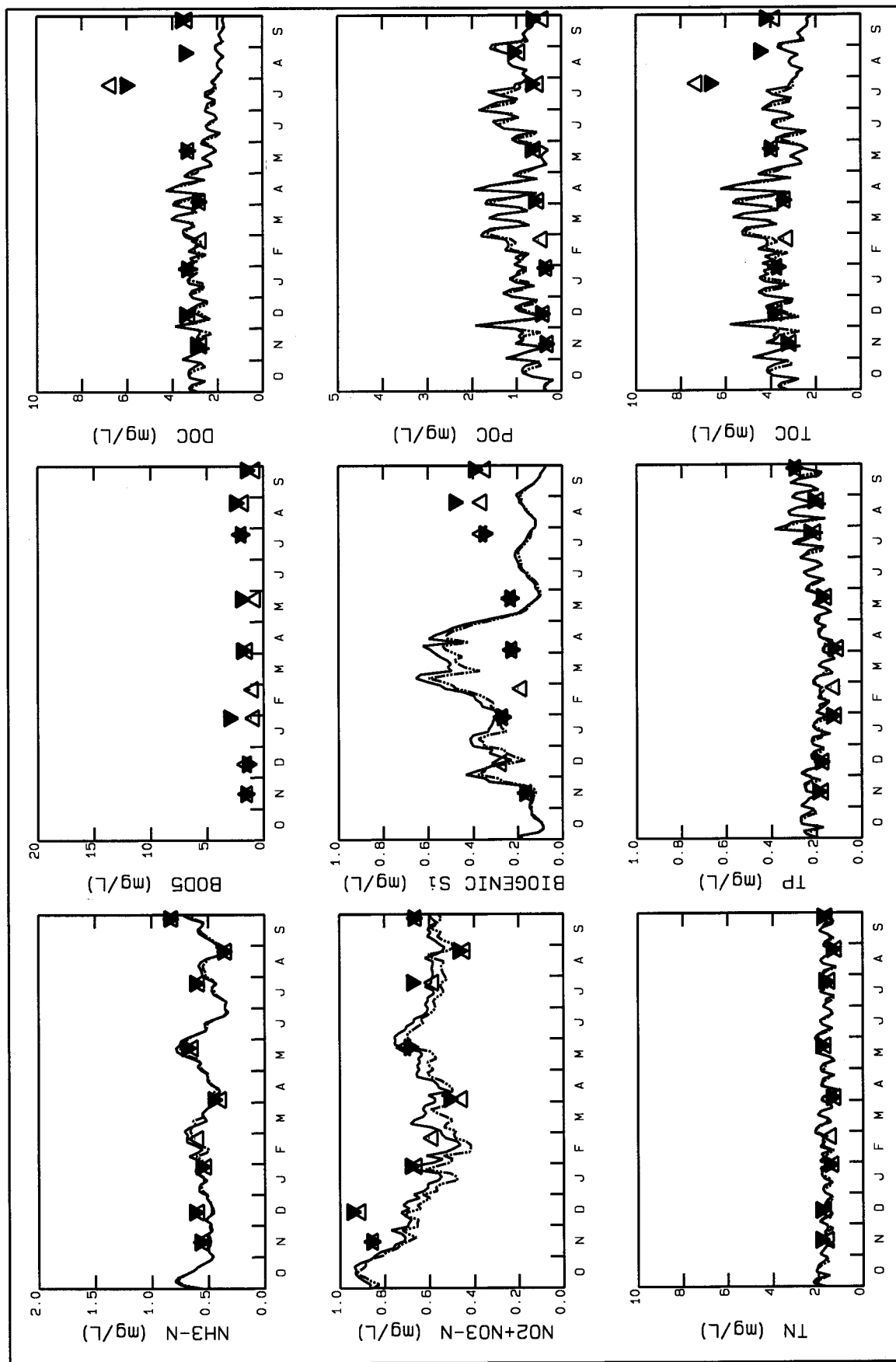


STATION 104 KILL VAN KULL-SHOOTERS ISLAND

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:41:45



STATION 104 KILL VAN KULL-SHOOTERS ISLAND

SWEM 94-95 CALIBRATION

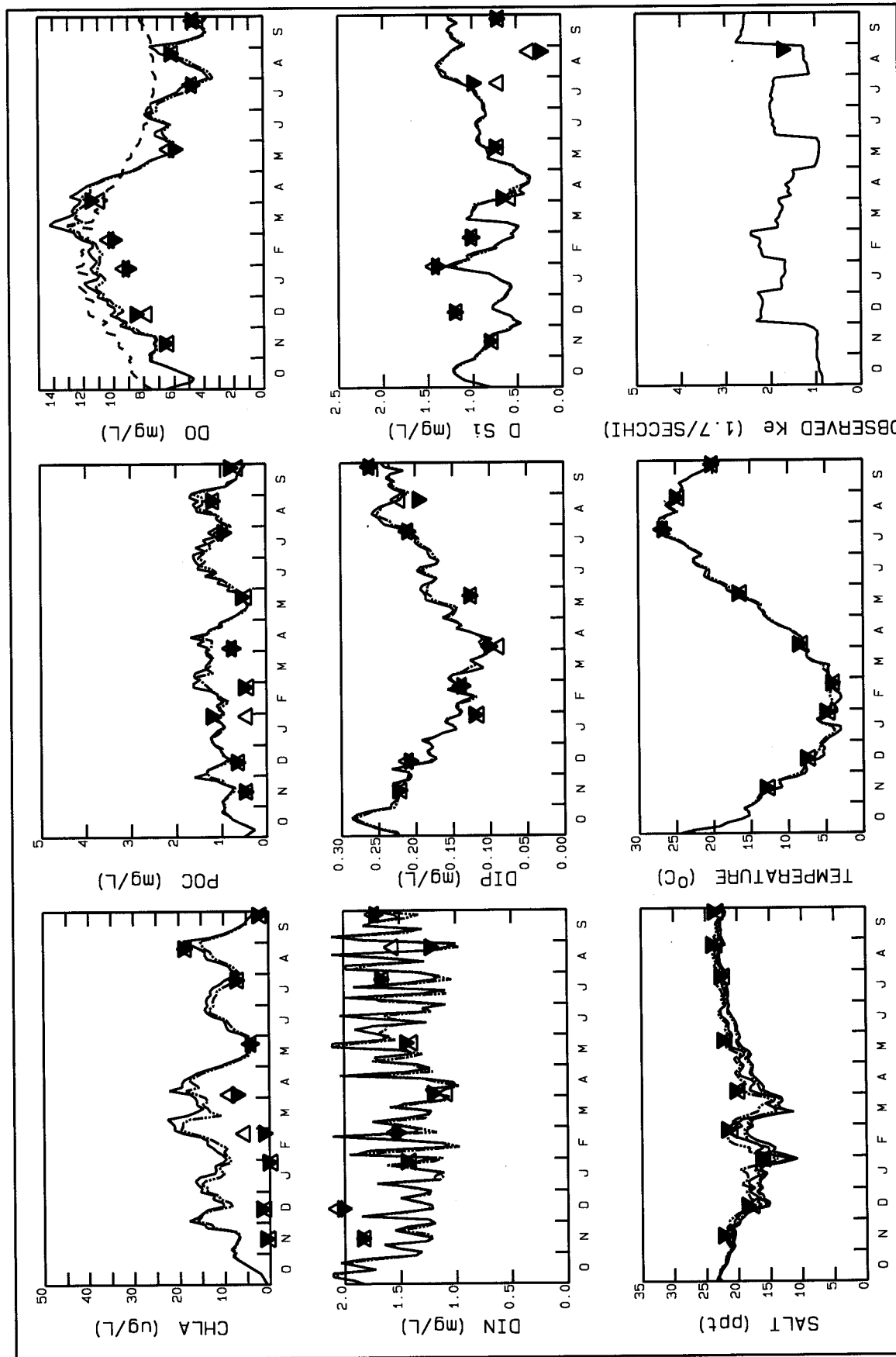
SWEM RUN 9495-BC3

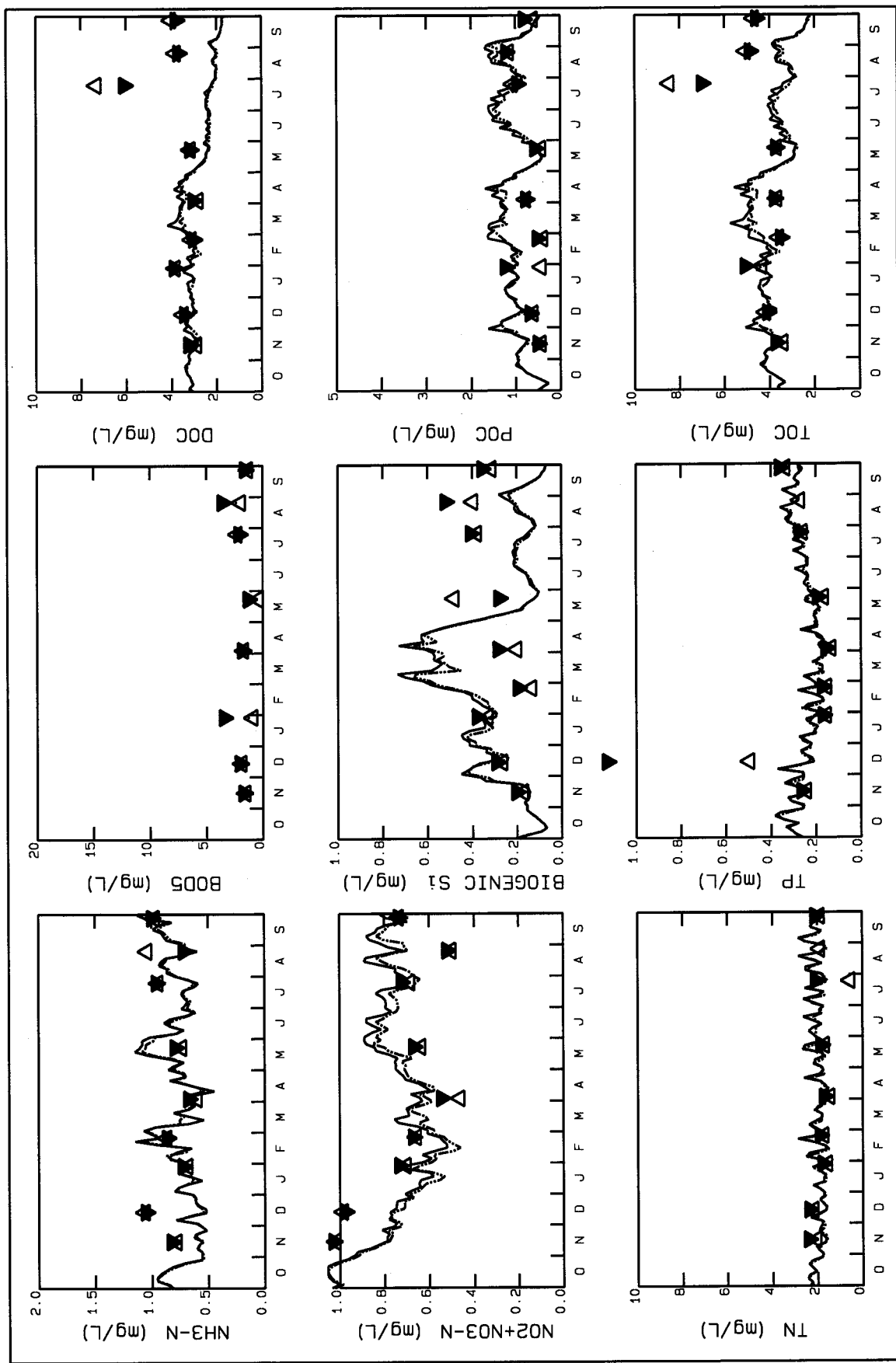
STATION 106 ARTHUR KILL-ELIZABETH

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:42:06





STATION 106 ARTHUR KILL-ELIZABETH

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

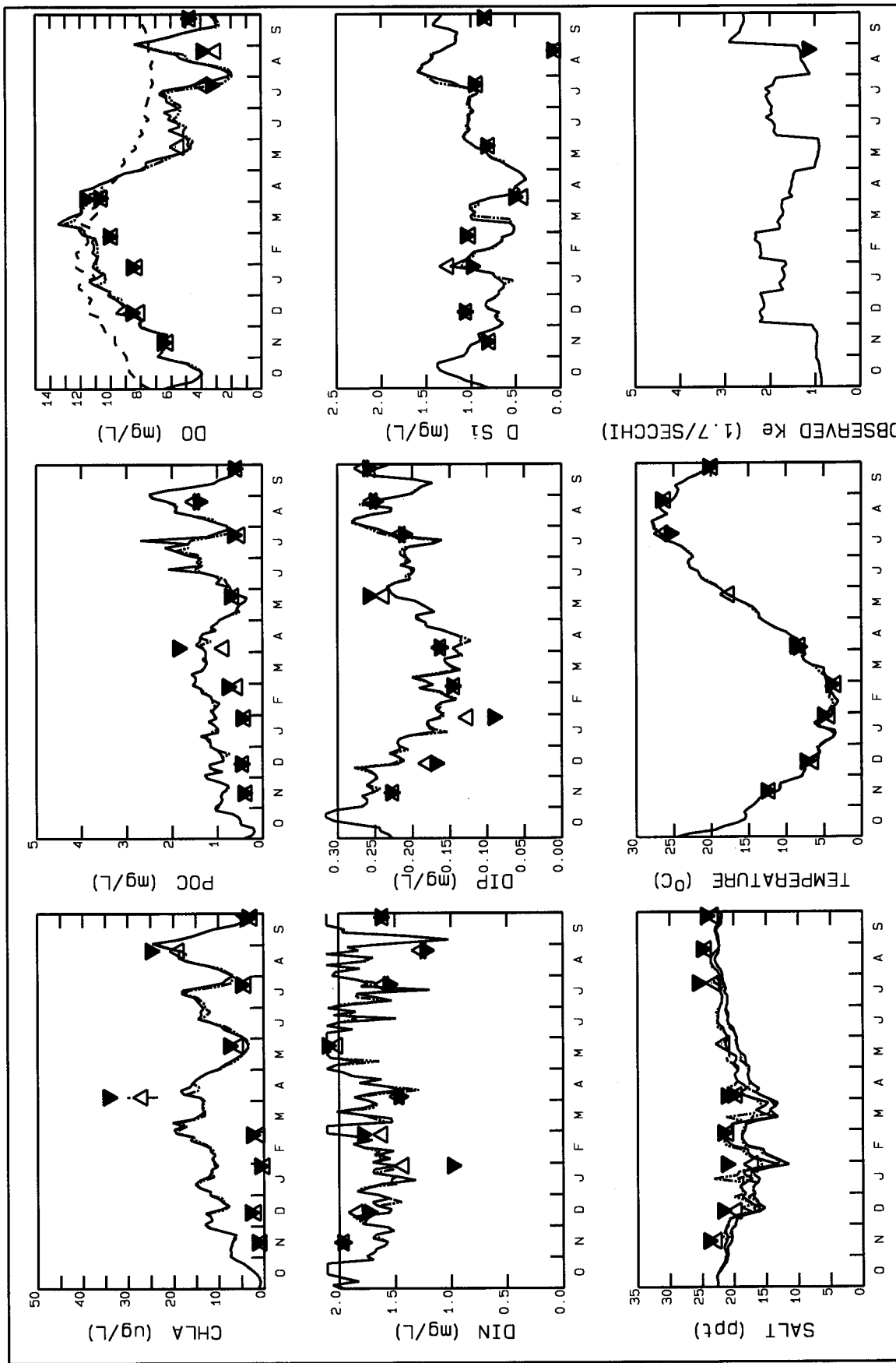
DATE: Thu Apr 30 TIME: 10:42:06

STATION 109 ARTHUR KILL-FRESH KILLS

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:42:28

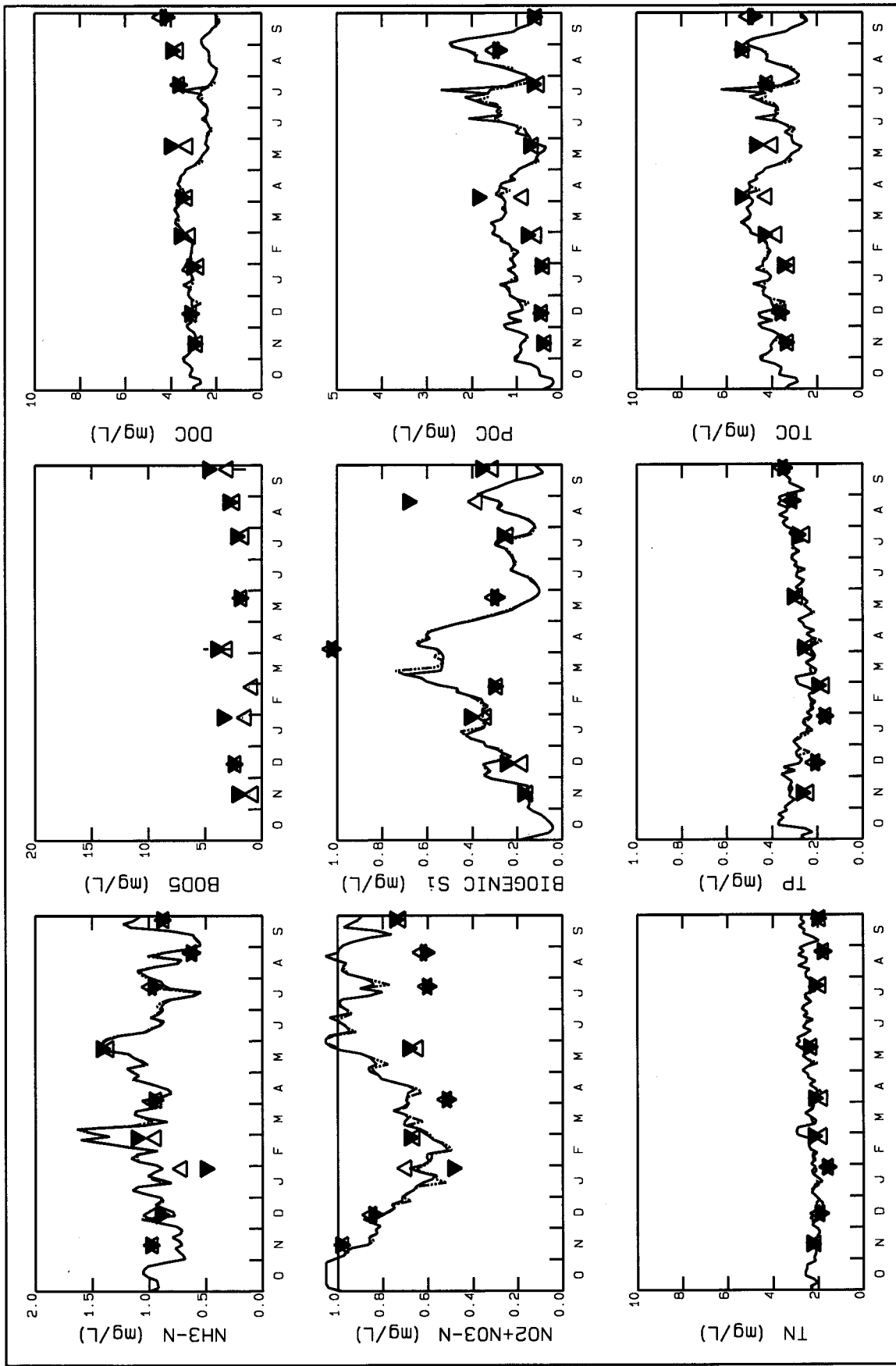


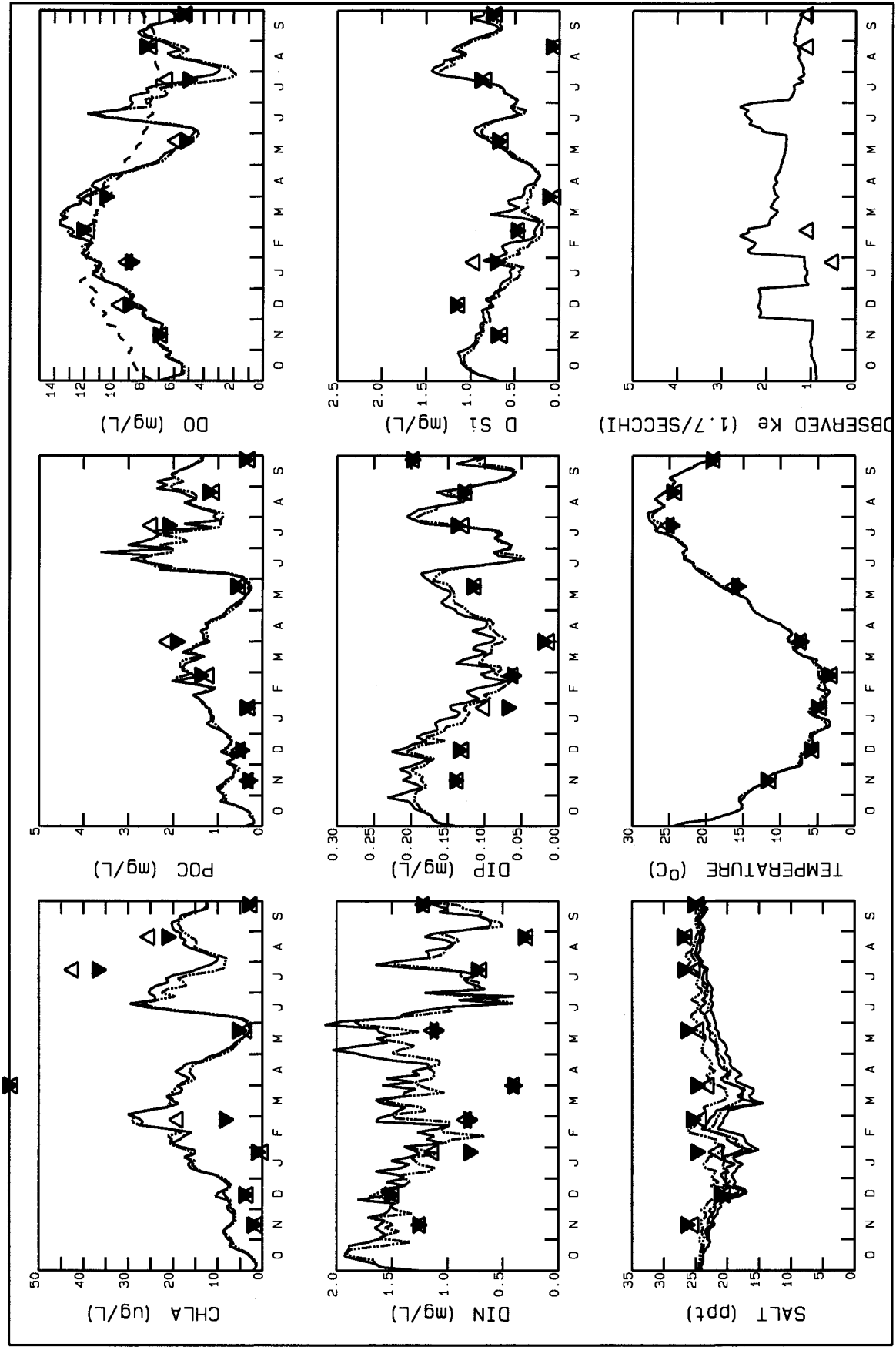
STATION 109 ARTHUR KILL-FRESH KILLS

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

DATE: Thu Apr 30 TIME: 10:42:28

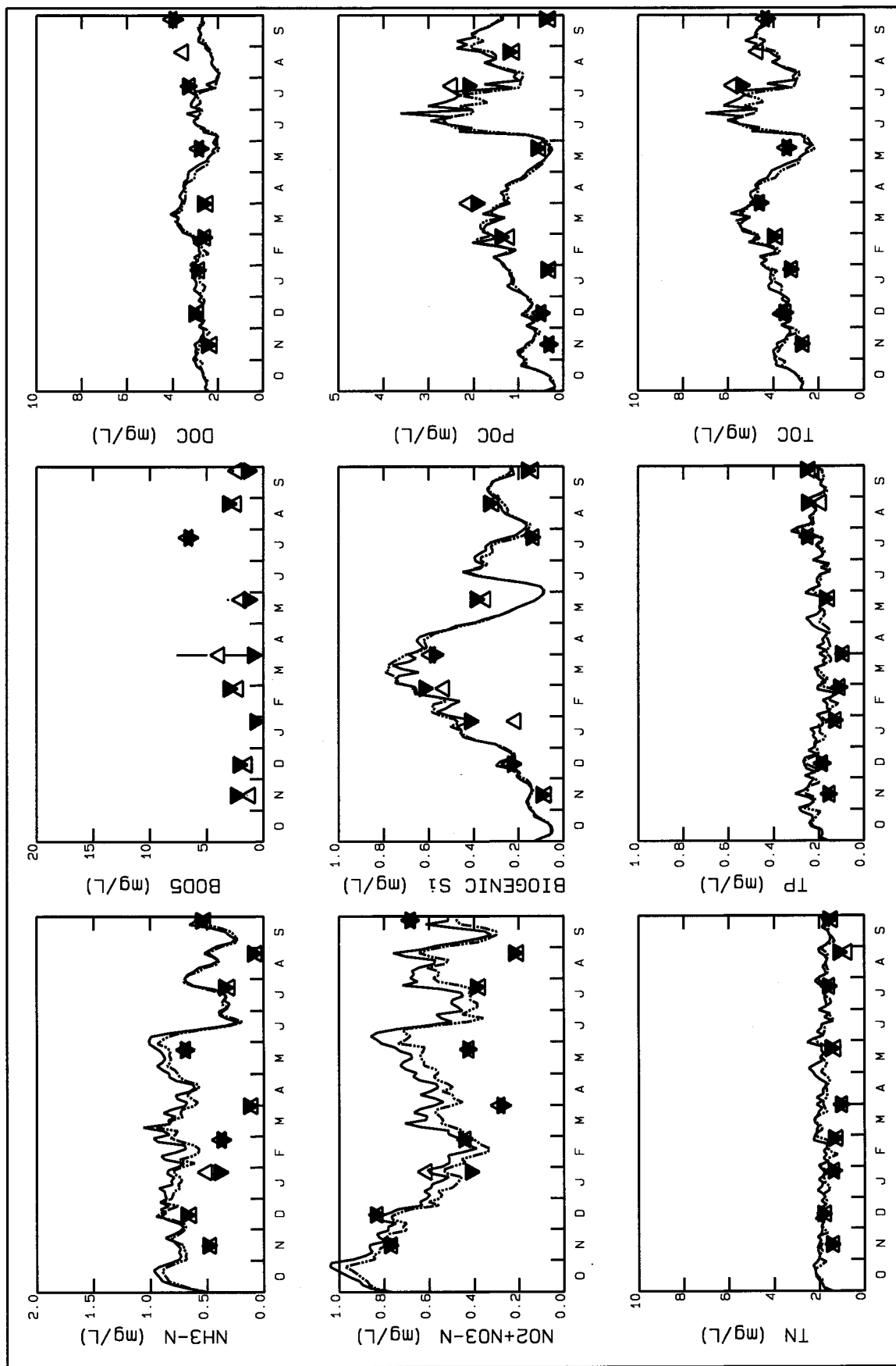




STATION 110 ARTHUR KILL-TOTTENVILLE

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3



STATION 110 ARTHUR KILL--TOTTENVILLE

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

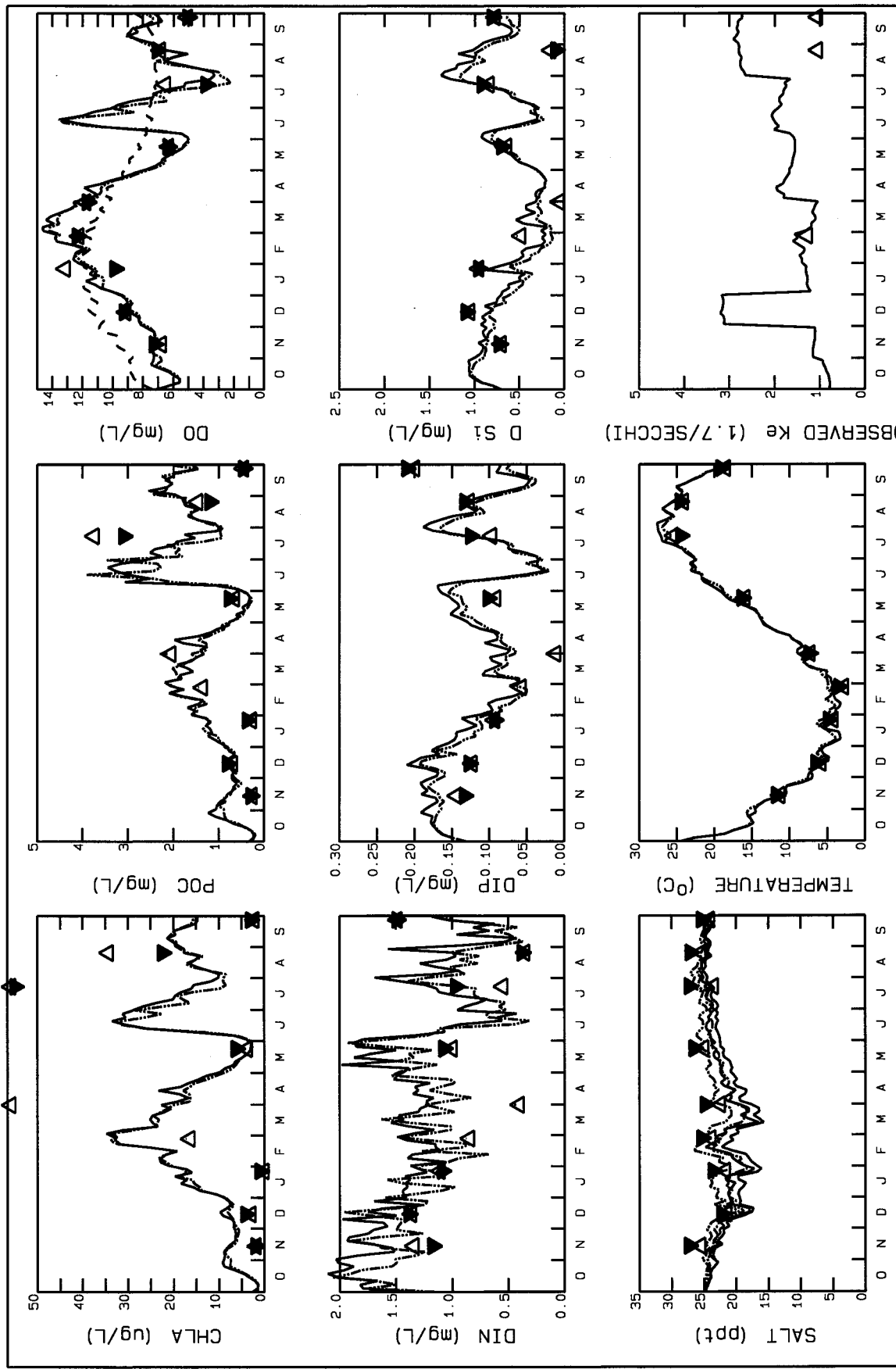
TEMPORAL DISTRIBUTIONS OF RARITAN BAY

STATION 112 RARITAN BAY-MIDDLESEX

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:40:41

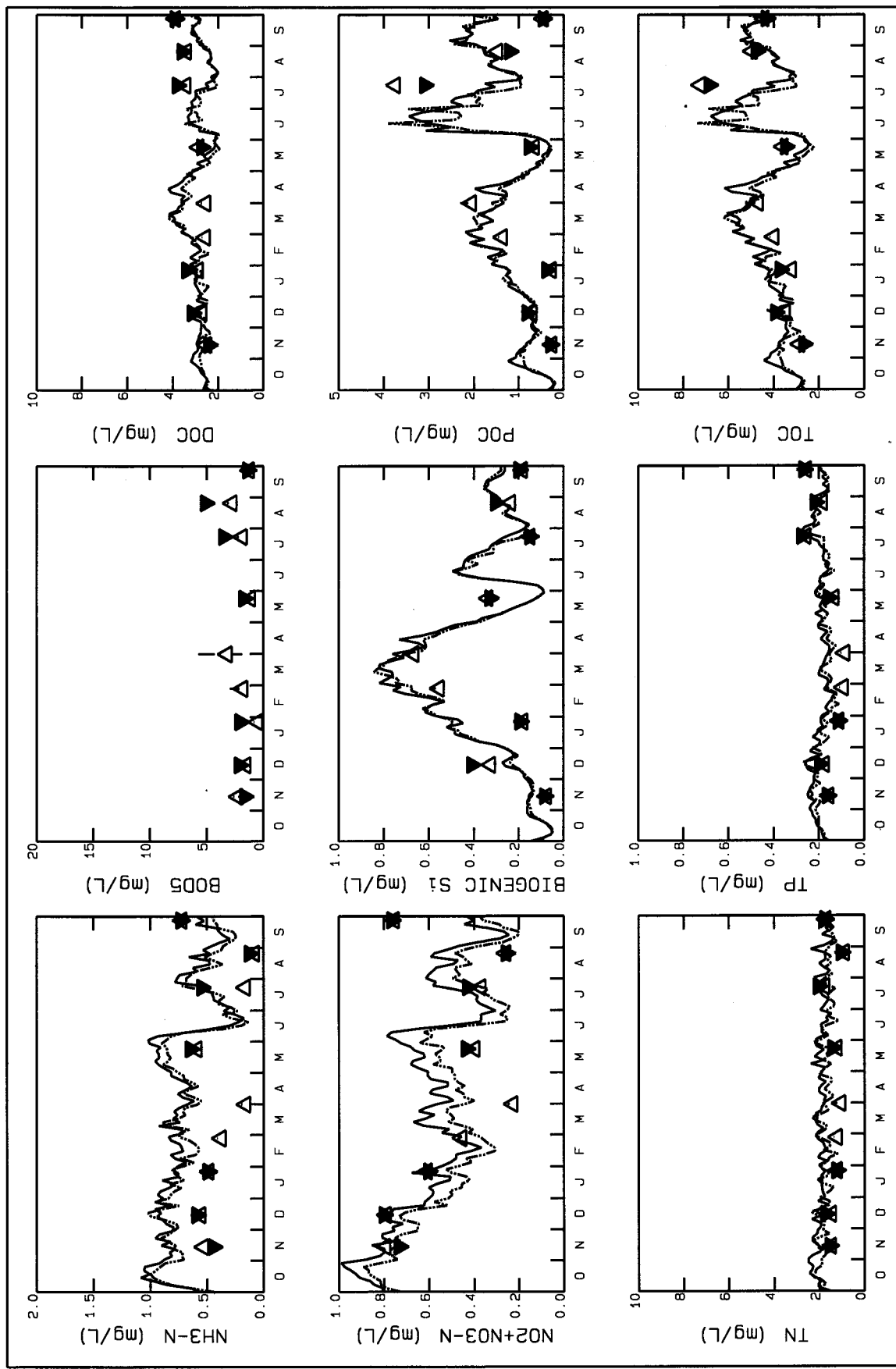


STATION 112 RARITAN BAY-MIDDLESEX

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

DATE: Thu Apr 30 TIME: 10:40:41

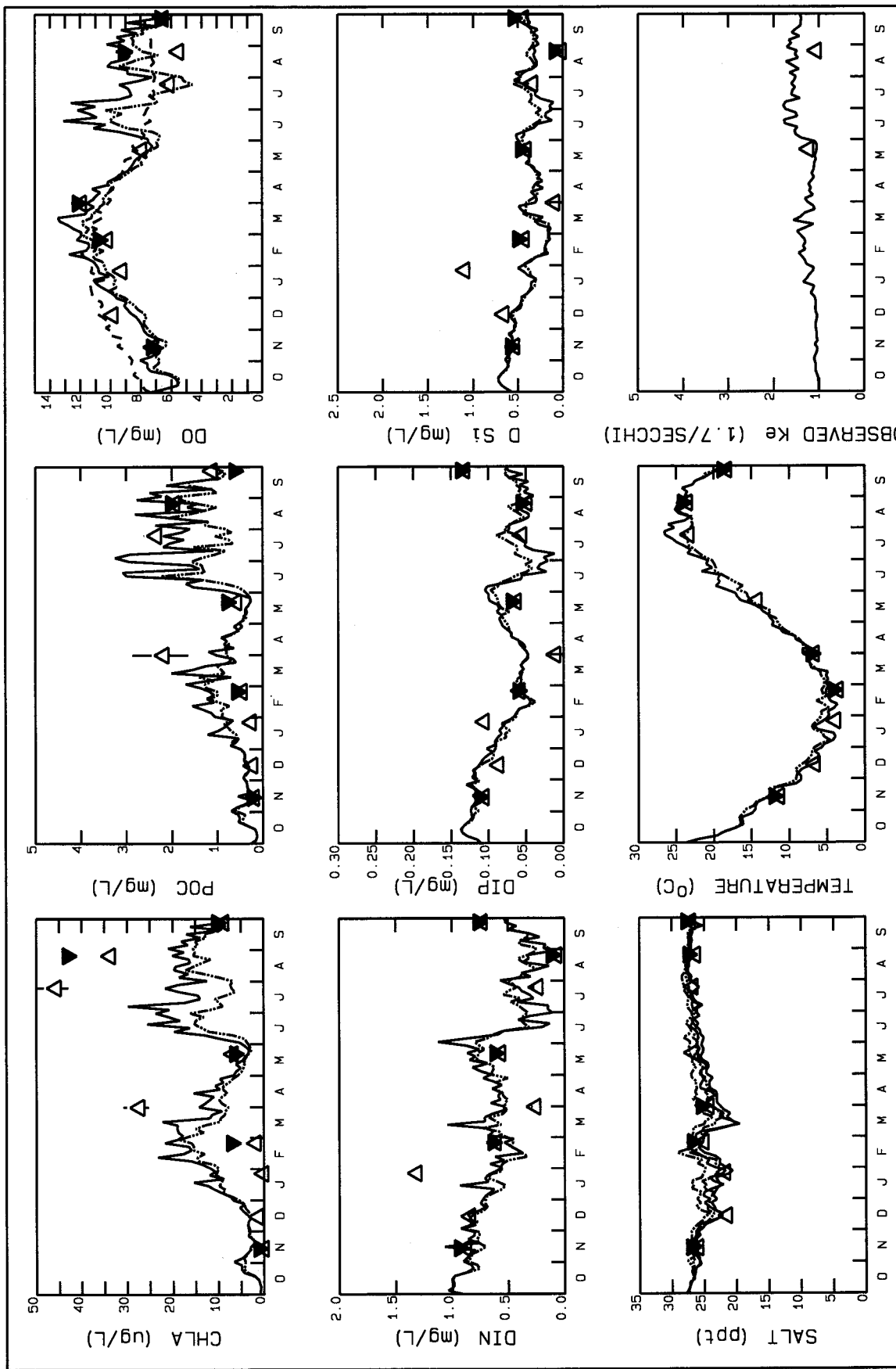


STATION 113 RARITAN BAY-ORCHARD LIGHT

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

DATE: Thu Apr 30 TIME: 10:41:03

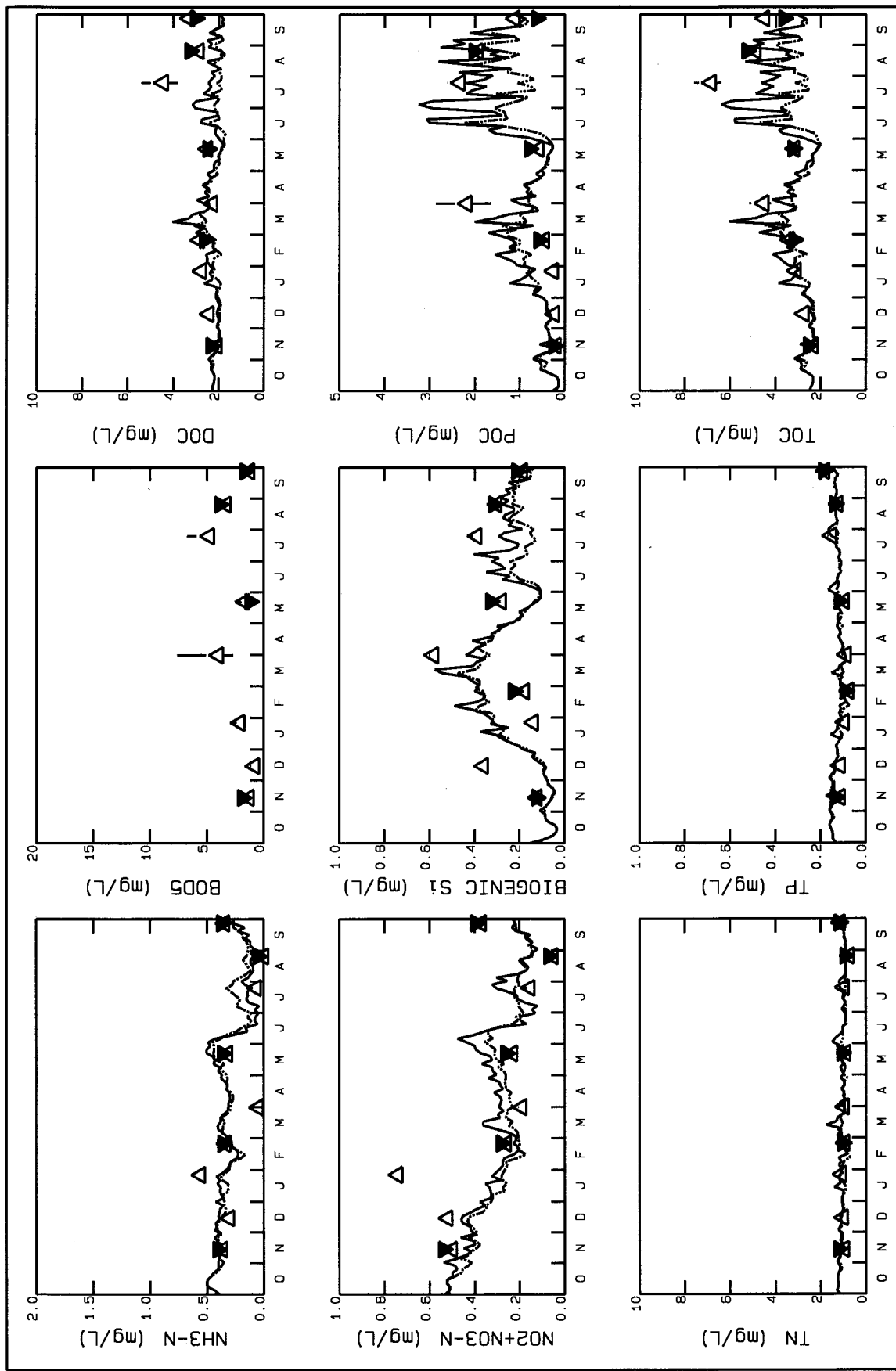


STATION 113 RARITAN BAY-ORCHARD LIGHT

