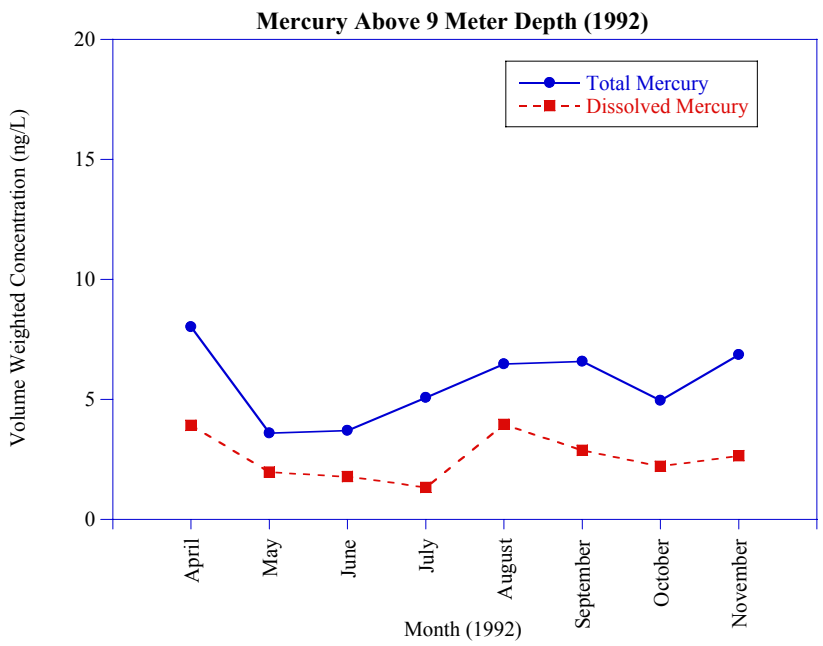
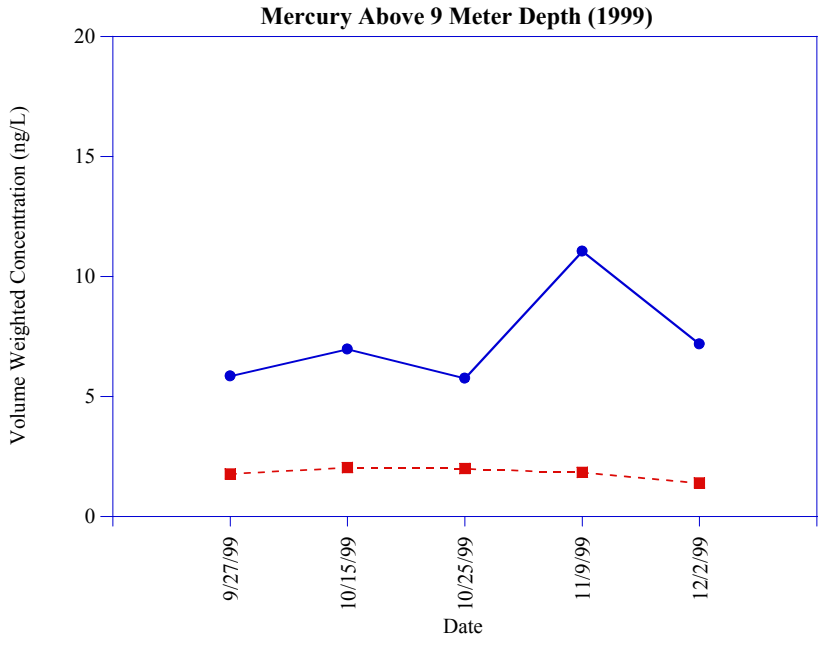
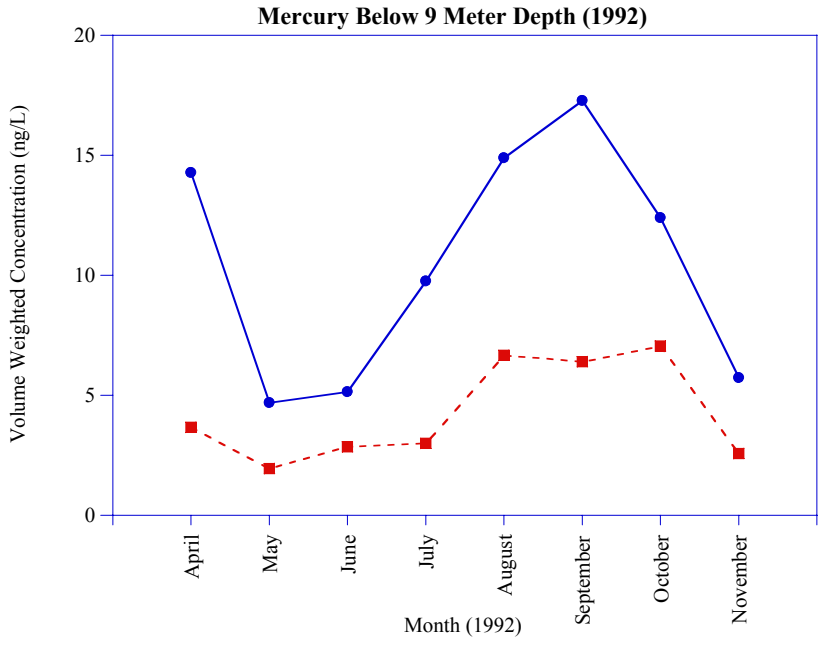






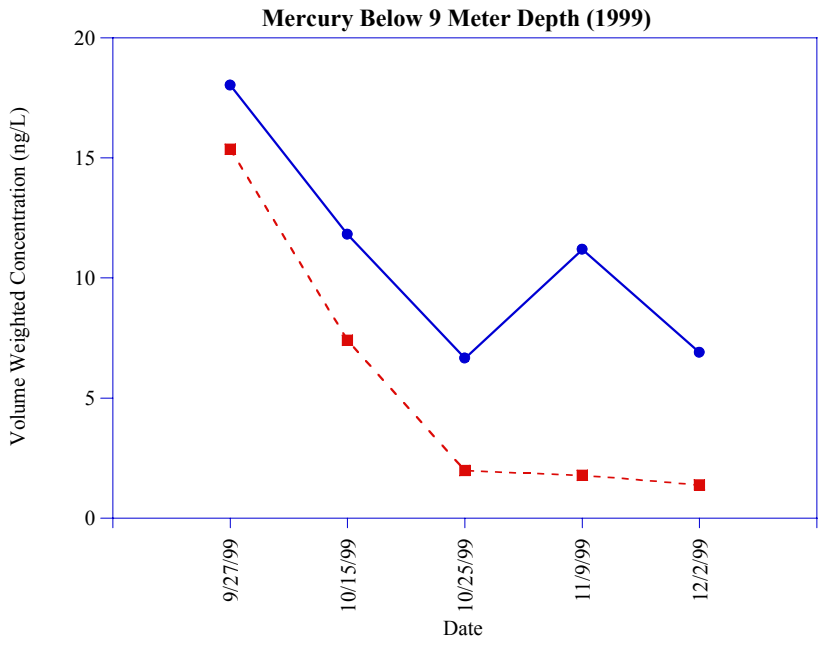
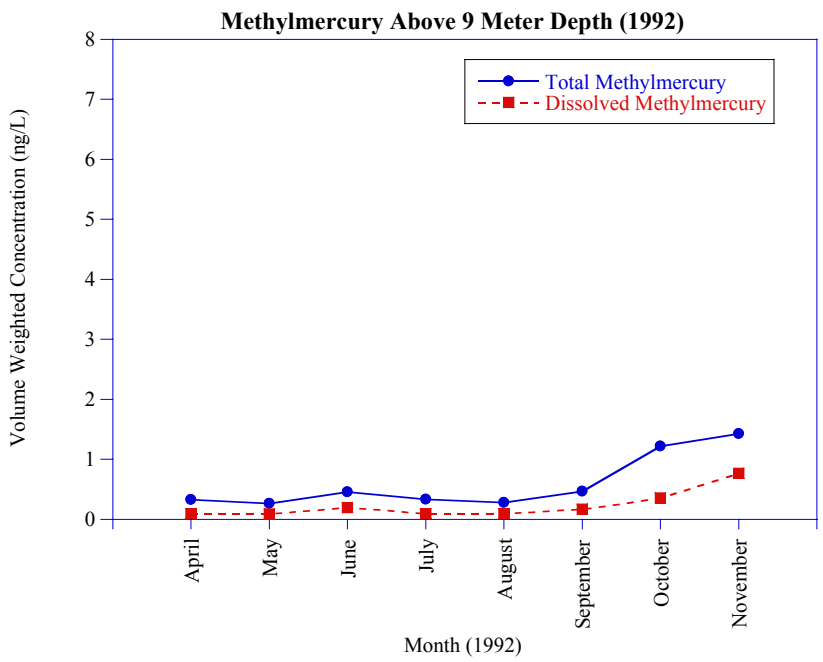
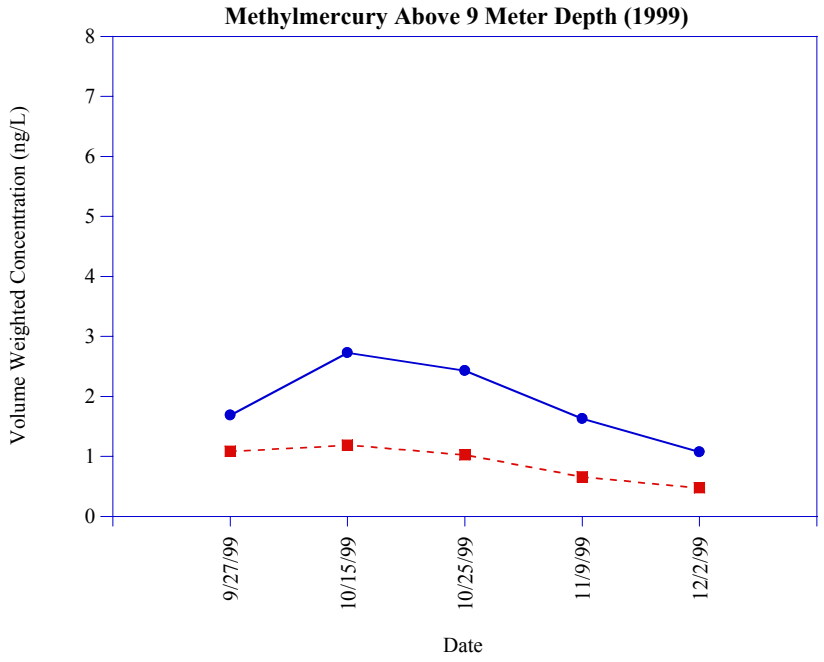
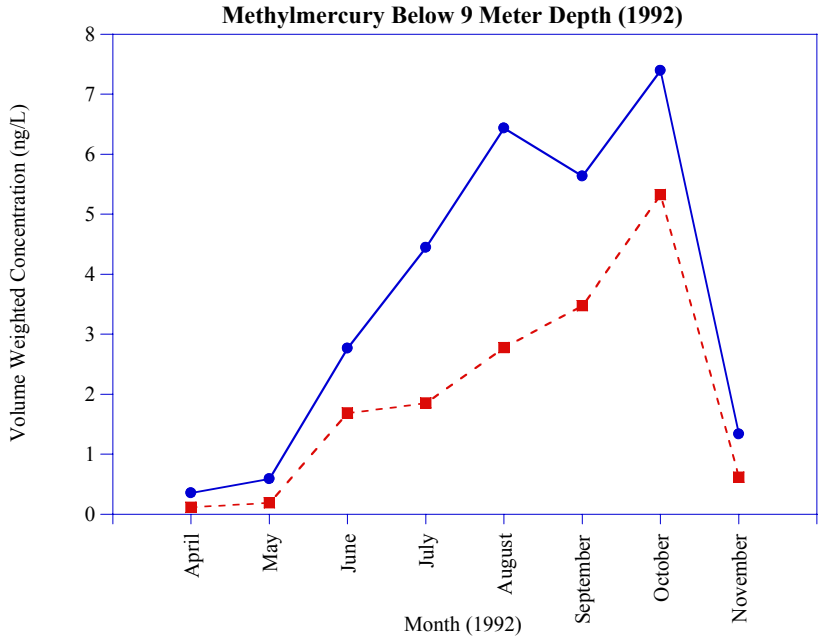


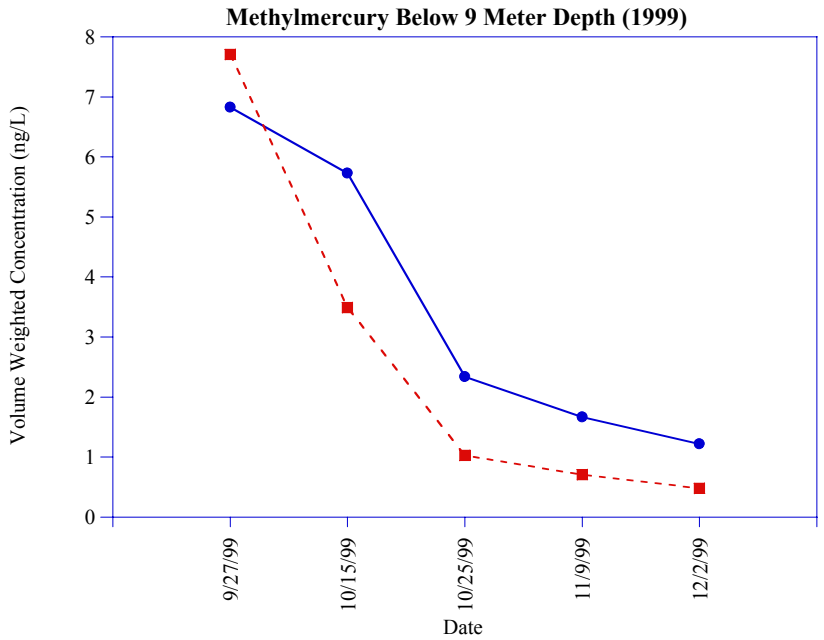
Figure 8-1
Mercury Concentrations in Surface Water of Onondaga Lake

TAMS



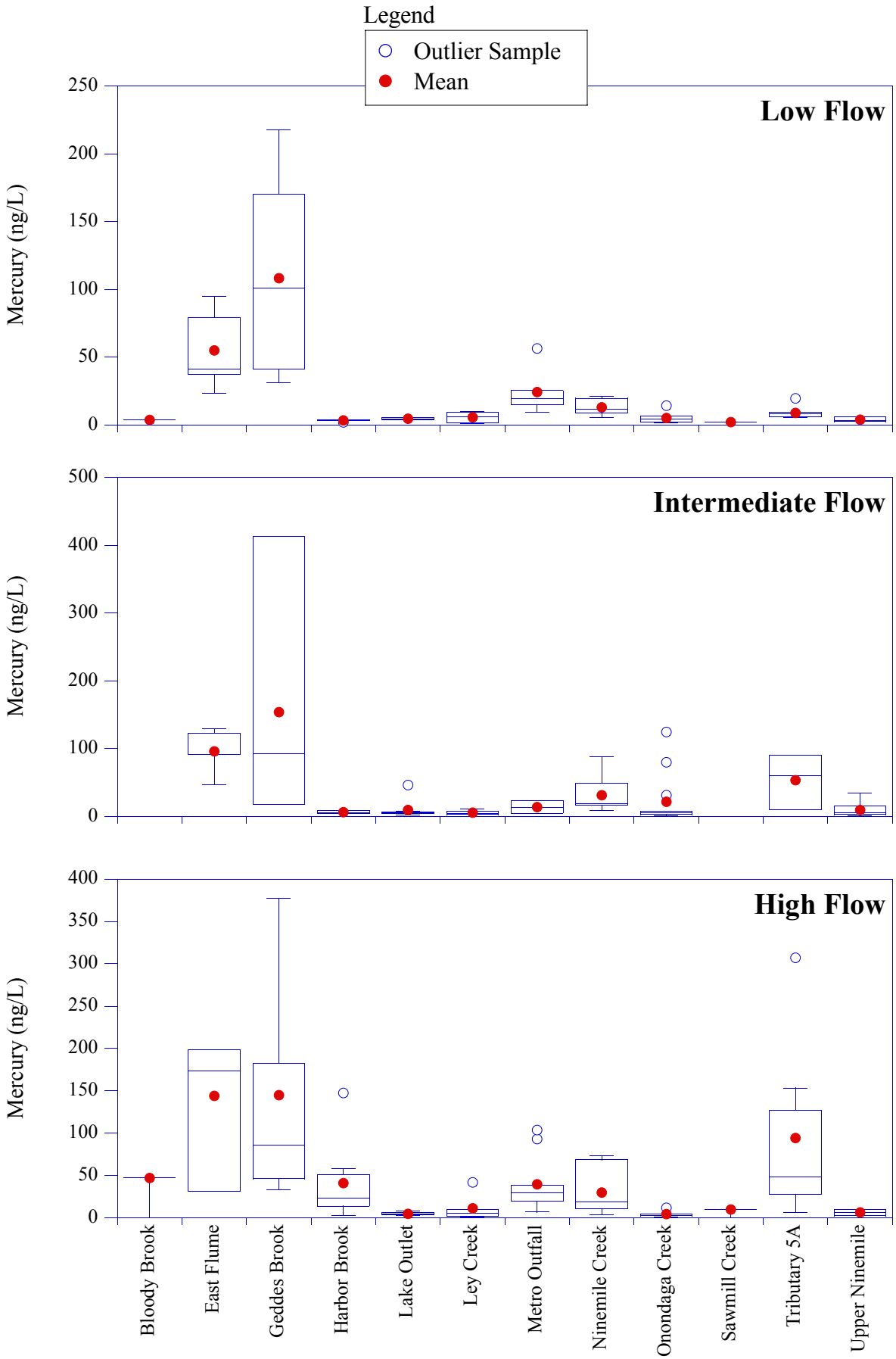






TAMS

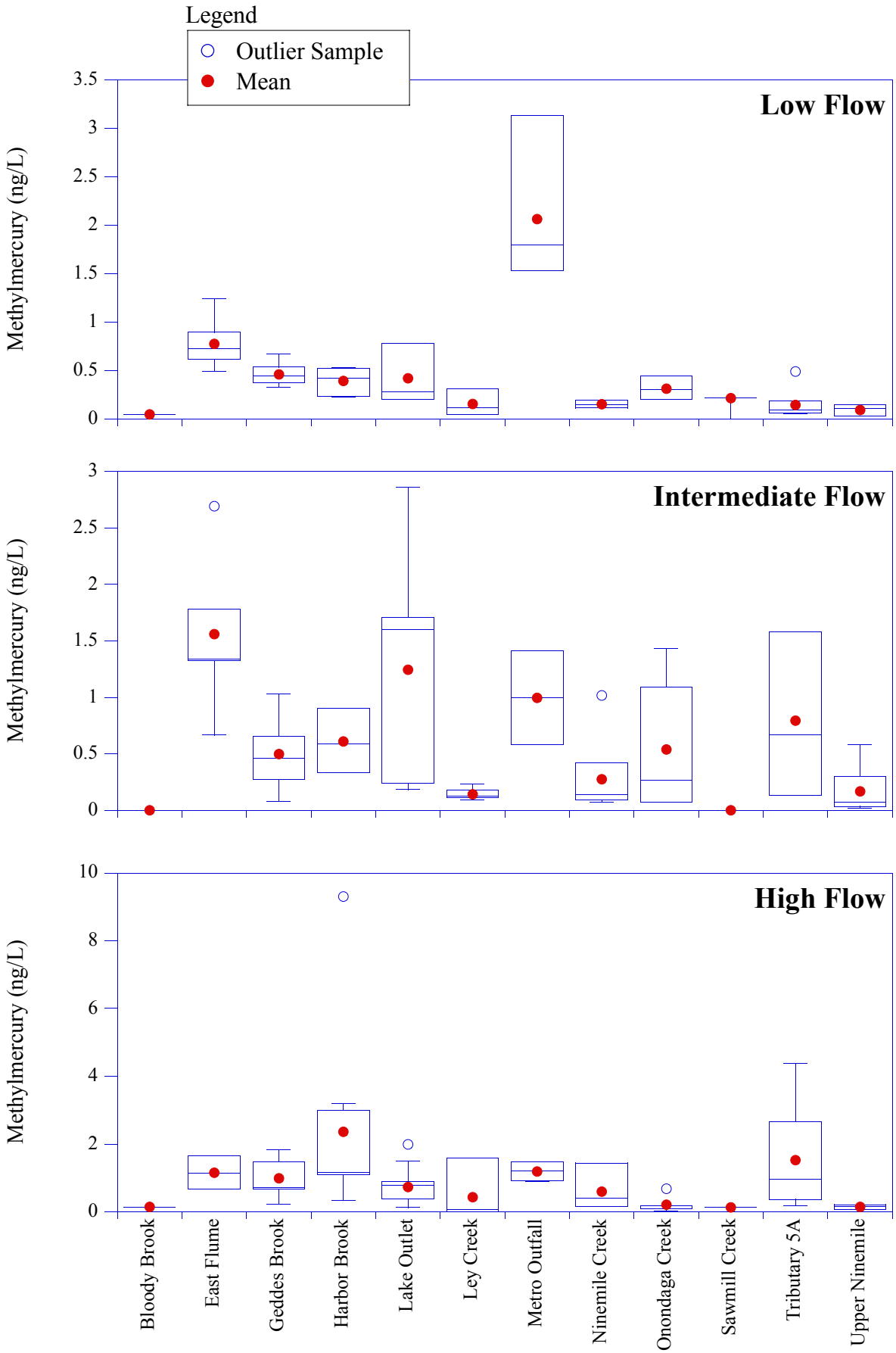
Figure 8-2
Methylmercury Concentrations in Surface Water of Onondaga Lake



Notes:
1. Half the detection limits were used for non-detects.