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

DATE: Thu Apr 30 TIME: 10:41:03

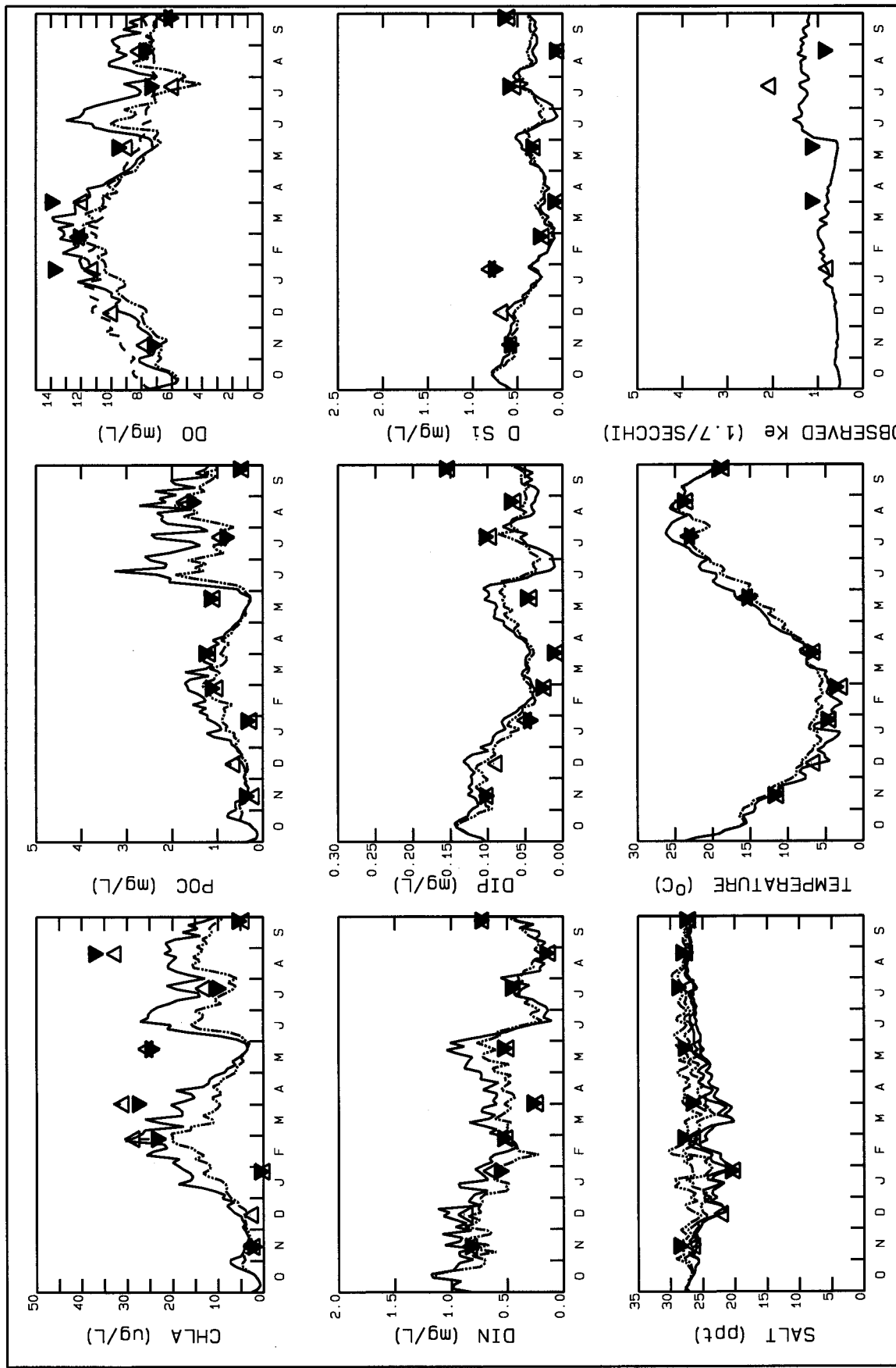


STATION 170 RARITAN BAY-ATLANTIC HIGHLANDS

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

DATE: Thu Apr 30 TIME: 10:43:31

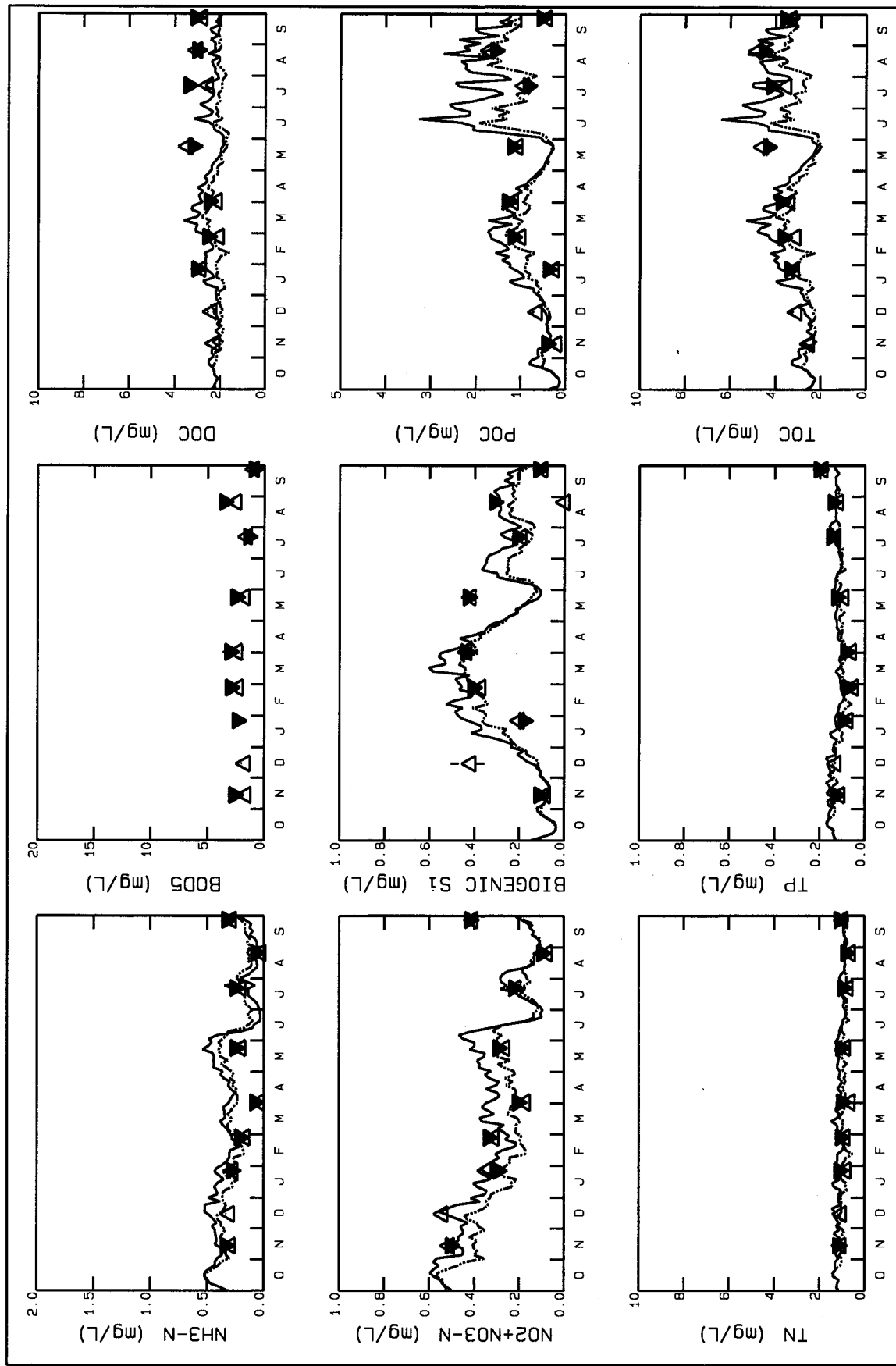


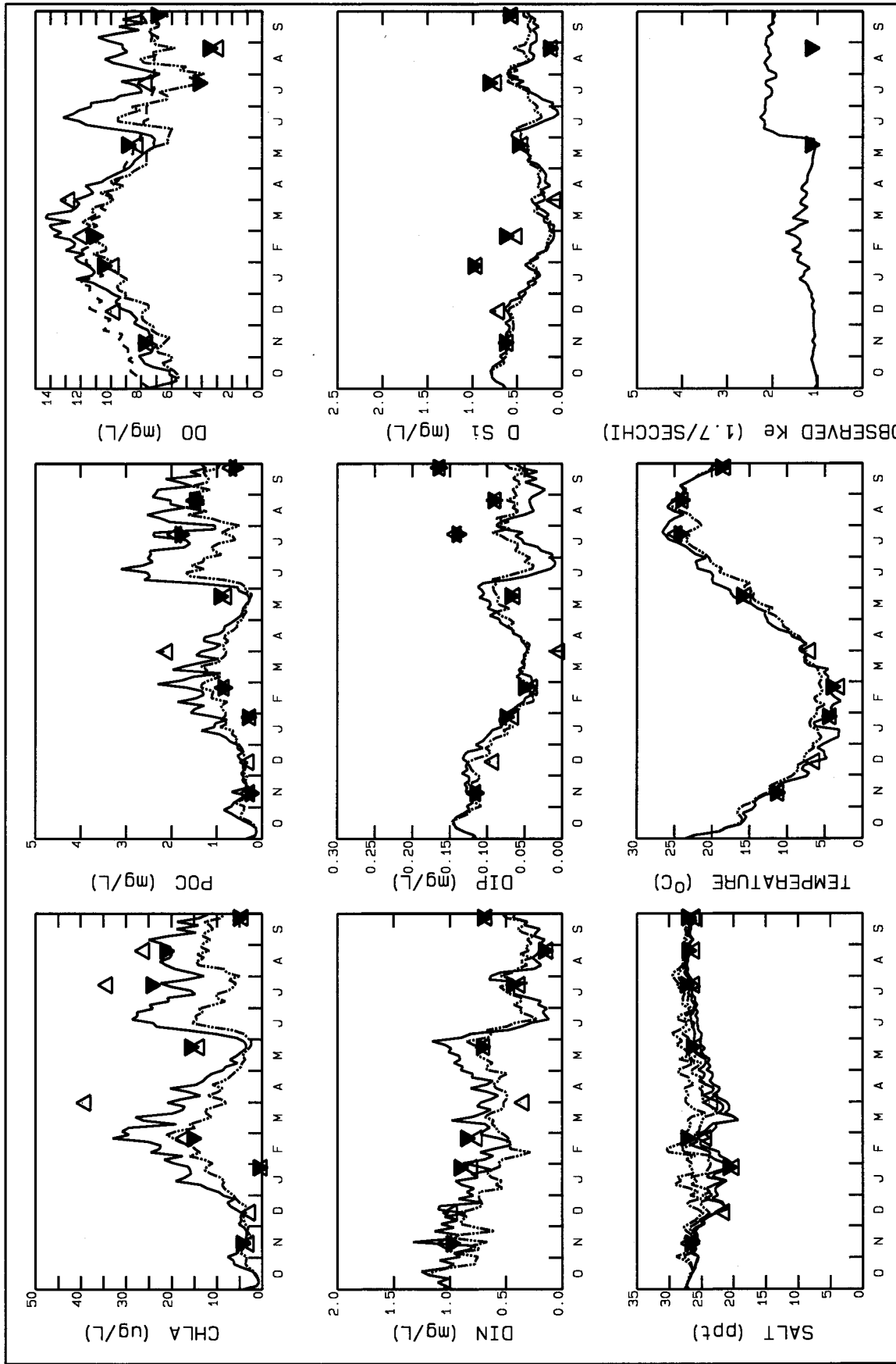
STATION 170 RARITAN BAY-ATLANTIC HIGHLANDS

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

DATE: Thu Apr 30 TIME: 10:43:31





STATION 209 RARITAN BAY-NE POINT COMFORT

SWEM 94-95 CALIBRATION

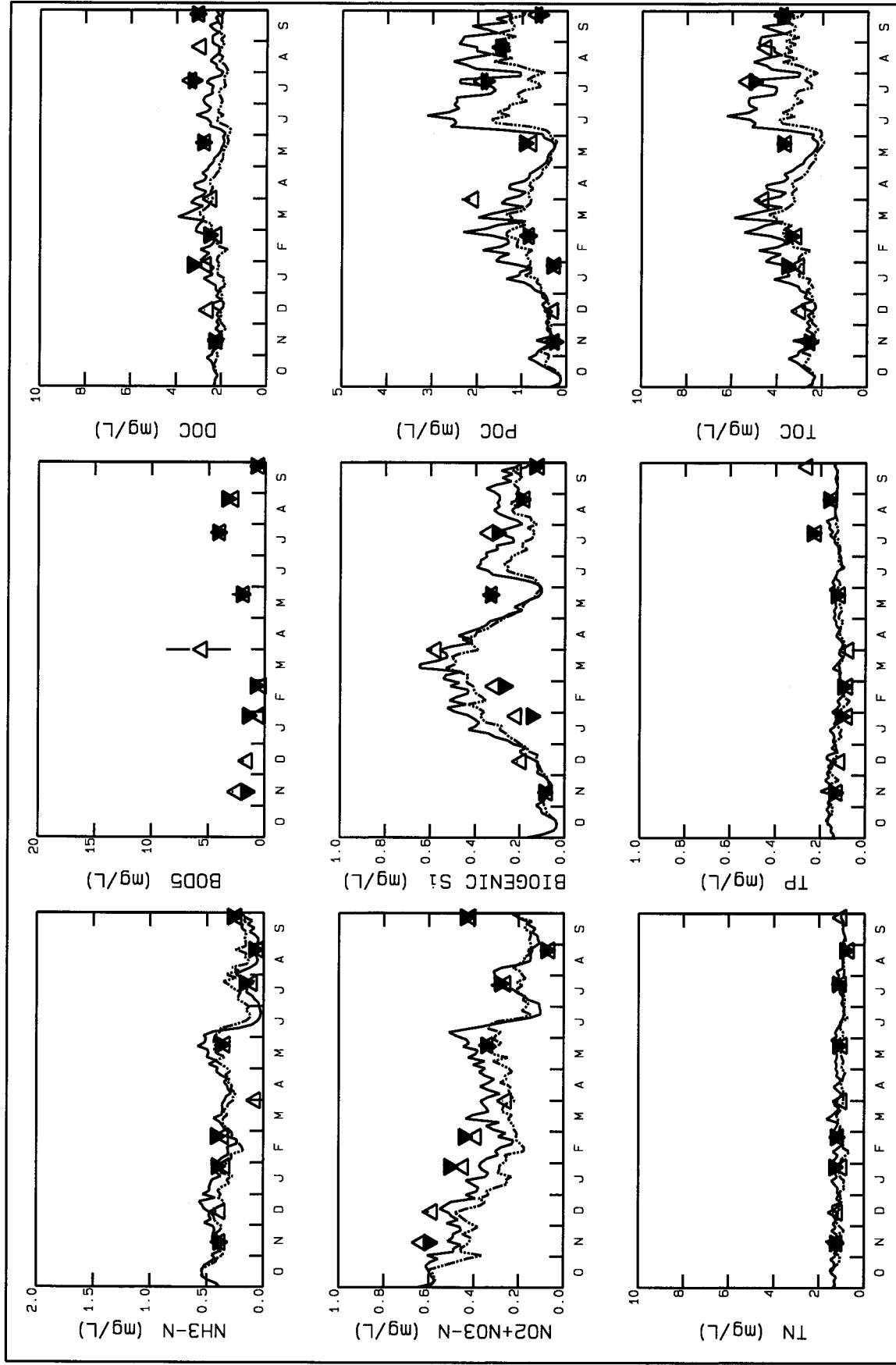
SWEM RUN 9495-BC3

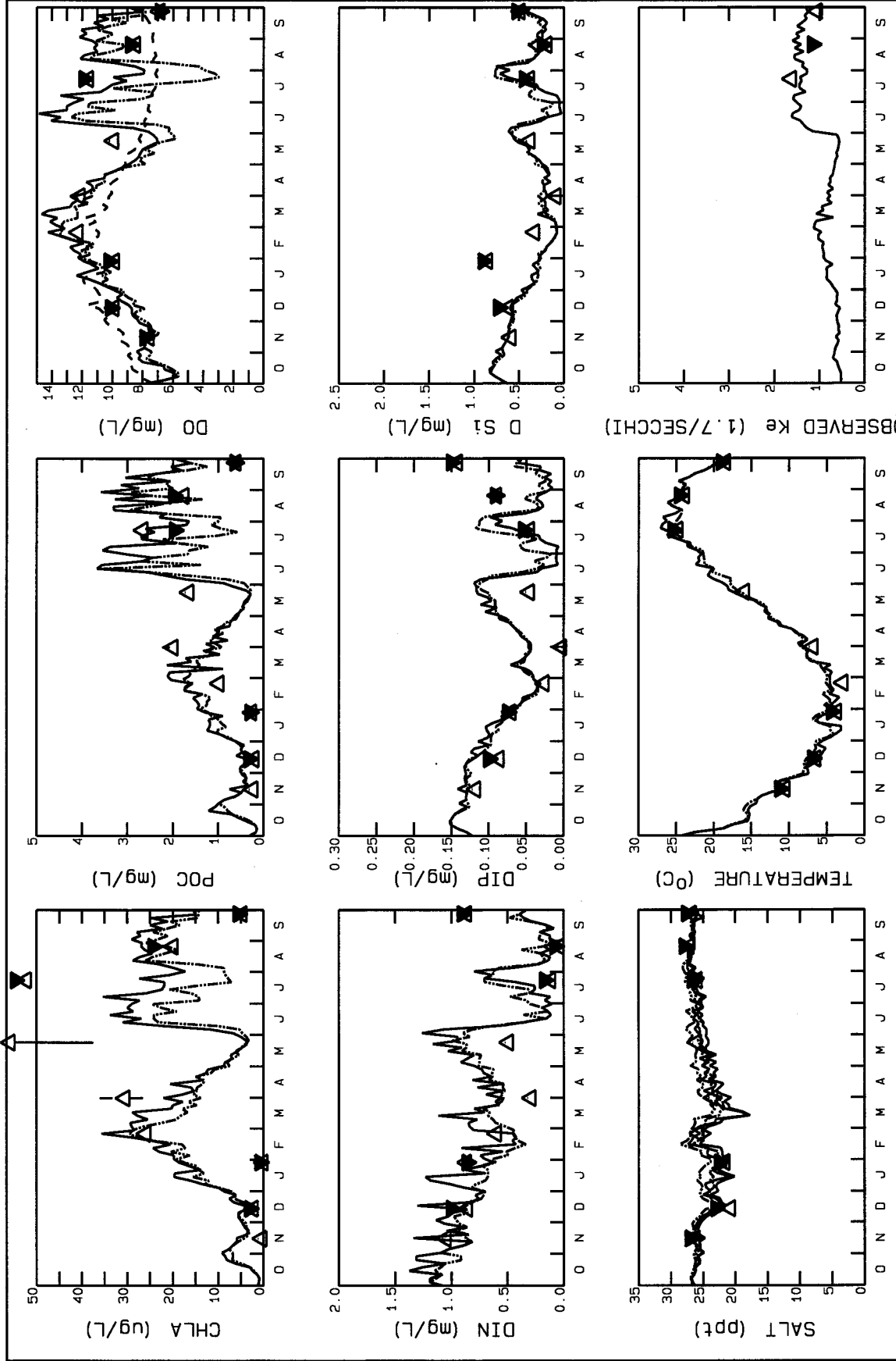
STATION 209 RARITAN BAY-NE POINT COMFORT

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

DATE: Thu Apr 30 TIME: 10:43:52





STATION 210 RARITAN BAY-OFF STATEN ISLAND

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

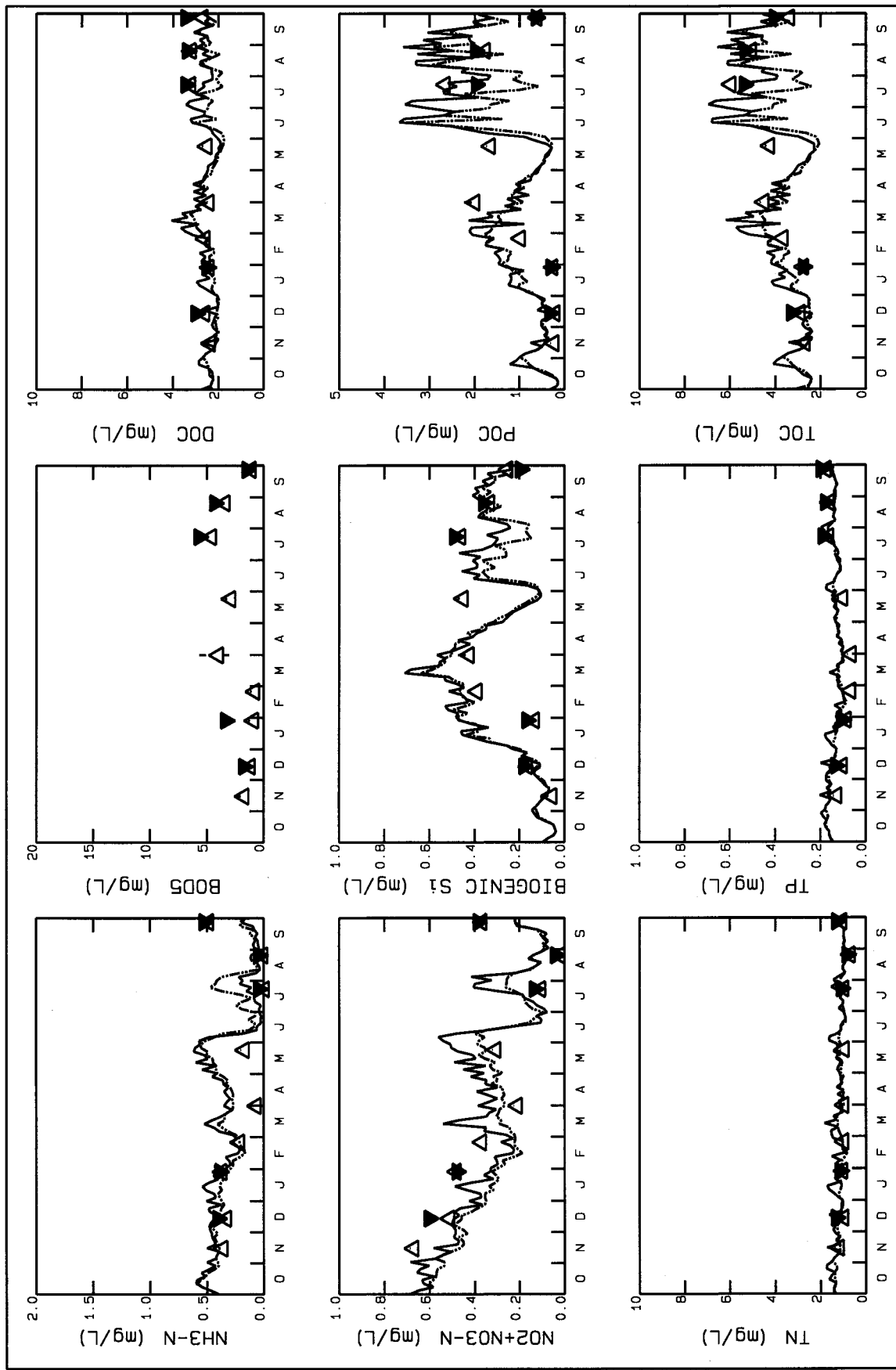
DATE: Thu Apr 30 TIME: 10:44:13

STATION 210 PARITAN BAY-OFF STATEN ISLAND

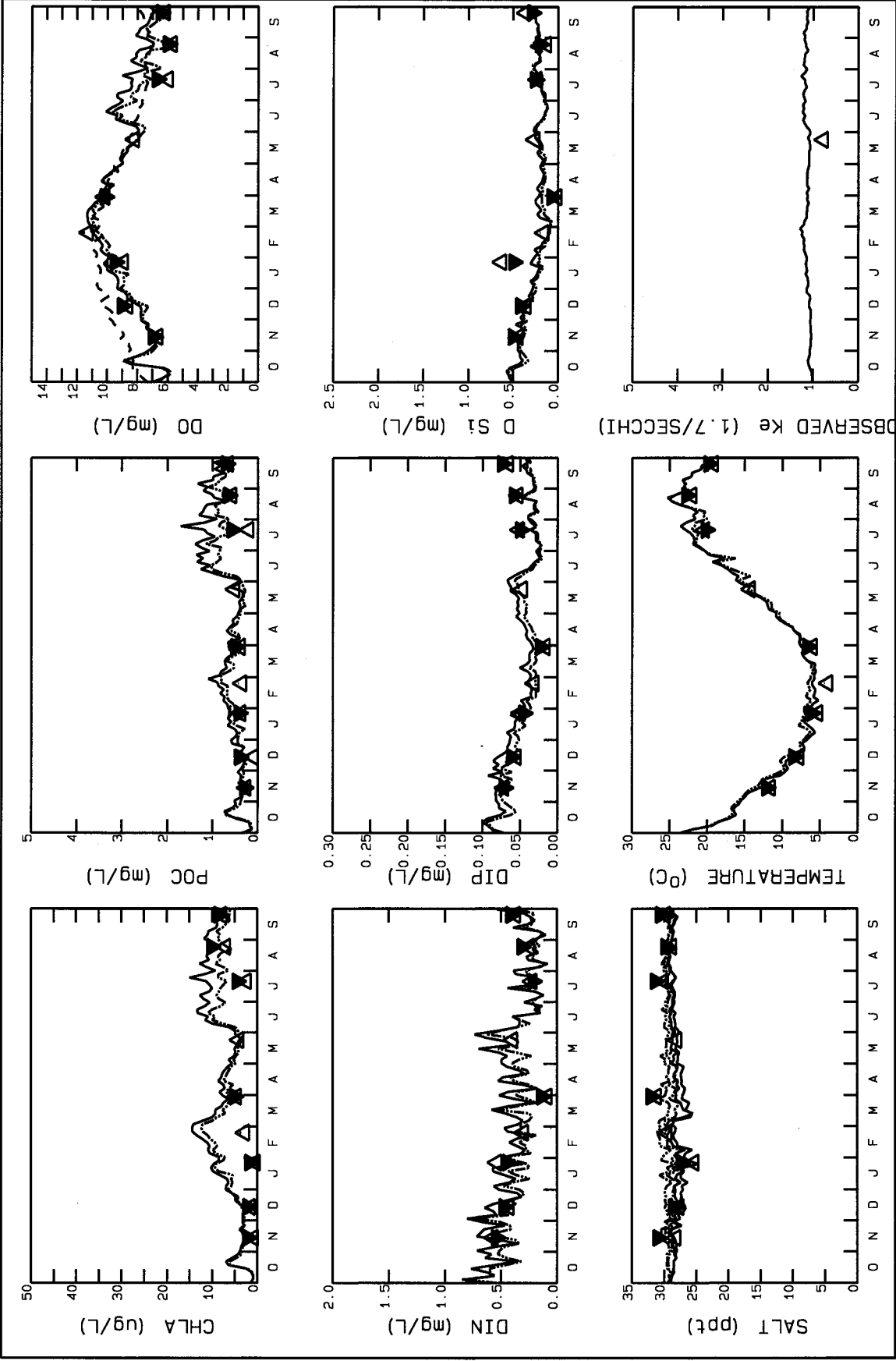
SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:44:13



TEMPORAL DISTRIBUTIONS OF JAMAICA BAY



STATION 147 JAMAICA BAY-STEEPLECHASE

SWEM 94-95 CALIBRATION

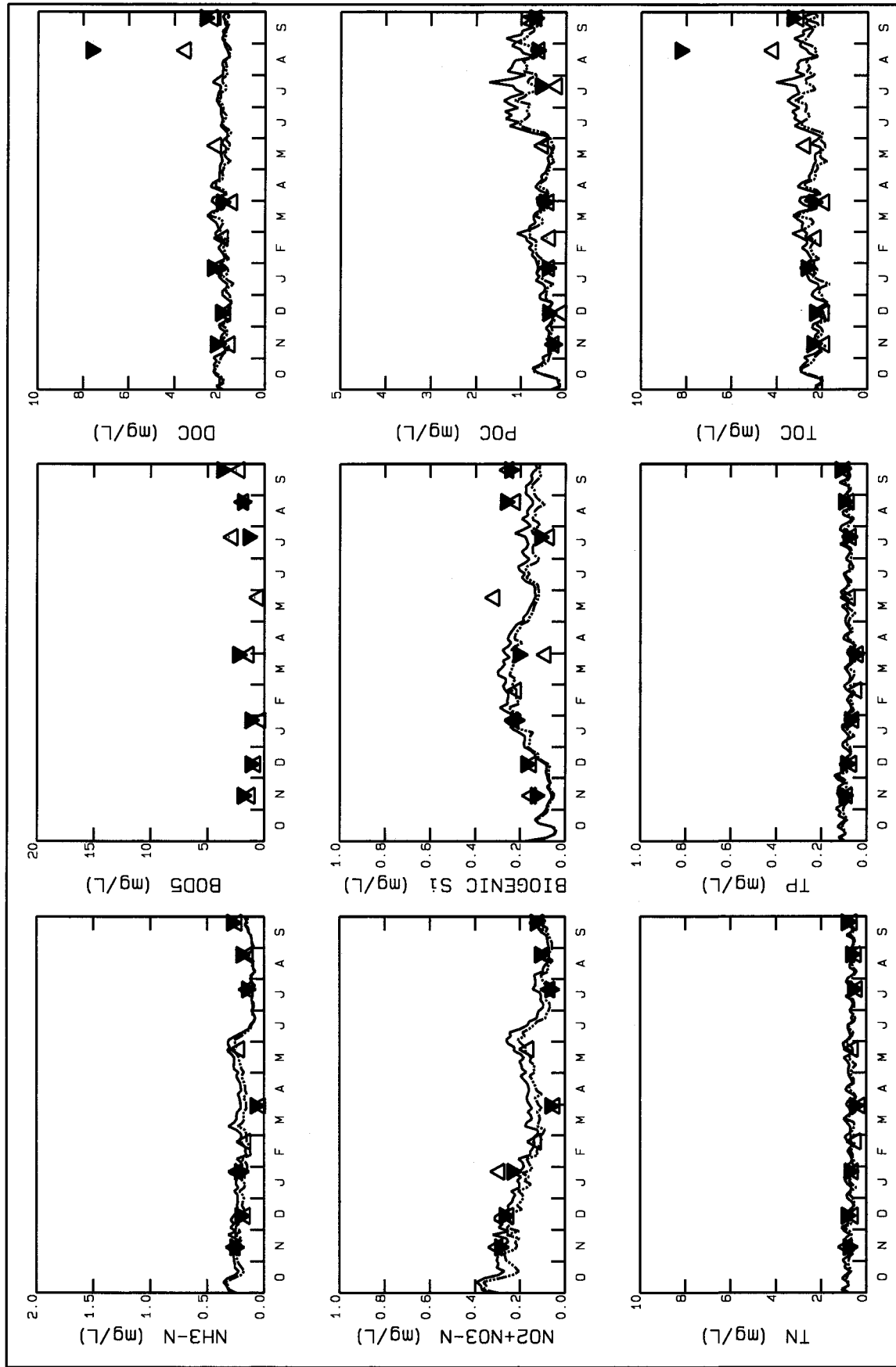
SWEM RUN 9495-BC3

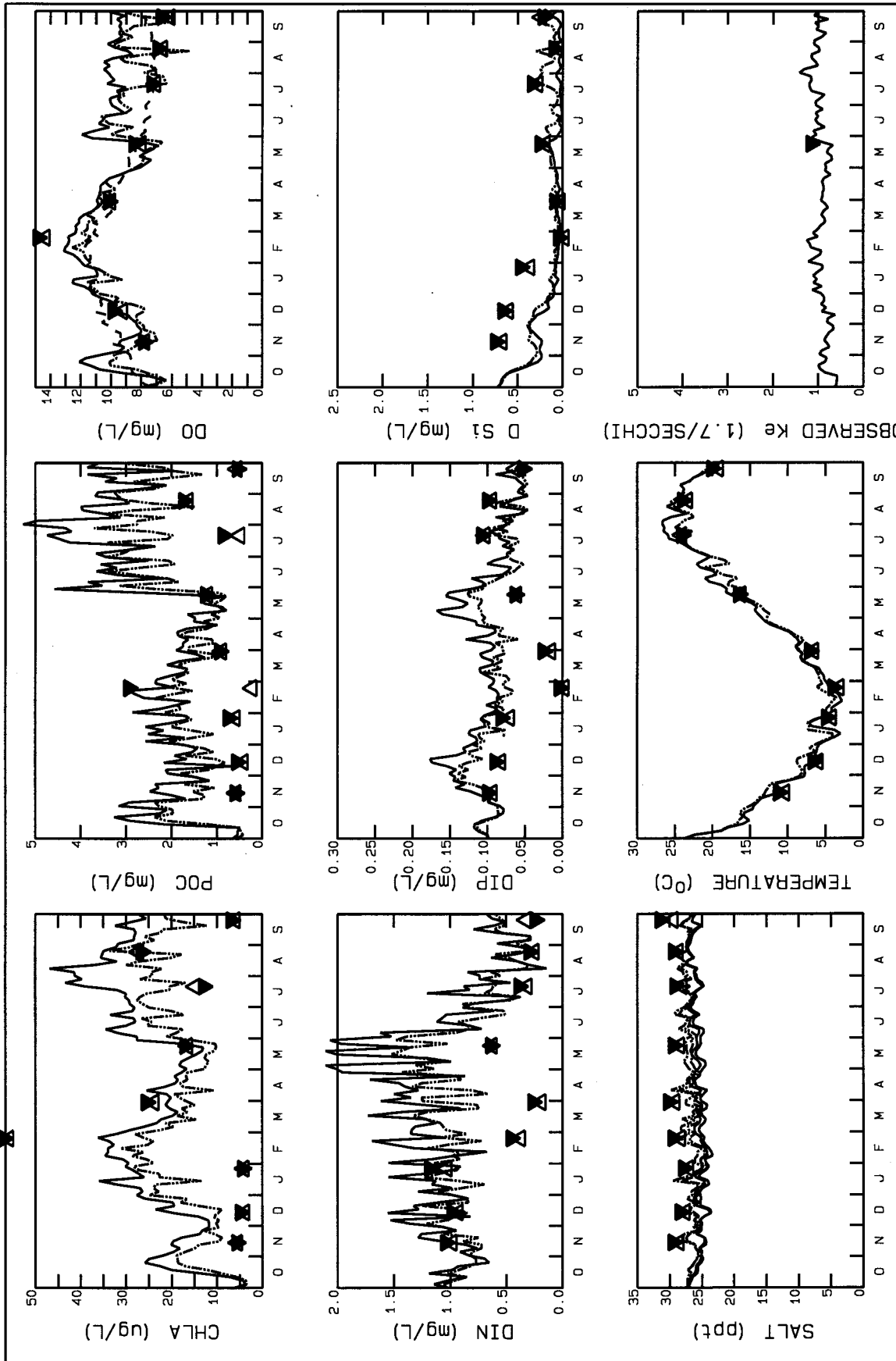
STATION 147 JAMAICA BAY-STEEPLECHASE

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:36:15

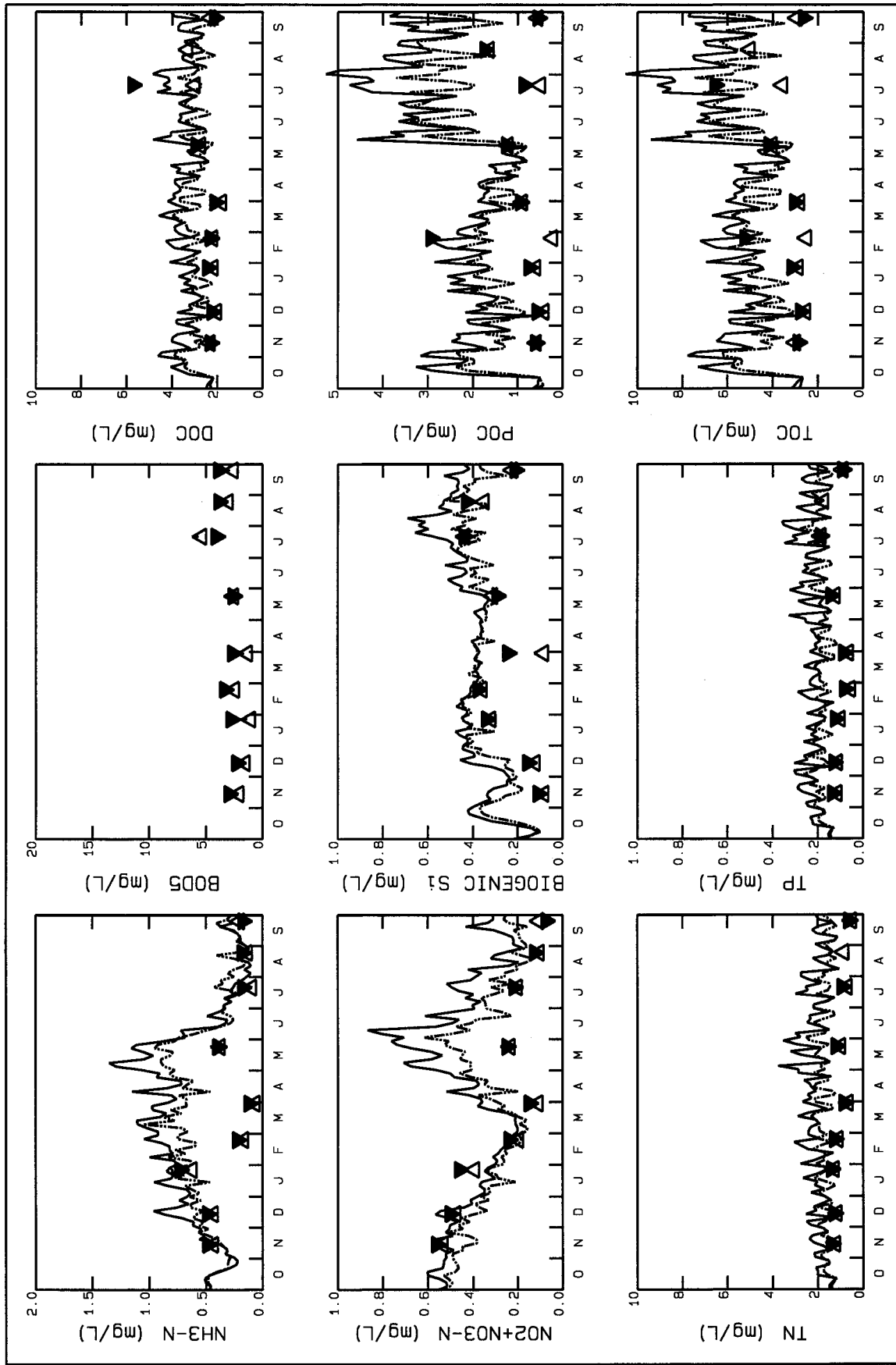




STATION 89 JAMAICA BAY-ROCKAWAY INLET

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3



STATION 89 JAMAICA BAY-ROCKAWAY INLET

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

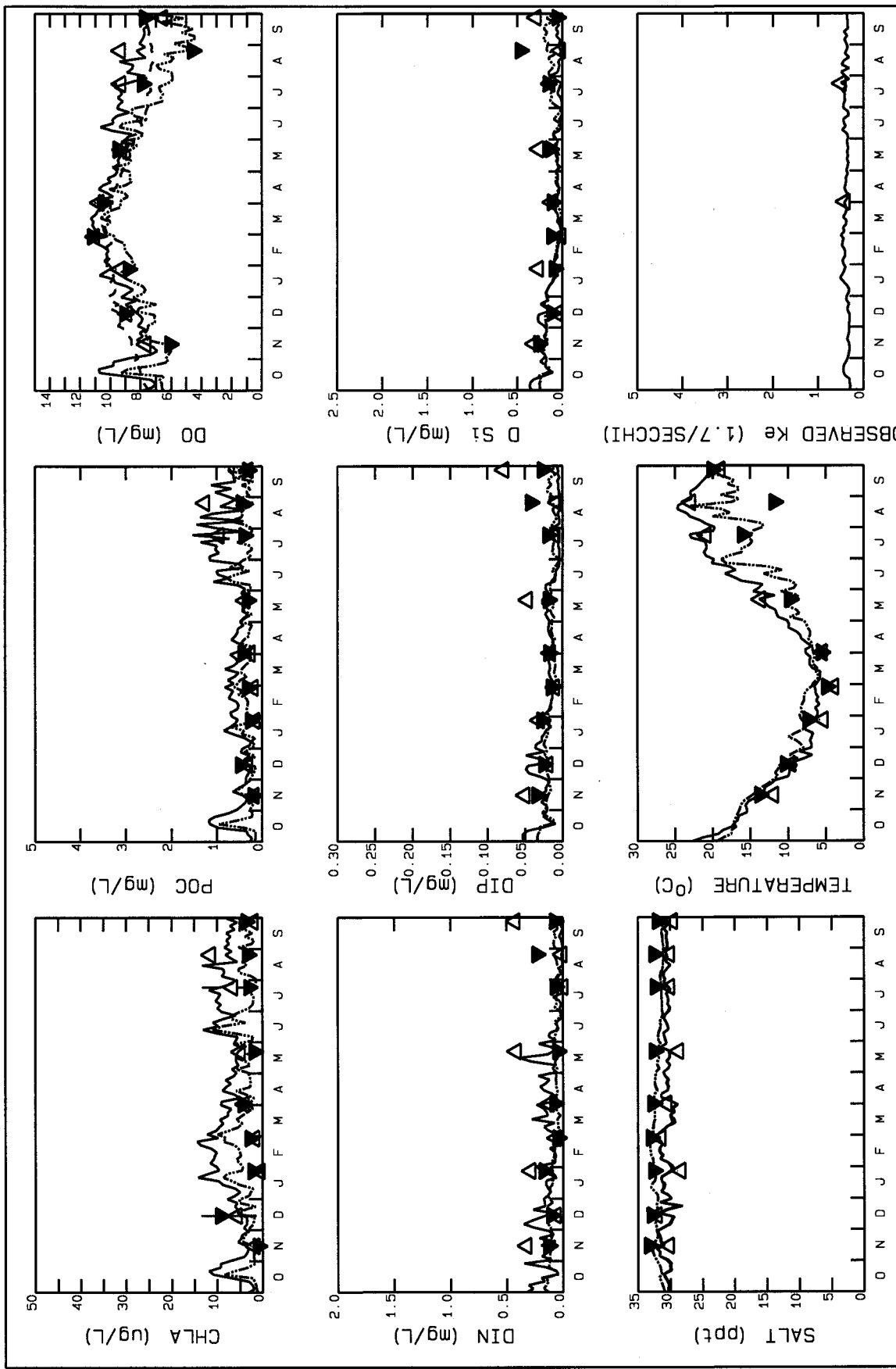
TEMPORAL DISTRIBUTIONS OF NEW YORK BIGHT

STATION 208 BIGHT APEX

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:34:25

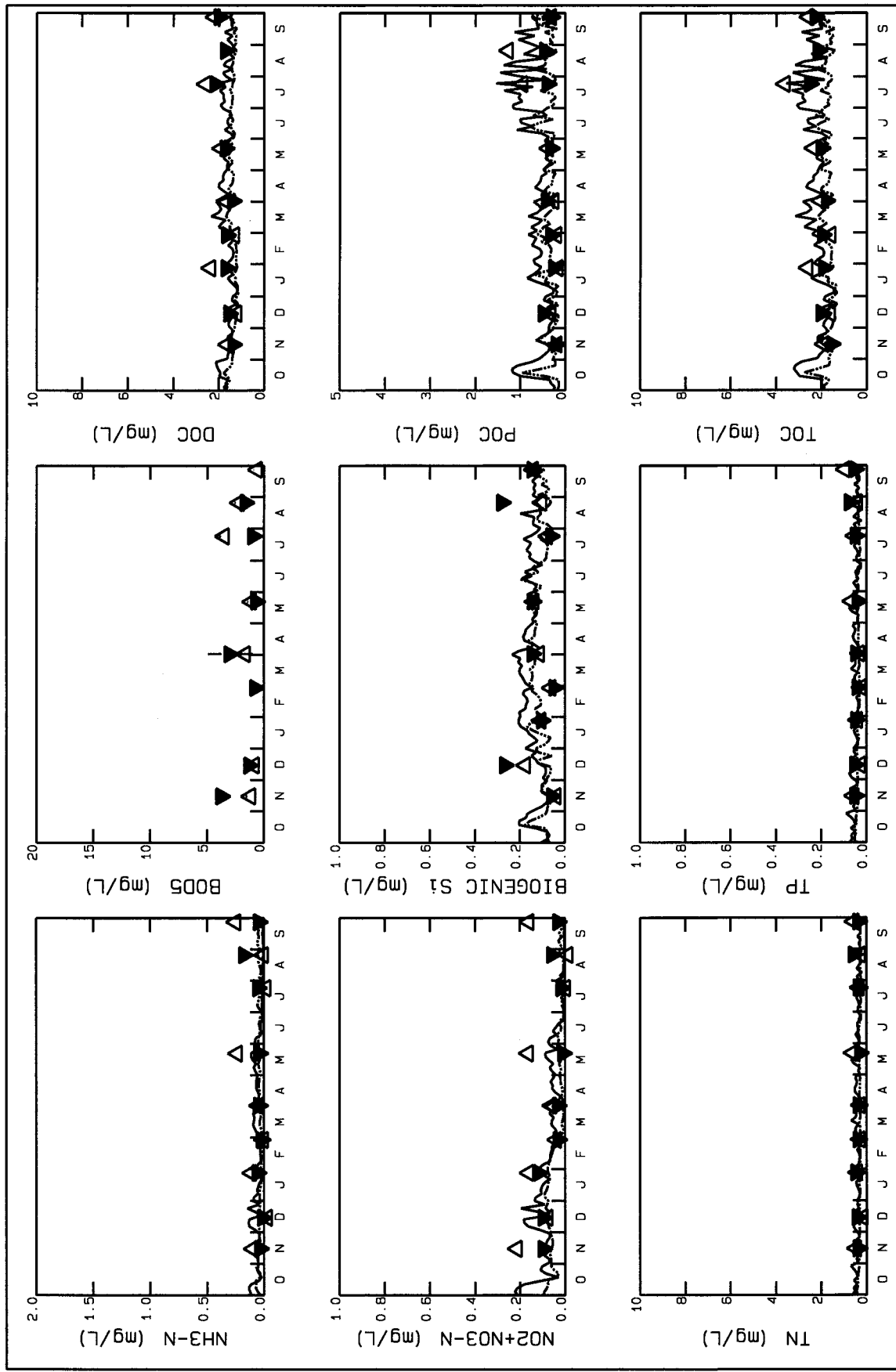


STATION 208 BIGHT APEX

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

DATE: Thu Apr 30 TIME: 10:34:25

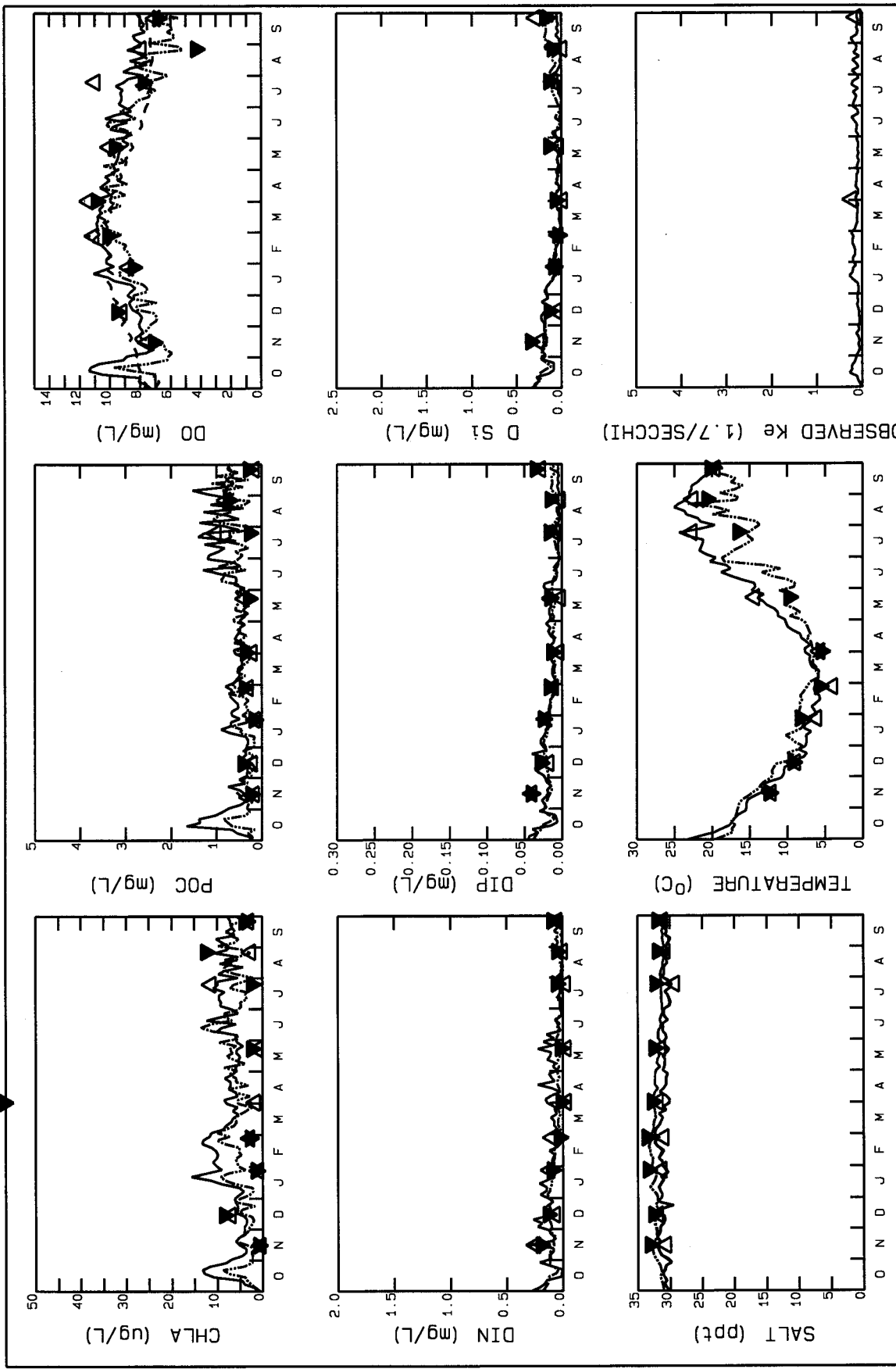


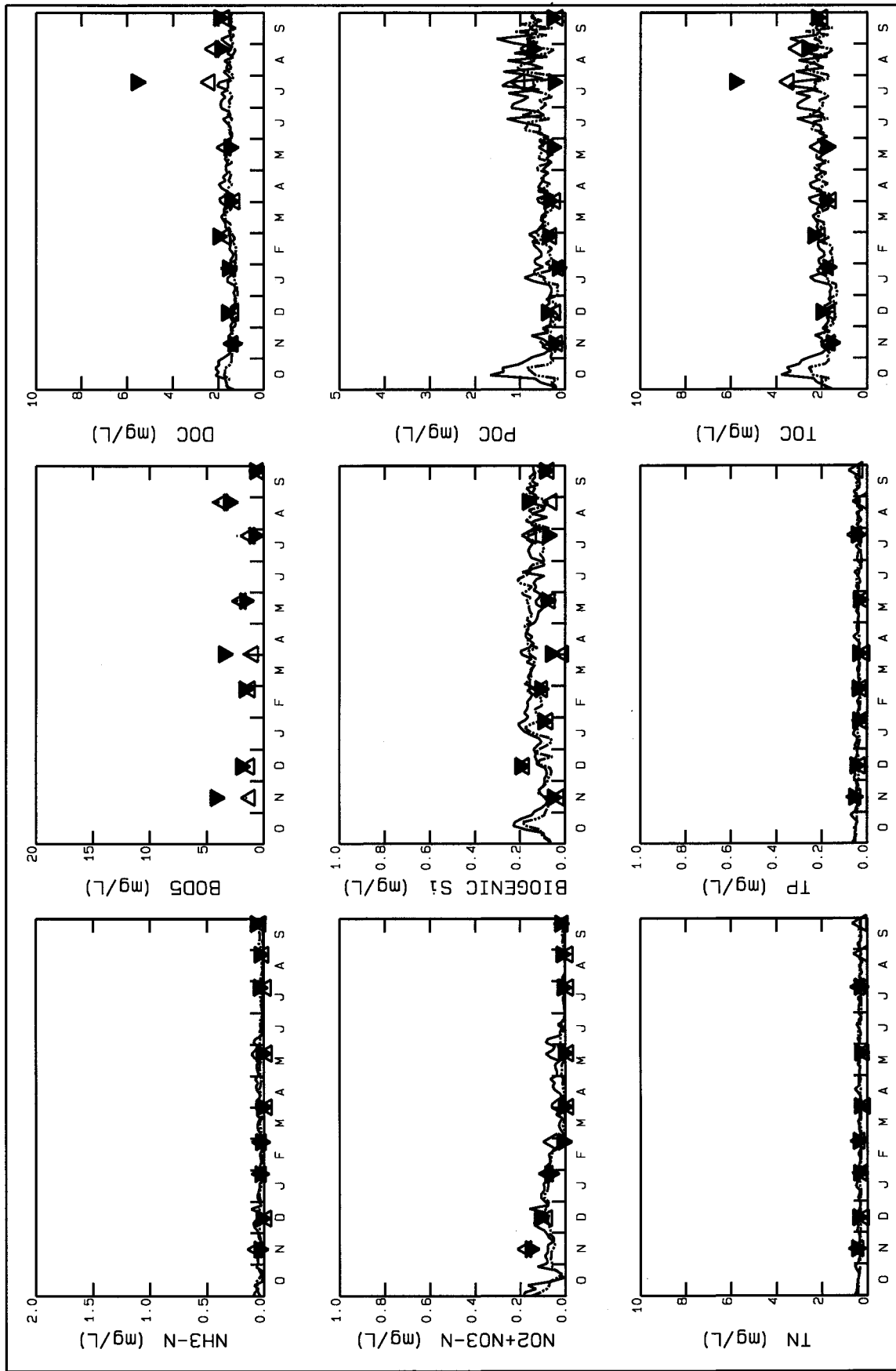
STATION 172 BIGHT-NY COAST

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:34:47

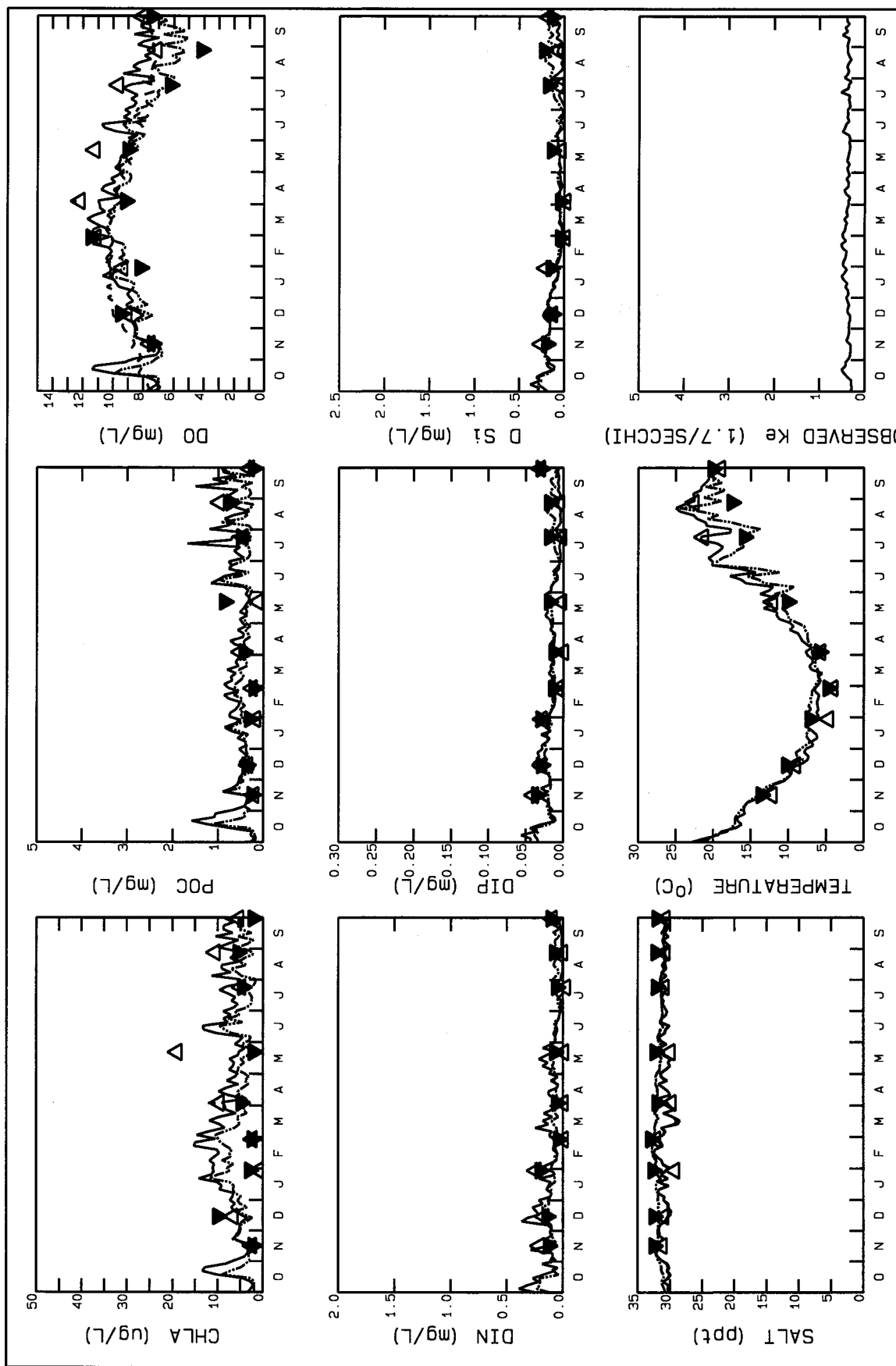




STATION 172 BIGHT-NY COAST

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

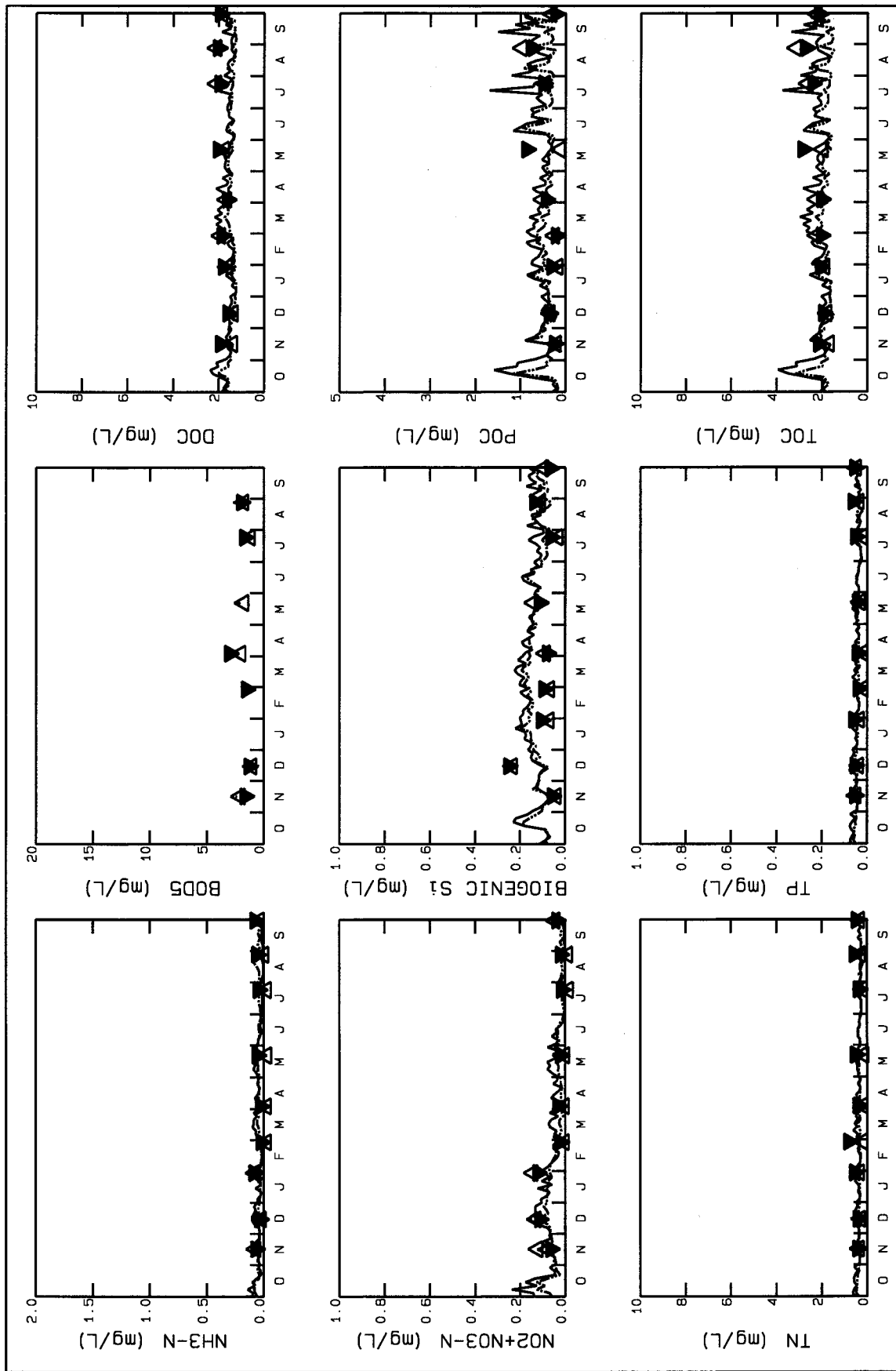


STATION 182 BIGHT-NJ COASTAL PLUME

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

DATE: Thu Apr 30 TIME: 10:35:09



STATION 182 BIGHT-NJ COASTAL PLUME

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

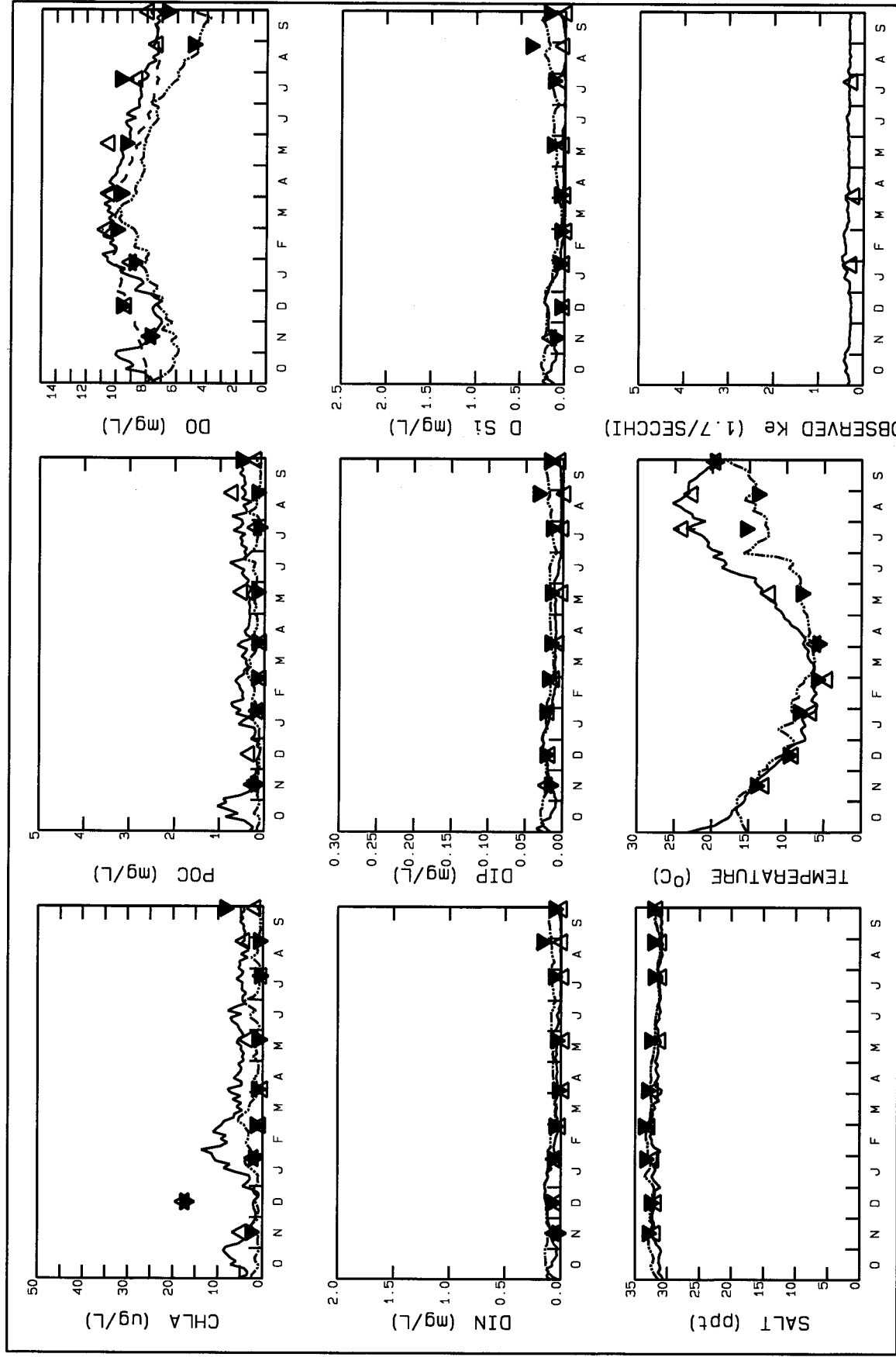
DATE: Thu Apr 30 TIME: 10:35:09

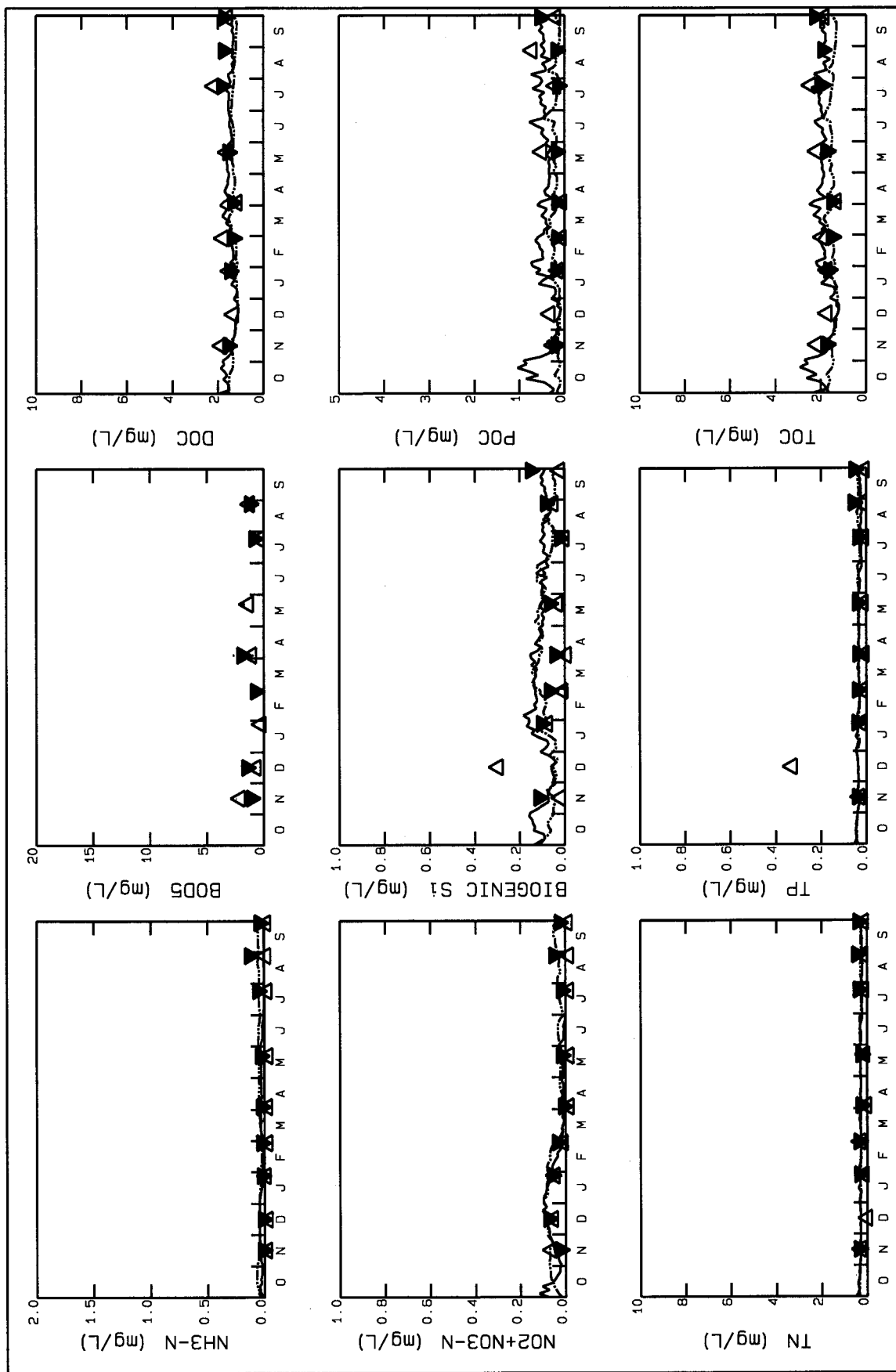
STATION 183 BIGHT-CENTRAL APEX TRANSECT

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

DATE: Thu Apr 30 TIME: 10:35:31



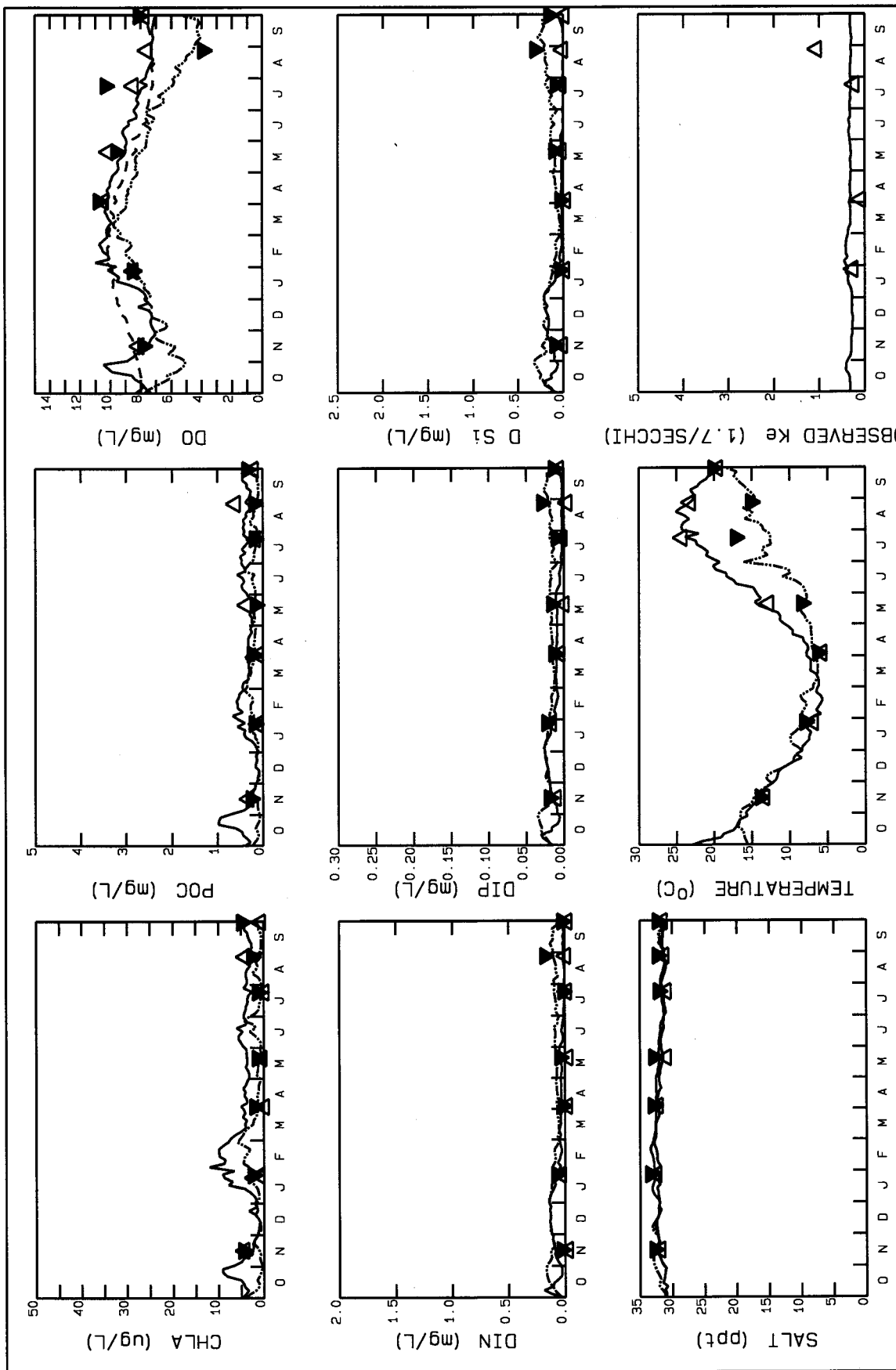


STATION 183 BIGHT-CENTRAL APEX TRANSECT

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

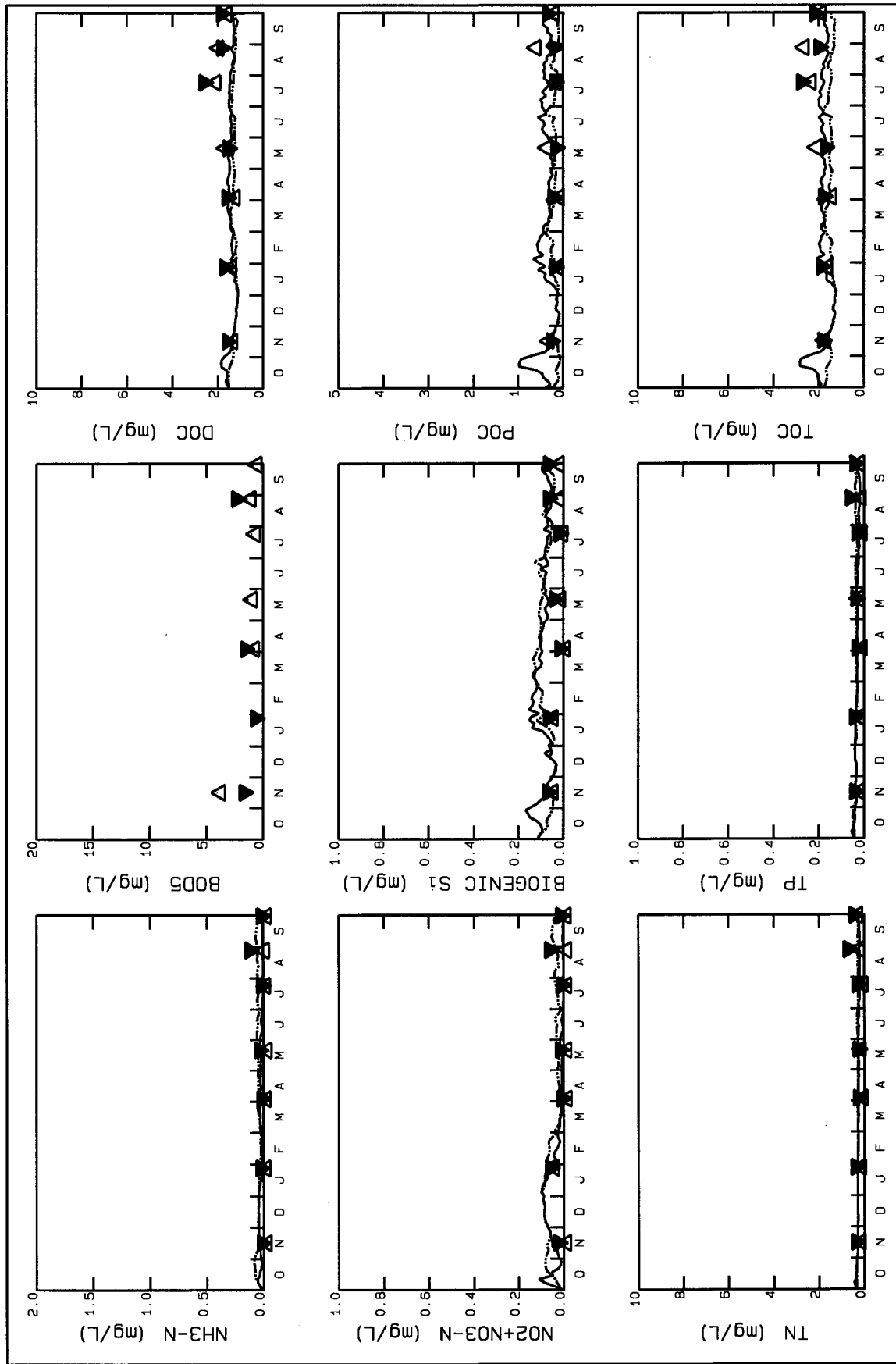
DATE: Thu Apr 30 TIME: 10:35:31



STATION 184 BIGHT-CENTRAL APEX TRANSECT

SWEM RUN 9495-BC3

SWEM 94-95 CALIBRATION

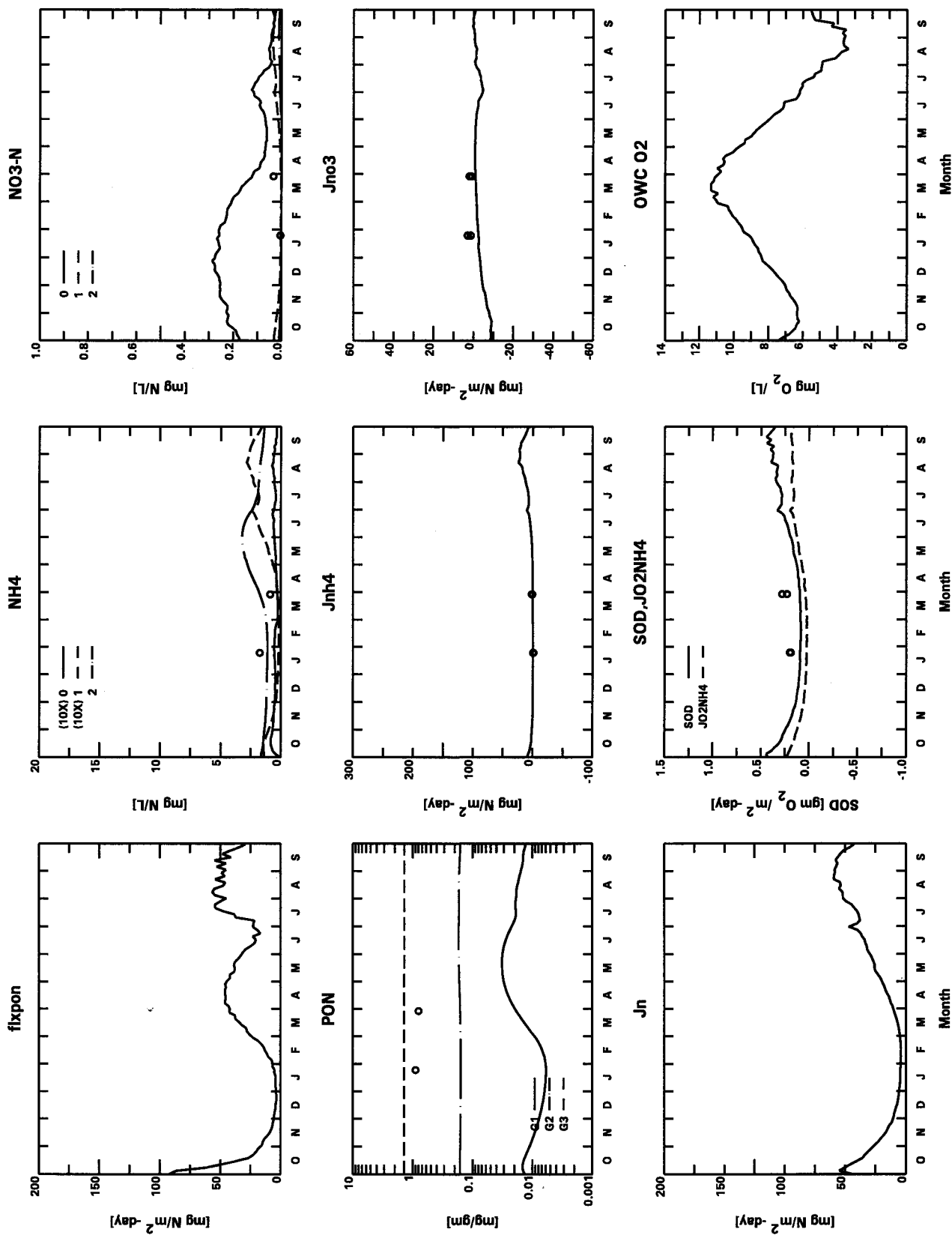


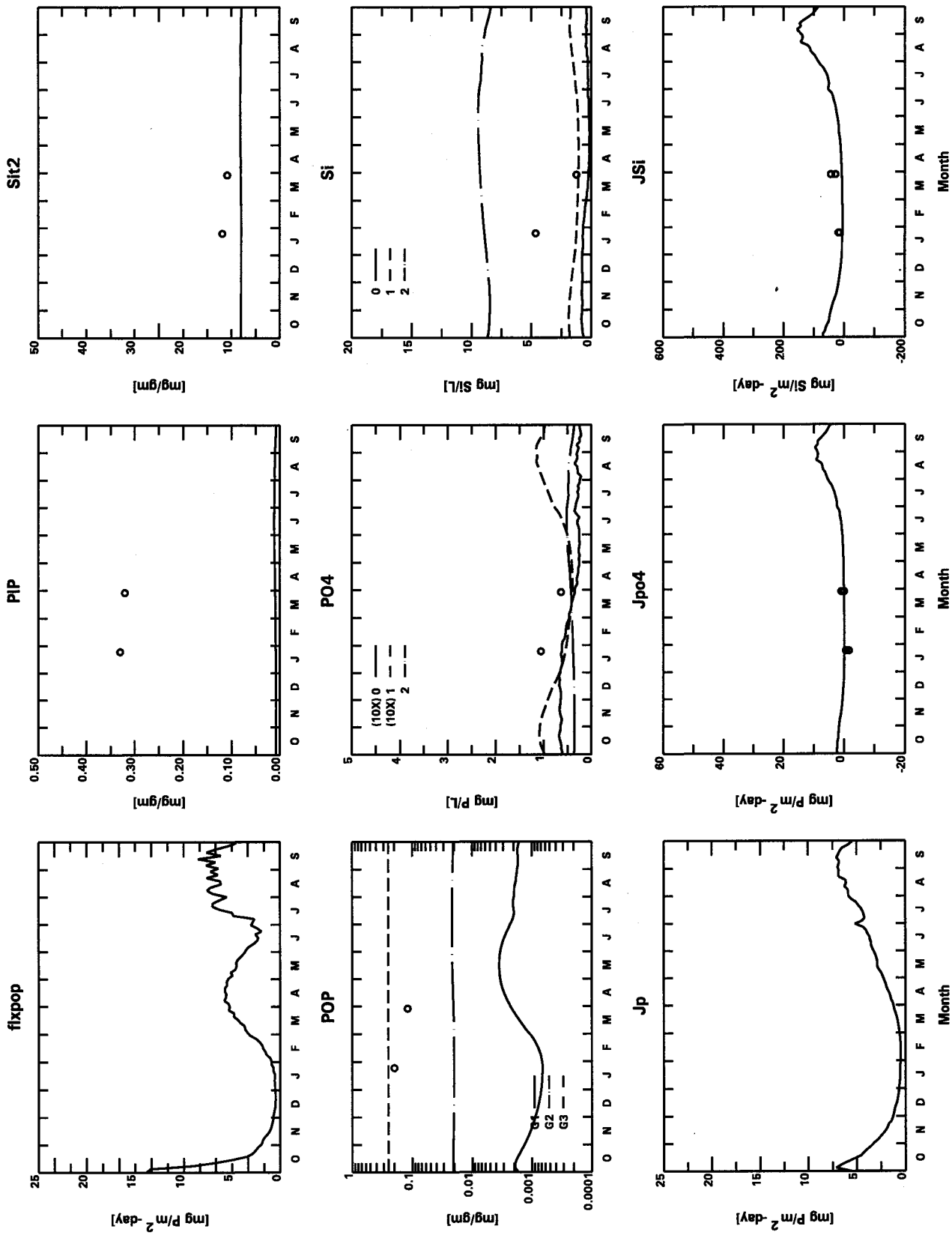
STATION 184 BIGHT-CENTRAL APEX TRANSECT

SWEM 94-95 CALIBRATION

SWEM RUN 9495-BC3

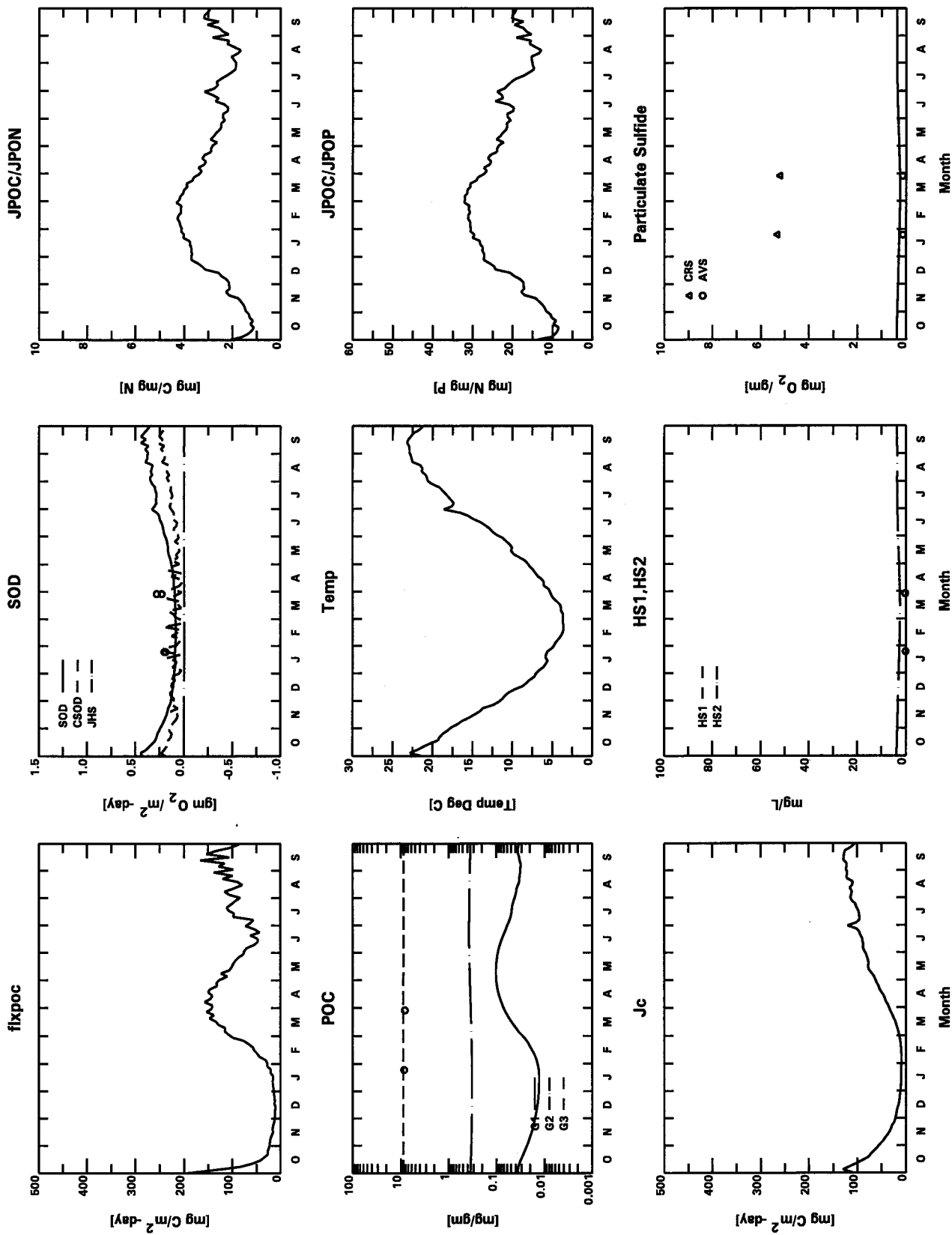
SEDIMENT FLUXES





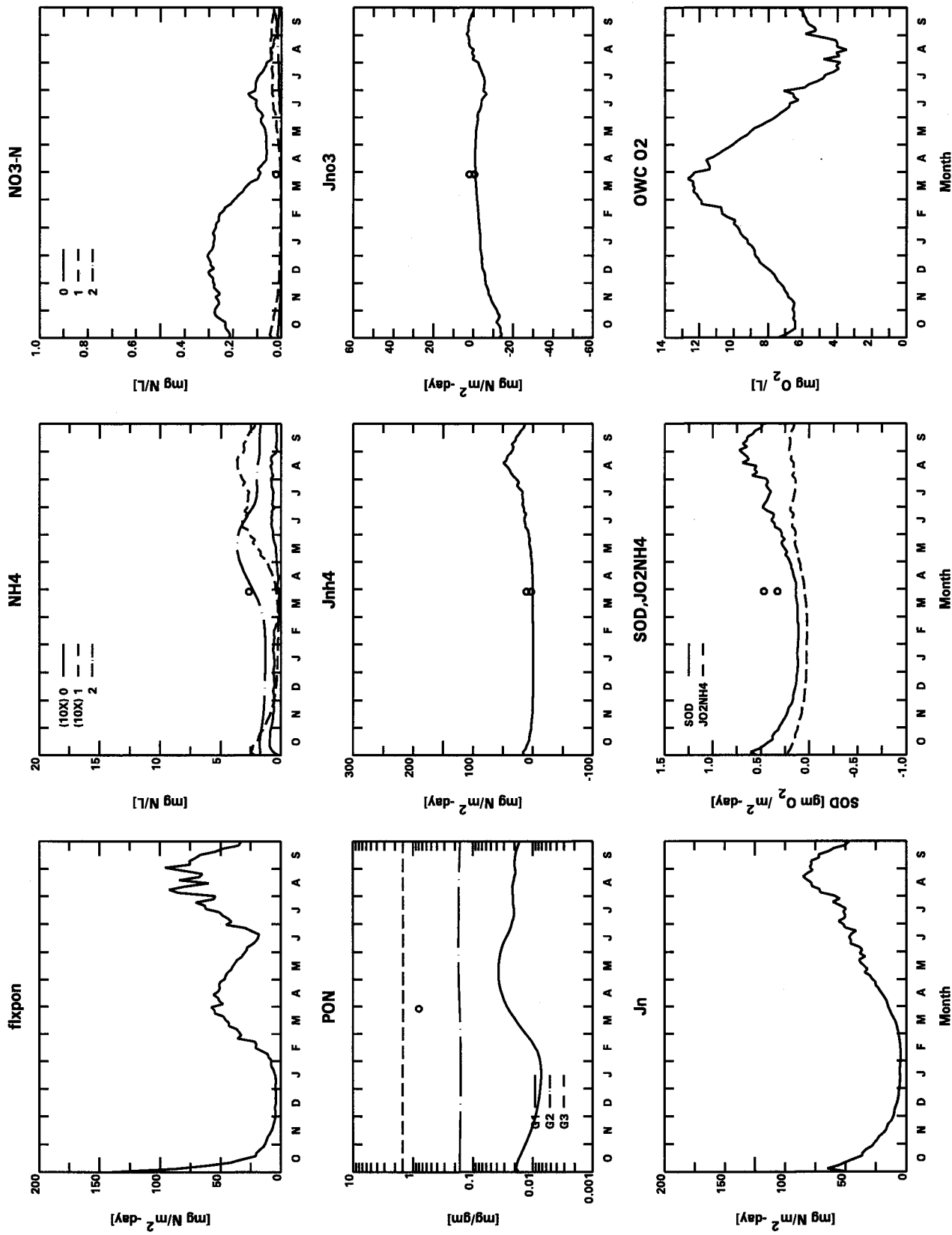
----- LEGEND -----
 O Data
 — Overlying Water
 - - - Aerobic Layer
 . . . Anaerobic Layer

1994 - 1995 Calibration Results for Segment (40/46)
 STATION 64 - Long Island Sound mp 52



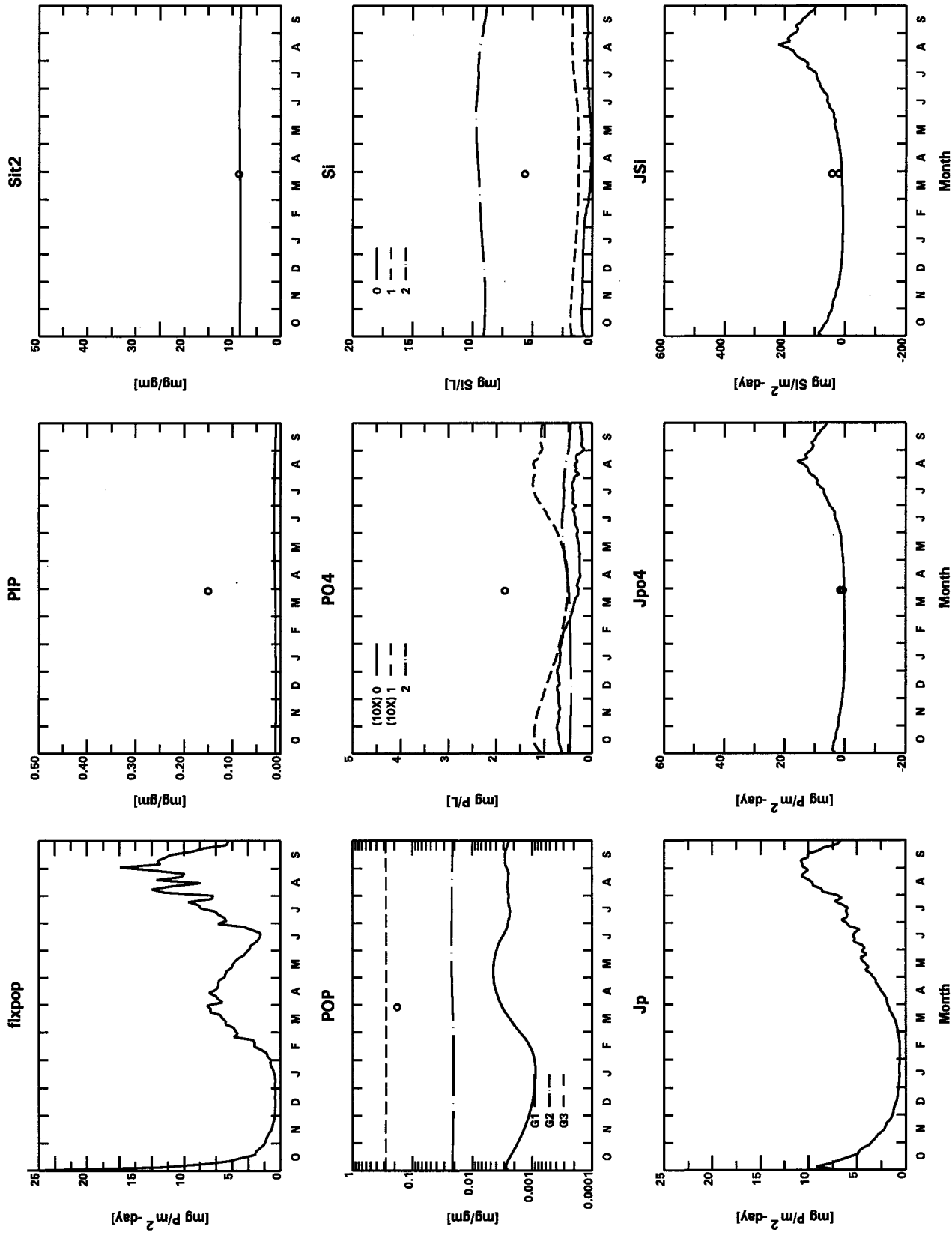