TAMS

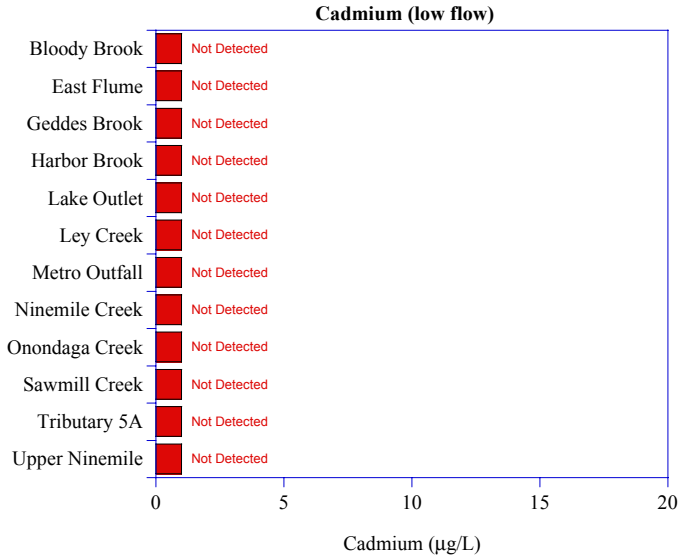
Figure 8-3
Total Mercury in Tributary Water and Metro Discharge During 1992

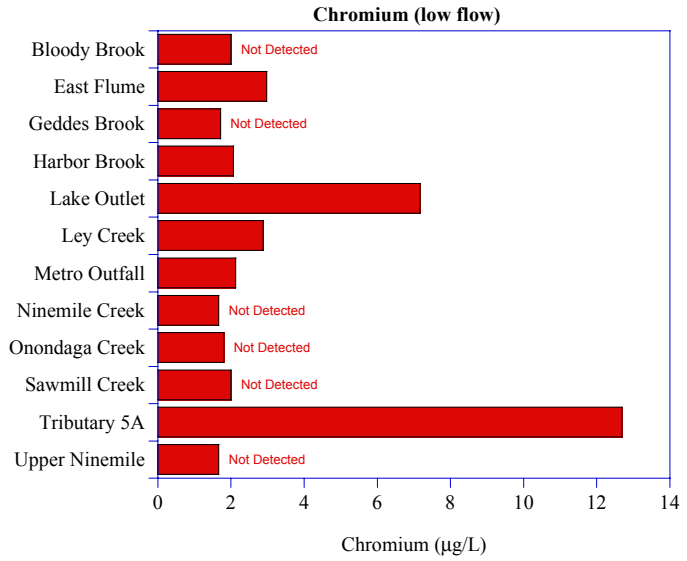


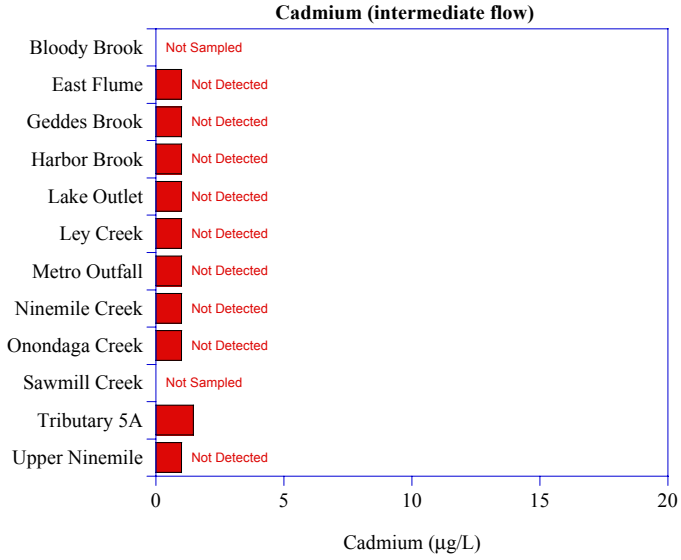
Notes:
1. Half the detection limits were used for non-detects.

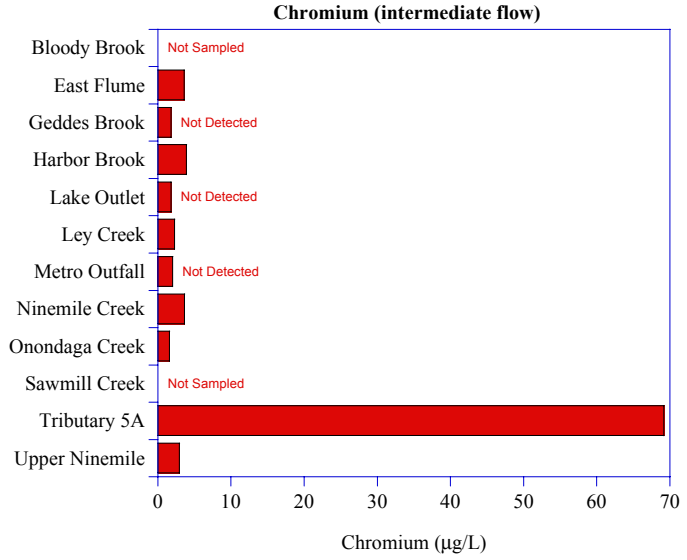
TAMS

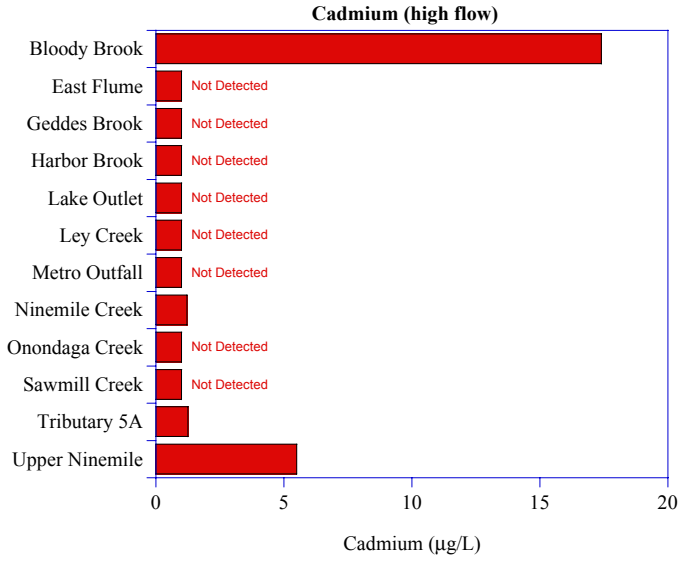
Figure 8-4
Total Methylmercury in Tributary Water and Metro Discharge During 1992

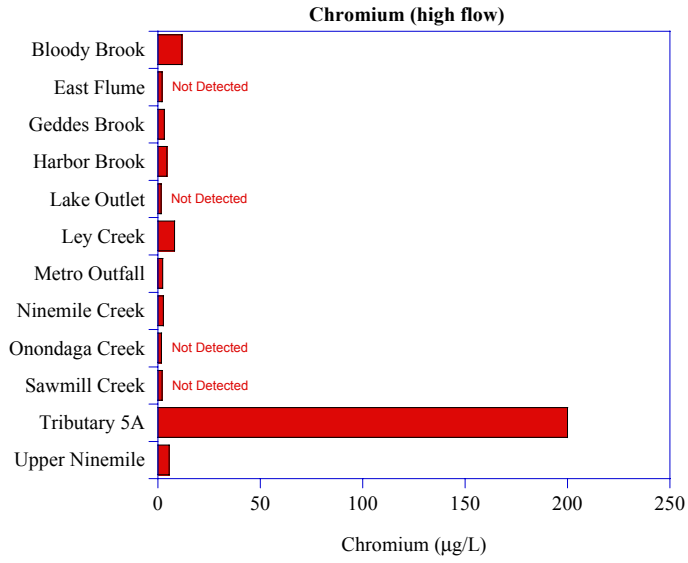








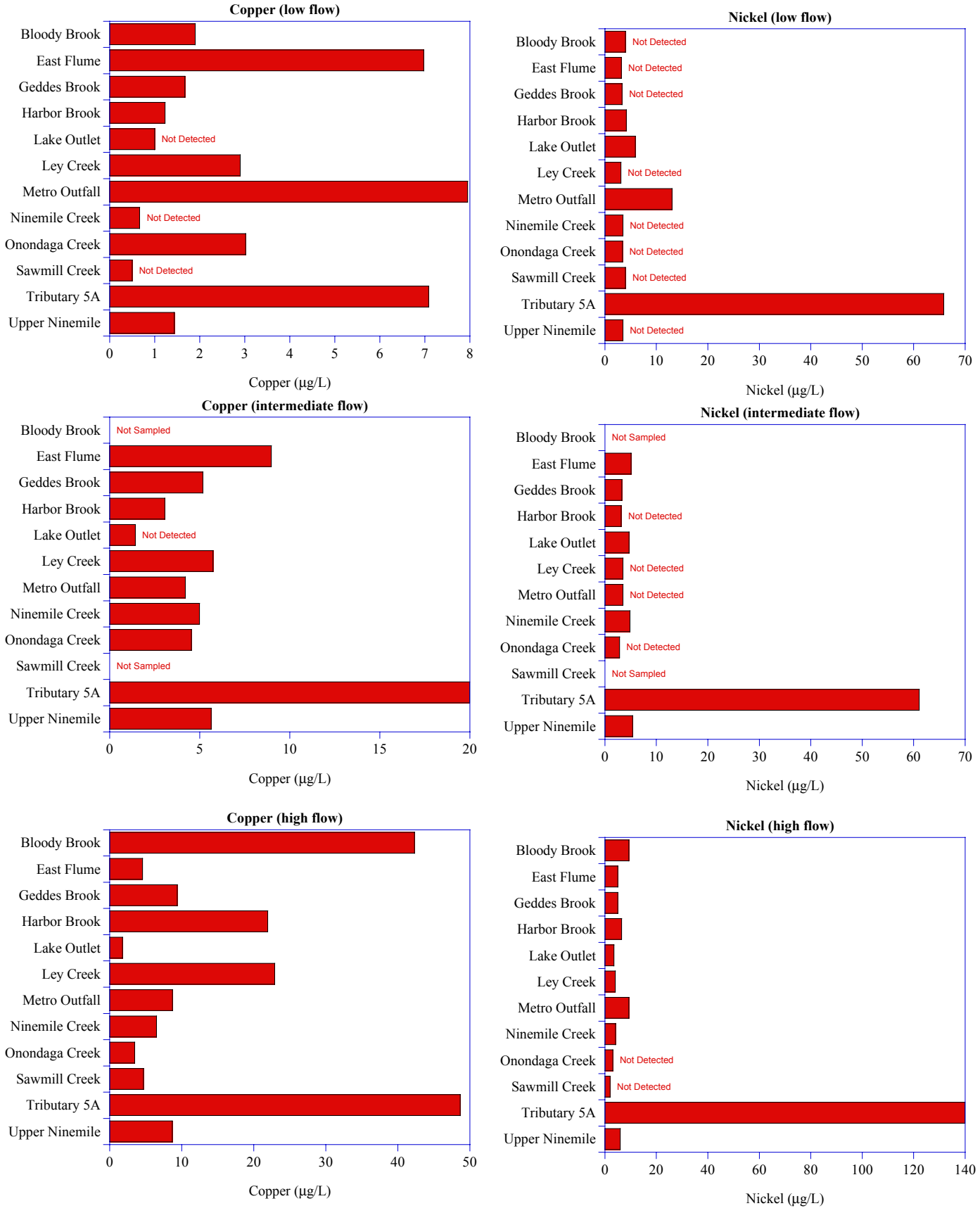




Notes:
1. Half the detection limits were used for non-detects.