1994 - 1995 Calibration Results for Segment (40/46)

STATION 64 - Long Island Sound mp 52

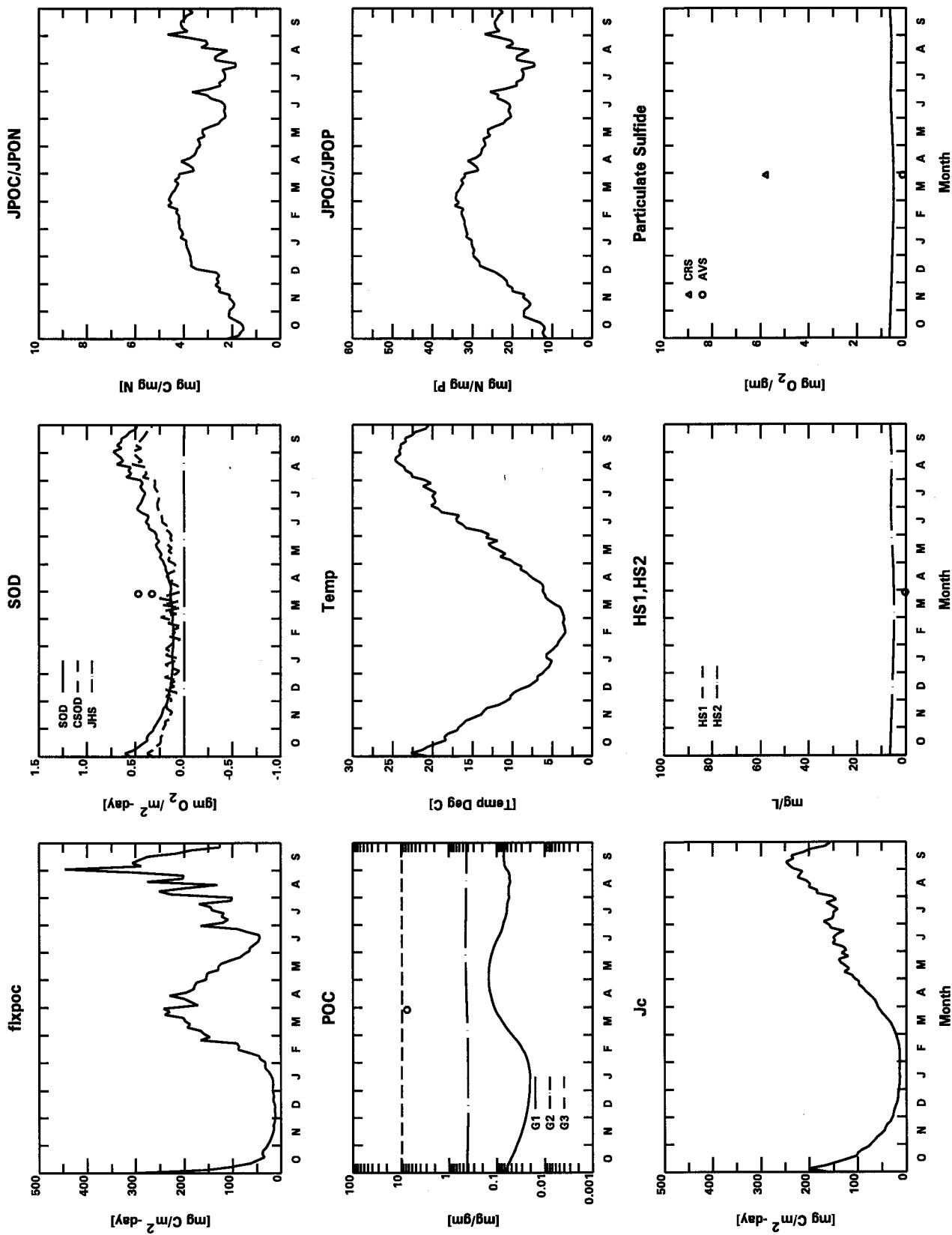


----- LEGEND -----
 O Data
 0 Overlying Water
 1 Aerobic Layer
 2 Anaerobic Layer

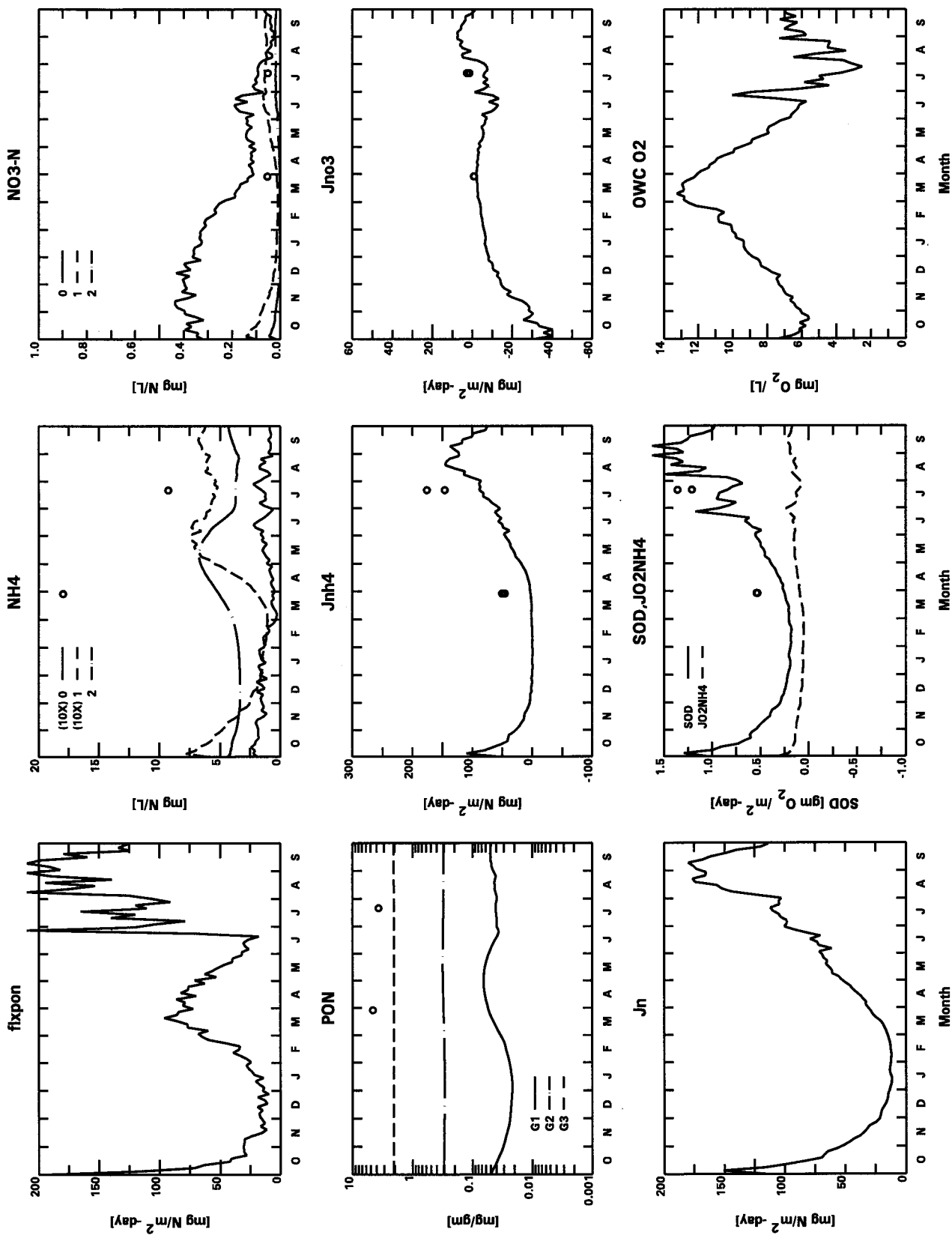
1994 - 1995 Calibration Results for Segment (39/48)
 STATION 42 - Long Island Sound near HEM boundary



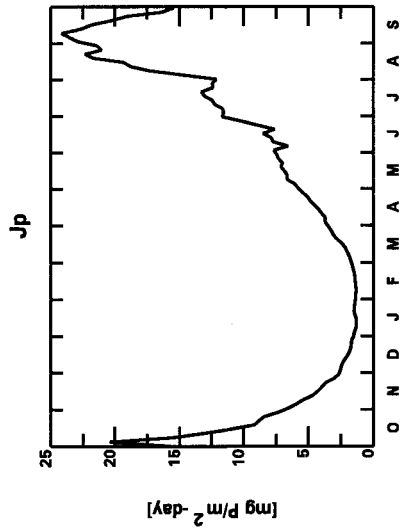
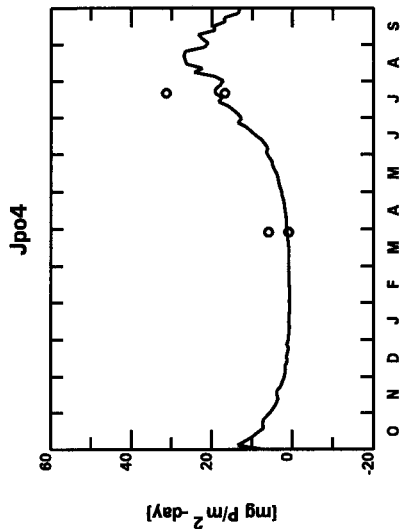
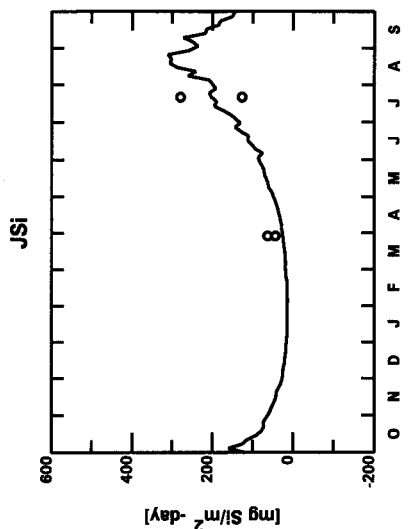
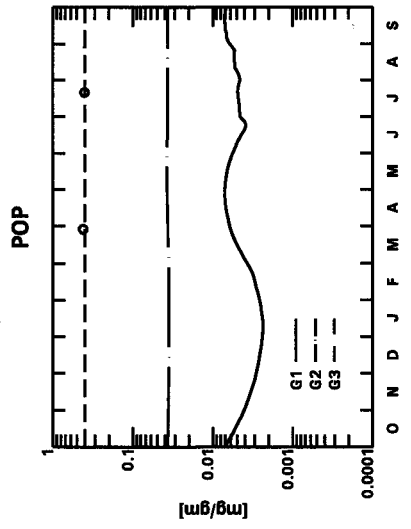
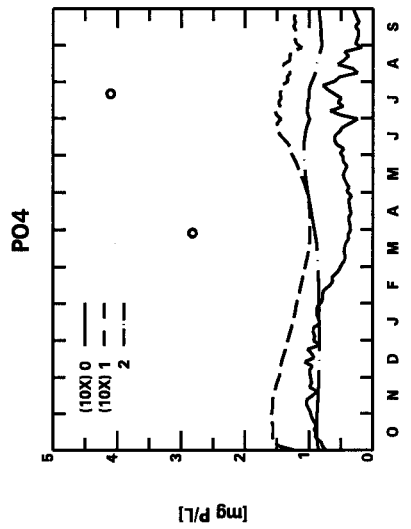
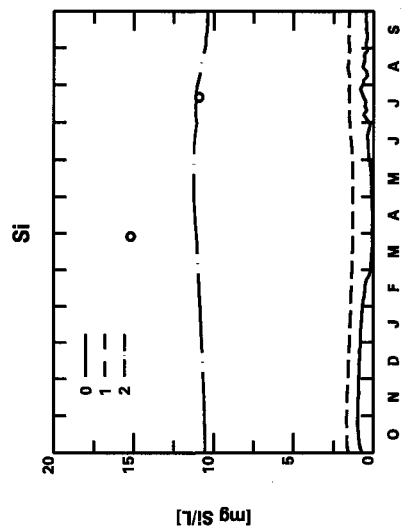
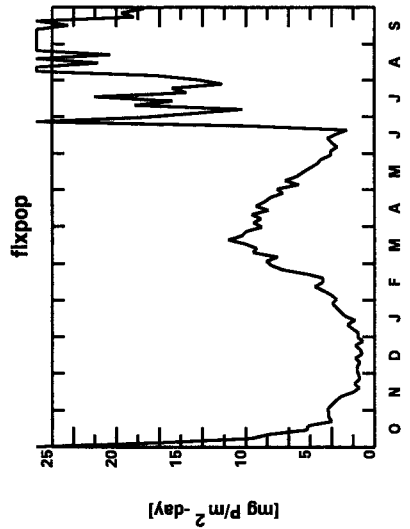
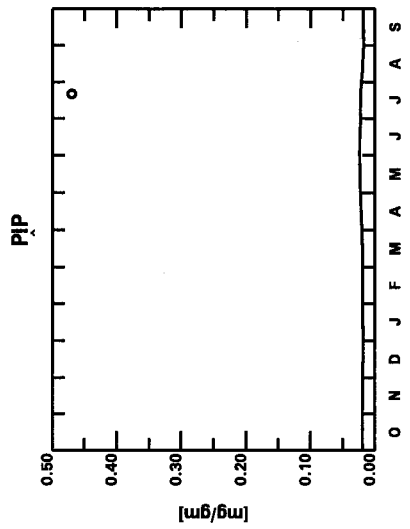
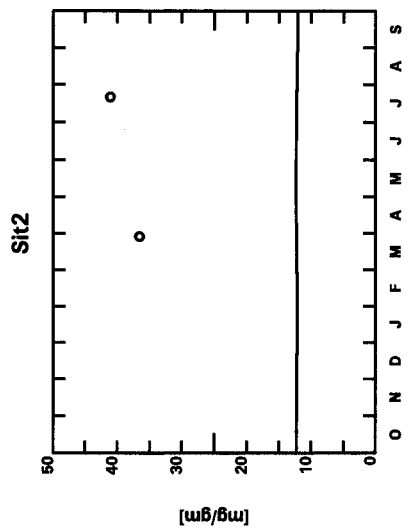
1994 - 1995 Calibration Results for Segment (39/48)
 STATION 42 - Long Island Sound near HEM boundary



1994 - 1995 Calibration Results for Segment (39/48)
 STATION 42 - Long Island Sound near HEM boundary

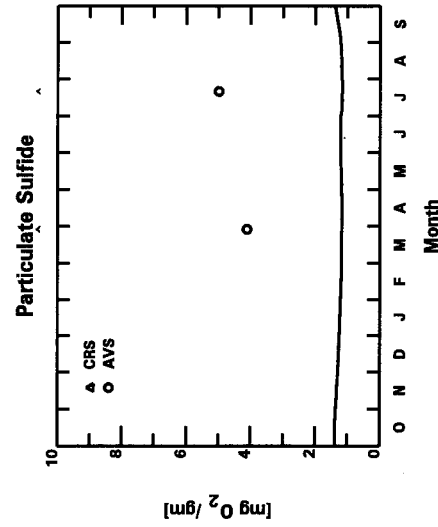
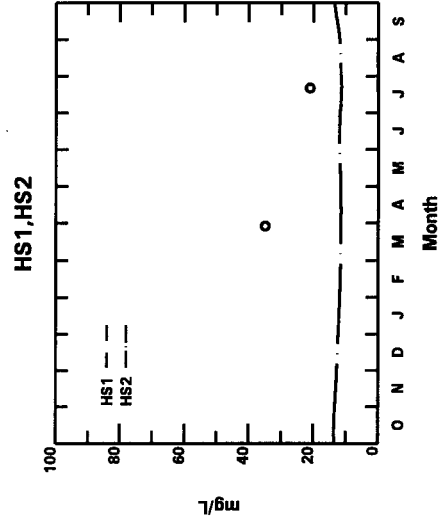
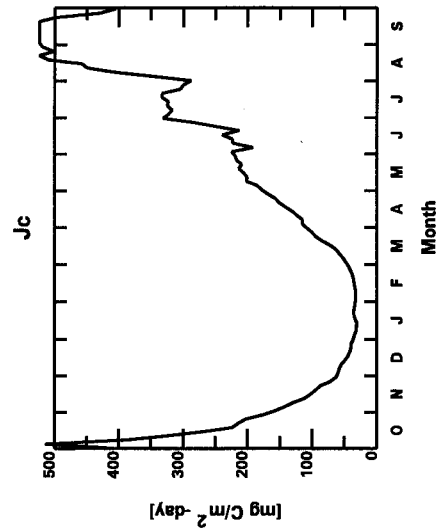
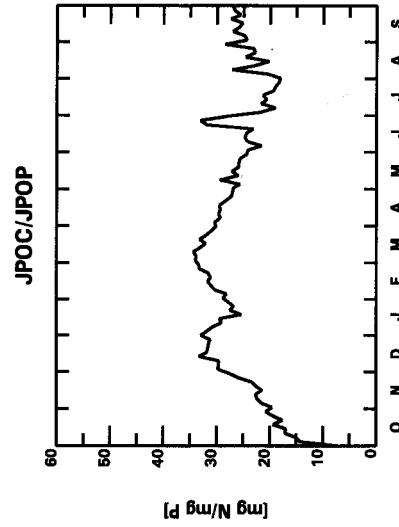
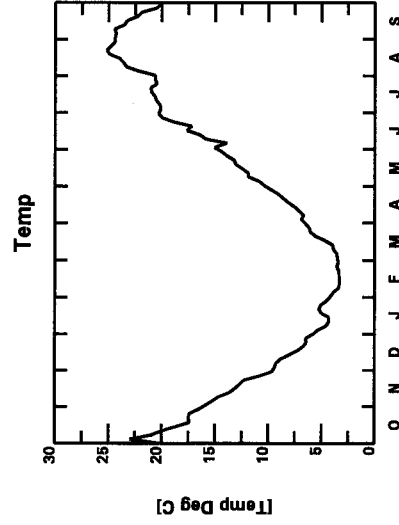
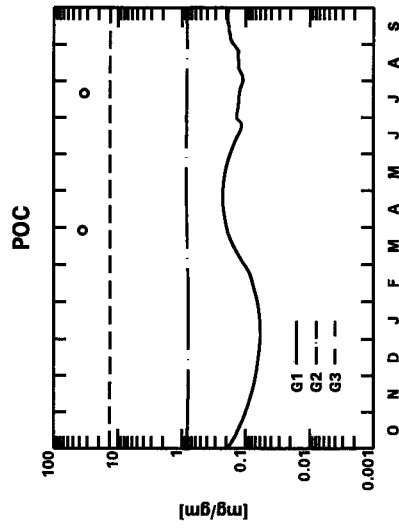
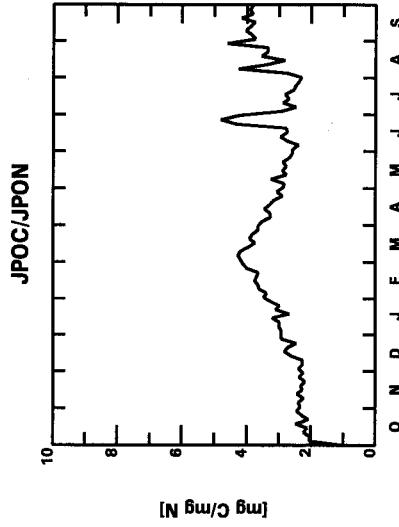
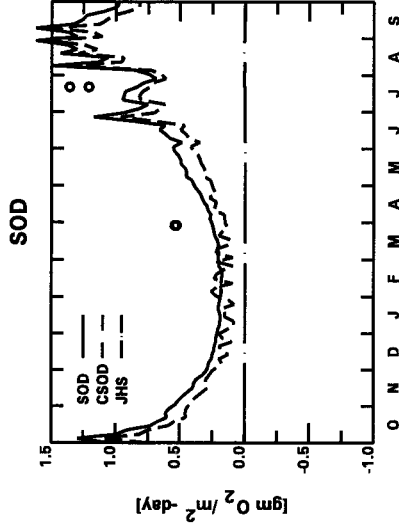
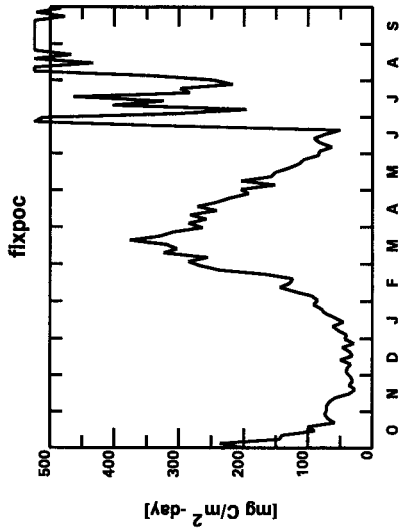


1994 - 1995 Calibration Results for Segment (43/54)
 STATION 123 - Western Long Island Sound mp 23



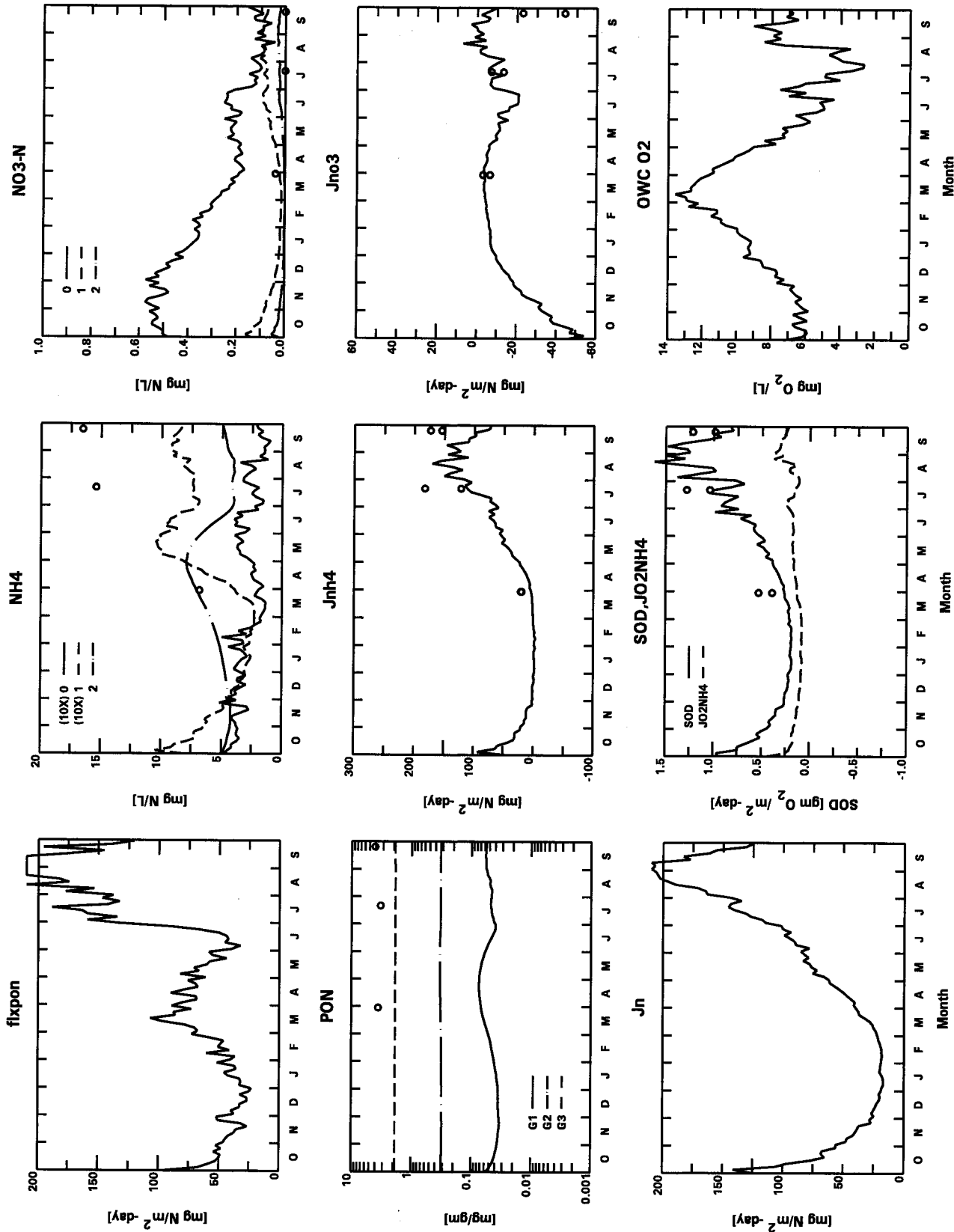
LEGEND
 o Data
 0 Overlying Water
 1 Aerobic Layer
 2 Anaerobic Layer

1994 - 1995 Calibration Results for Segment (43/54)
 STATION 123 - Western Long Island Sound mp 23



1994 - 1995 Calibration Results for Segment (43/54)
STATION 123 - Western Long Island Sound mp 23

LEGEND -----
o Data
0 Overlying Water
1 Aerobic Layer
2 Anserobic Layer



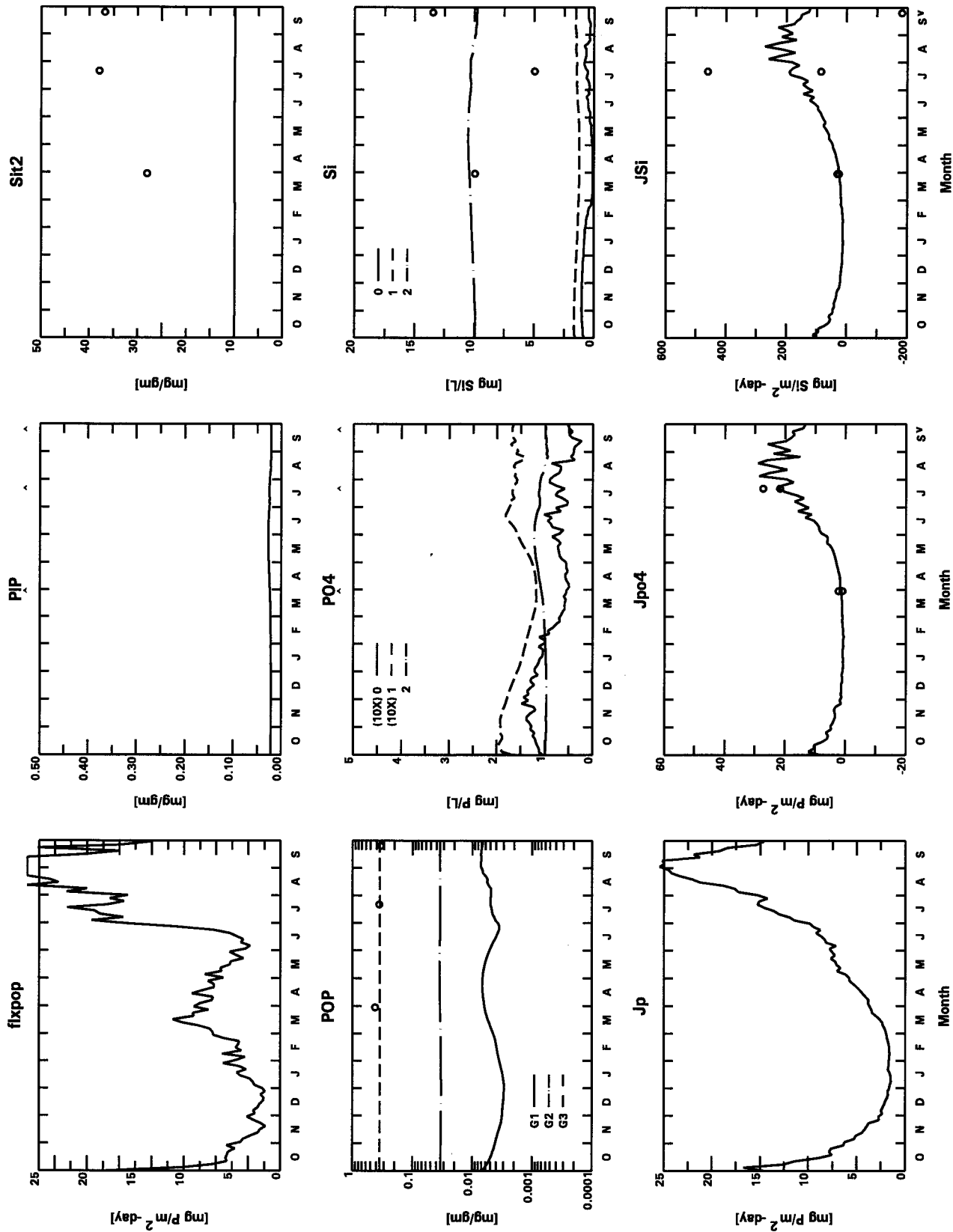
1994 - 1995 Calibration Results for Segment (38/55)

STATION 211 - Little Neck Bay

SWEM RUN NUMBER 9495-BC3

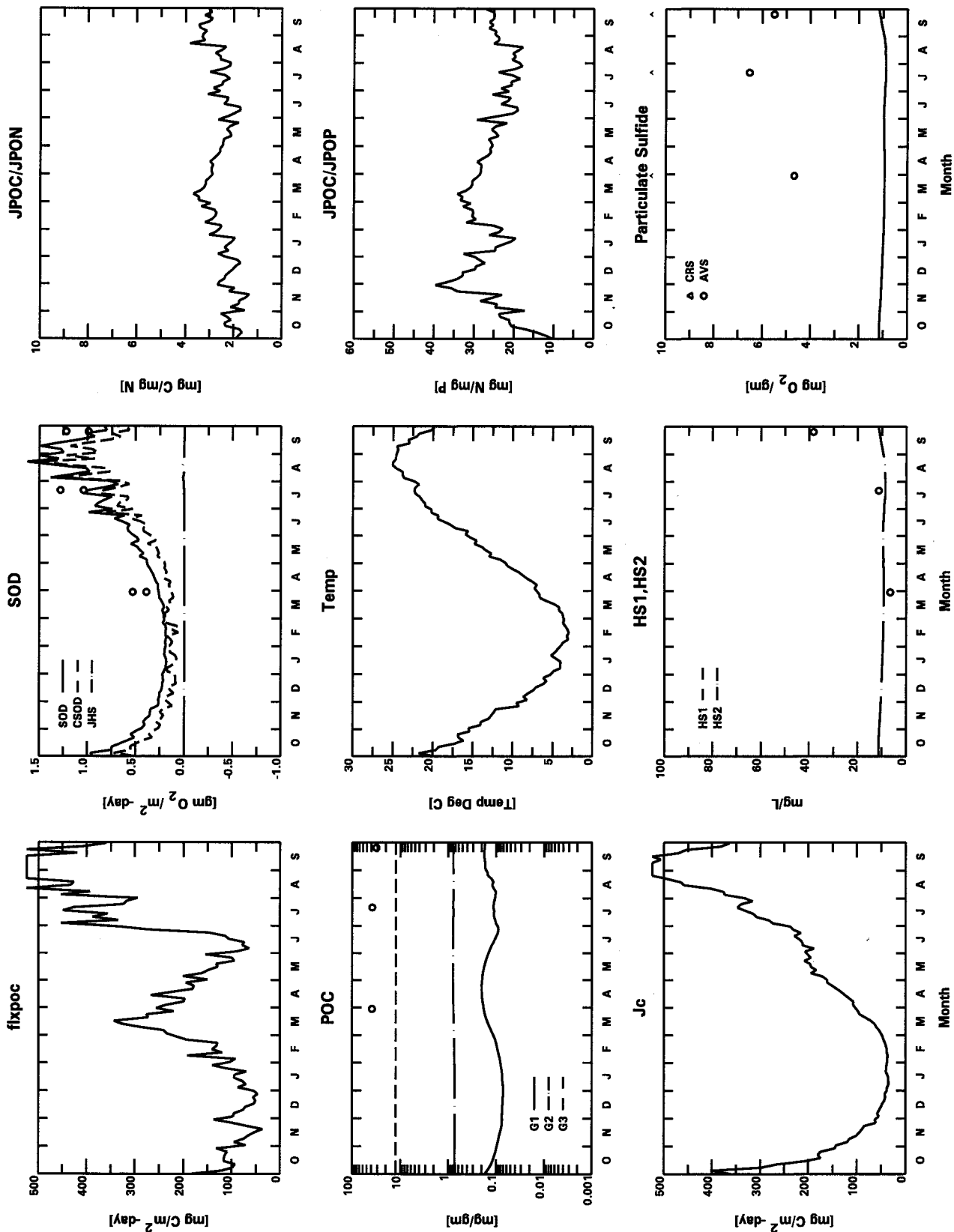
DATE: Wed Apr 29 TIME: 15:44:48

GRH0020 - SWEM



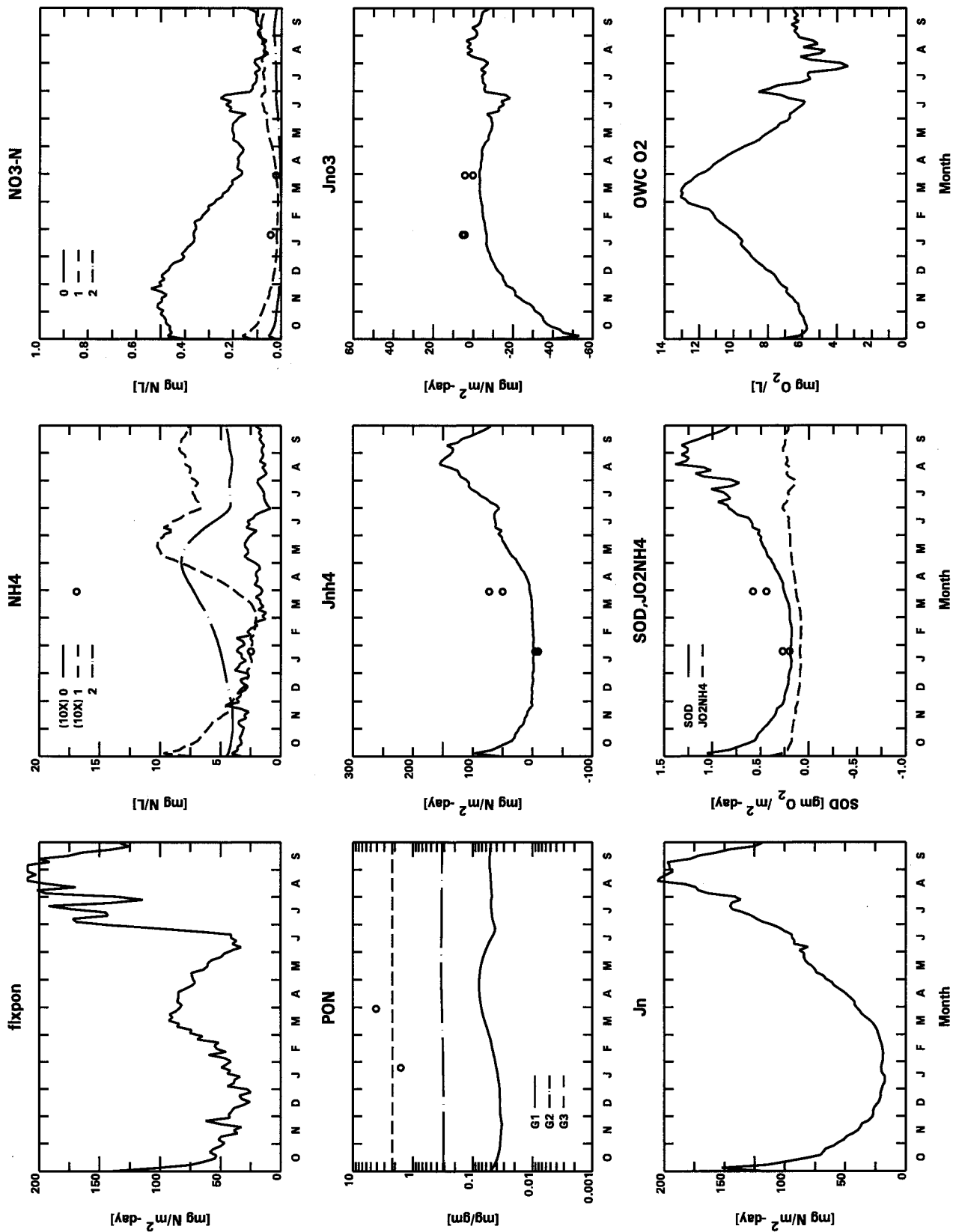
1994 - 1995 Calibration Results for Segment (38/55)

STATION 211 - Little Neck Bay



1994 - 1995 Calibration Results for Segment (38/55)

STATION 211 - Little Neck Bay

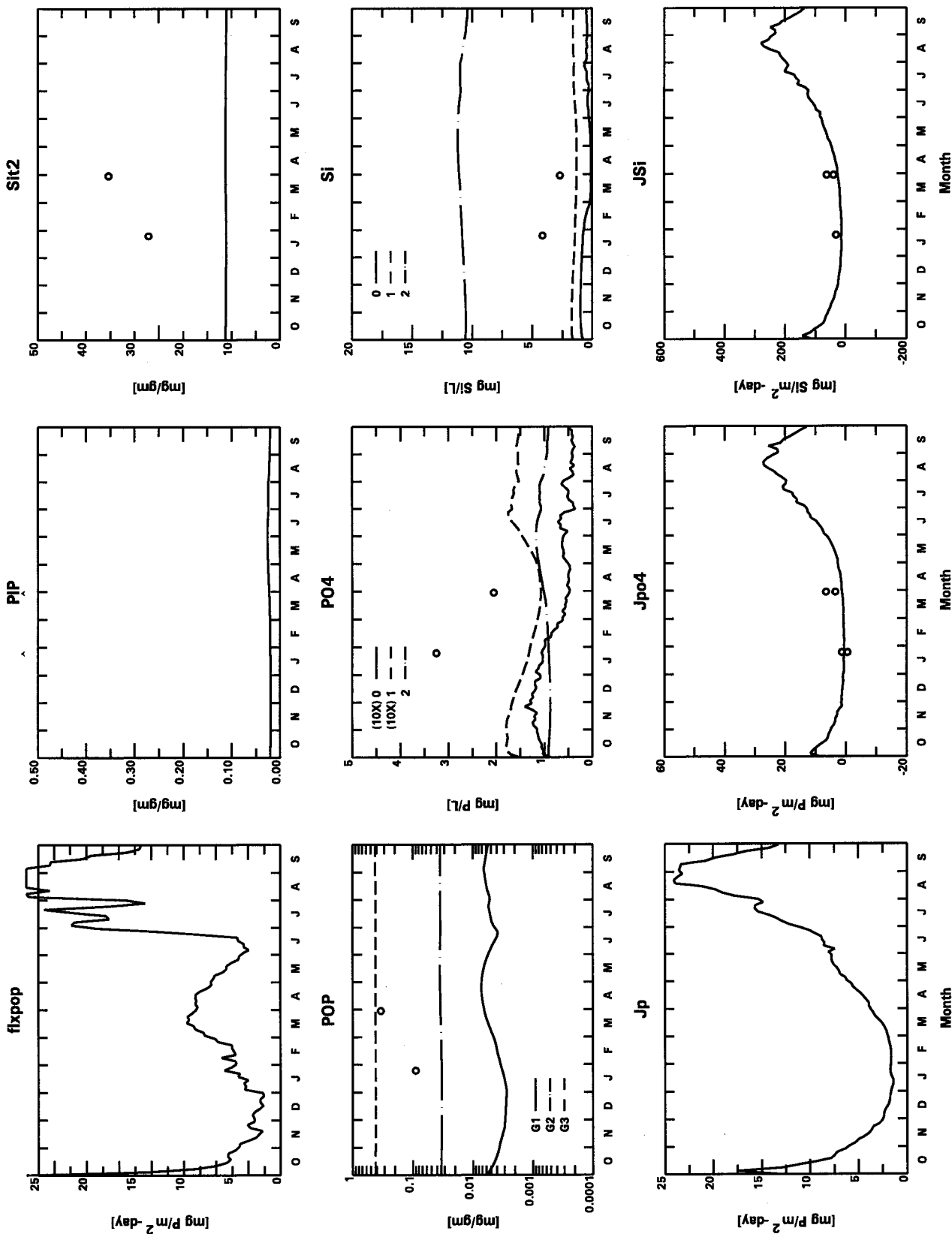


1994 - 1995 Calibration Results for Segment (37/56)

STATION 121 - Throgs Neck

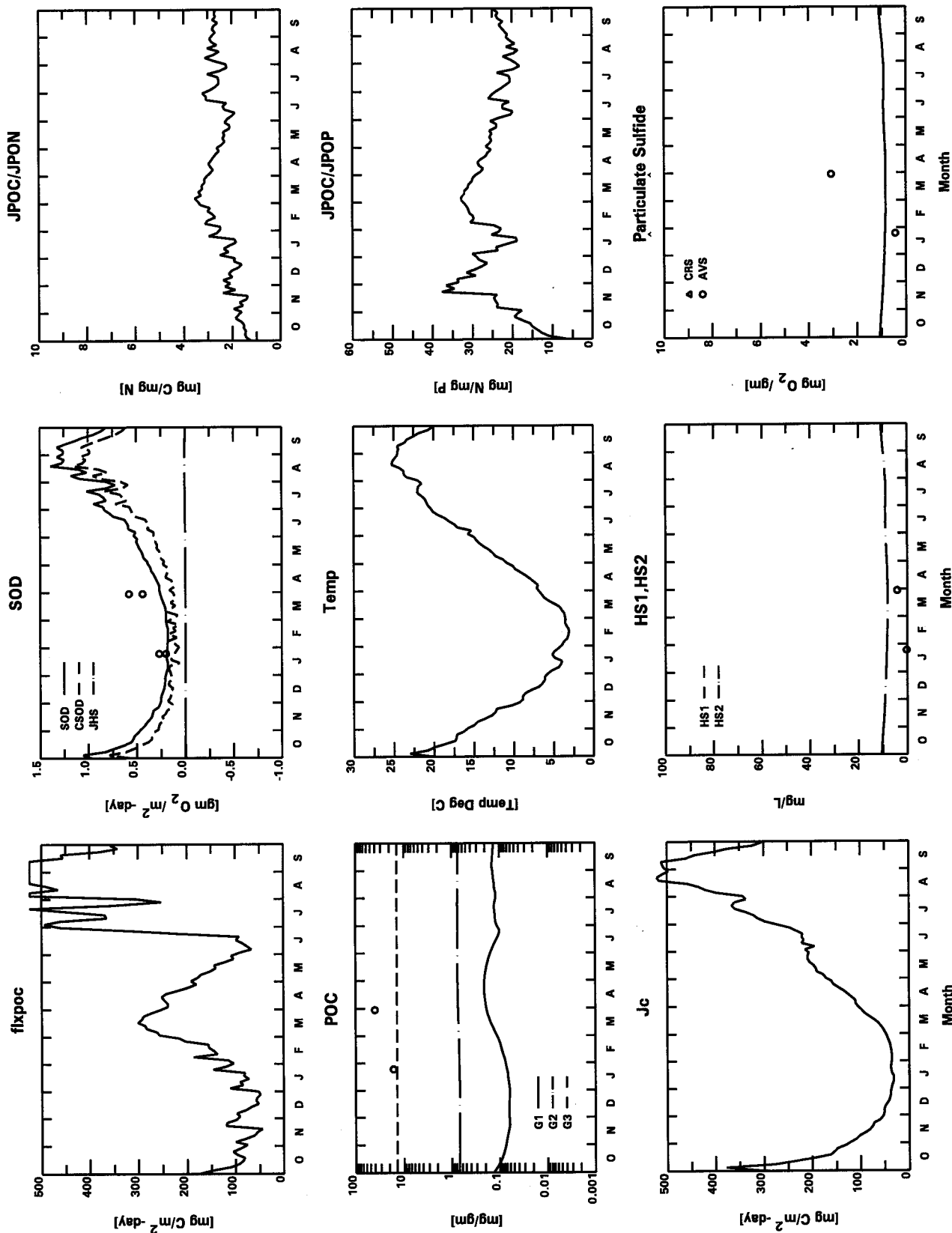
SWEM RUN NUMBER 9495-BC3

DATE: Wed Apr 29 TIME: 15:37:47
GRHN0020 - SWEM



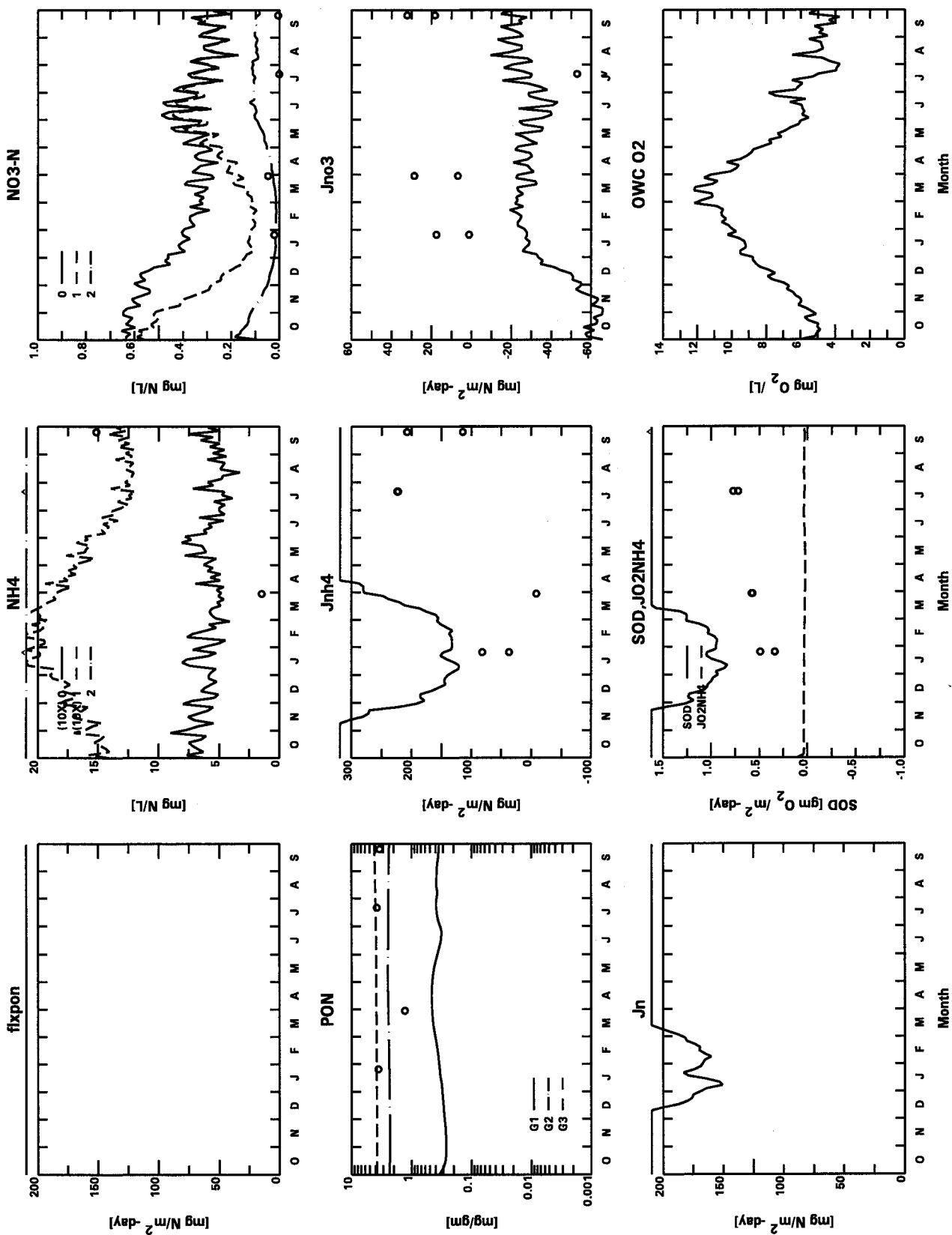
1994 - 1995 Calibration Results for Segment (37/56)

STATION 121 - Throgs Neck



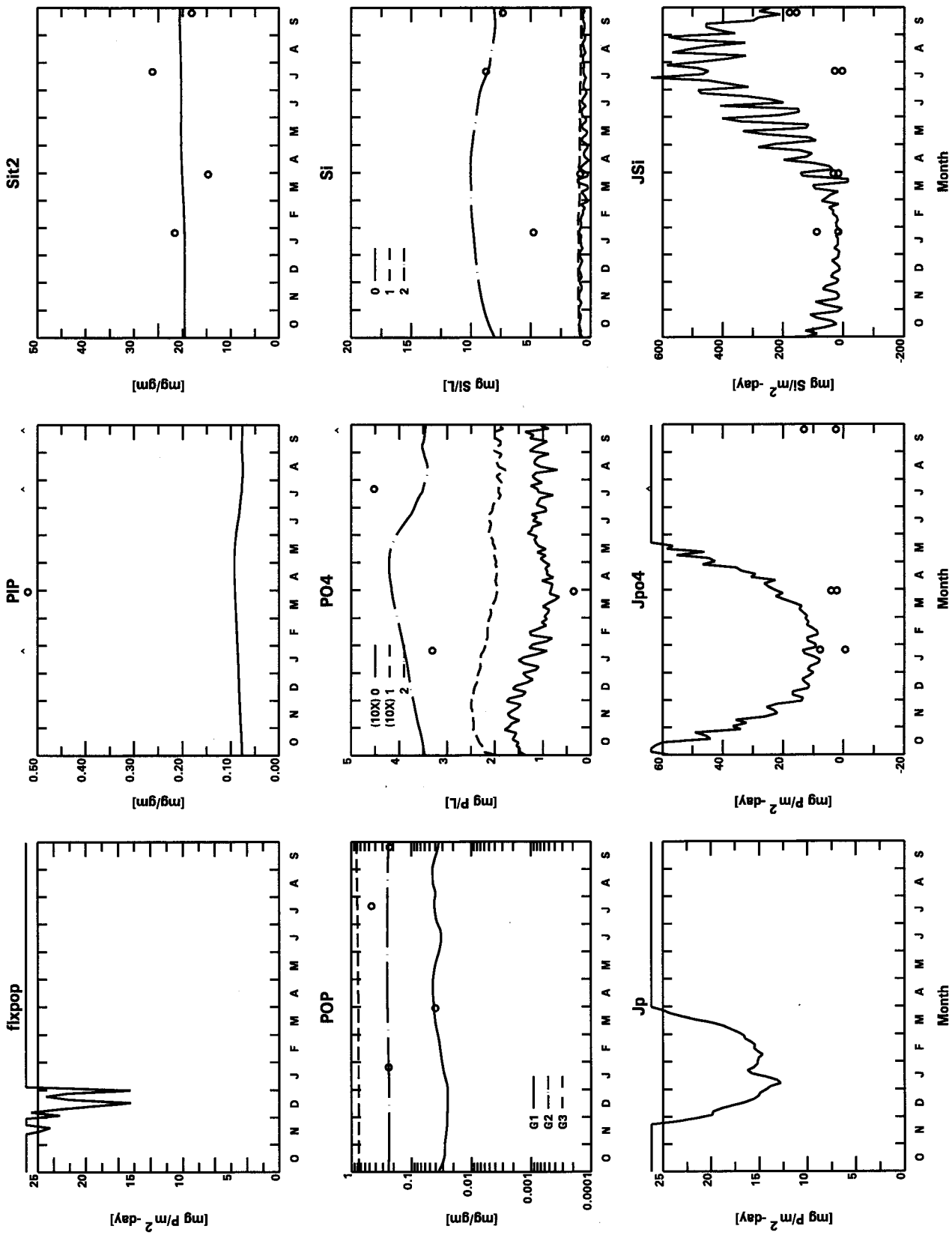
1994 - 1995 Calibration Results for Segment (37/56)

STATION 121 - Throgs Neck



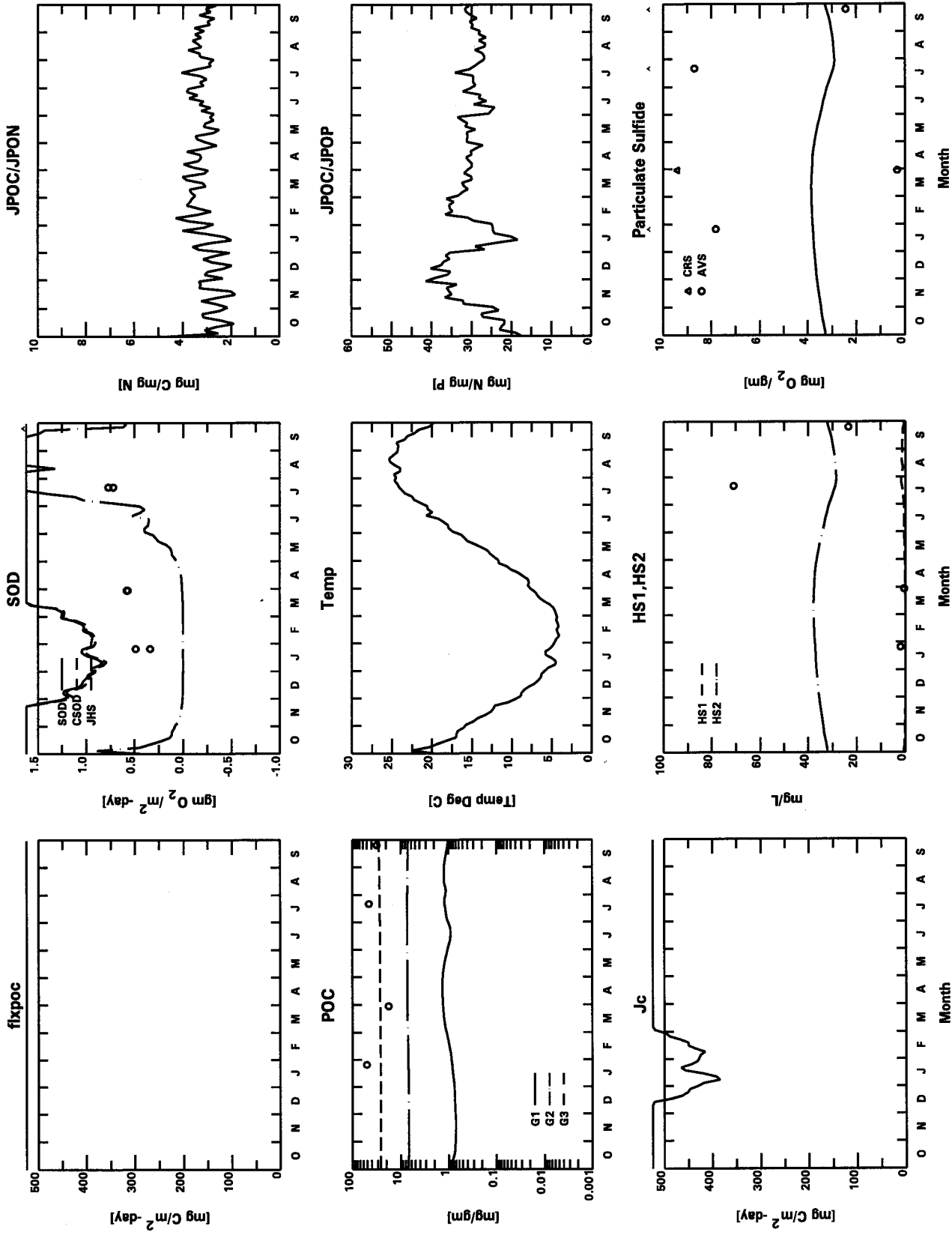
----- LEGEND -----
 O Data
 0 Overlying Water
 1 Aerobic Layer
 2 Anaerobic Layer

1994 - 1995 Calibration Results for Segment (23/52)
 STATION 54 - East River near Newtown Creek



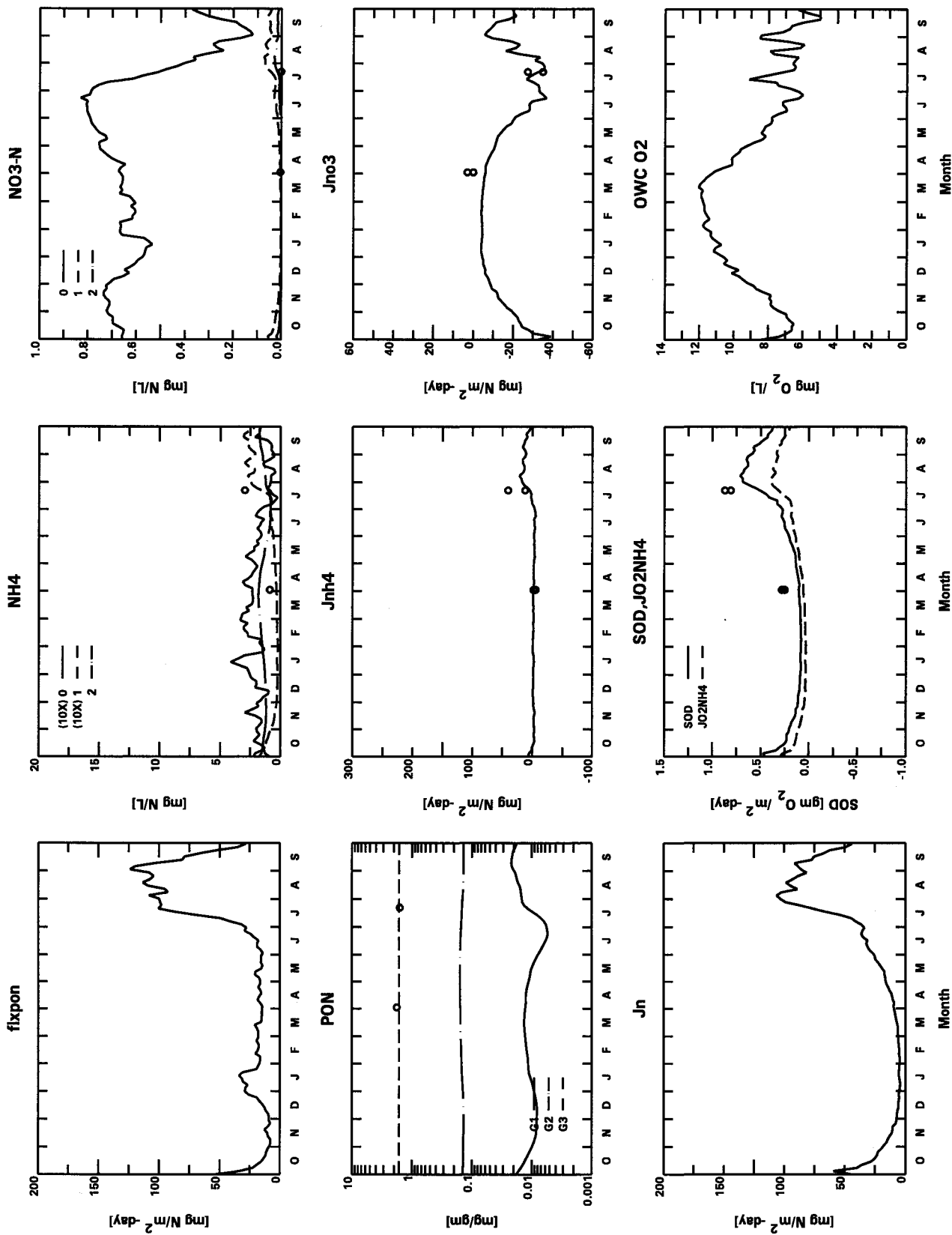
----- LEGEND -----
 O Data
 0 Overlying Water
 1 Aerobic Layer
 2 Anaerobic Layer

1994 - 1995 Calibration Results for Segment (23/52)
 STATION 54 - East River near Newtown Creek



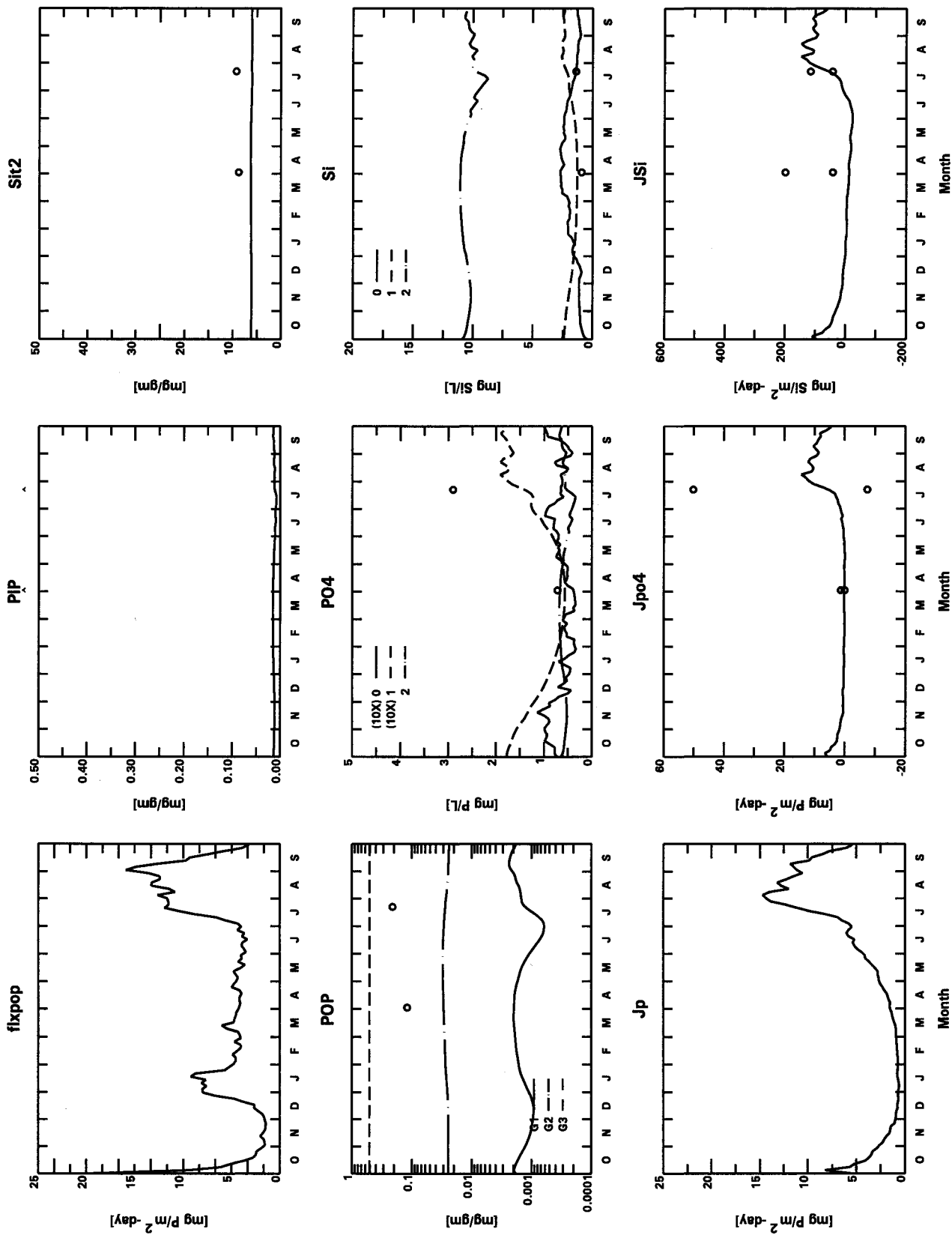
1994 - 1995 Calibration Results for Segment (23/52)

STATION 54 - East River near Newtown Creek

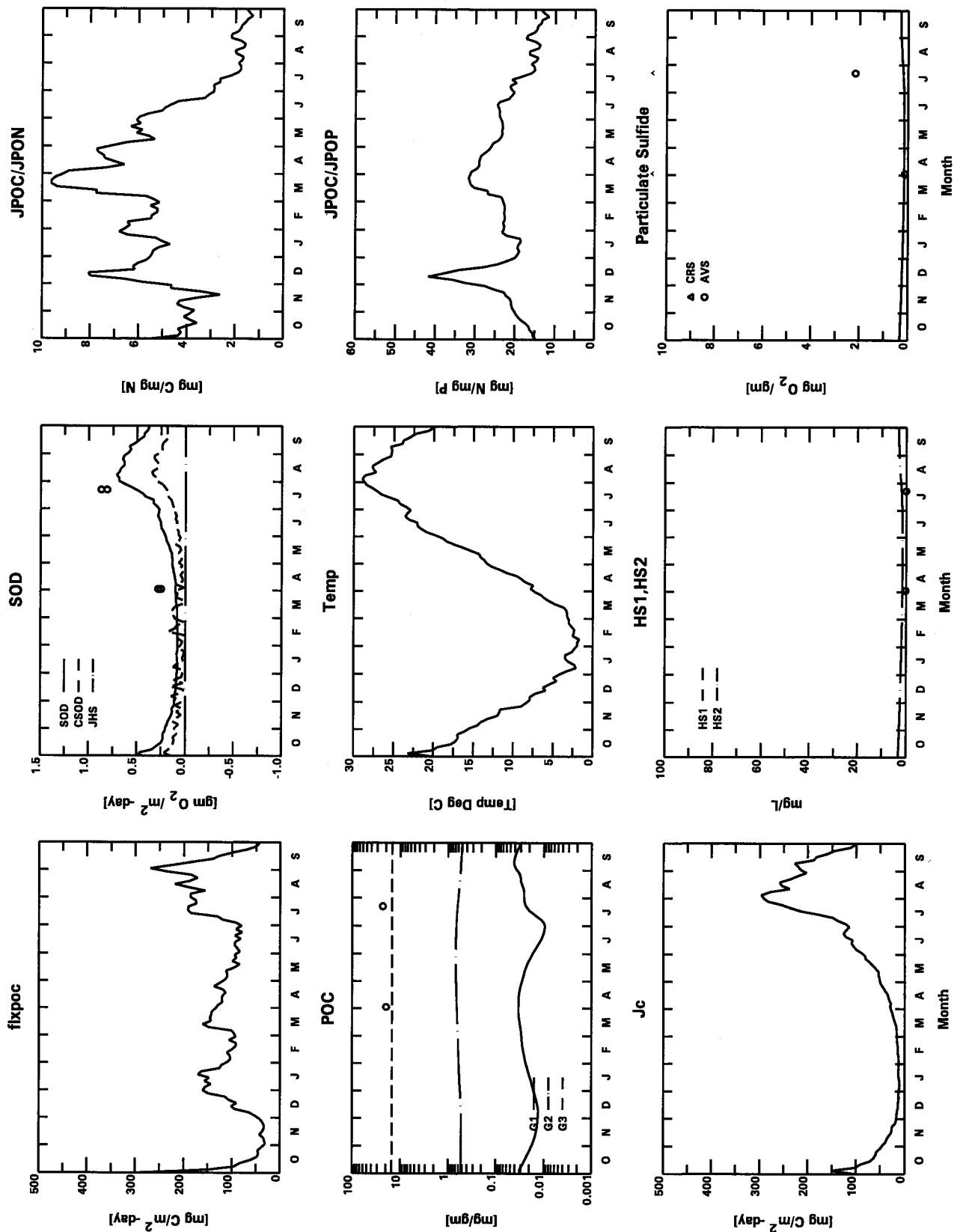


----- LEGEND -----
 O Data
 0 Overlying Water
 1 Aerobic Layer
 2 Anaerobic Layer

1994 - 1995 Calibration Results for Segment (18/77)
 STATION 163 - Haverstraw Bay

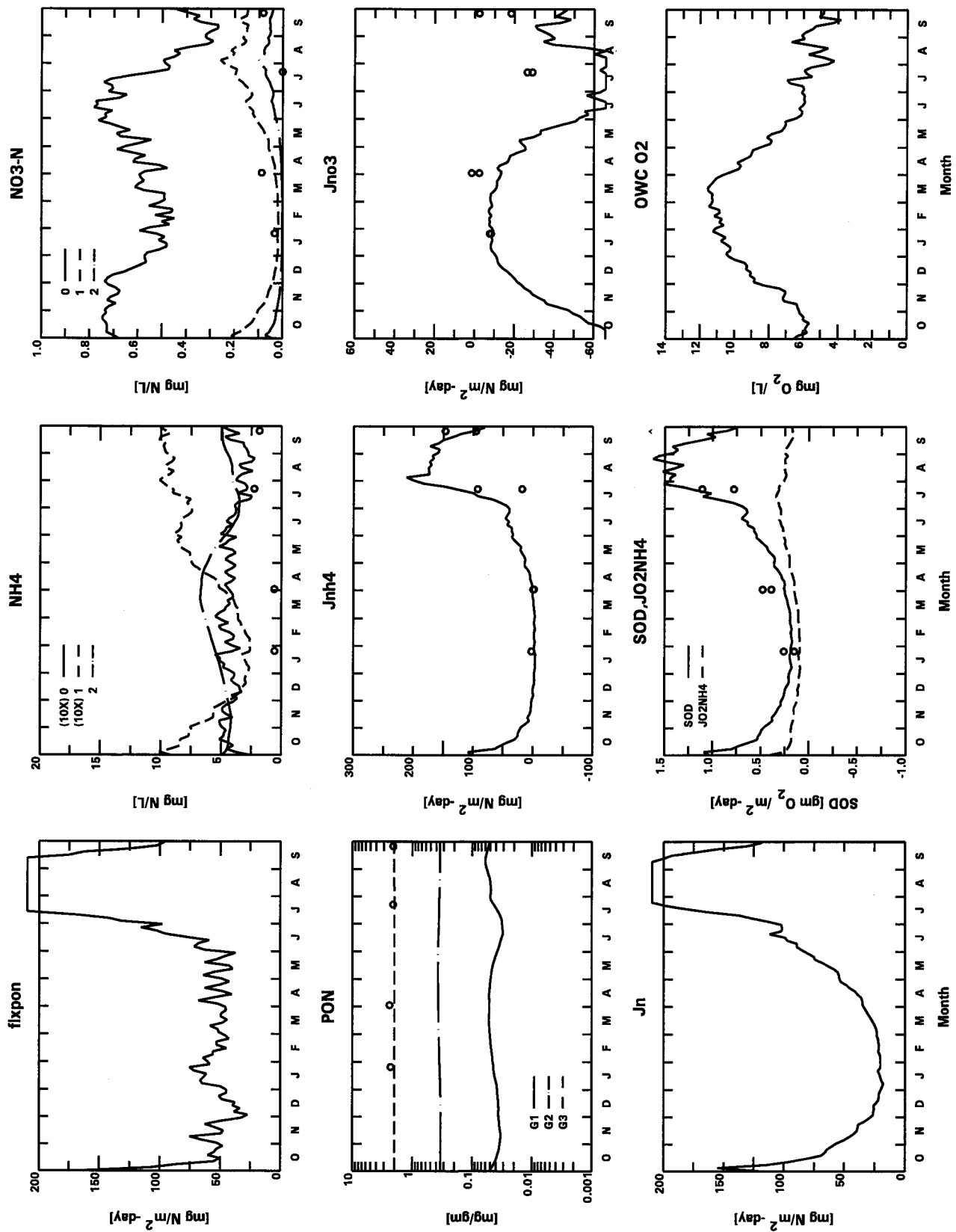


1994 - 1995 Calibration Results for Segment (18/77)
 STATION 163 - Haverstraw Bay



1994 - 1995 Calibration Results for Segment (18/77)