TAMS

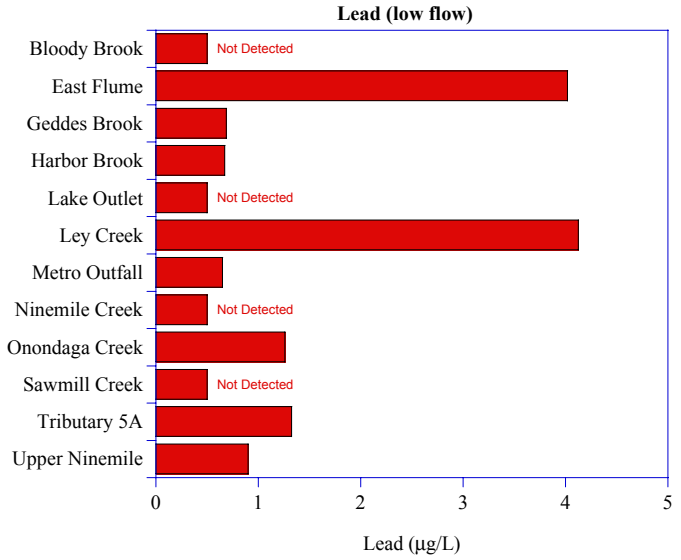
Figure 8-5
Mean Concentrations of Cadmium and Chromium in Tributary Water and Metro Discharge During 1992

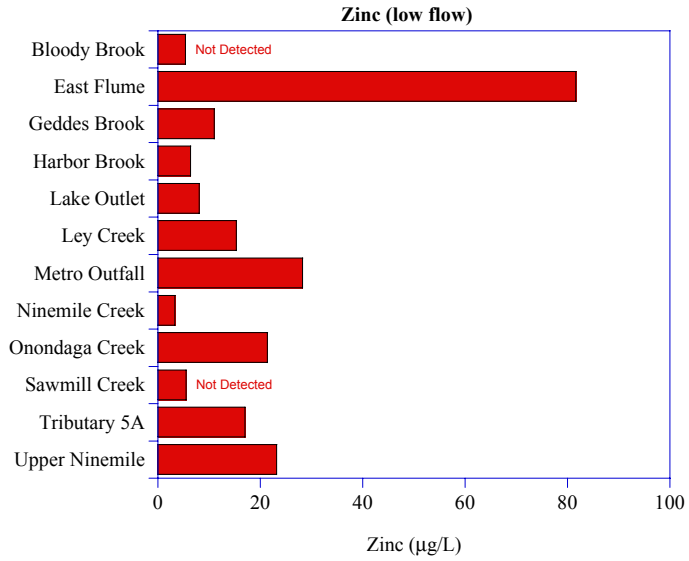


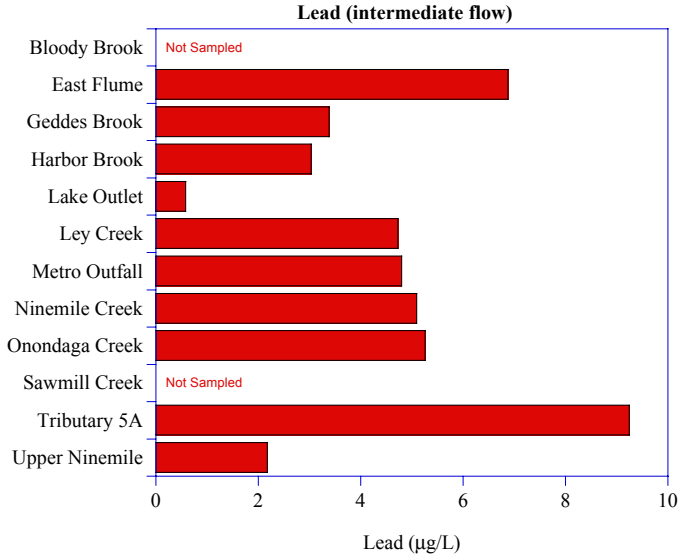
Notes:
1. Half the detection limits were used for non-detects.

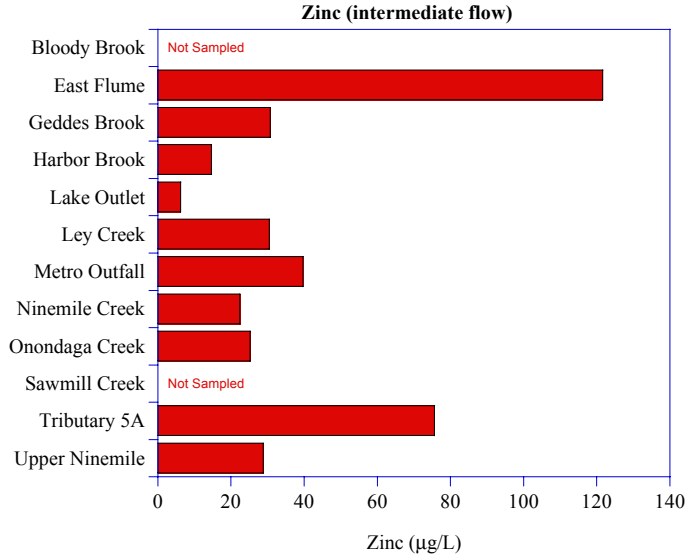
TAMS

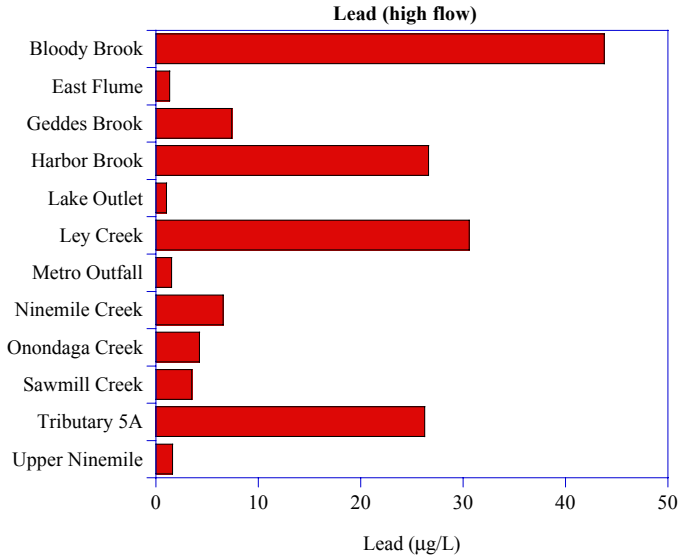
Figure 8-6
Mean Concentrations of Copper and Nickel
in Tributary Water and Metro Discharge During 1992

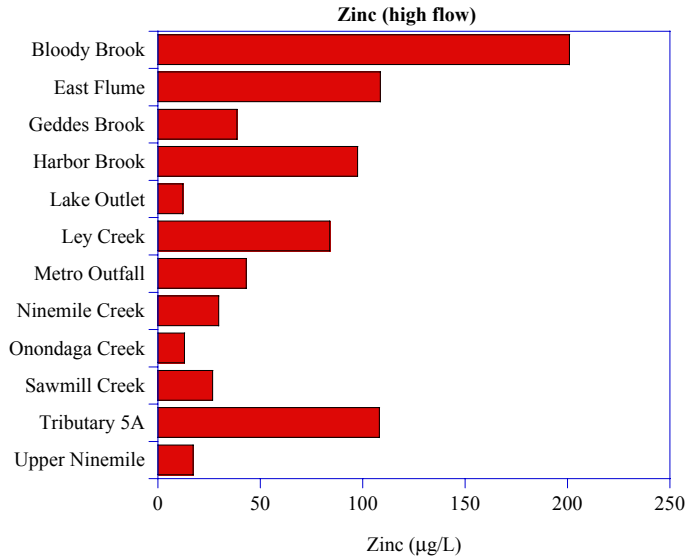








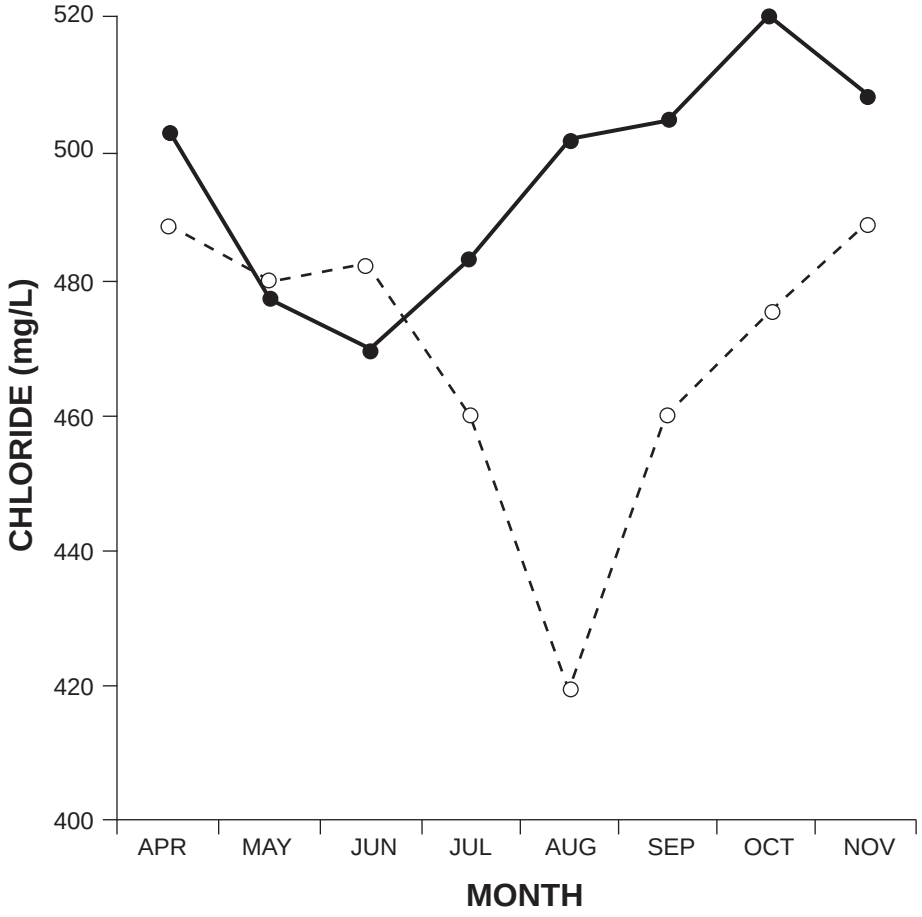




Notes:
1. Half the detection limits were used for non-detects.

TAMS

Figure 8-7
Mean Concentrations of Lead and Zinc
in Tributary Water and Metro Discharge During 1992

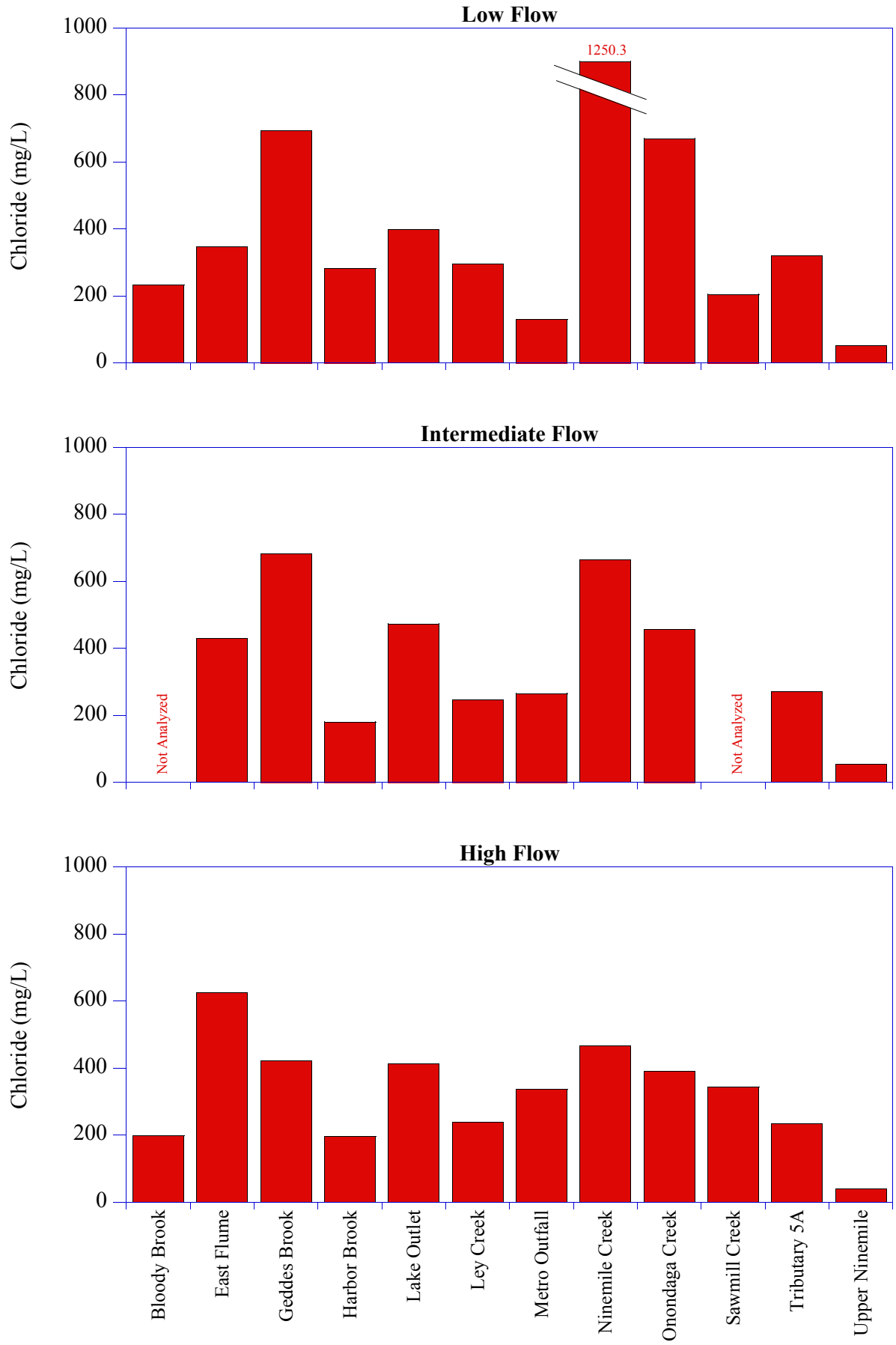


LEGEND

Epilimnion (3 m depth)
Hypolimnion (15 m depth)

Source: Stearns & Wheler (1994)
Exponent, 2001b

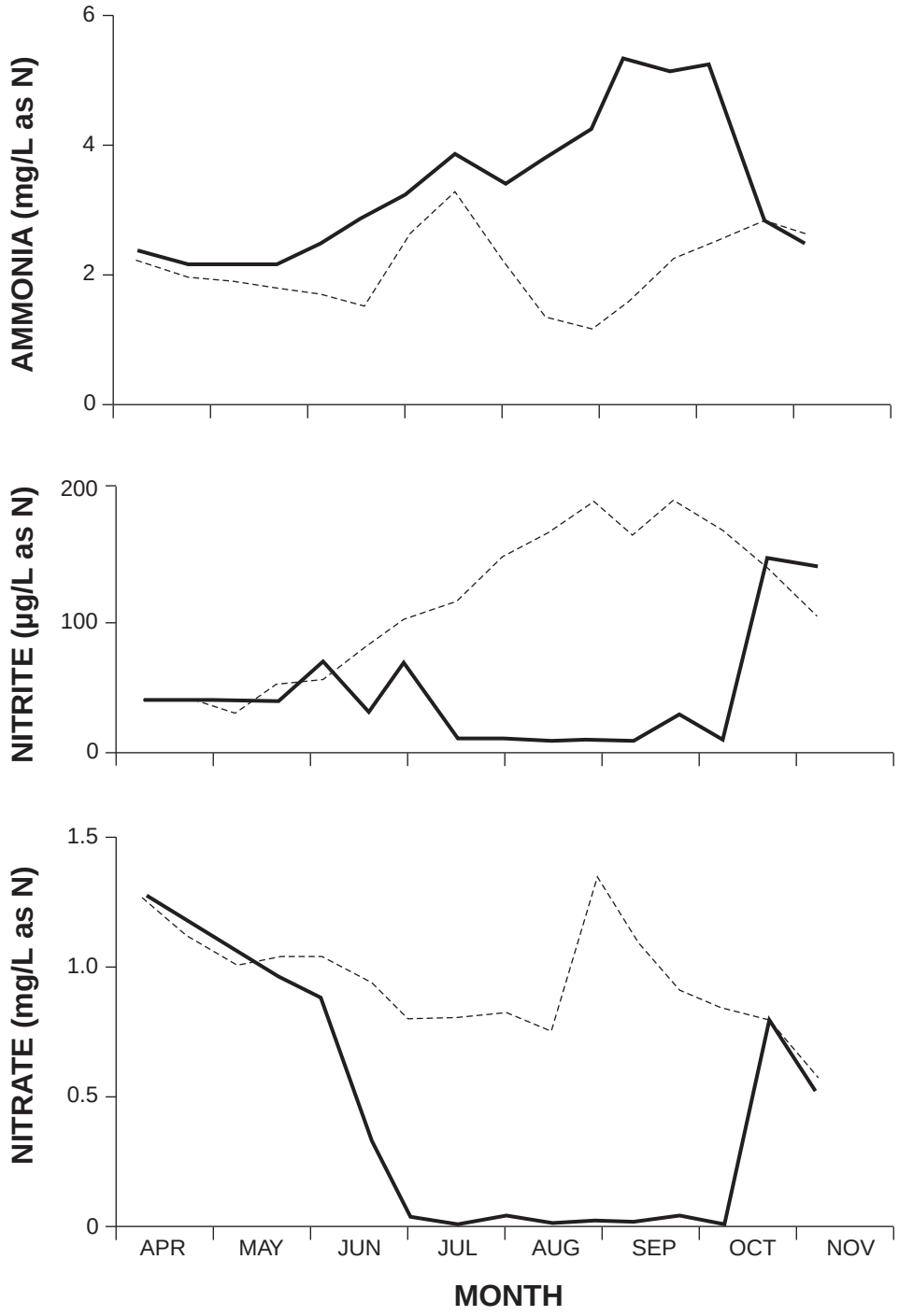
Figure 8-8. Concentrations of chloride in water of Onondaga Lake in 1992



Notes:
1. Half the detection limits were used for non-detects.

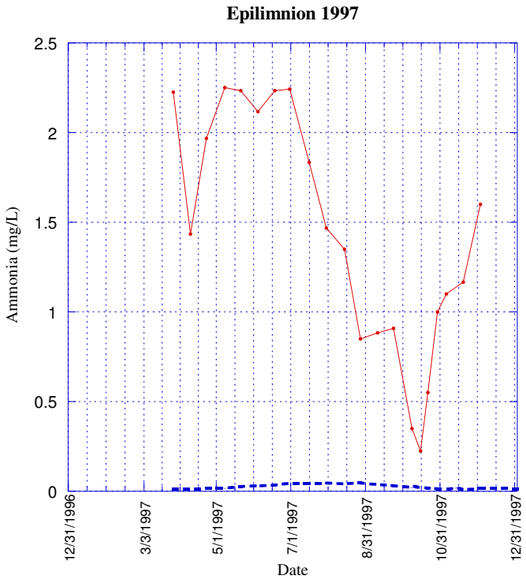
TAMS

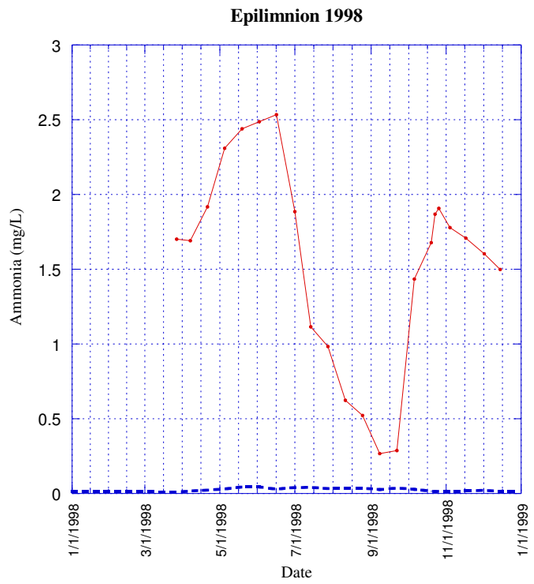
Figure 8-9
Mean Concentrations of Chloride
in Tributary Water and Metro Discharge During 1992

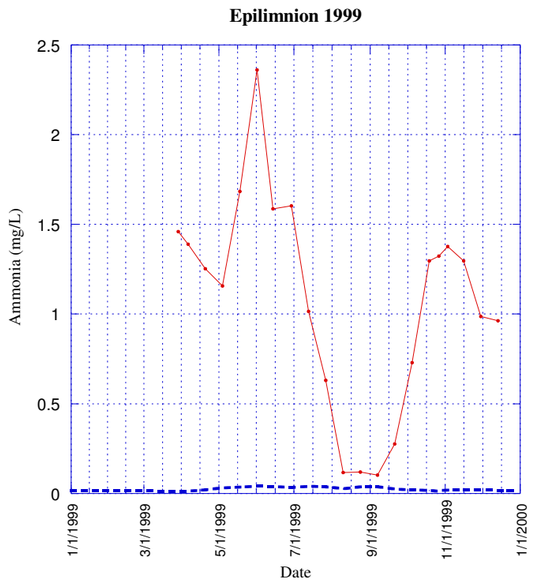


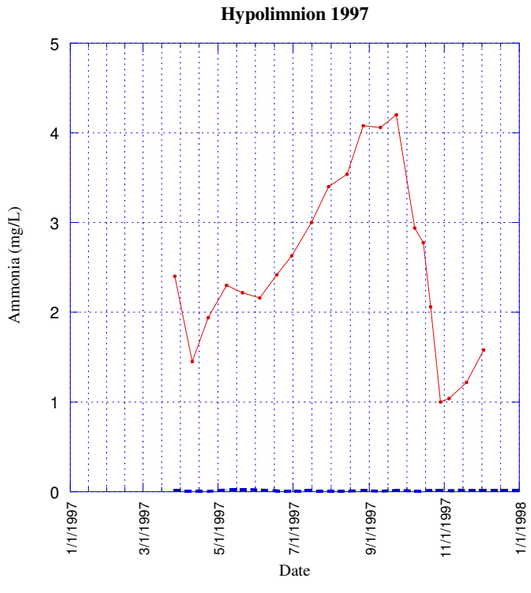
Source: Stearns & Wheler (1994)
Exponent, 2001b

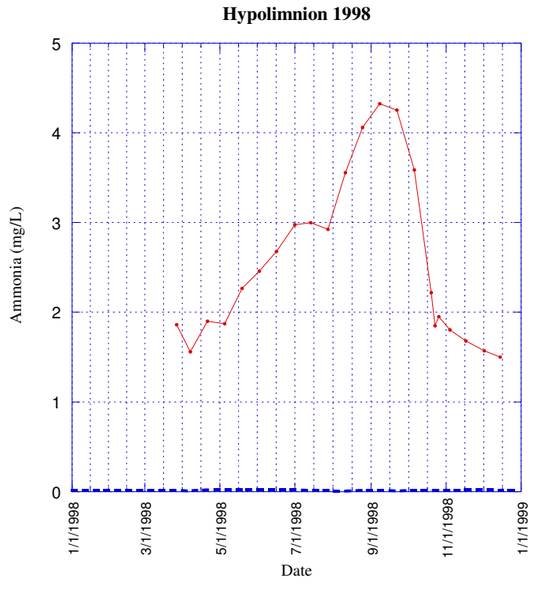
Figure 8-10. Concentrations of ammonia, nitrite, and nitrate in Onondaga Lake in 1992