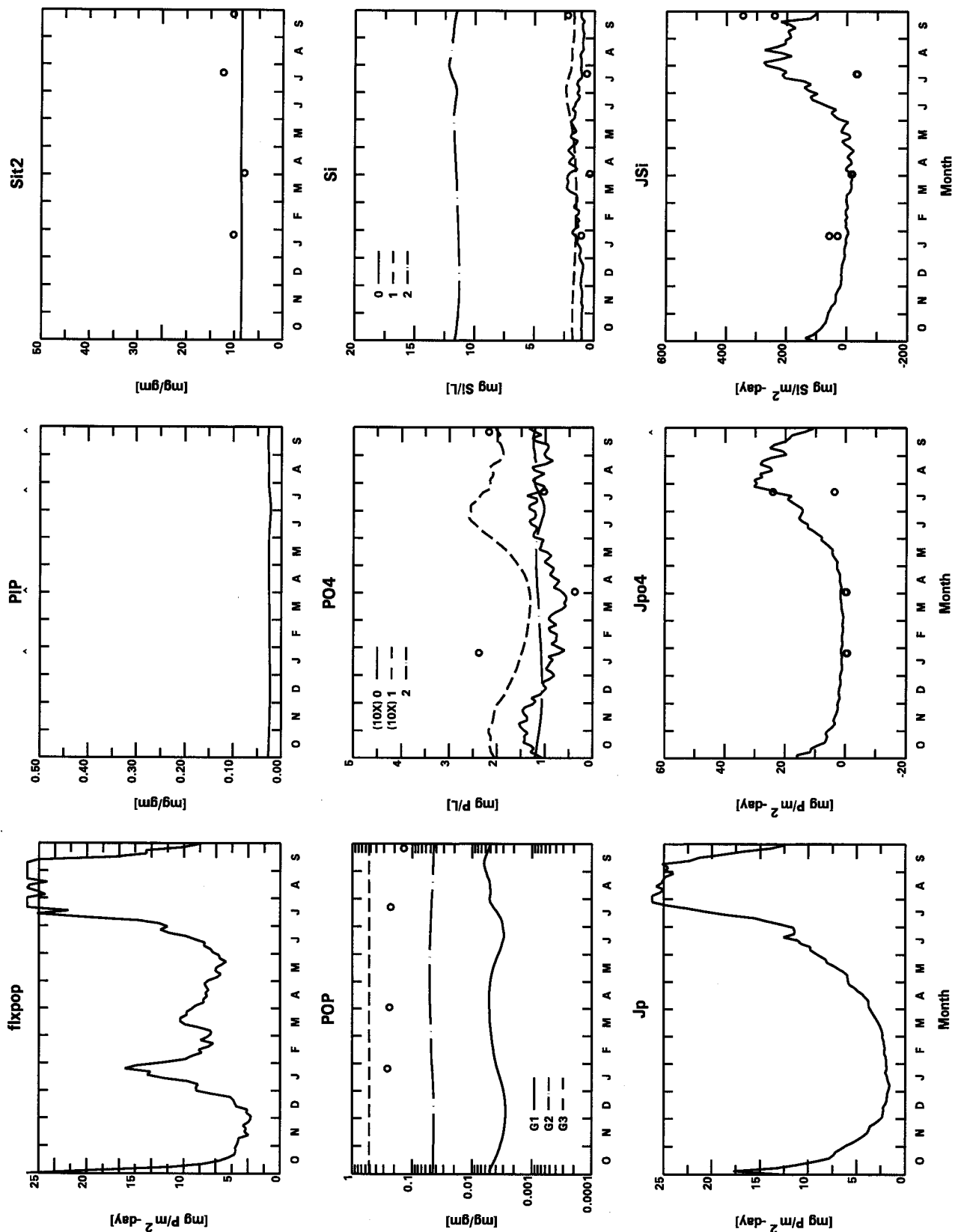
STATION 163 - Haverstraw Bay



SWEM RUN NUMBER 9495-BC3

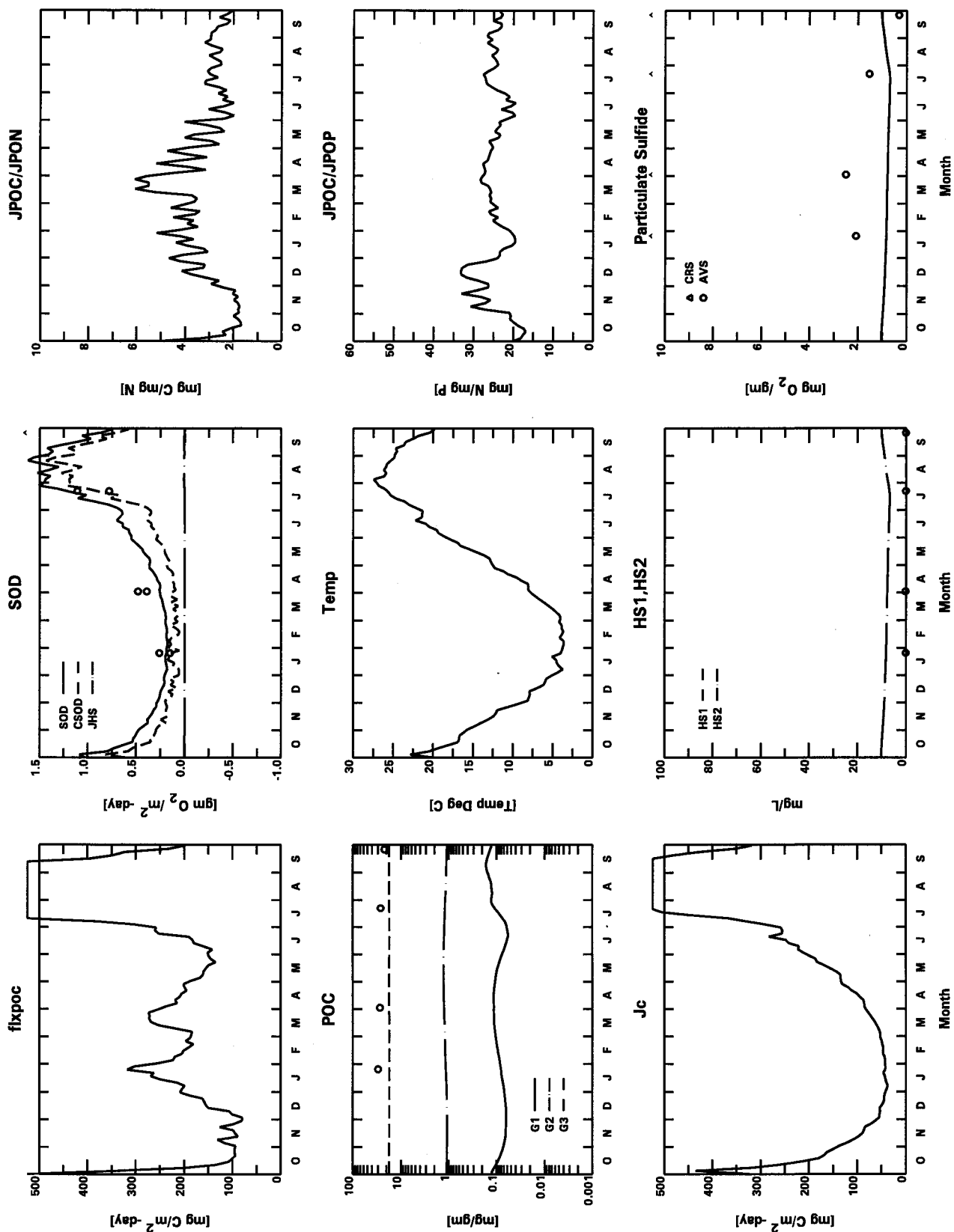
1994 - 1995 Calibration Results for Segment (19/70)

STATION 130 - Hudson River Mt St Vincent



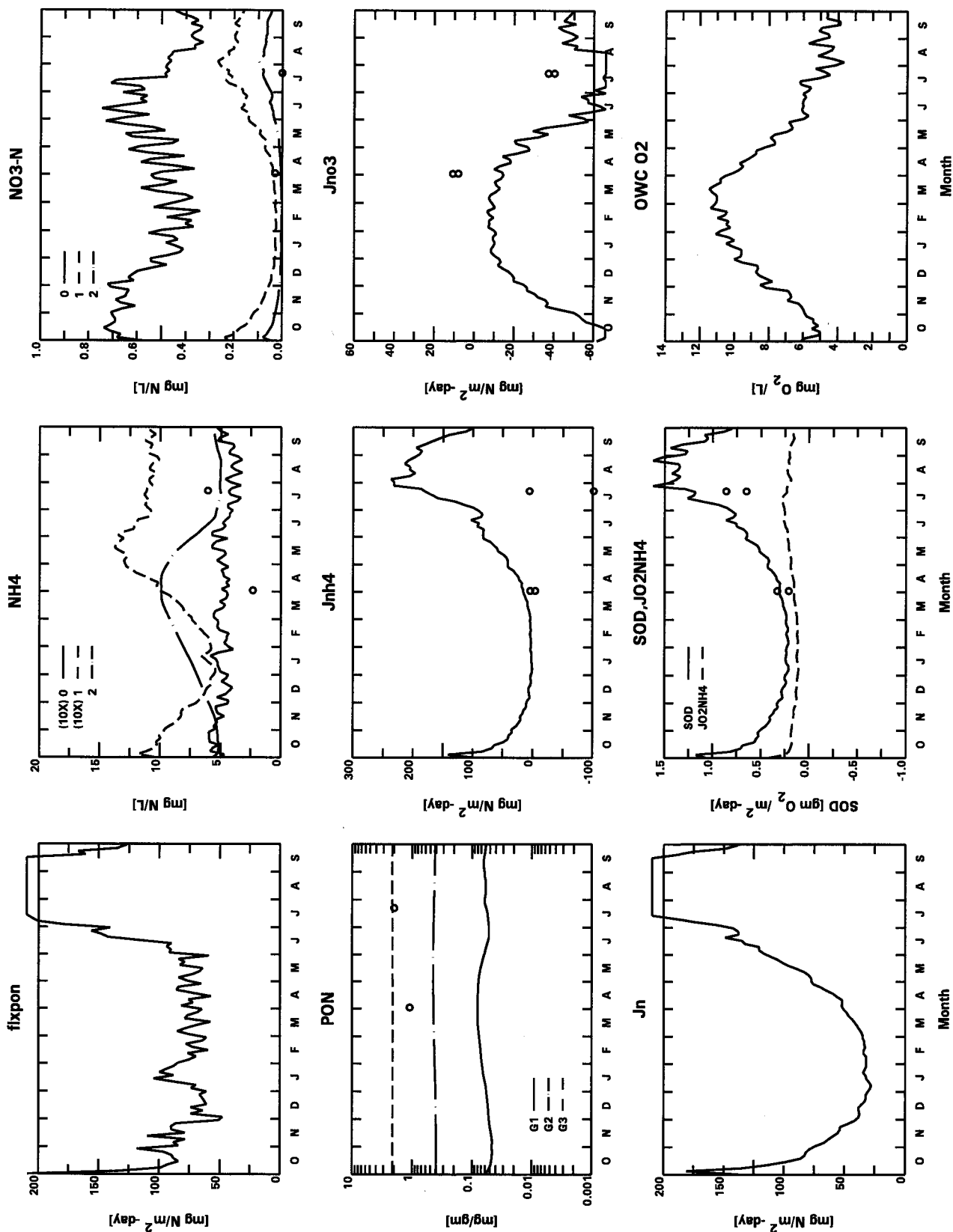
1994 - 1995 Calibration Results for Segment (19/70)

STATION 130 - Hudson River Mt St Vincent



1994 - 1995 Calibration Results for Segment (19/70)

STATION 130 - Hudson River Mt St Vincent

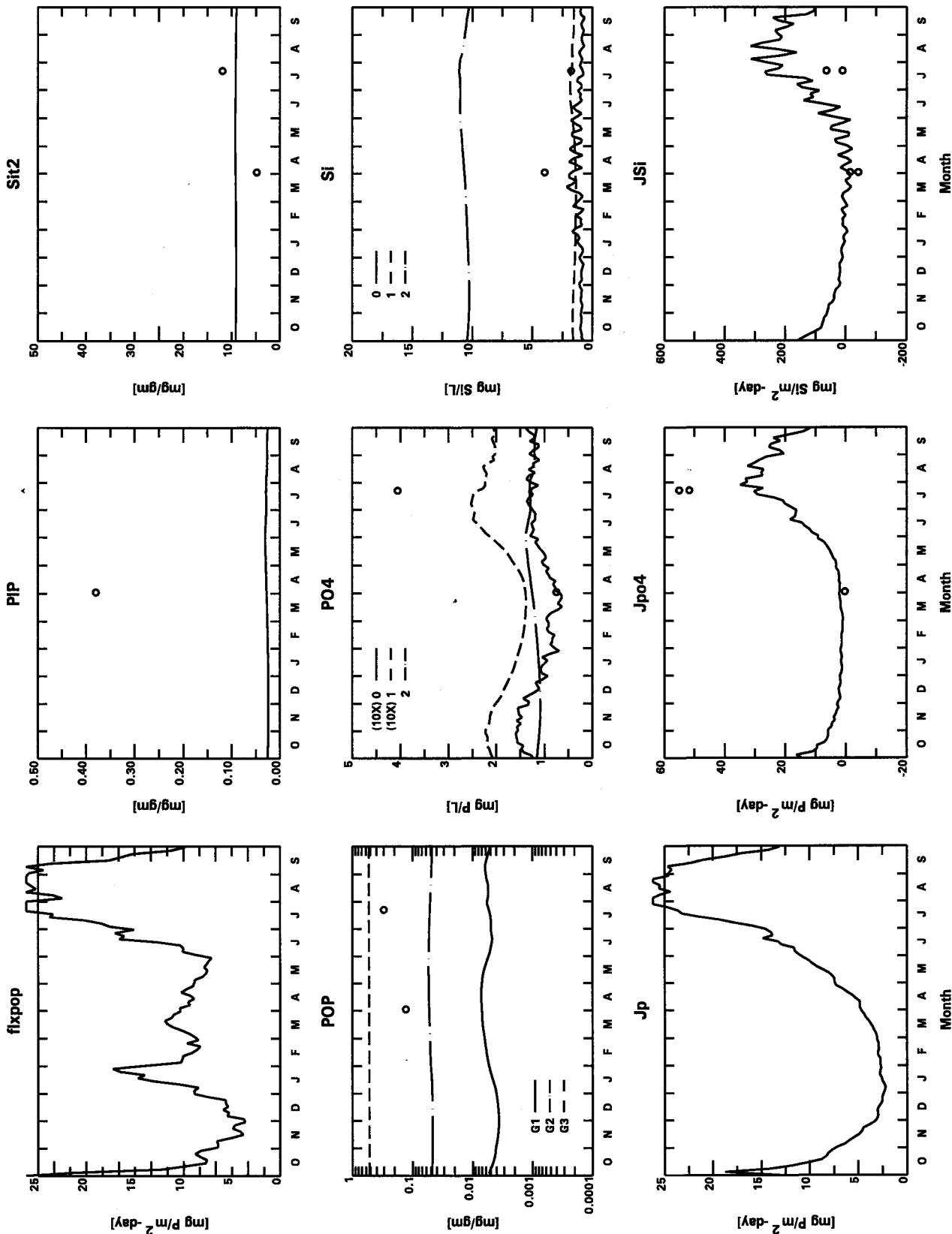


SWEM RUN NUMBER 9495-BC3

1994 - 1995 Calibration Results for Segment (19/59)

STATION 139 - Hudson River 125th Street

DATE: Wed Apr 29 TIME: 15:39:24
GRHN0020 - SWEM

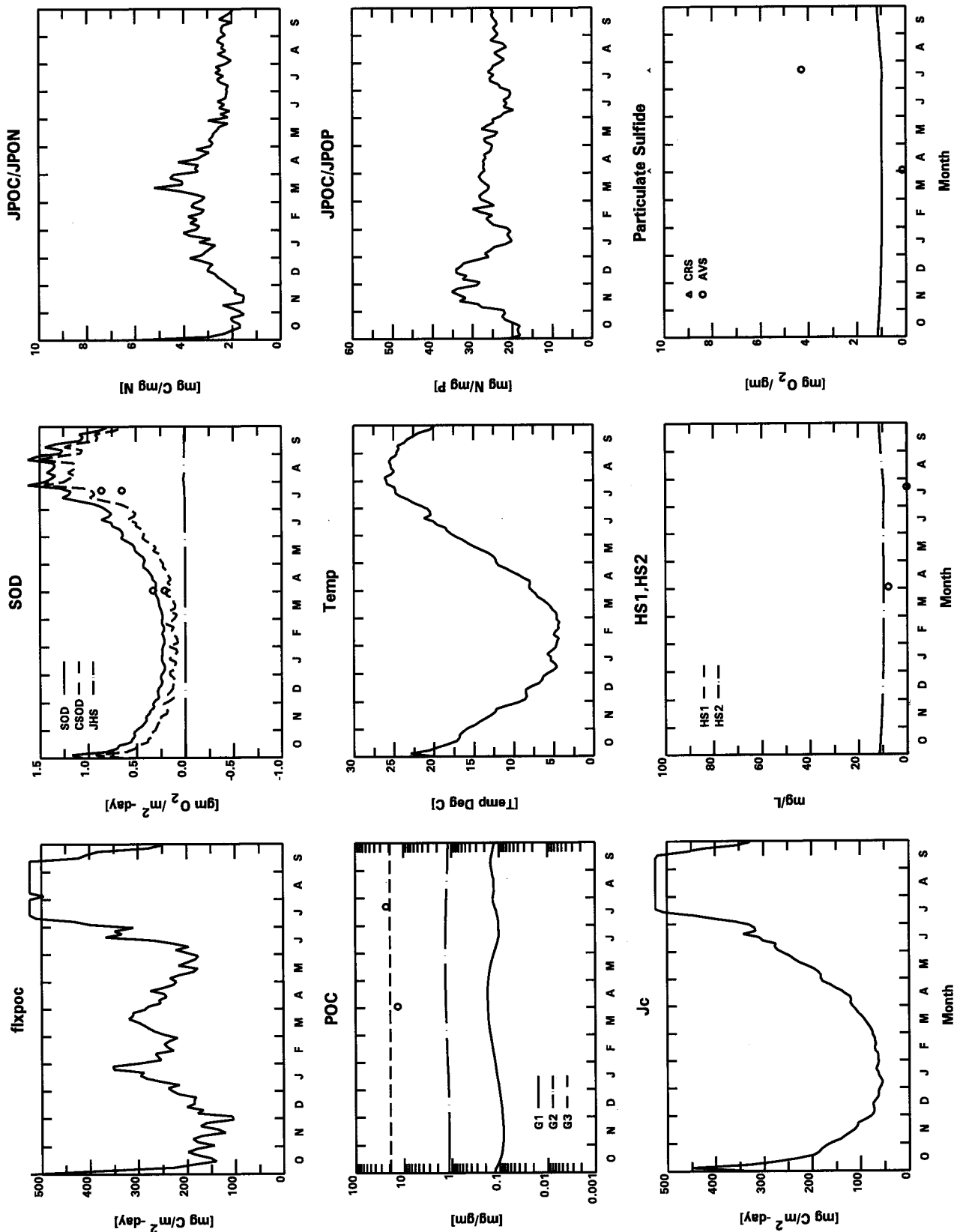


1994 - 1995 Calibration Results for Segment (19/59)

STATION 139 - Hudson River 125th Street

DATE: Wed Apr 29 TIME: 15:39:24

GRHN0020 - SWEM

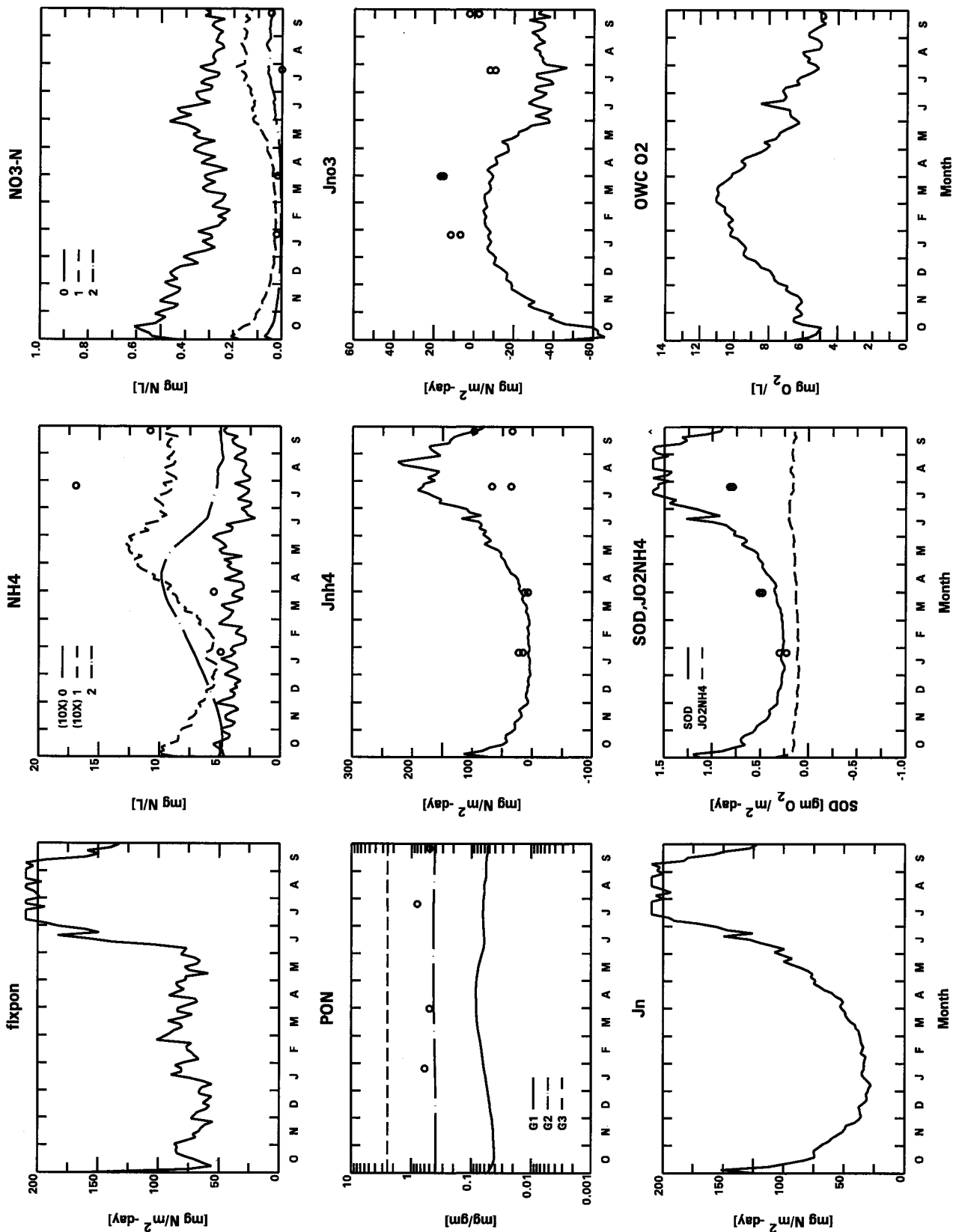


1994 - 1995 Calibration Results for Segment (19/59)

STATION 139 - Hudson River 125th Street

DATE: Wed Apr 23 TIME: 15:39:24

GRH0020 - SWEM

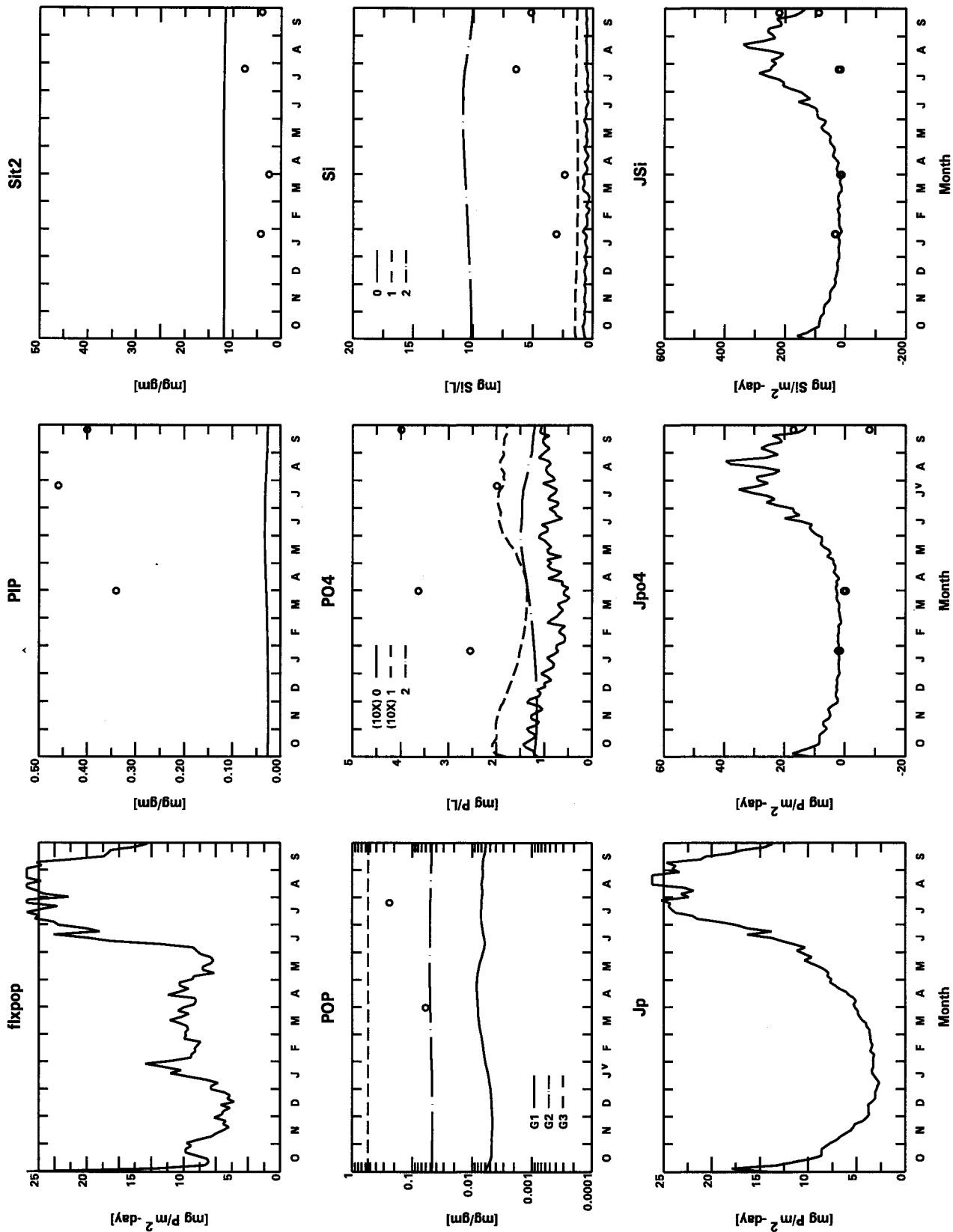


1994 - 1995 Calibration Results for Segment (18/41)

STATION 144 - Upper Bay Bell Buoy 1G

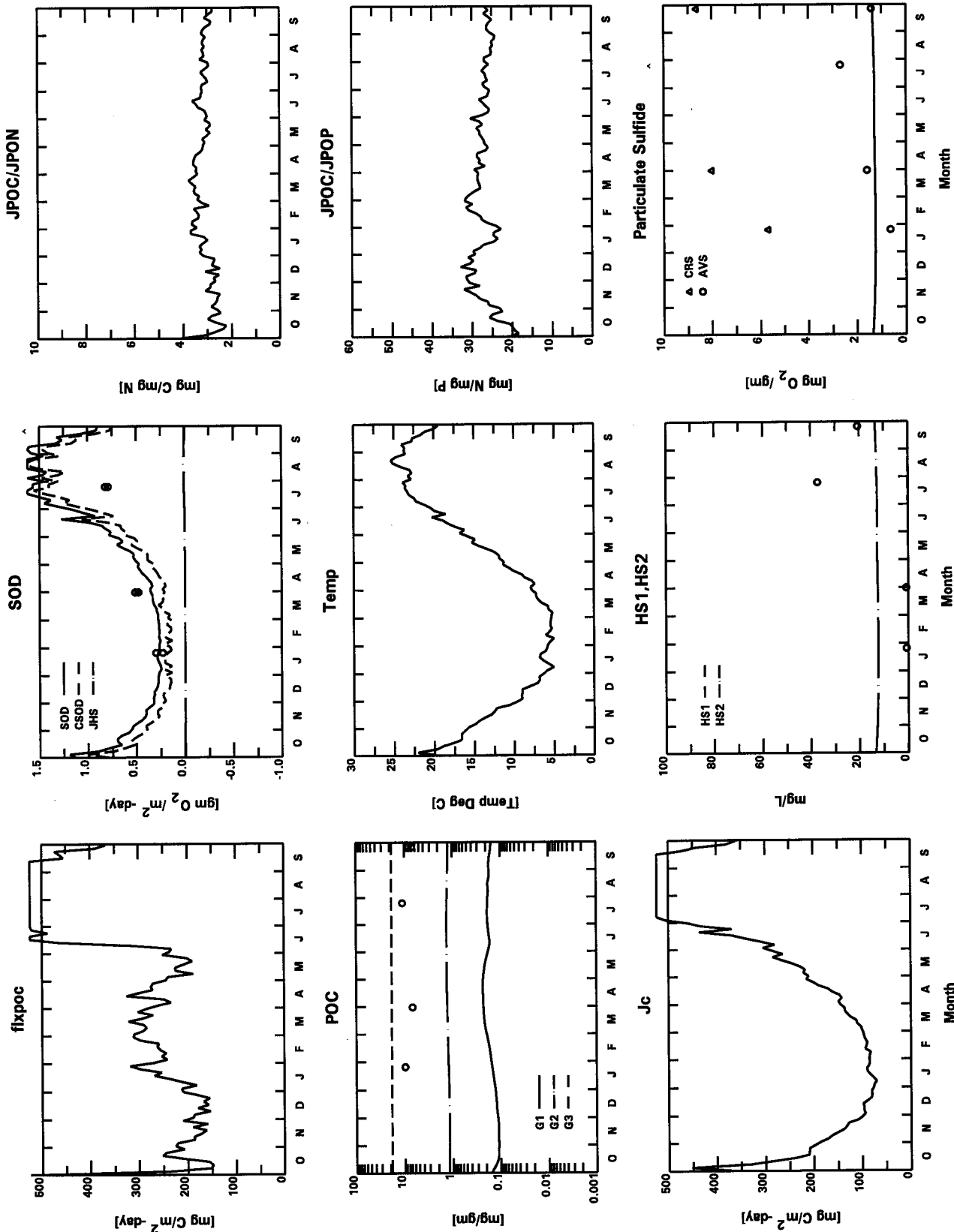
SWEM RUN NUMBER 9495-BC3

DATE: Wed Apr 29 TIME: 15:39:56
GRHN0020 - SWEM



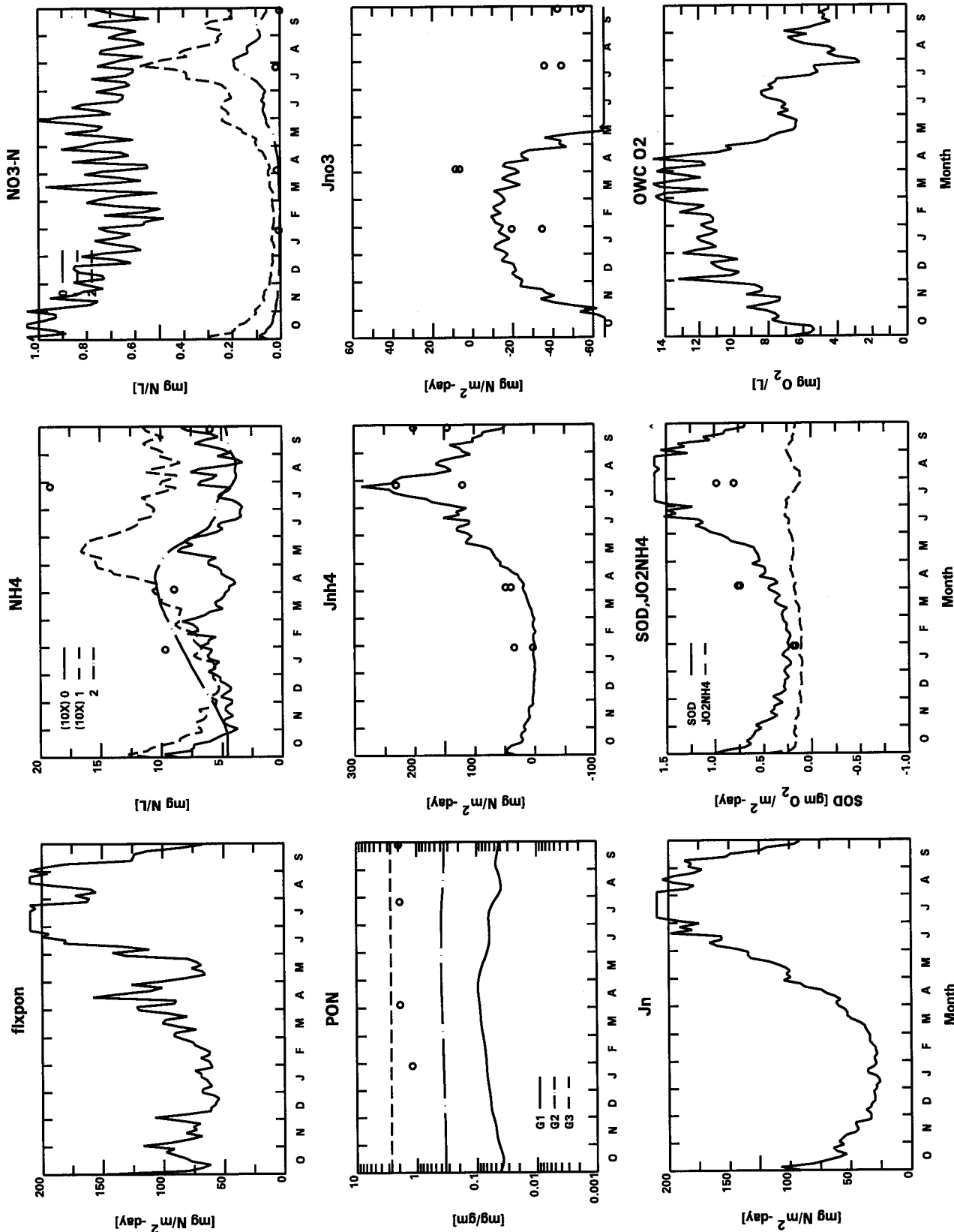
1994 - 1995 Calibration Results for Segment (18/41)

STATION 144 - Upper Bay Bell Buoy 1G



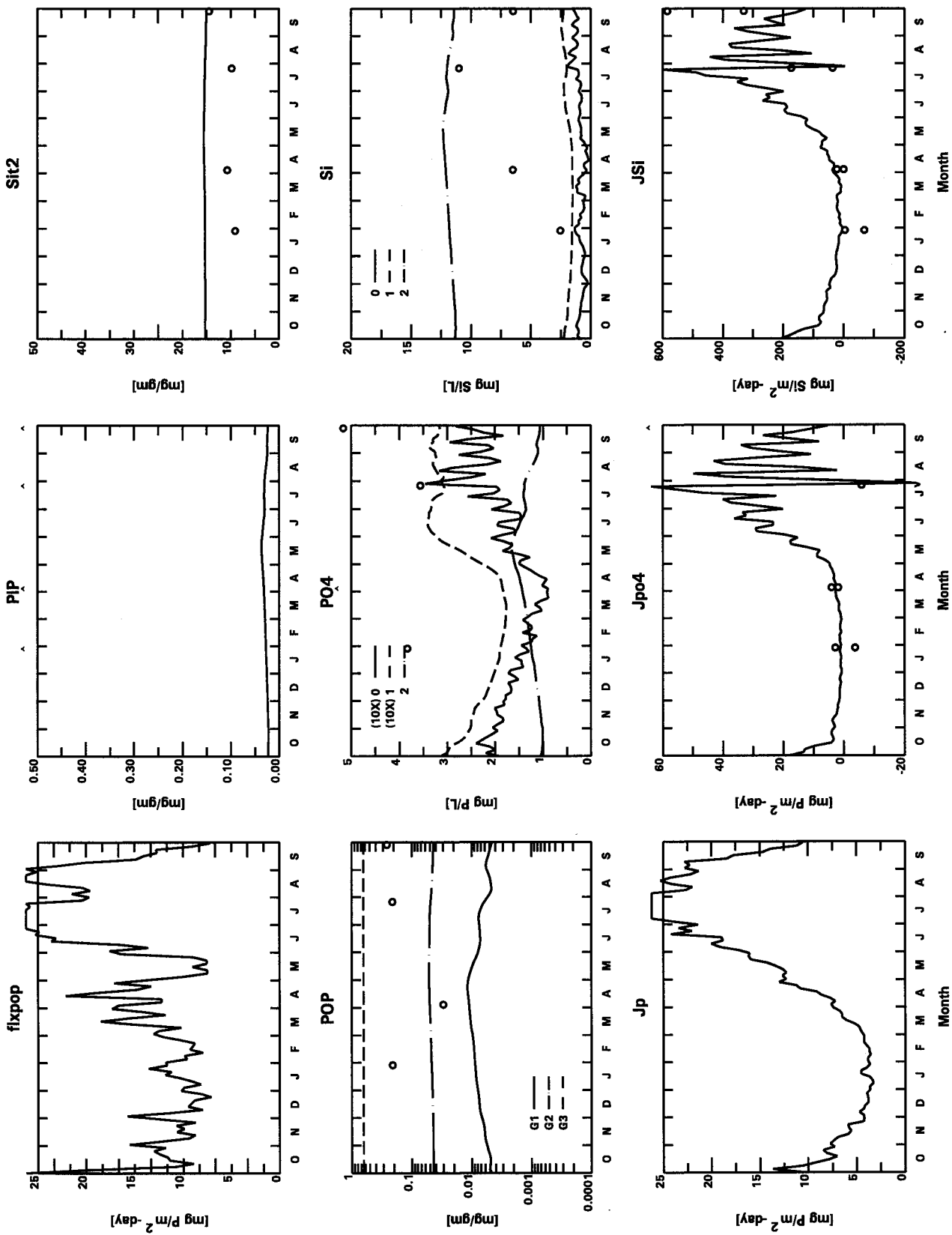
1994 - 1995 Calibration Results for Segment (18/41)

STATION 144 - Upper Bay Bell Buoy 1G



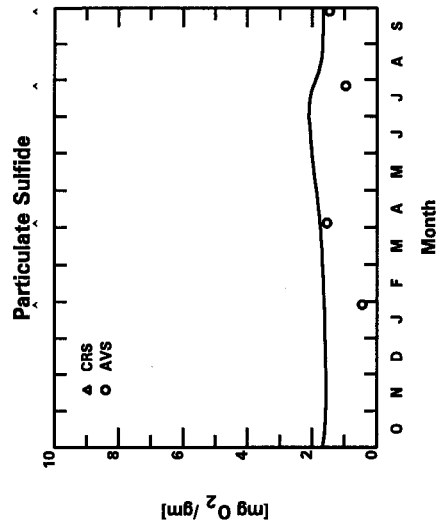
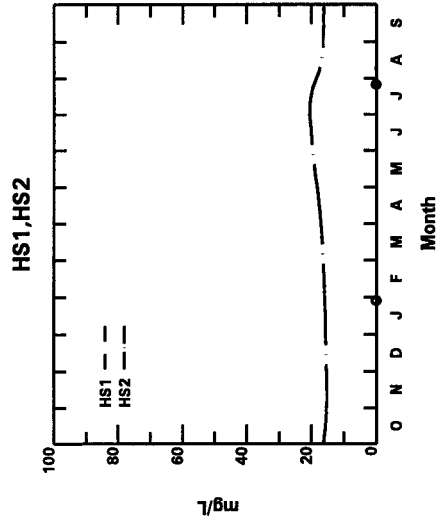
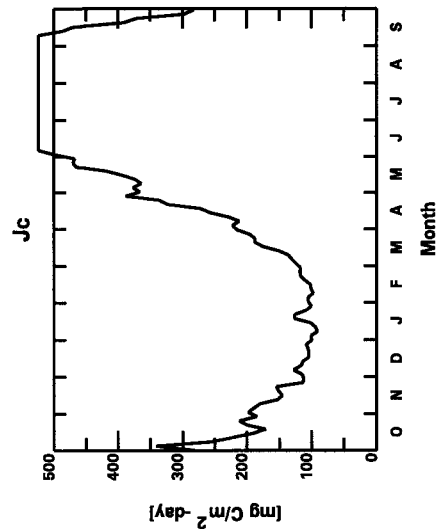
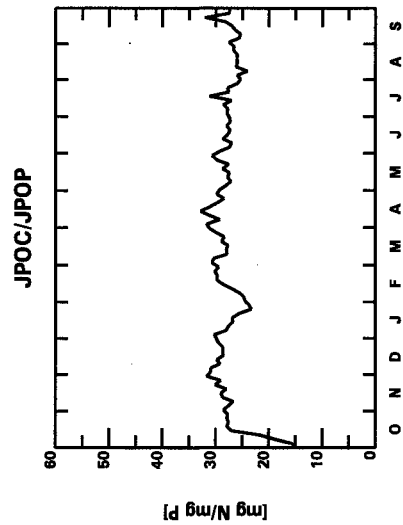
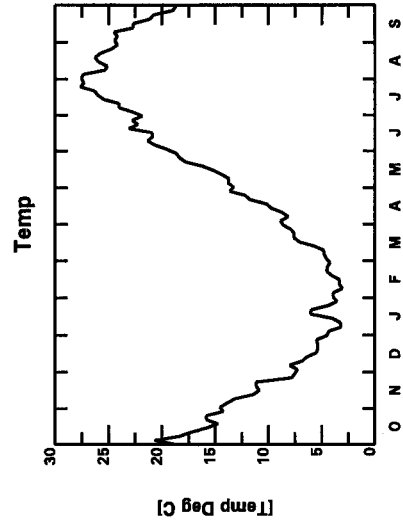
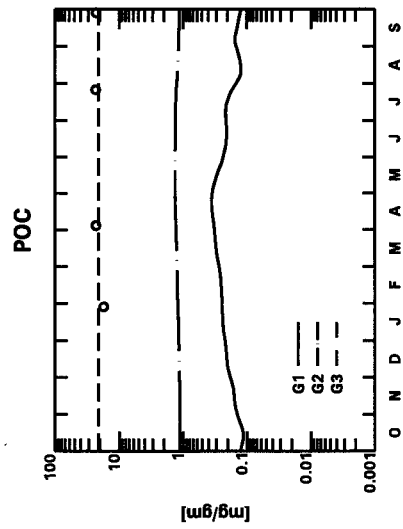
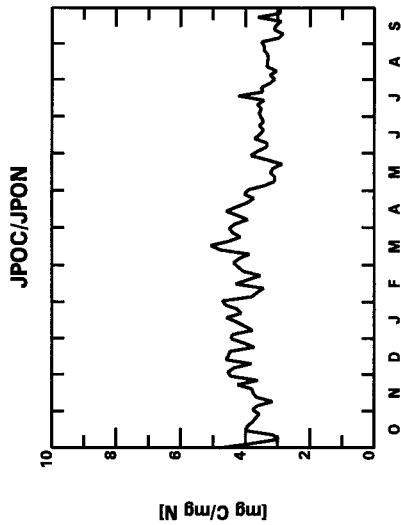
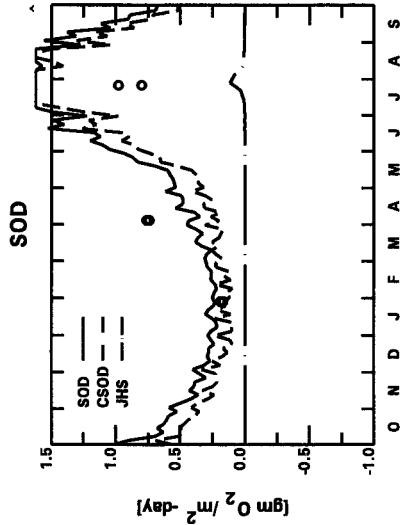
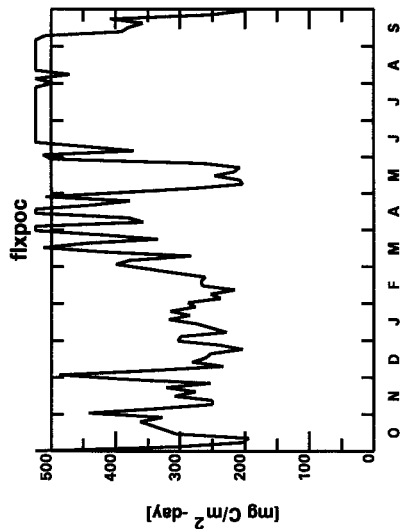
SWEM RUN NUMBER 9495-BC3
 1994 - 1995 Calibration Results for Segment (8/42)
 STATION 158 - Newark Bay

LEGEND
 Data
 0 Overlying Water
 1 Aerobic Layer
 2 Anaerobic Layer



1994 - 1995 Calibration Results for Segment (8/42)