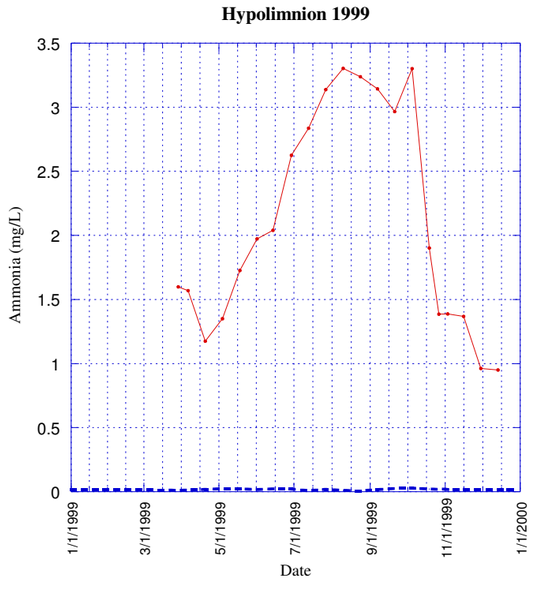












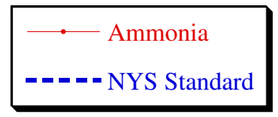


Figure 8-11

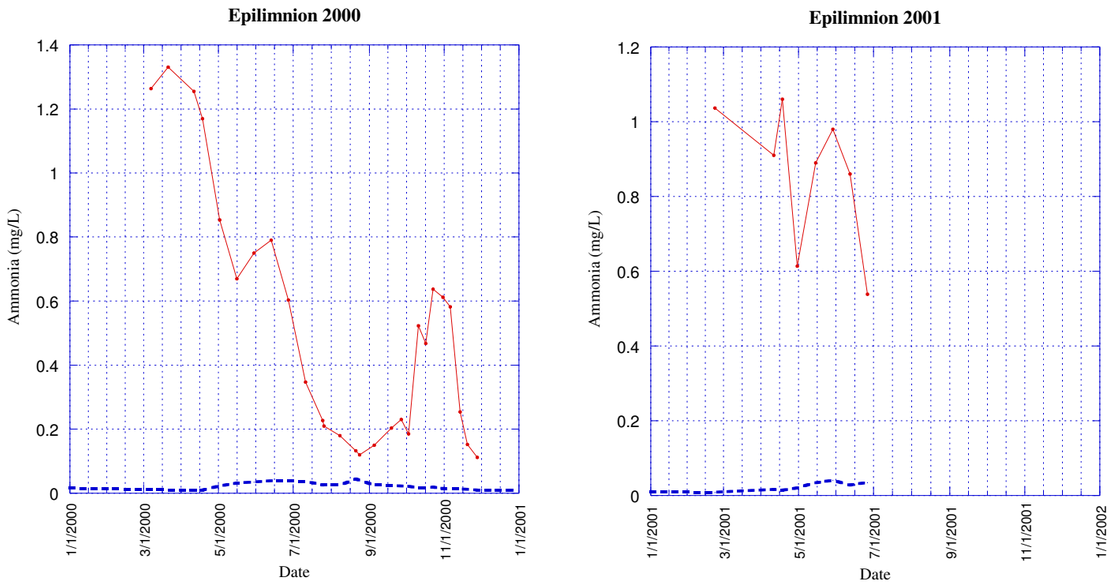
Ammonia Concentrations in Onondaga Lake 1997 - 2001

Note: New York State chronic water quality standard is a function of pH and water temperature (NYSDEC, 1998)

Points shown are averages for all epilimnion or hypolimnion samples available on each sample date.

Source: Onondaga County Ambient Water Quality Monitoring Program.

TAMS



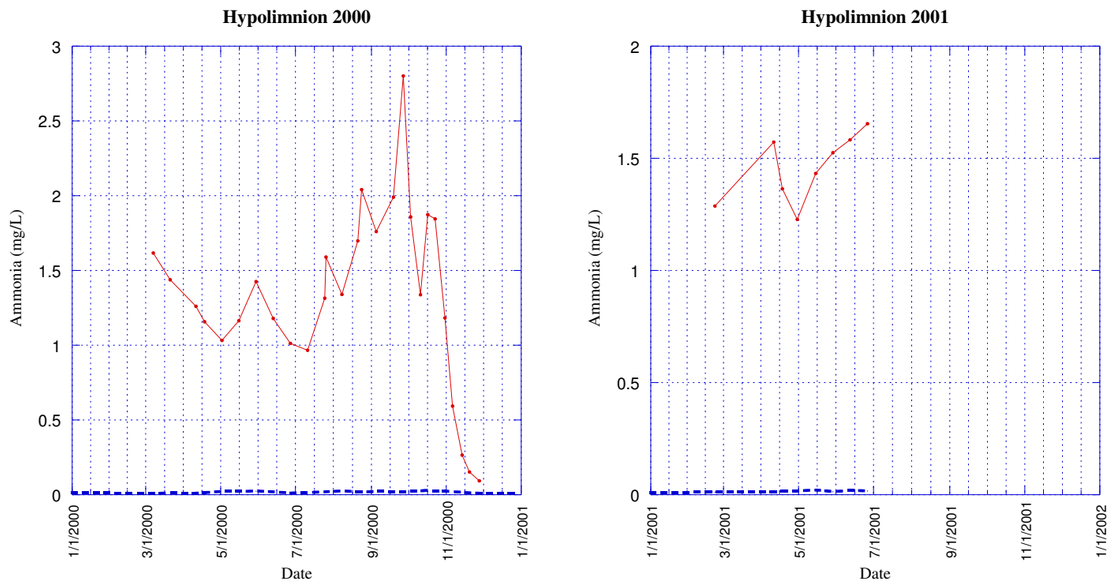


Figure 8-11 cont.

Ammonia Concentrations in Onondaga Lake 1997 - 2001

Note: New York State chronic water quality standard is a function of pH and water temperature (NYSDEC, 1998)

Points shown are averages for all epilimnion or hypolimnion samples available on each sample date.

Source: Onondaga County Ambient Water Quality Monitoring Program.

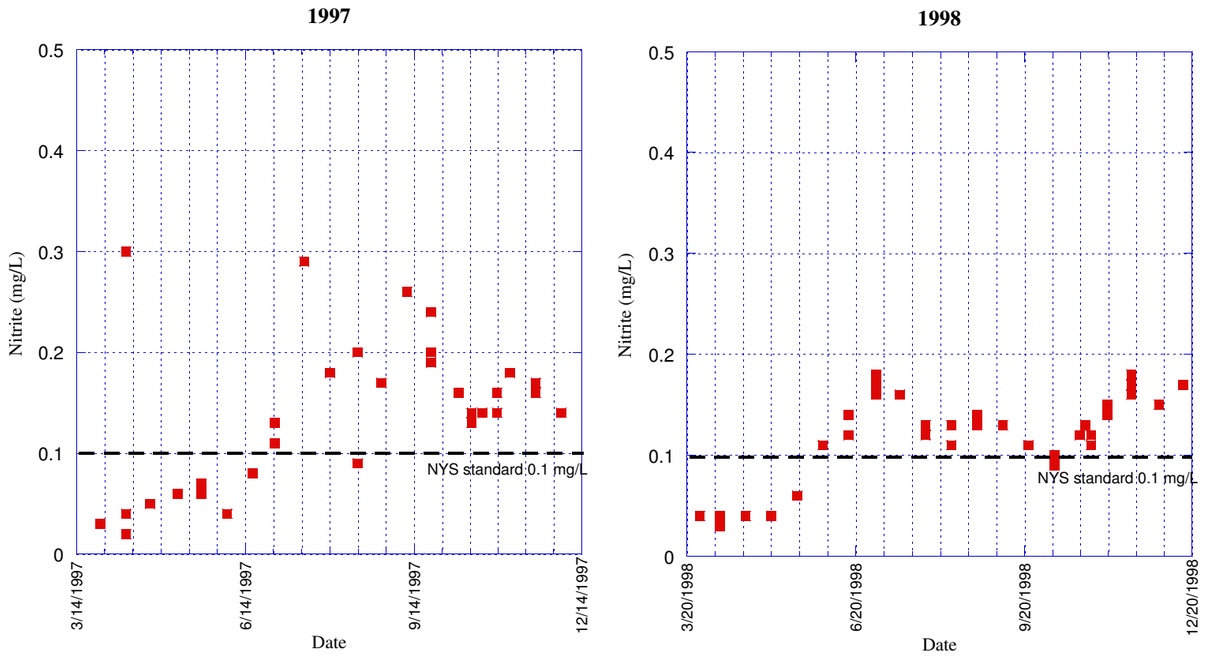
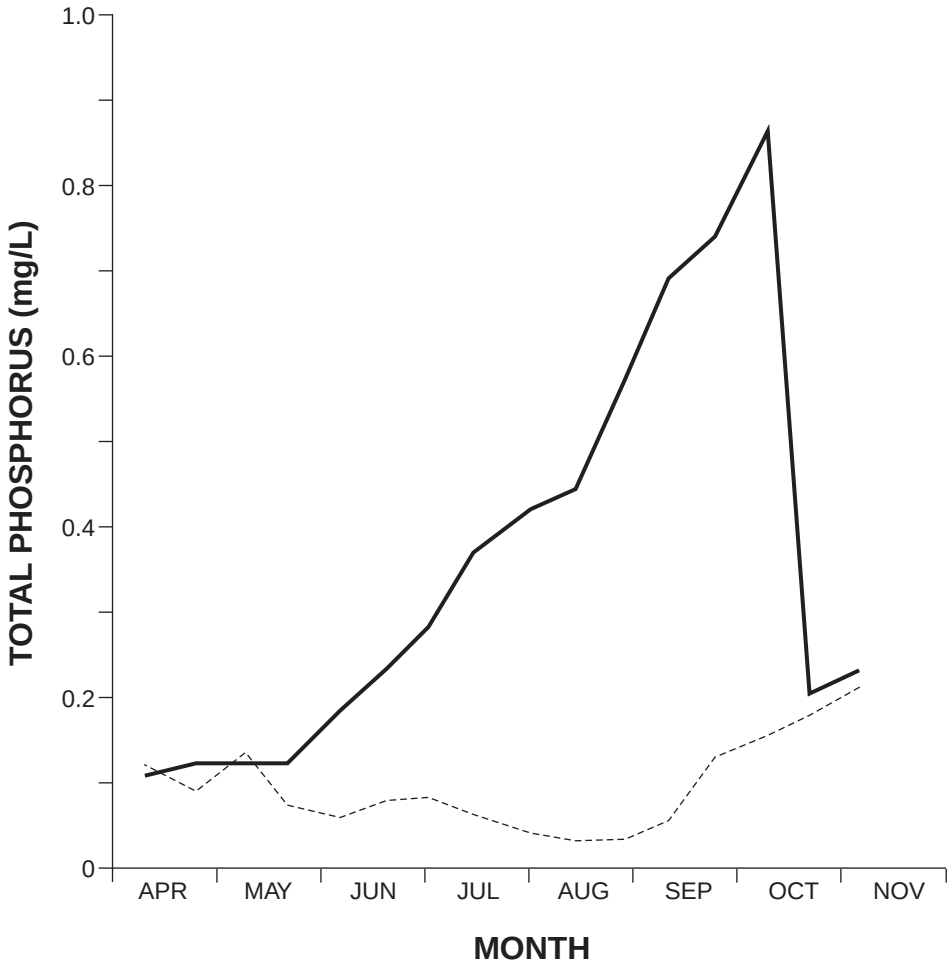


Figure 8-12

Nitrite Concentrations in the Epilimnion (above 9 m depths) of Onondaga Lake, 1997 - 2001

Note: Data shown can be from several sample depths. Where this occurs, the points are shown independently of each other on the plot.