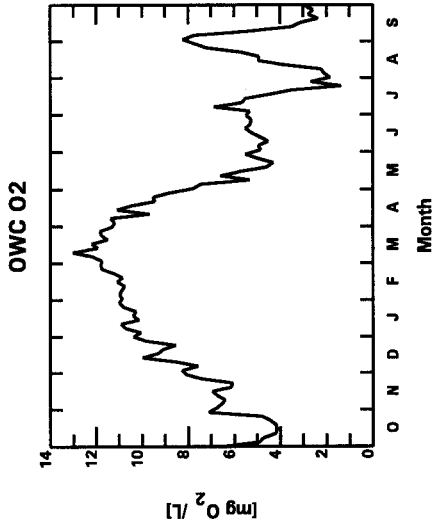
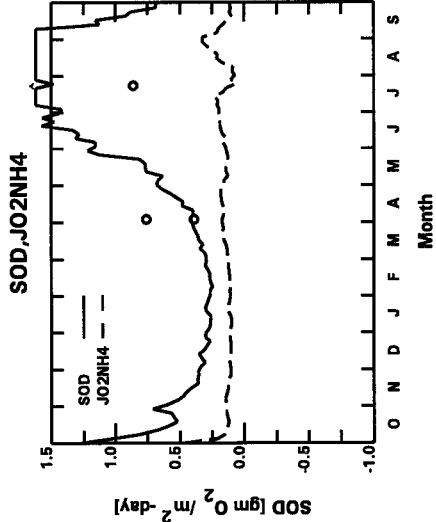
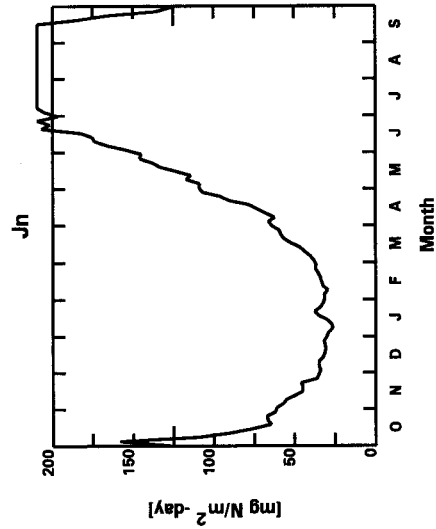
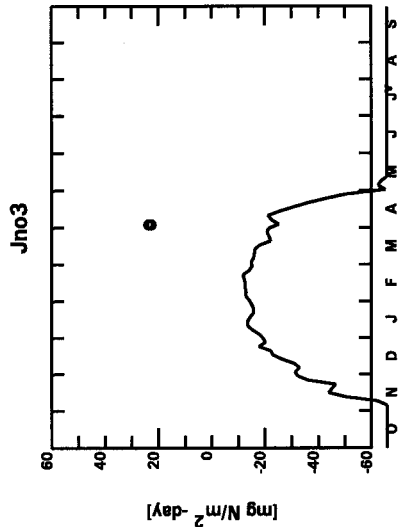
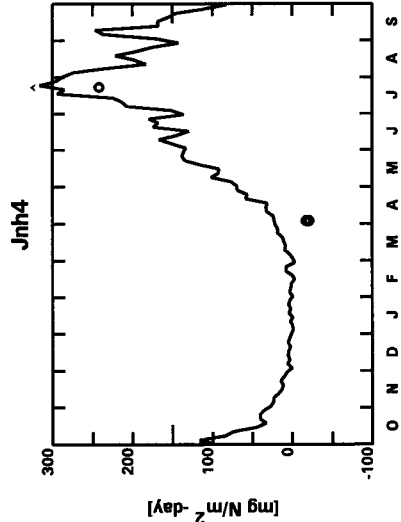
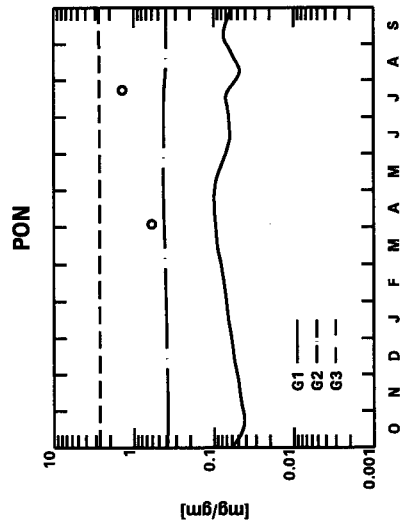
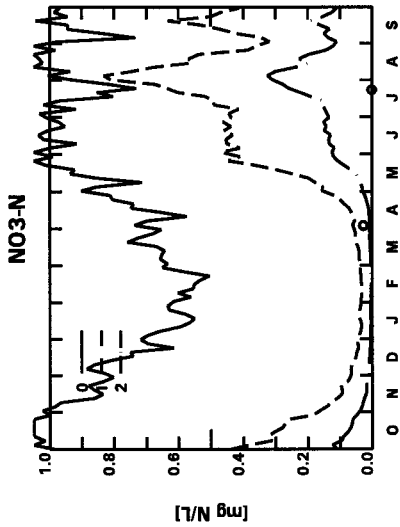
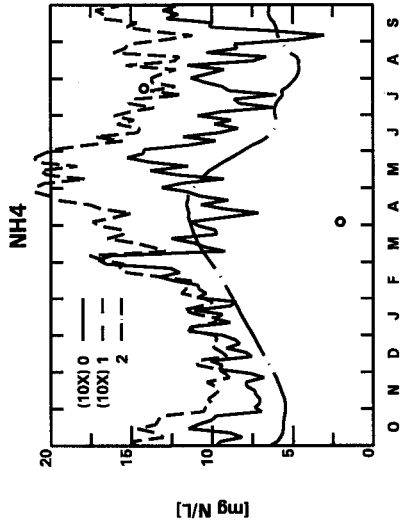
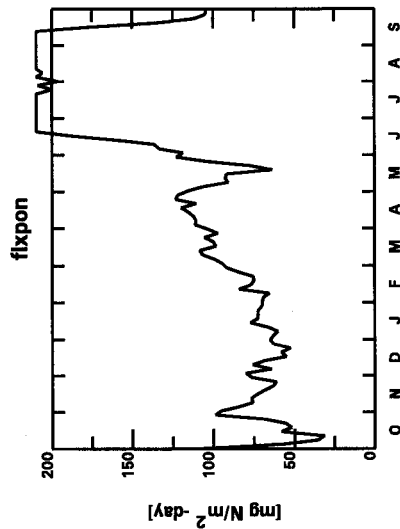
STATION 158 - Newark Bay



1994 - 1995 Calibration Results for Segment (8/42)

STATION 158 - Newark Bay

----- LEGEND -----
 o Data
 0 Overlying Water
 1 Aerobic Layer
 2 Anaerobic Layer



SWEM RUN NUMBER 9495-BC3

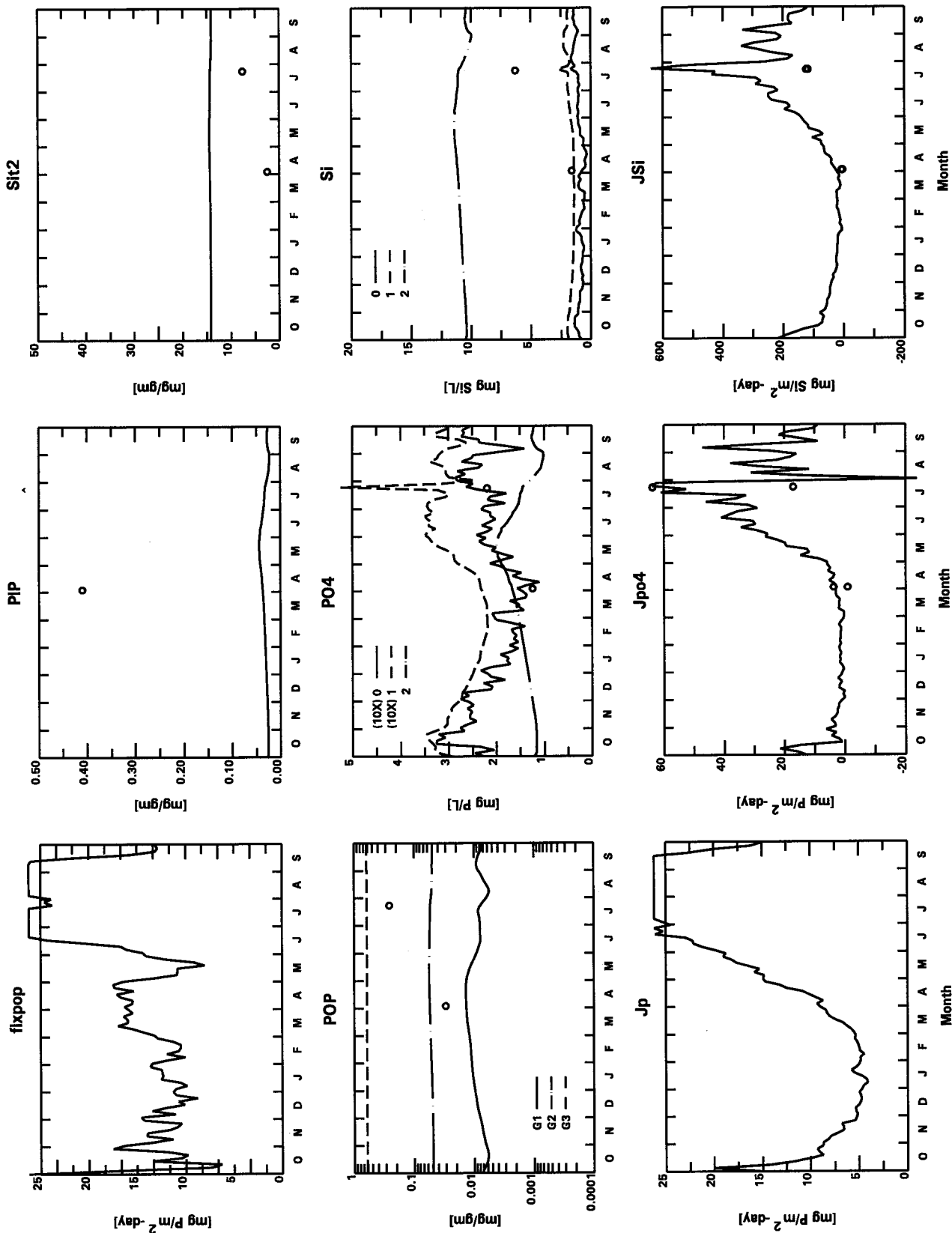
1994 - 1995 Calibration Results for Segment (4/32)

STATION 109 - Arthur Kill near Fresh Kills

DATE: Wed Apr 29 TIME: 15:37:15

GRH0020 - SWEM

LEGEND
 O Data
 0 Overlying Water
 1 Aerobic Layer
 2 Anaerobic Layer

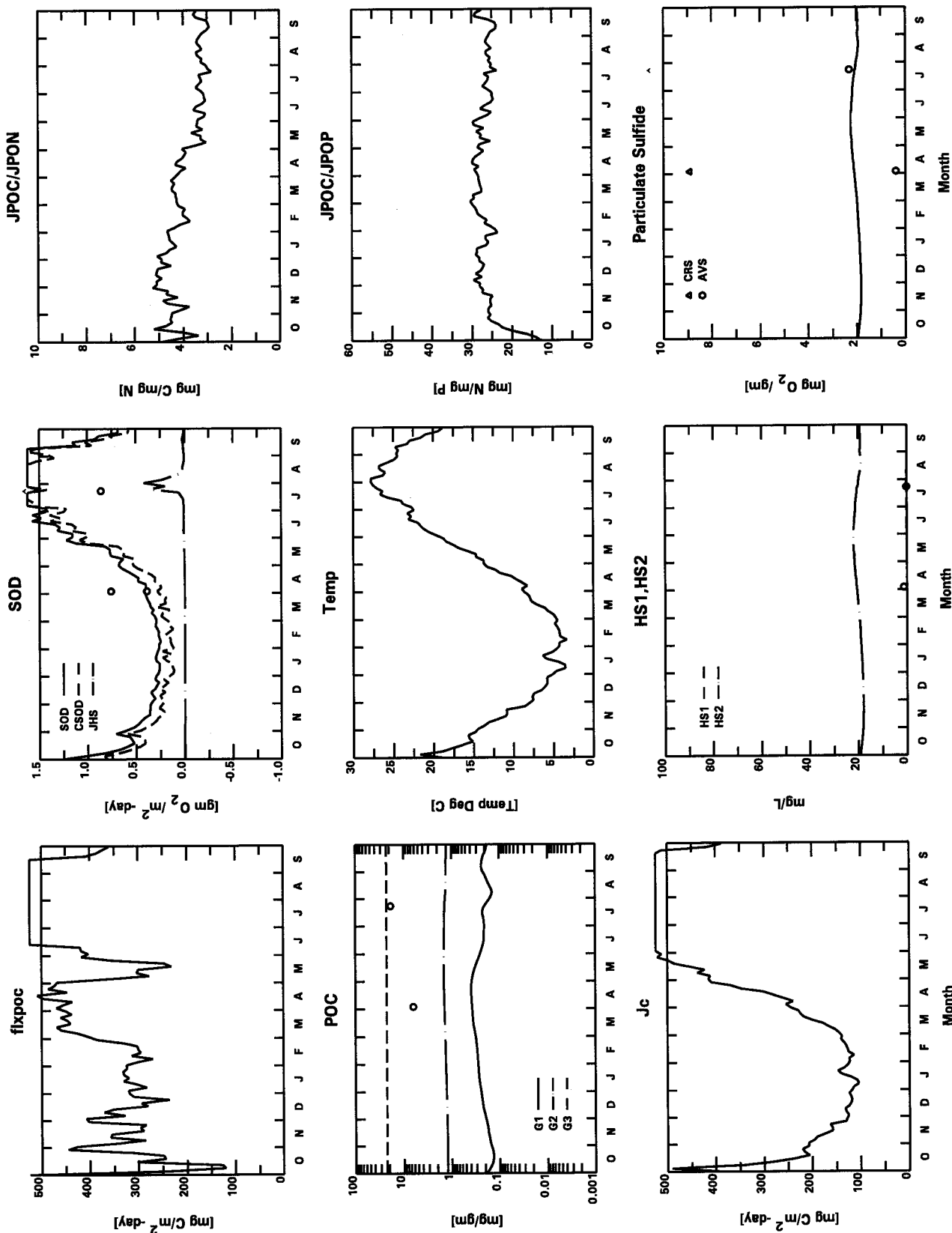


1994 - 1995 Calibration Results for Segment (4/32)

STATION 109 - Arthur Kill near Fresh Kills

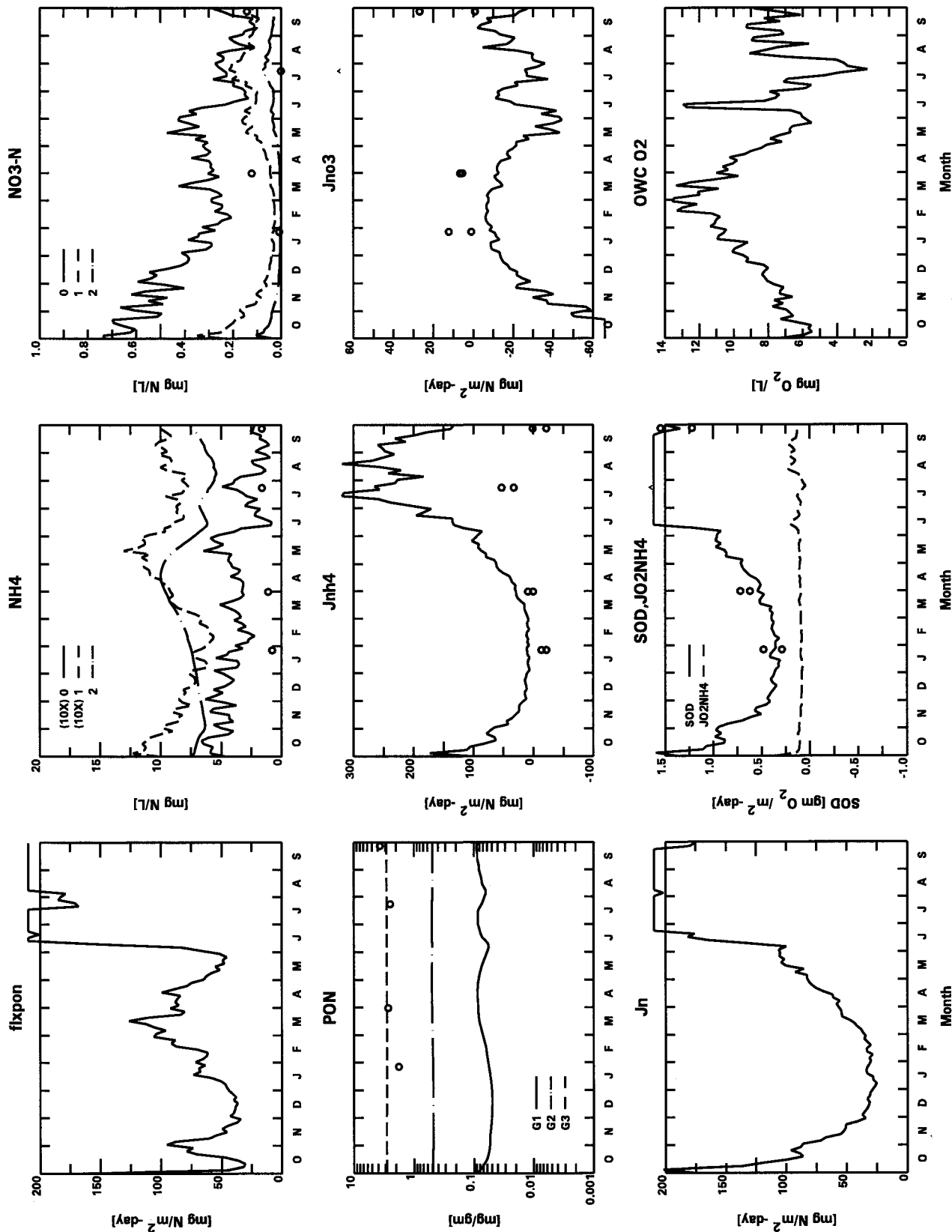
DATE: Wed Apr 25 TIME: 15:37:15

GRH00020 - SWEM



1994 - 1995 Calibration Results for Segment (4/32)

STATION 109 - Arthur Kill near Fresh Kills



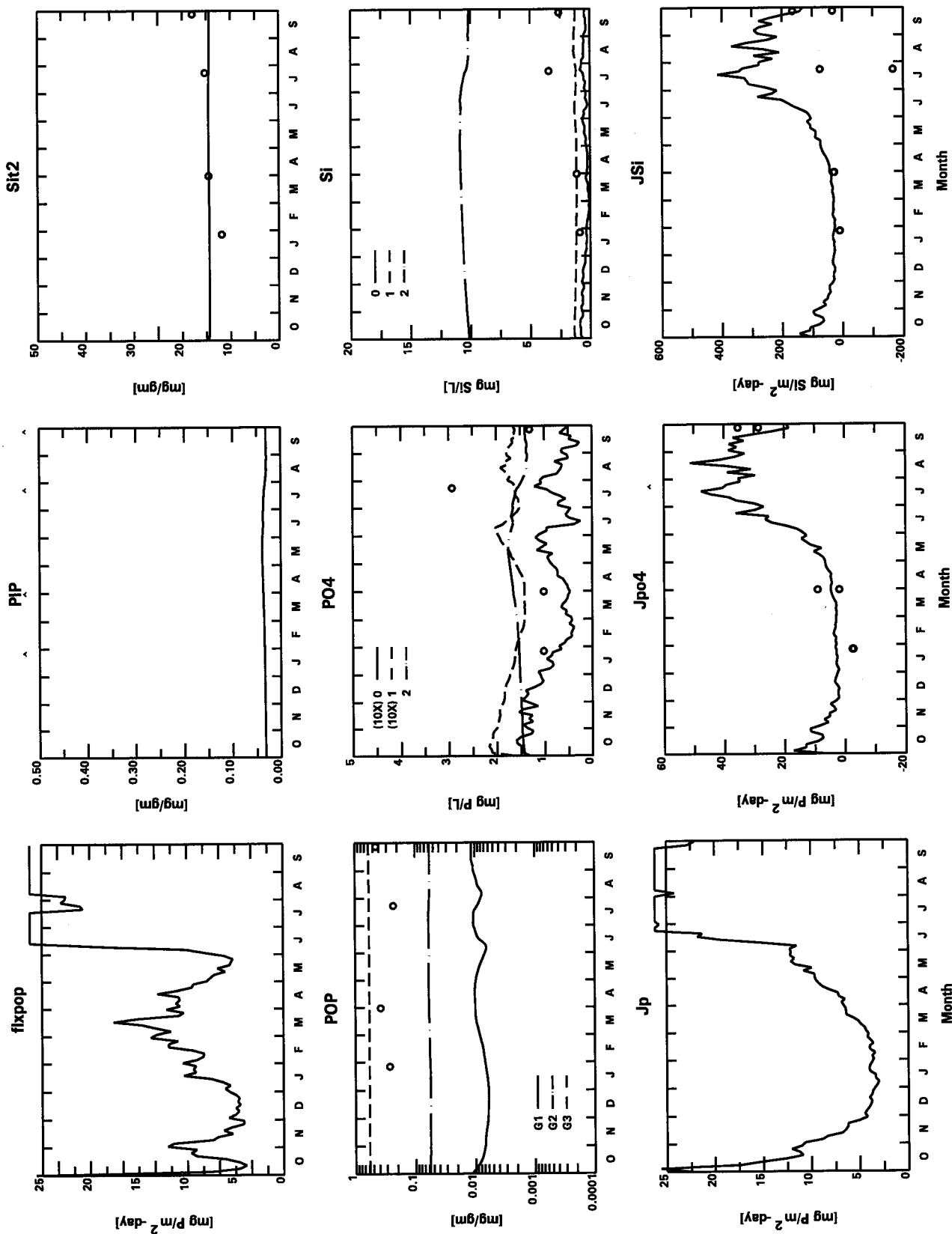
1994 - 1995 Calibration Results for Segment (9/27)

STATION 155 - Raritan Bay

SWEM RUN NUMBER 9495-BC3

DATE: Wed Apr 29 TIME: 15:40:28

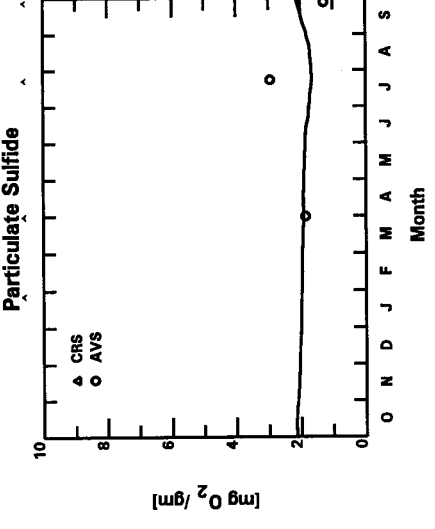
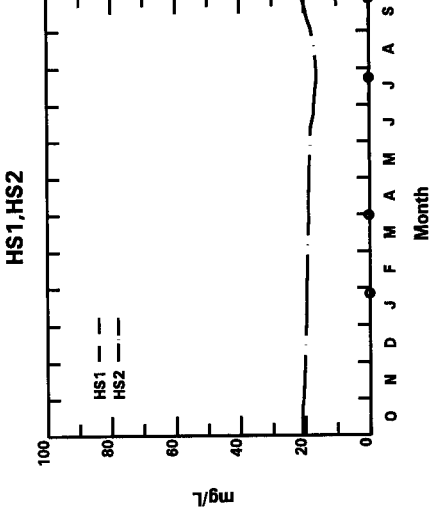
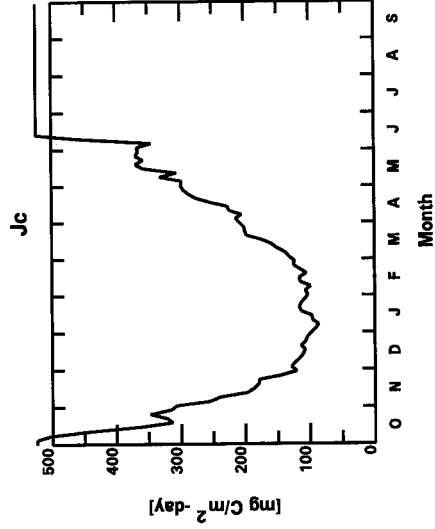
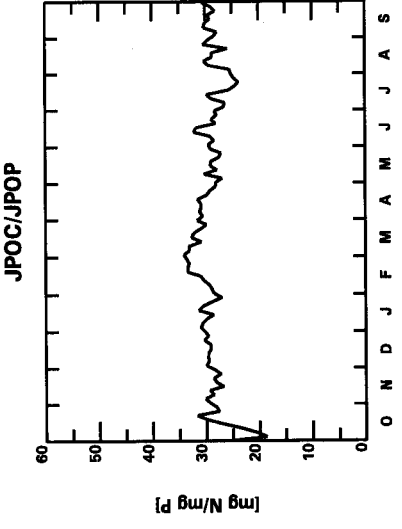
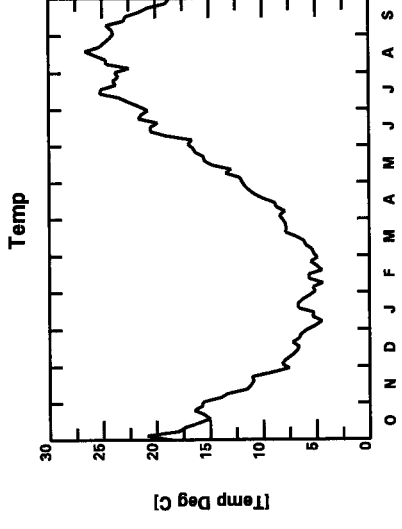
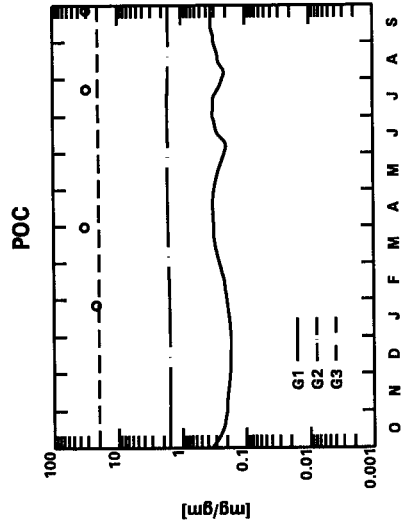
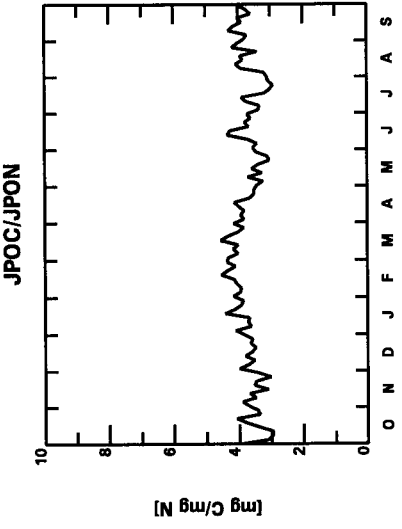
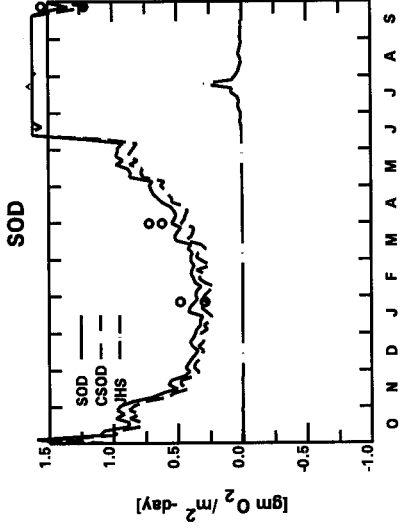
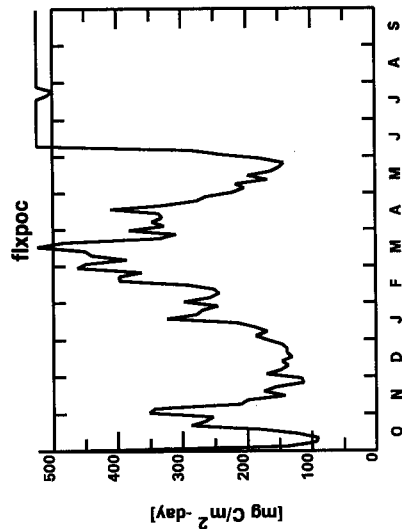
GRH0020 - SWEM



1994 - 1995 Calibration Results for Segment (9/27)

STATION 155 - Raritan Bay

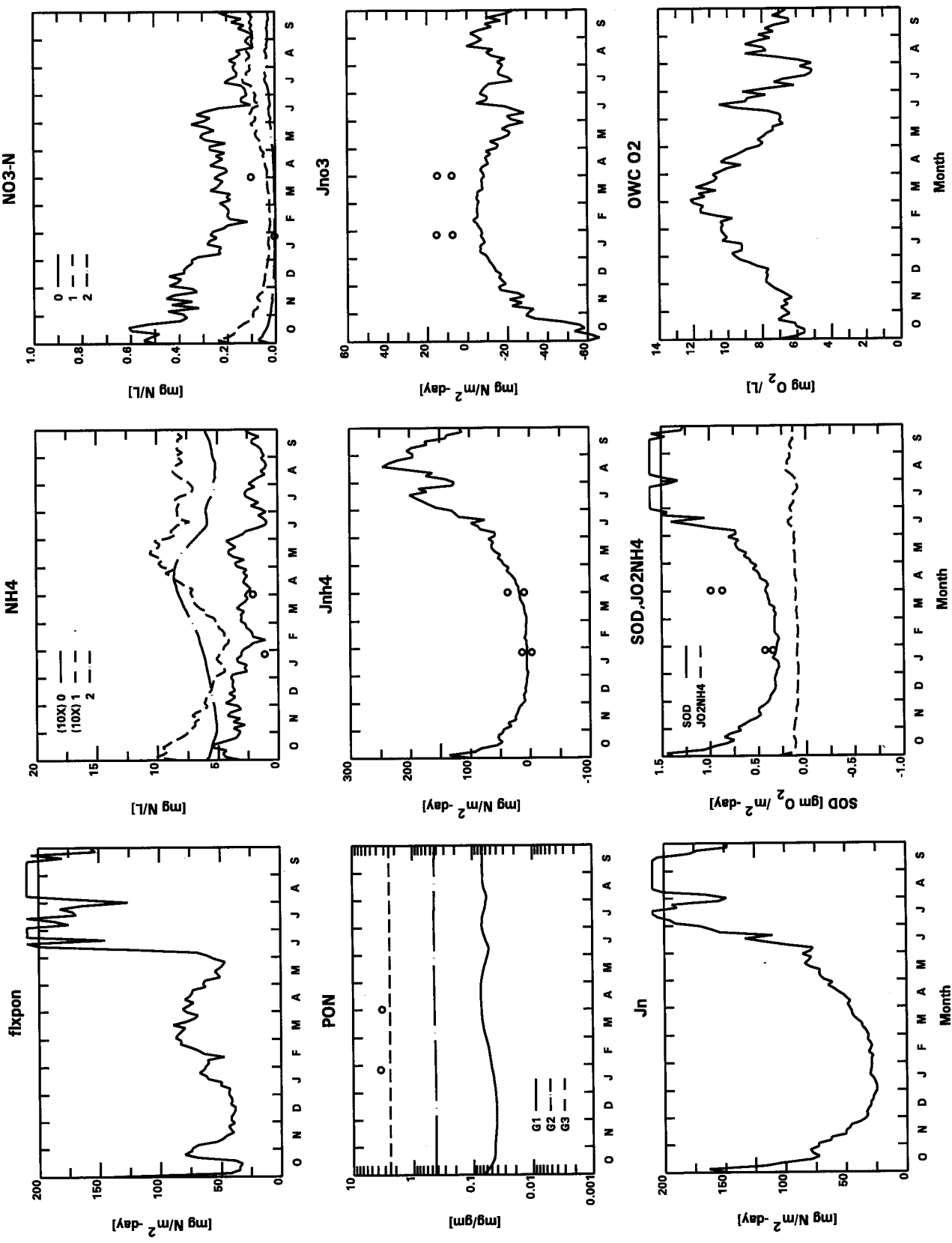
DATE: Wed Apr 29 TIME: 15:40:28
GRHN0020 - SWEM



1994 - 1995 Calibration Results for Segment (9/27)

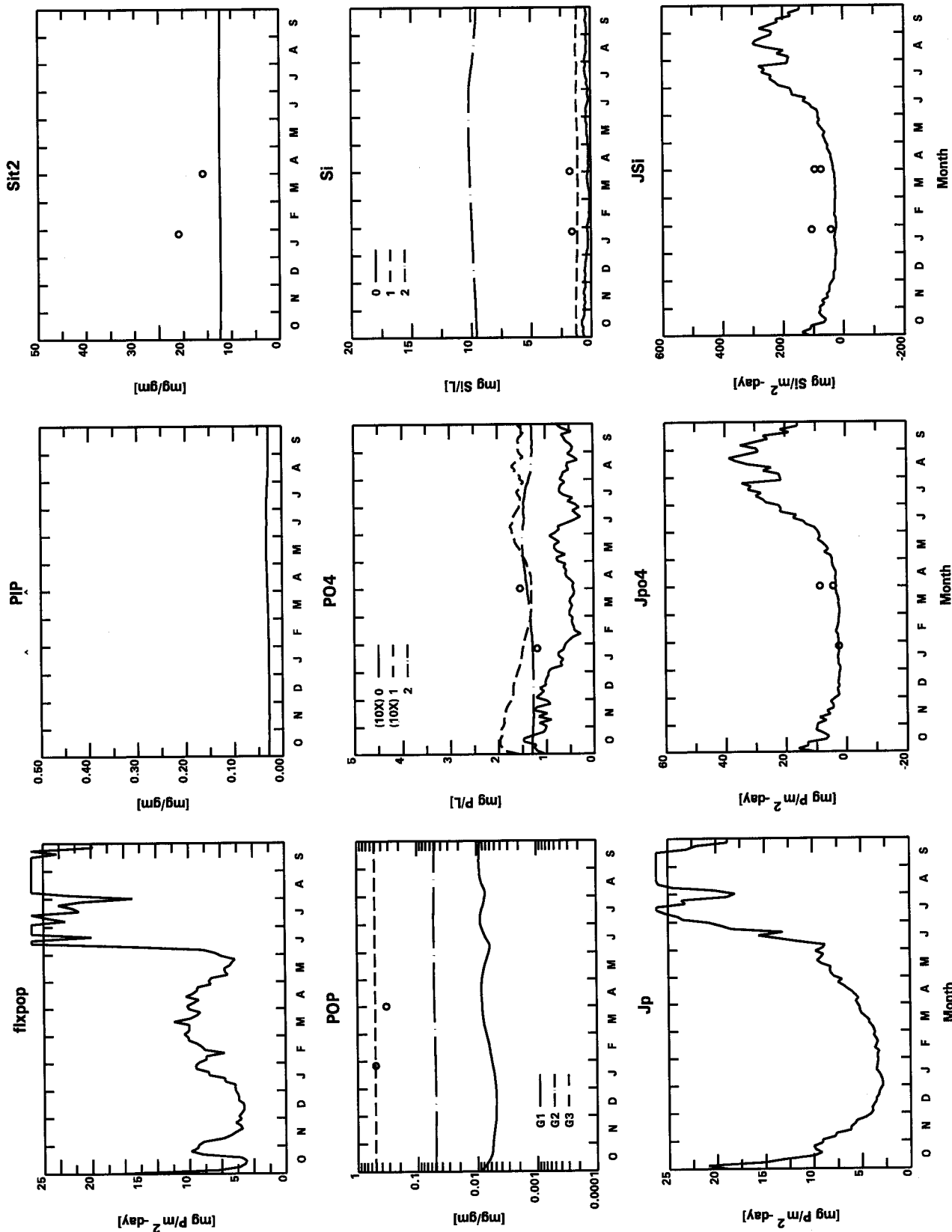
STATION 155 - Raritan Bay

LEGEND
 O Data
 0 Overlying Water
 1 Aerobic Layer
 2 Anaerobic Layer



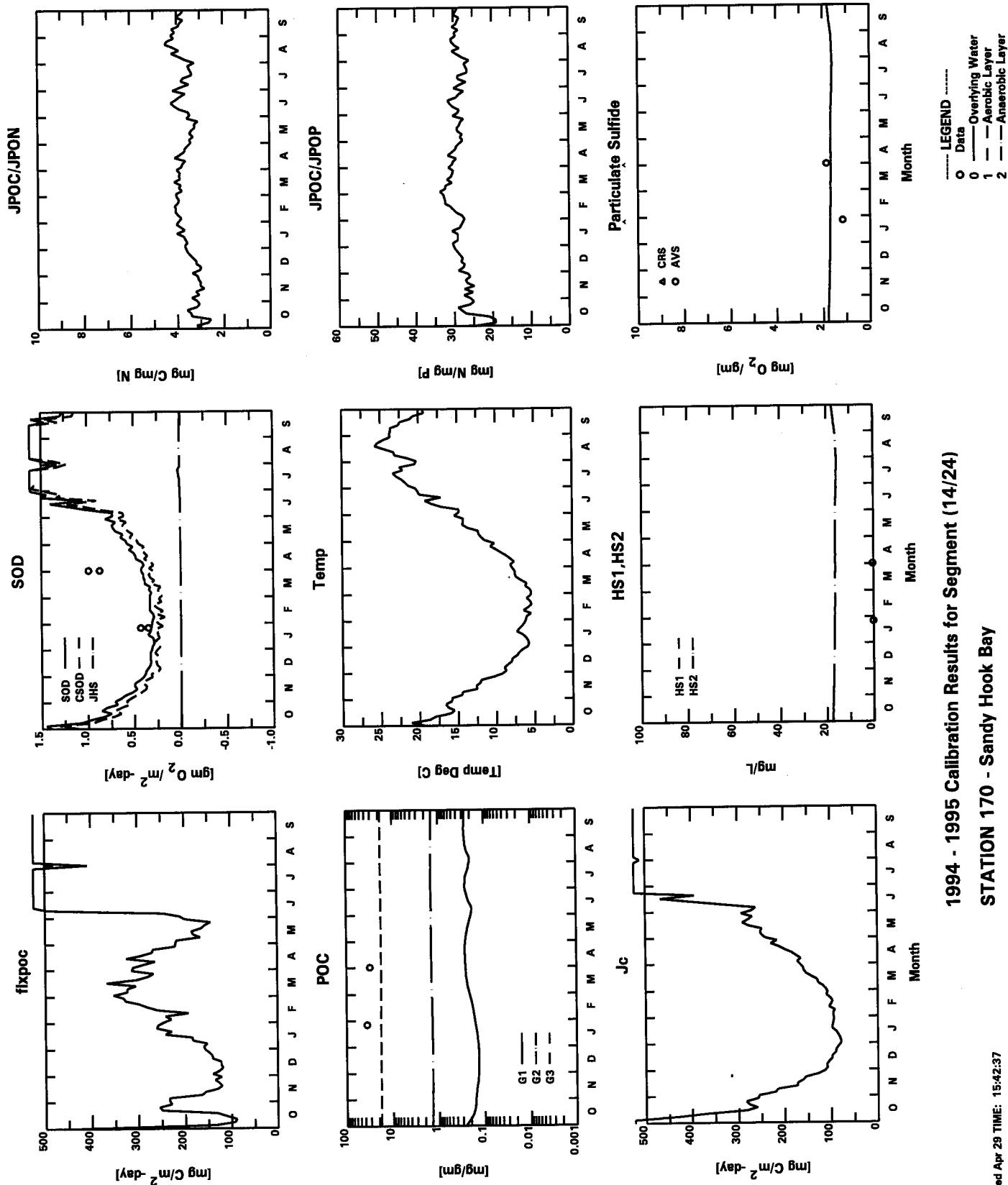
----- LEGEND -----
 o Data
 — Overlying Water
 - - - Aerobic Layer
 . . . Anaerobic Layer

1994 - 1995 Calibration Results for Segment (14/24)
 STATION 170 - Sandy Hook Bay

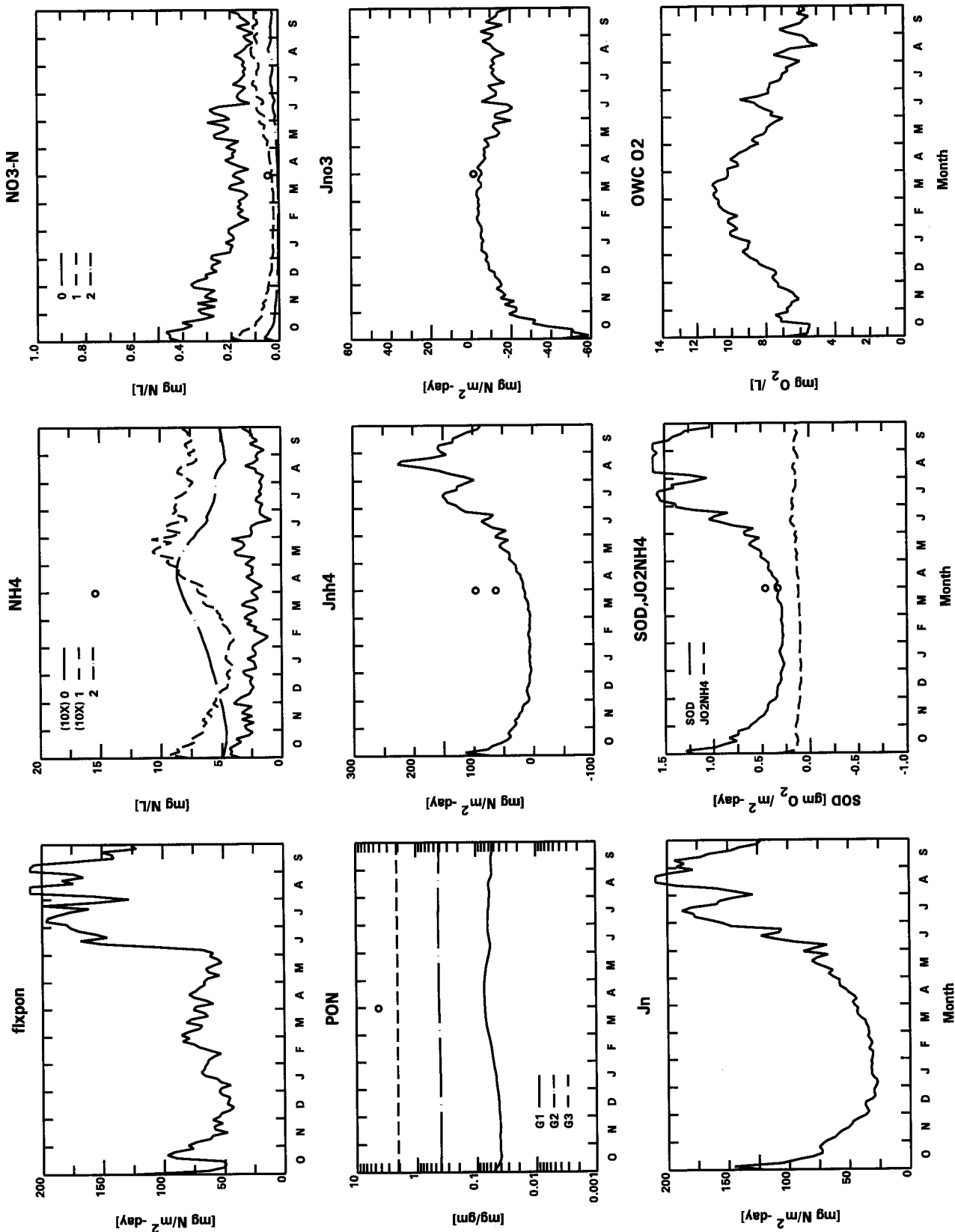


1994 - 1995 Calibration Results for Segment (14/24)

STATION 170 - Sandy Hook Bay



1994 - 1995 Calibration Results for Segment (14/24)
 STATION 170 - Sandy Hook Bay

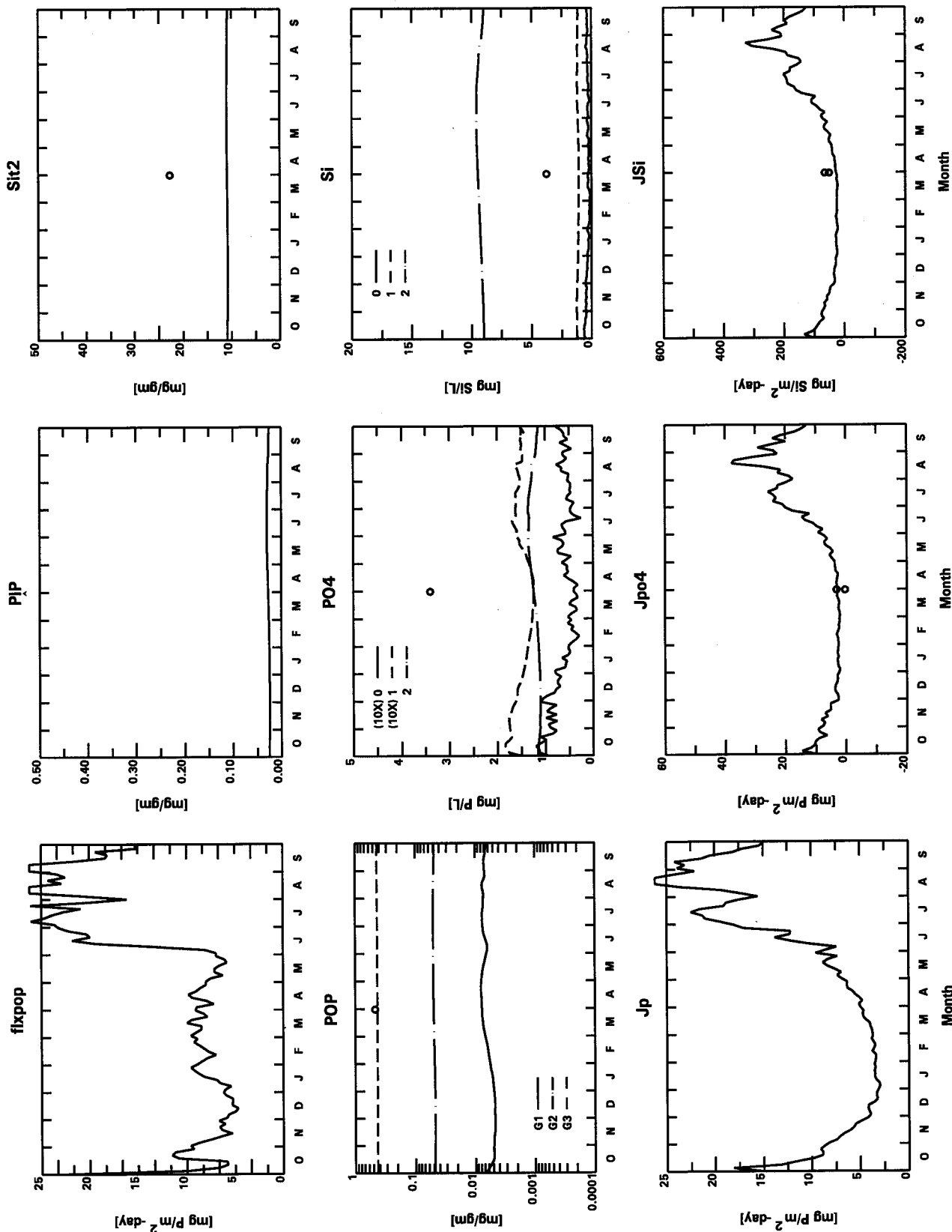


LEGEND -----
 O Data
 0 Overlying Water
 1 Aerobic Layer
 2 Anaerobic Layer

1994 - 1995 Calibration Results for Segment (16/29)
 STATION 166 - Raritan Bay North of Sandy Hook

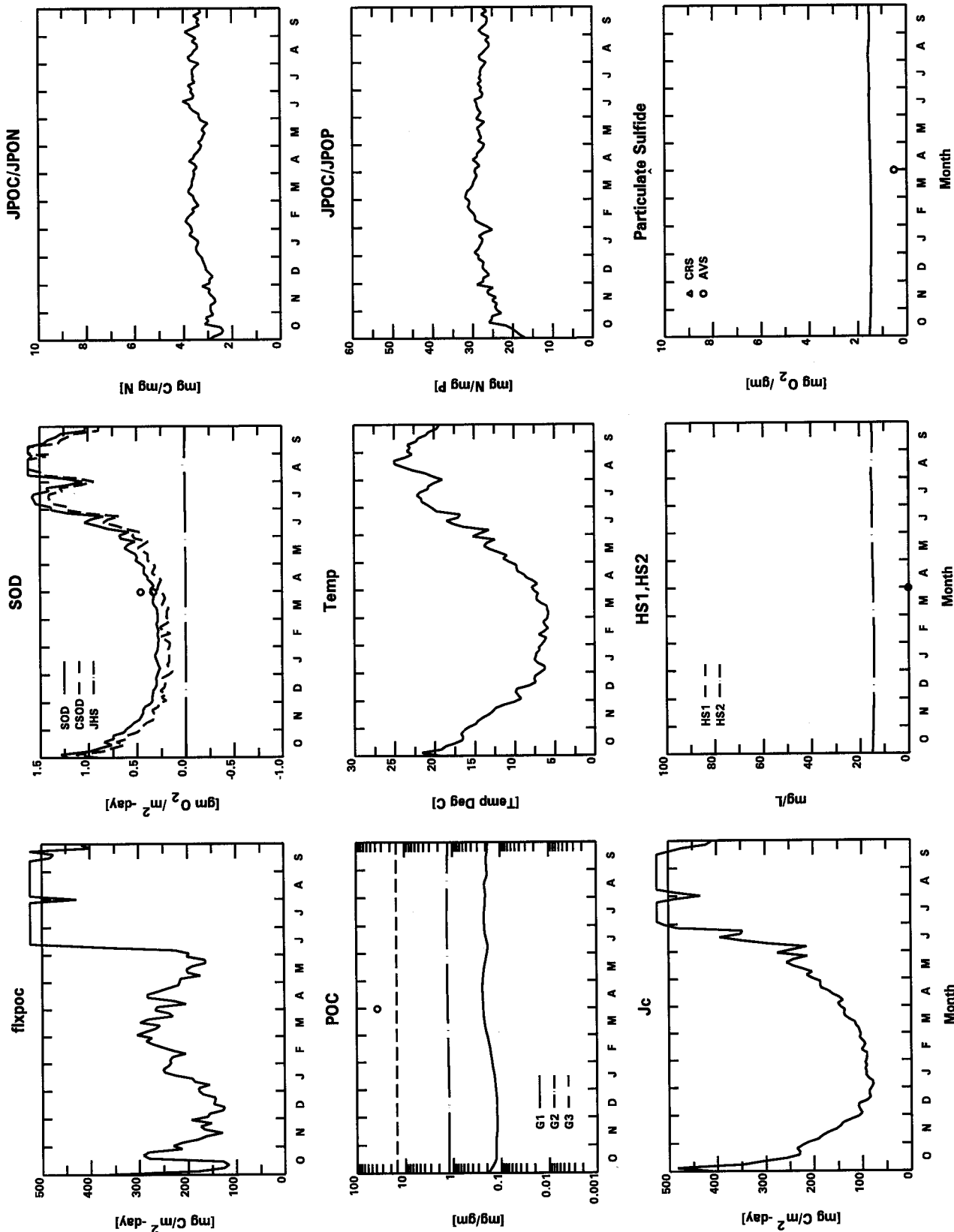
SWEM RUN NUMBER 9495-BC3

DATE: Wed Apr 29 TIME: 15:42:05
 GRHN0020 - SWEM



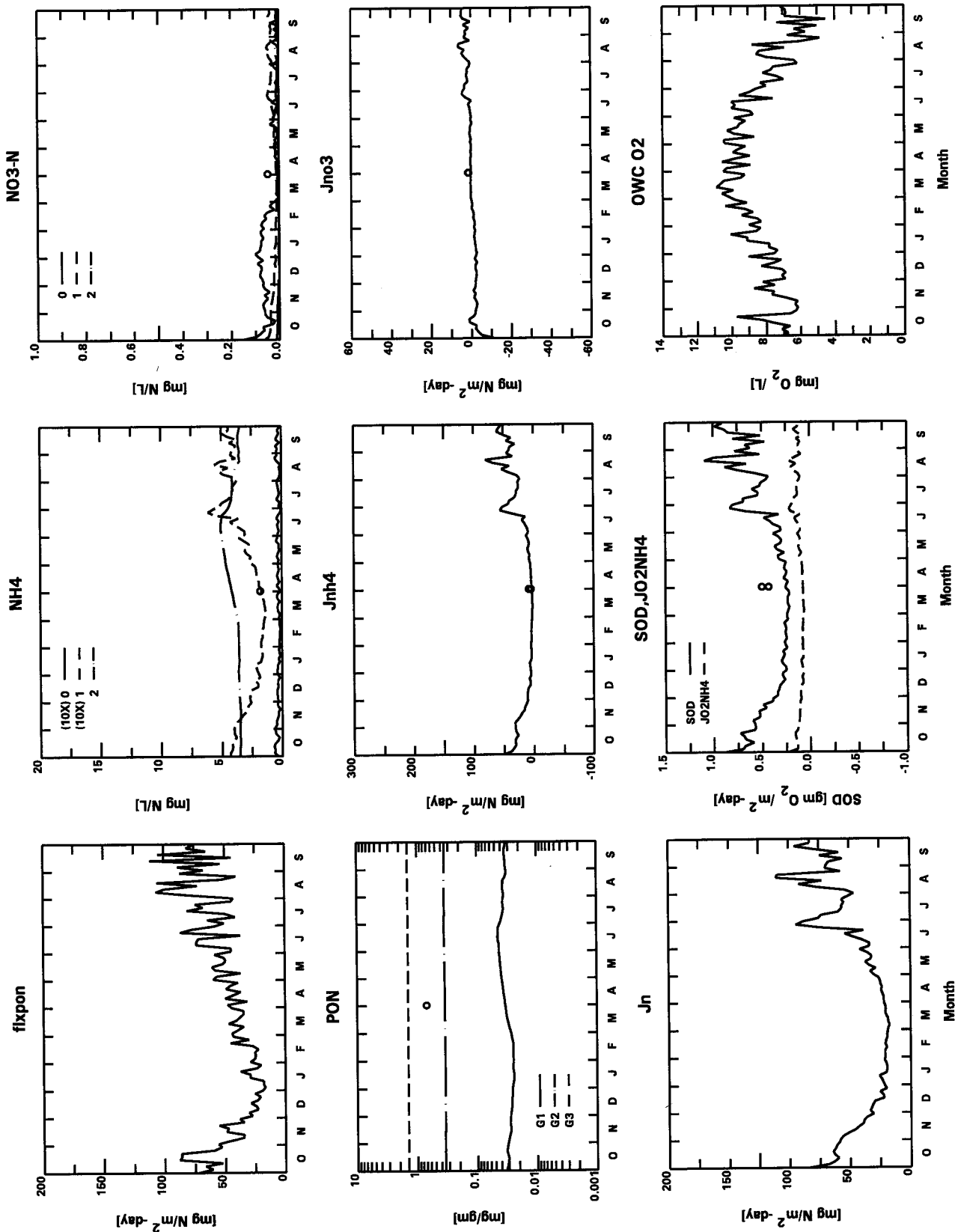
1994 - 1995 Calibration Results for Segment (16/29)

STATION 166 - Raritan Bay North of Sandy Hook



1994 - 1995 Calibration Results for Segment (16/29)

STATION 166 - Raritan Bay North of Sandy Hook



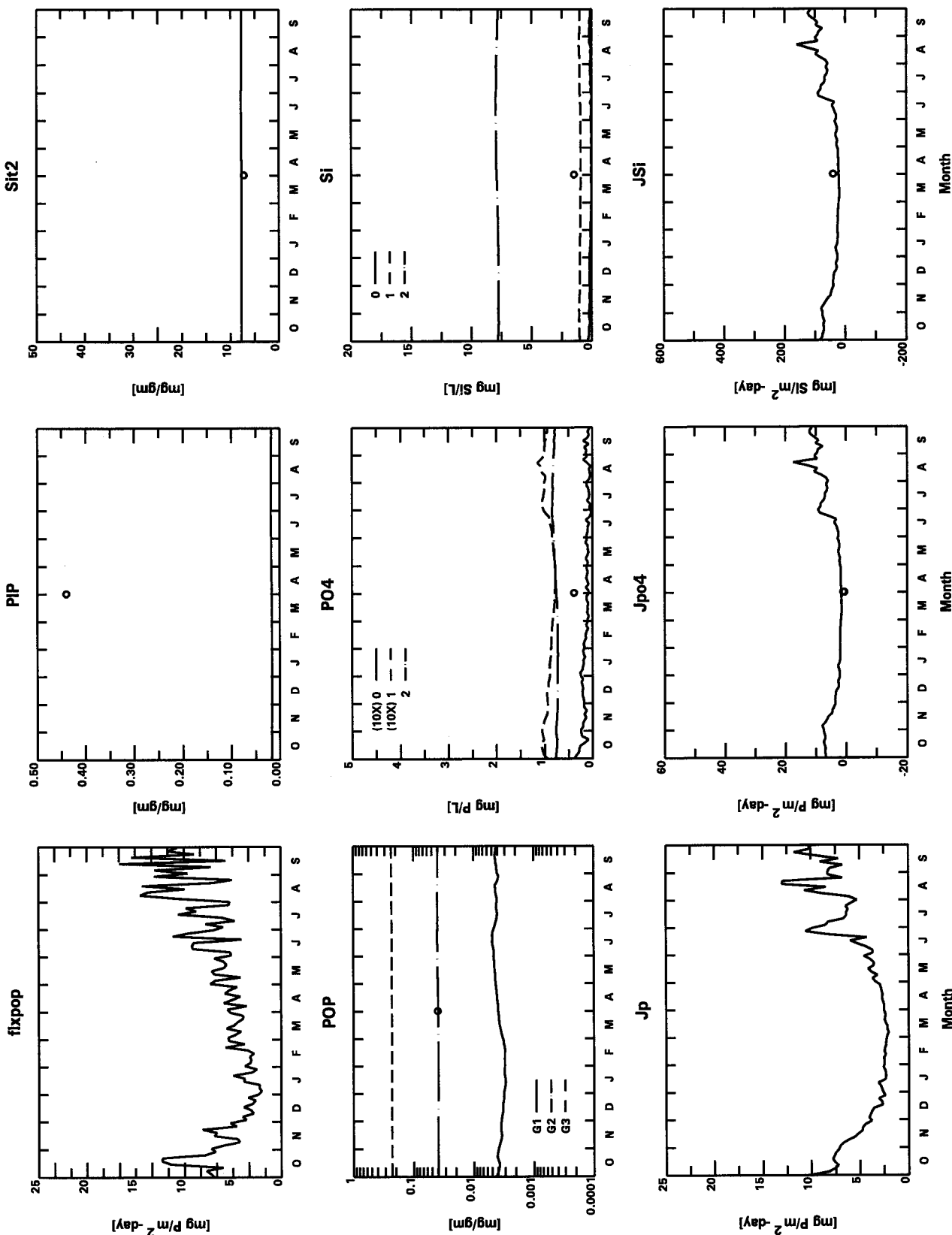
1994 - 1995 Calibration Results for Segment (26/23)

STATION 172 - New York Bight near Rockaway Inlet

SWEM RUN NUMBER 9495-BC3

DATE: Wed Apr 29 TIME: 15:43:09

GRH0020 - SWEM

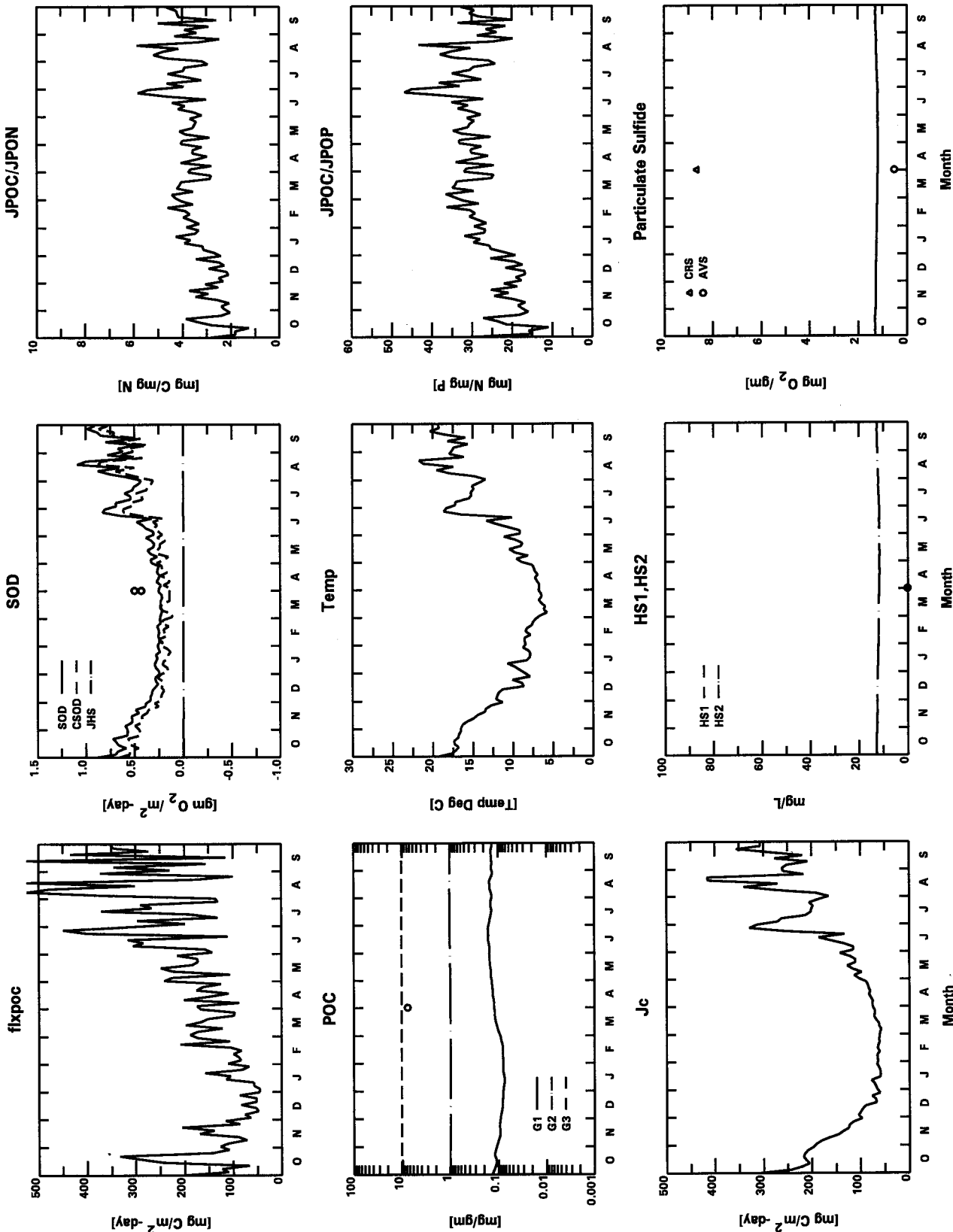


1994 - 1995 Calibration Results for Segment (26/23)

STATION 172 - New York Bight near Rockaway Inlet

DATE: Wed Apr 29 TIME: 15:43:09

GRH0020 - SWEM

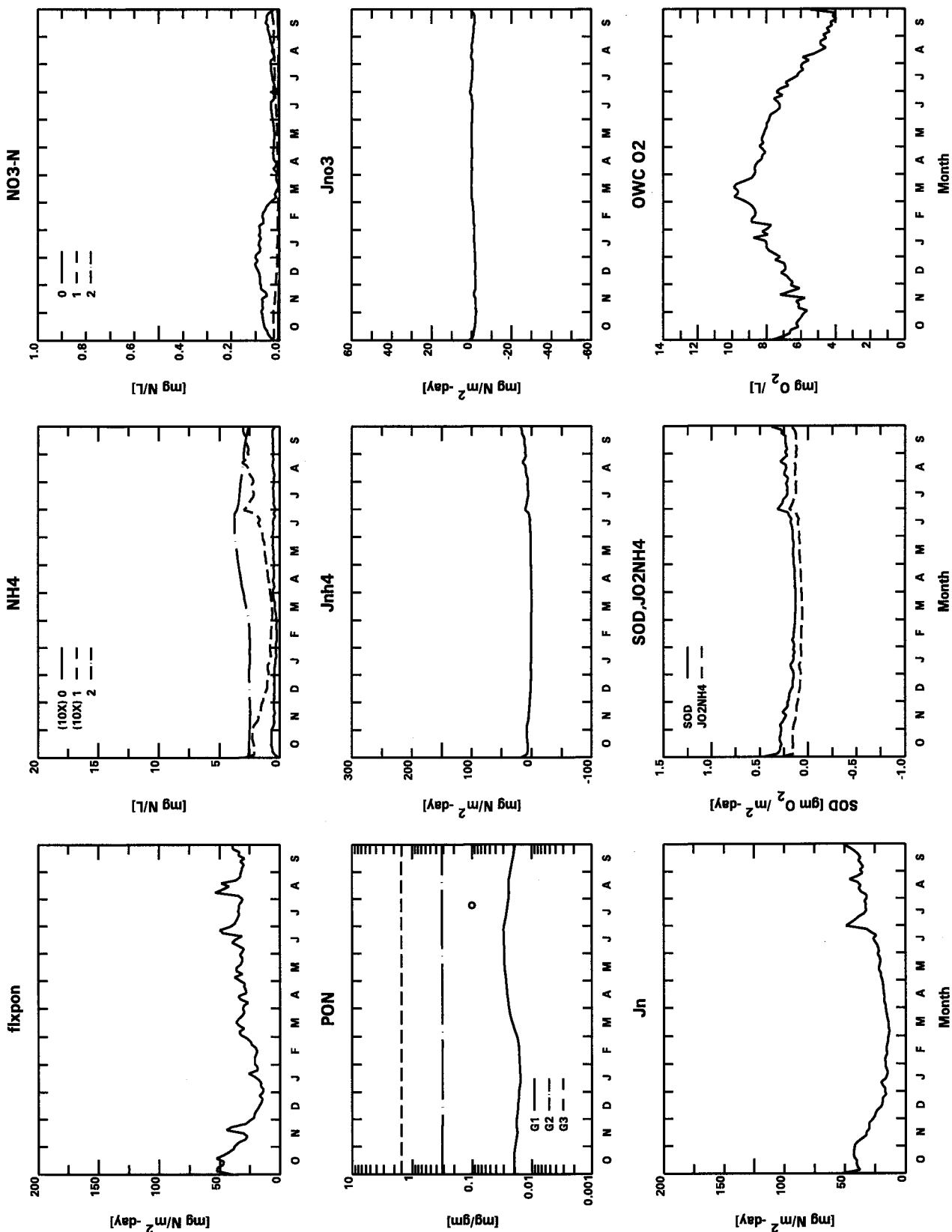


1994 - 1995 Calibration Results for Segment (26/23)

STATION 172 - New York Bight near Rockaway Inlet

DATE: Wed Apr 29 TIME: 15:43:09

GRH0020 - SWEM



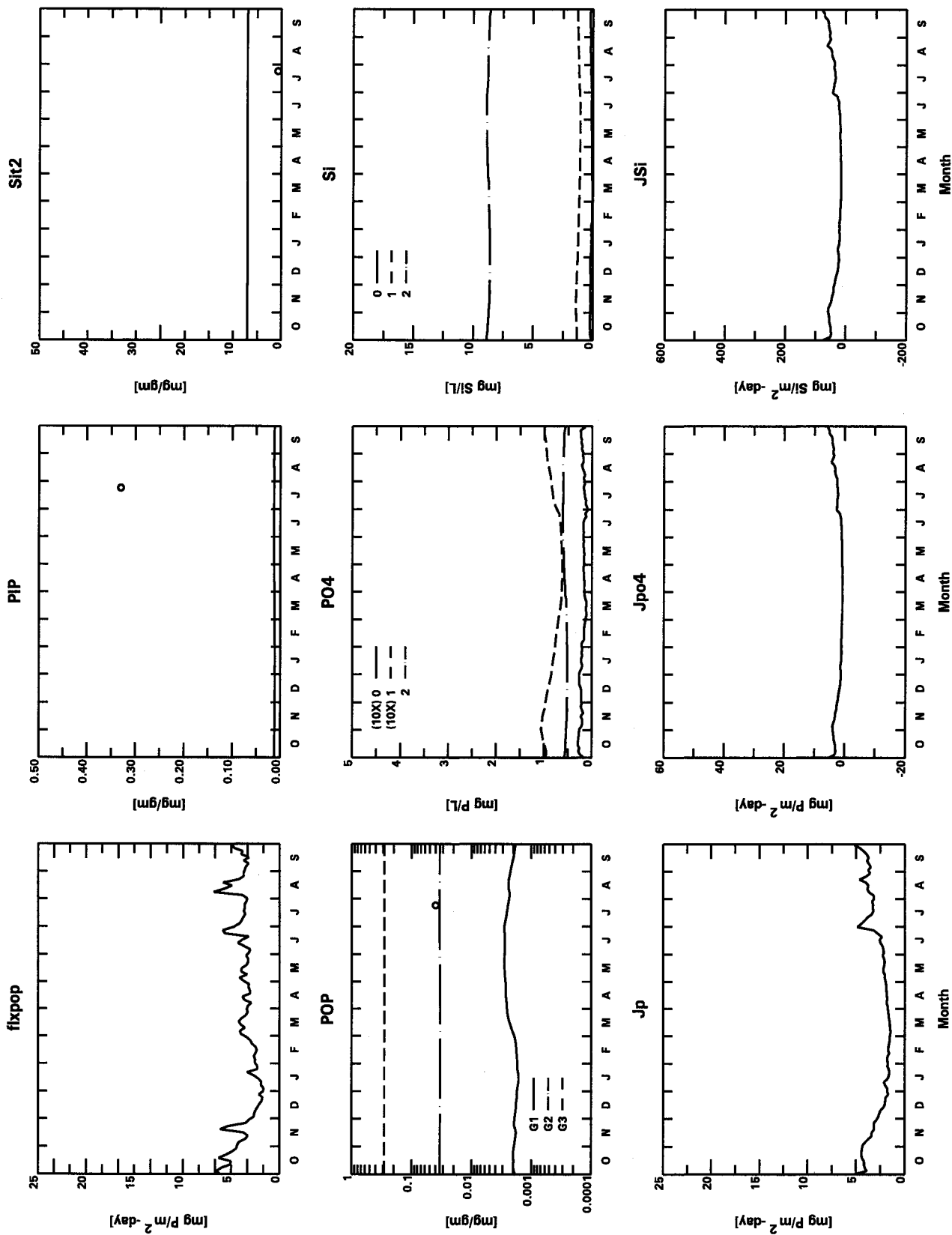
SWEM RUN NUMBER 9495-BC3

1994 - 1995 Calibration Results for Segment (26/17)

STATION 183 - New York Bight off Long Branch

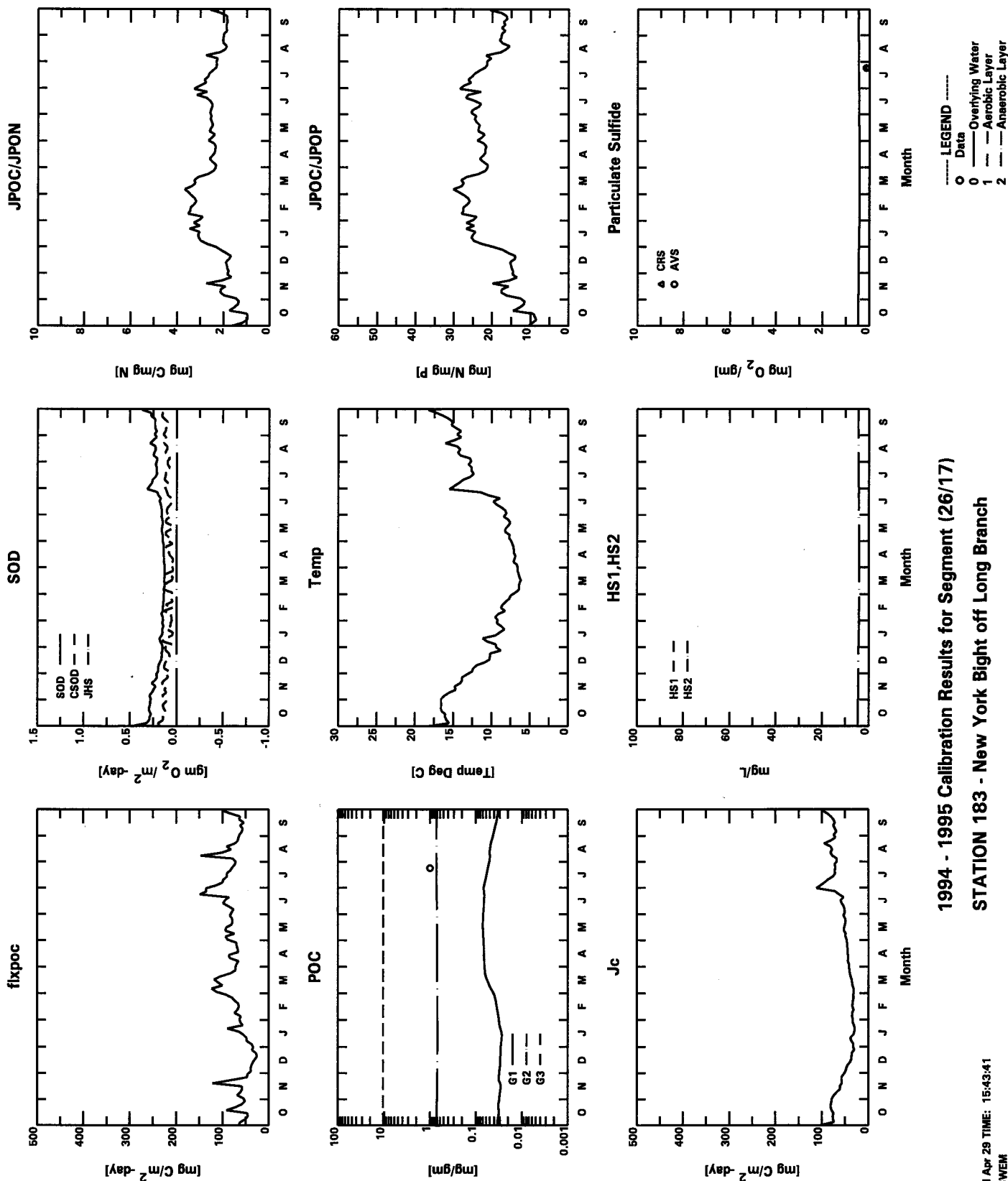
DATE: Wed Apr 29 TIME: 15:43:41

GRN0020 - SWEM



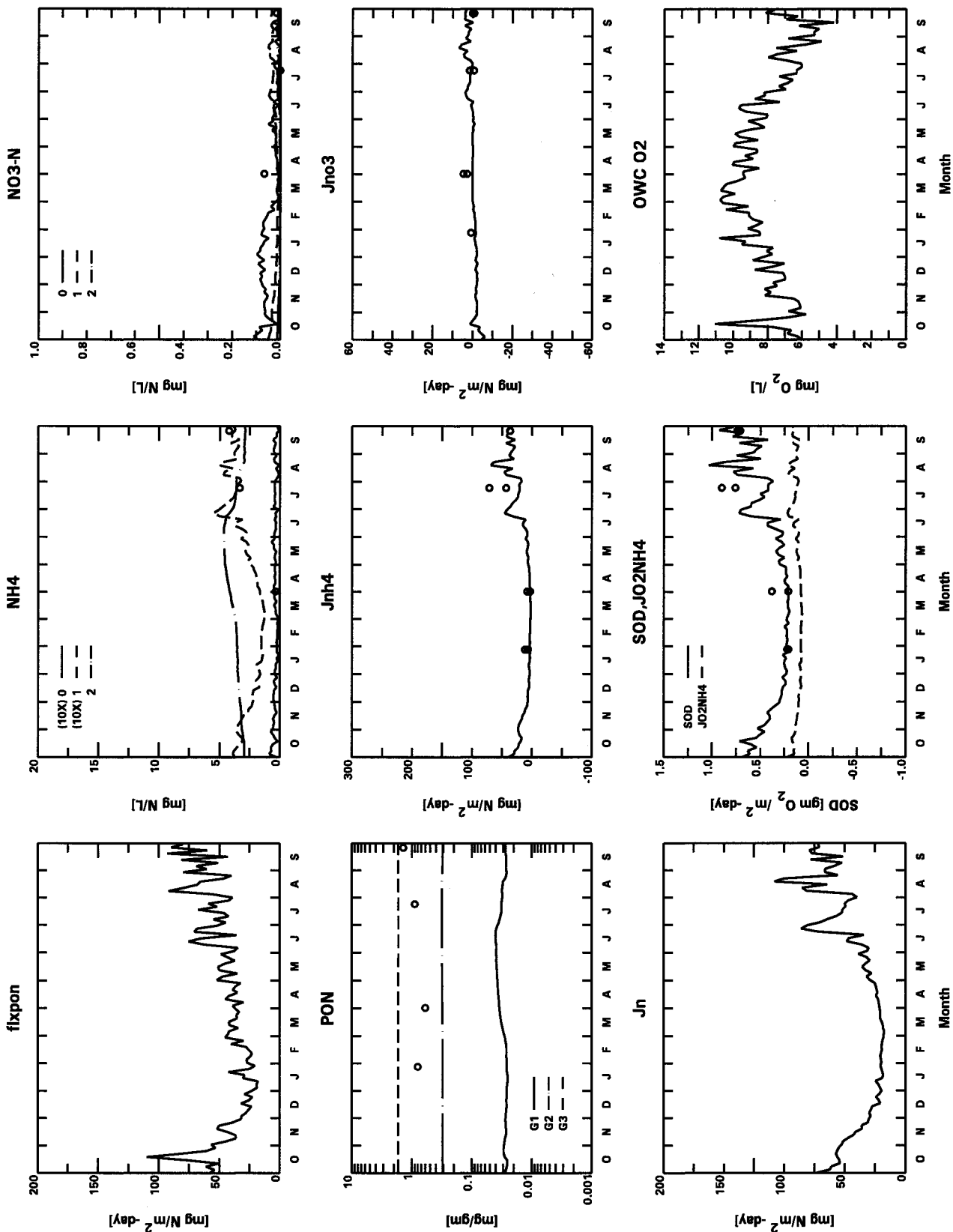
----- LEGEND -----
 O Data
 0 Overlying Water
 1 Aerobic Layer
 2 Anaerobic Layer

1994 - 1995 Calibration Results for Segment (26/17)
 STATION 183 - New York Bight off Long Branch



1994 - 1995 Calibration Results for Segment (26/17)

STATION 183 - New York Bight off Long Branch



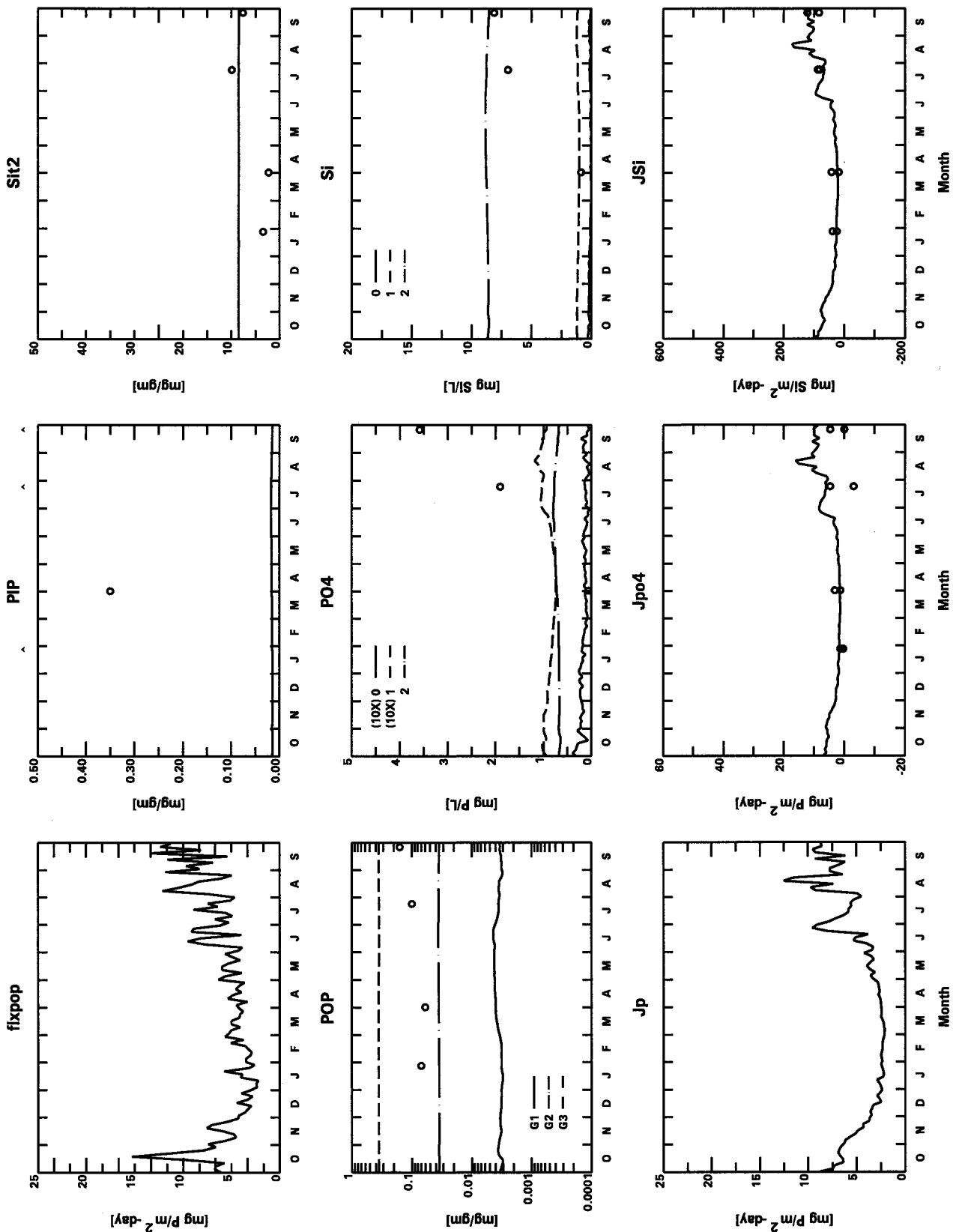
SWEM RUN NUMBER 9495-BC3

1994 - 1995 Calibration Results for Segment (24/22)

STATION 208 - New York Bight Apex

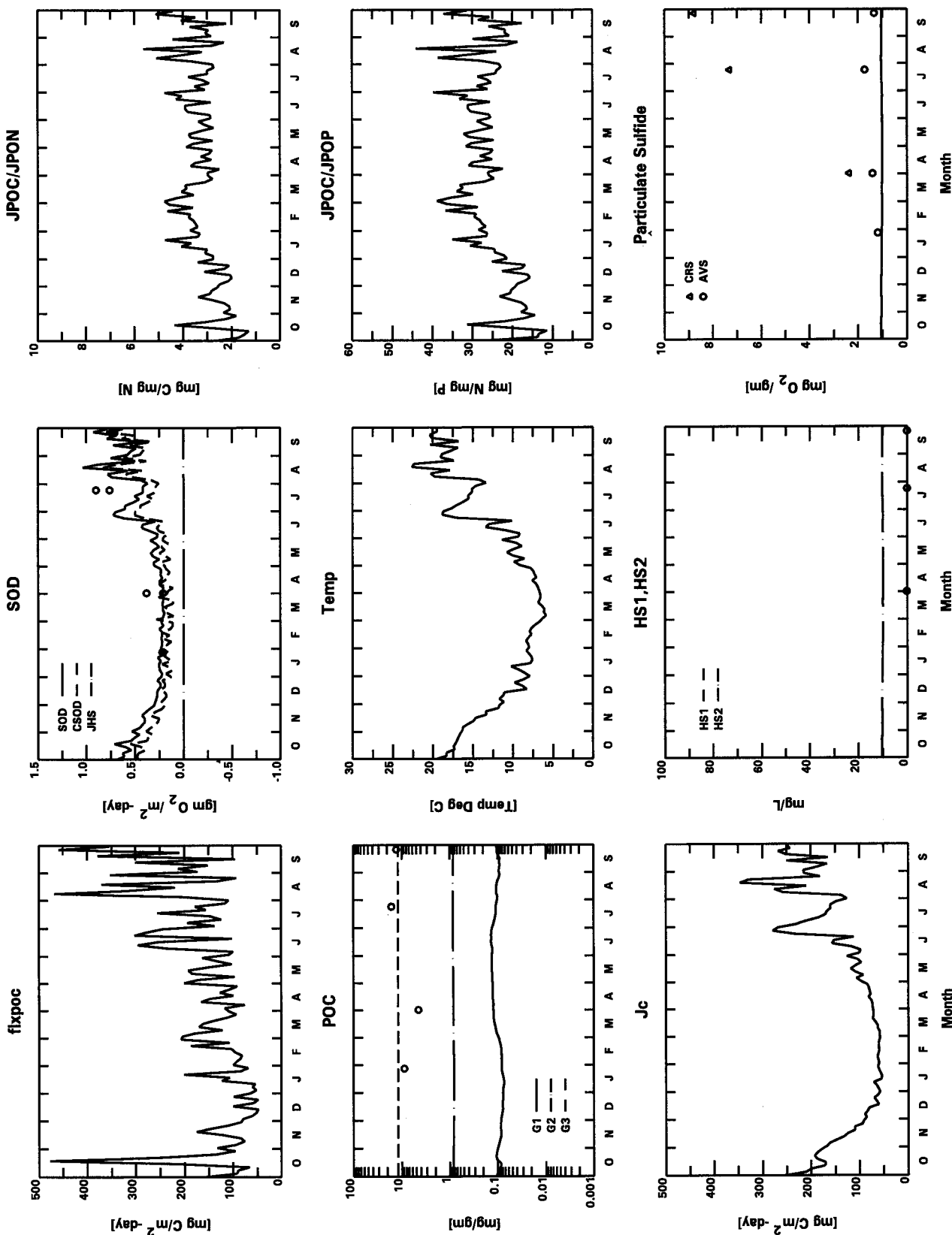
DATE: Wed Apr 25 TIME: 15:44:13

GRN0020 - SWEM



1994 - 1995 Calibration Results for Segment (24/22)

STATION 208 - New York Bight Apex



1994 - 1995 Calibration Results for Segment (24/22)

STATION 208 - New York Bight Apex

DATE: Wed Apr 29 TIME: 15:44:13

GRH0020 - SWEM