Source: Onondaga County Ambient Water Quality Monitoring Program

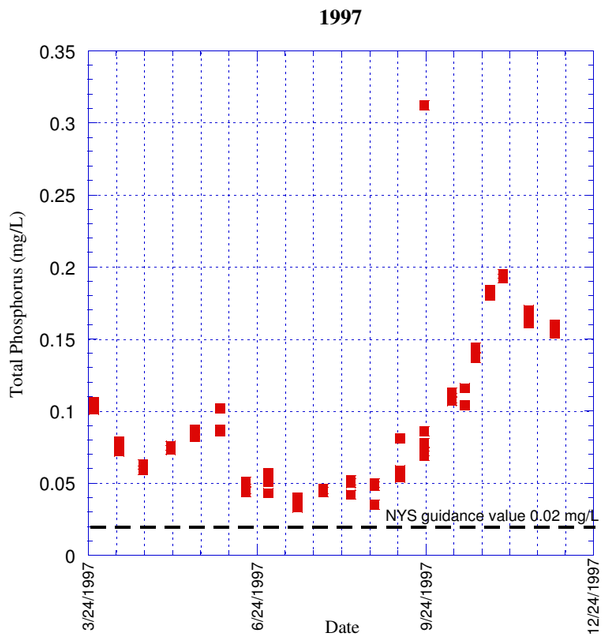


LEGEND

- Epilimnion (3 m depth)
- Hypolimnion (15 m depth)

Source: Stearns & Wheler (1994)
Exponent, 2001b

Figure 8-13. Concentrations of total phosphorus in Onondaga Lake in 1992



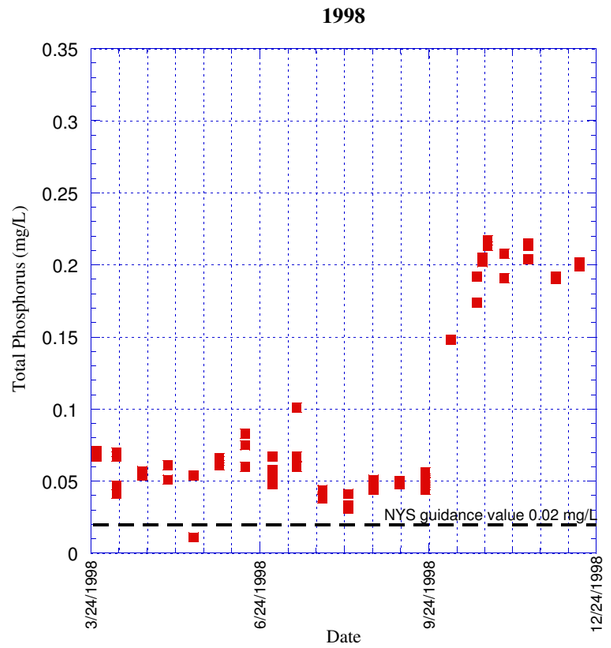
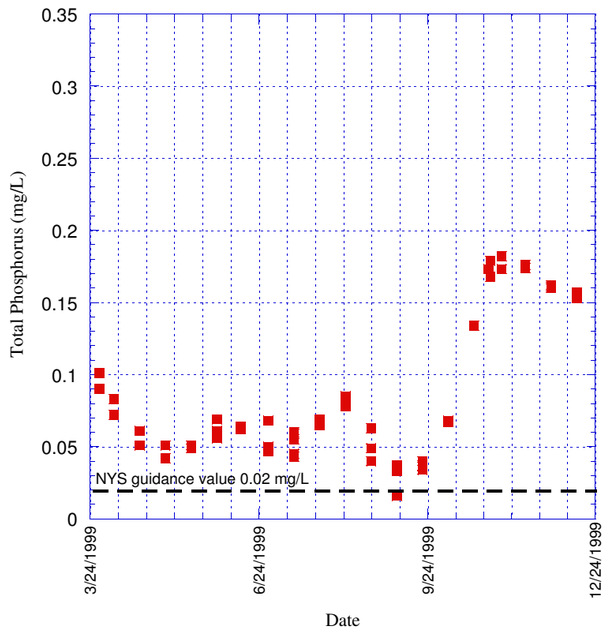
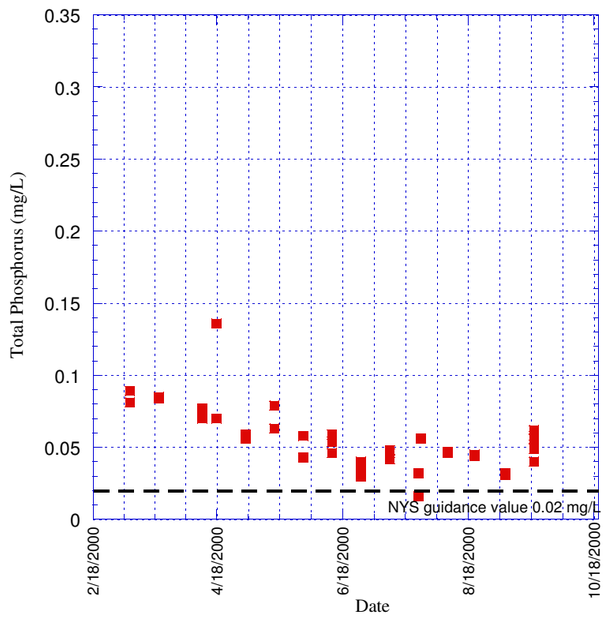
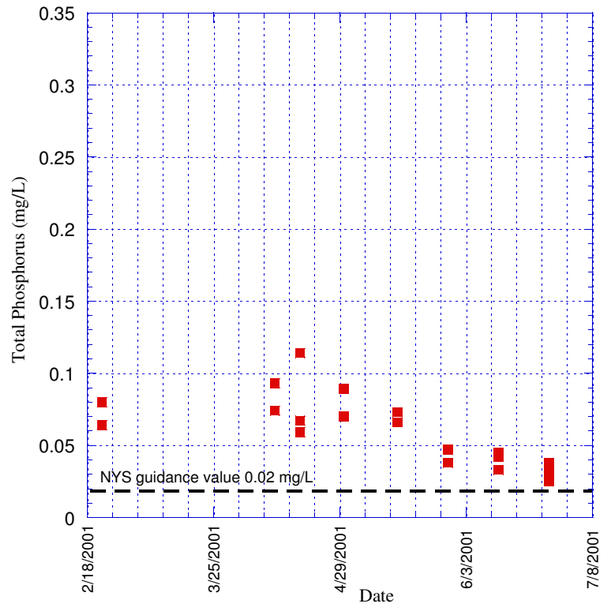


Figure 8-14

Concentrations of Total Phosphorus in the Epilimnion (above 9 m depth) of Onondaga Lake, 1997 - 2001

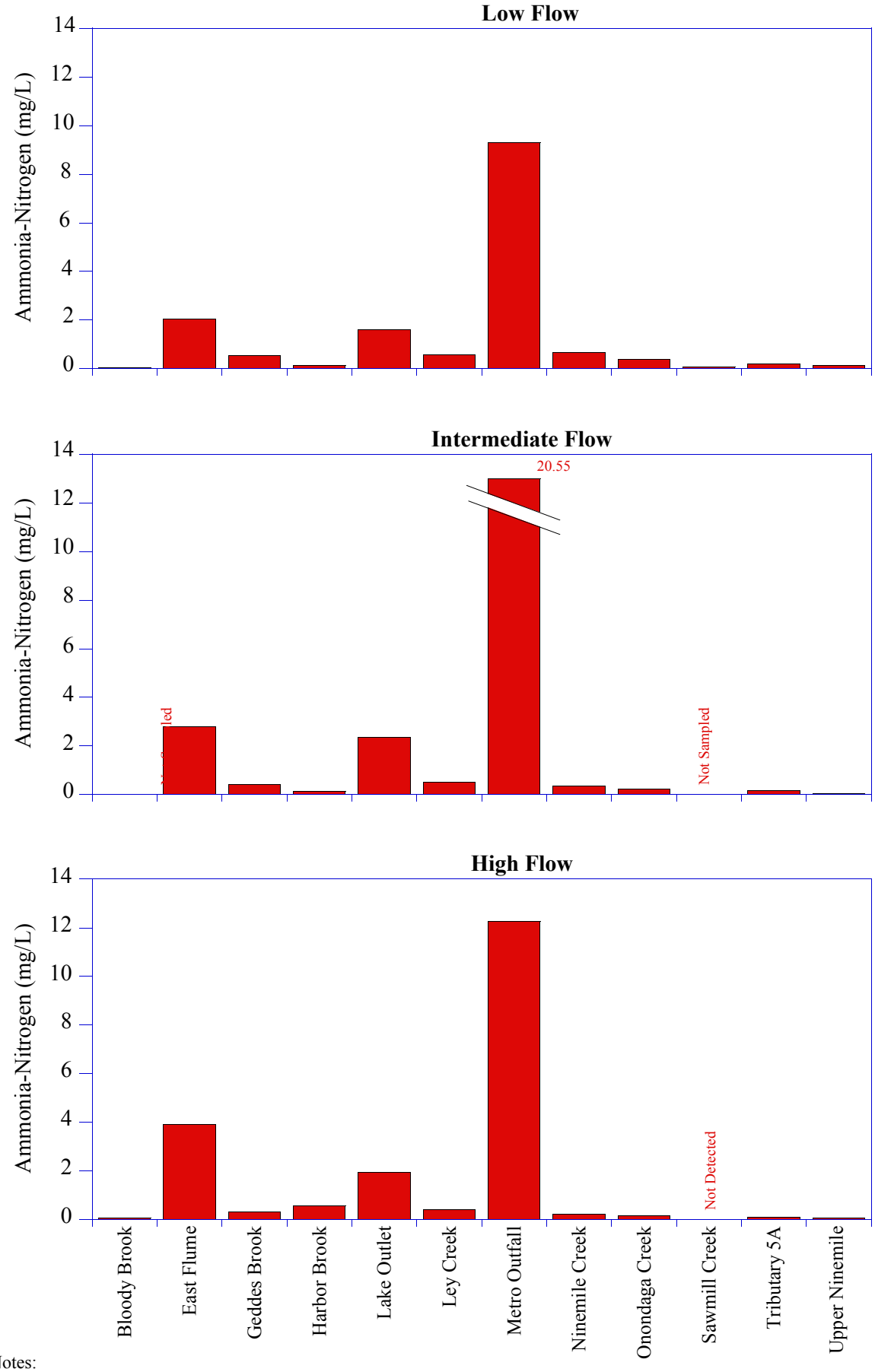






Note: Data shown can be from several sample depths. Where this occurs, the points are shown independently of each other on the plot.

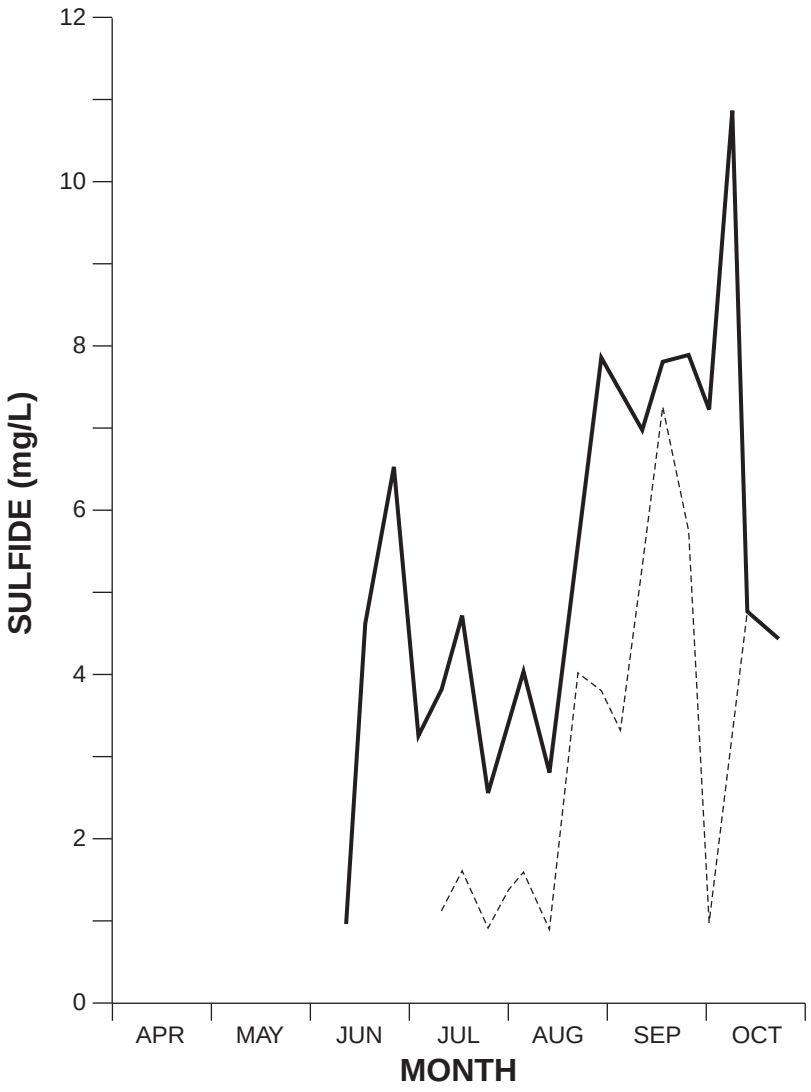
Source: Onondaga County Ambient Water Quality Monitoring Data



Notes:
1. Half the detection limits were used for non-detects.

TAMS

Figure 8-15
Mean Concentrations of Ammonia-Nitrogen
in Tributary Water and Metro Discharge During 1992



Source: Stearns & Wheler (1994)
Exponent, 2001b

Figure 8-16. Concentrations of sulfide in Onondaga Lake in 1992

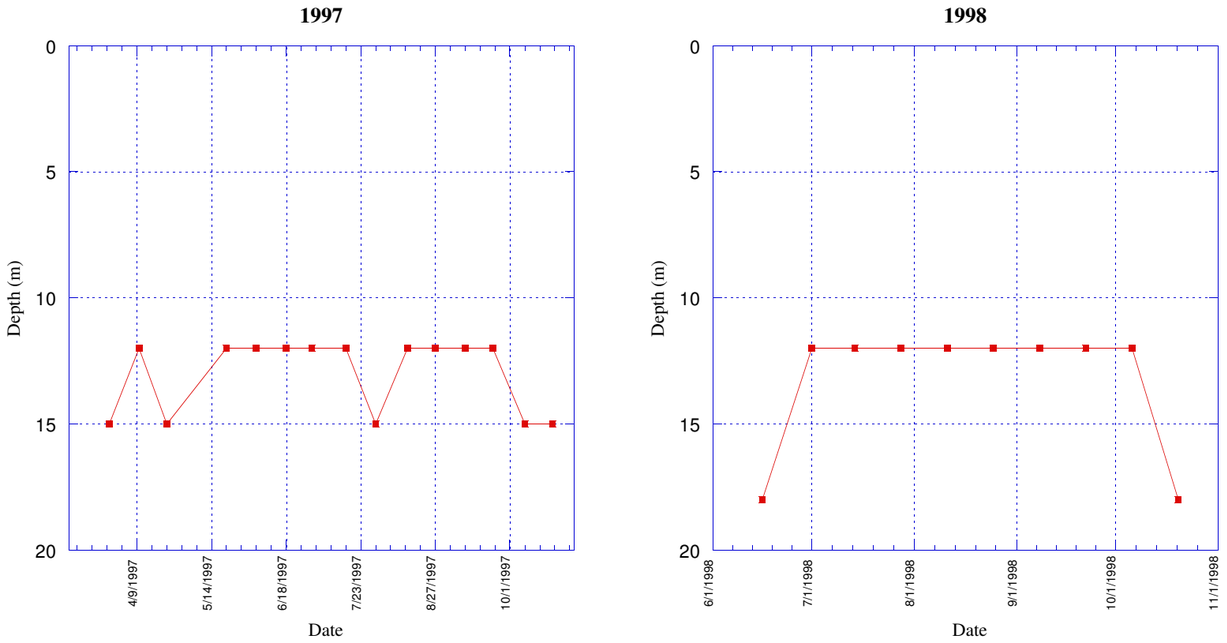
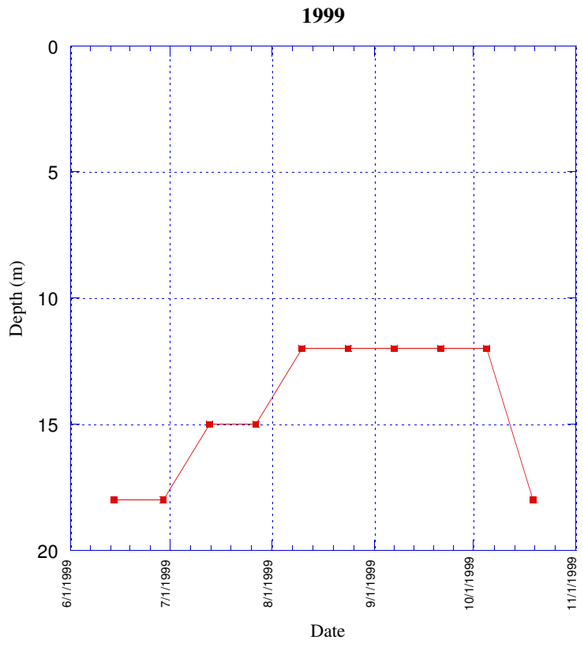
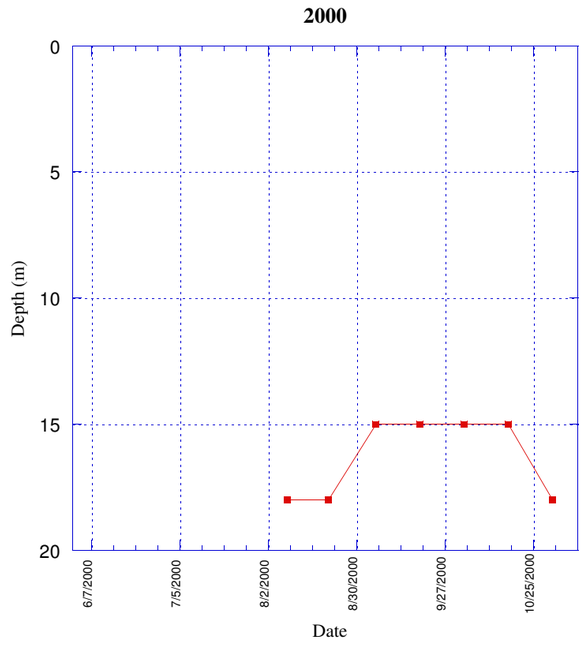
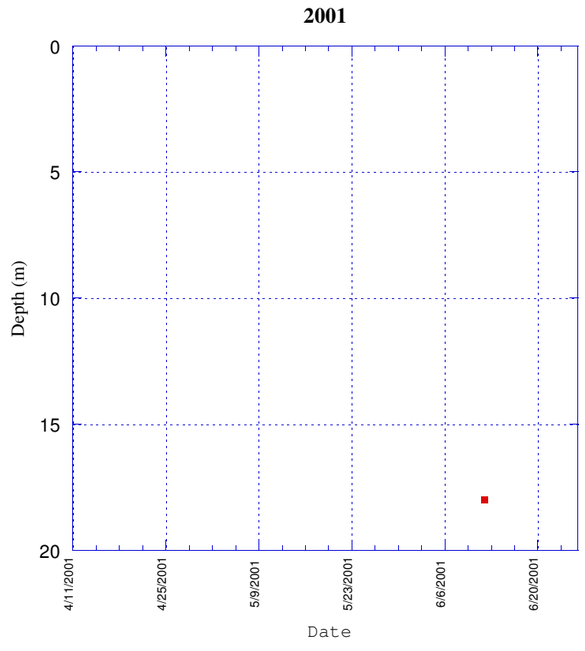


Figure 8-17

Hypolimnion Sulfide Concentrations in Onondaga Lake, 1997 - 2001

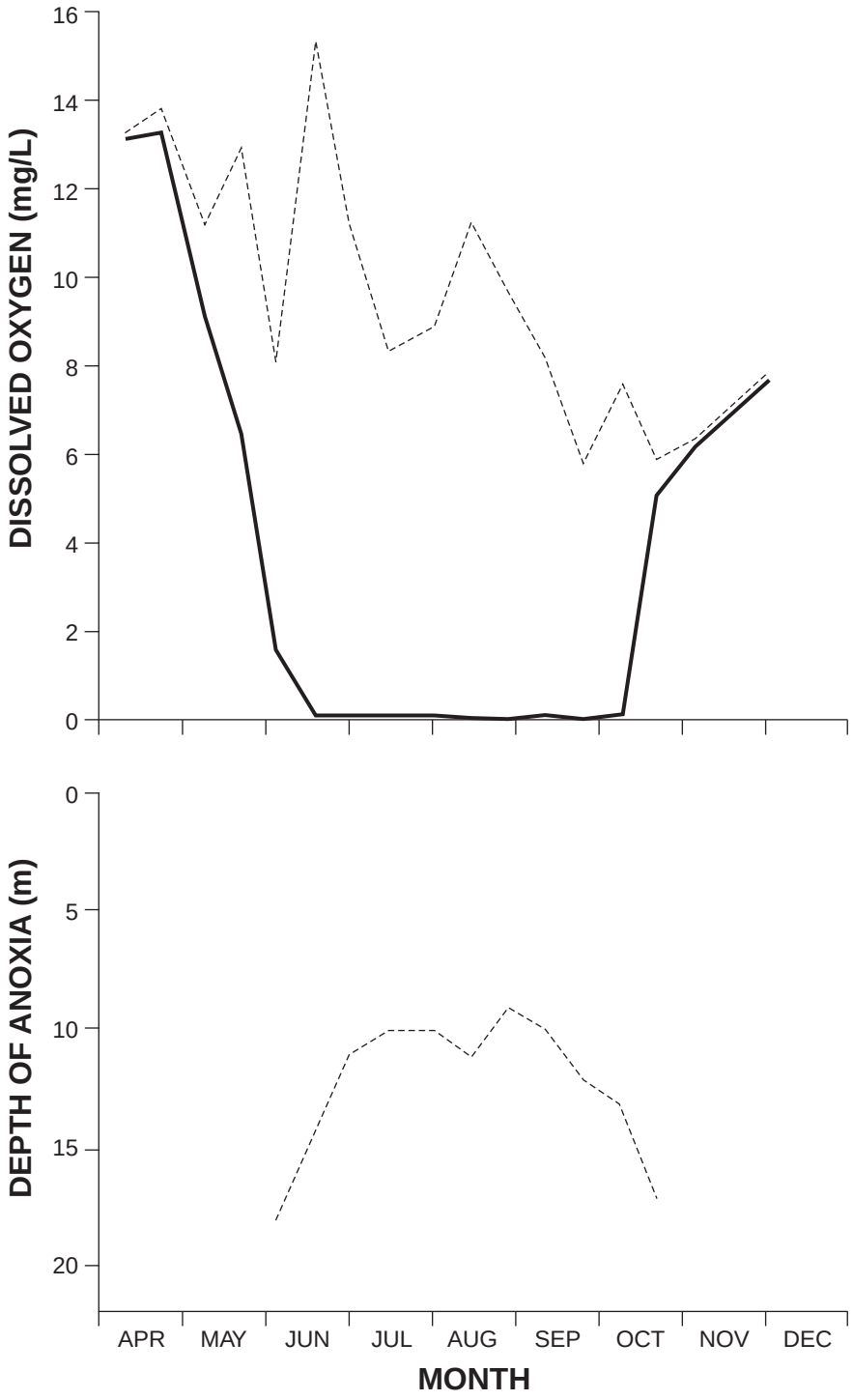






Note: Data shown are the uppermost depth at which the standard was exceeded.

Source: Onondaga County Ambient Water Quality Monitoring Data



LEGEND

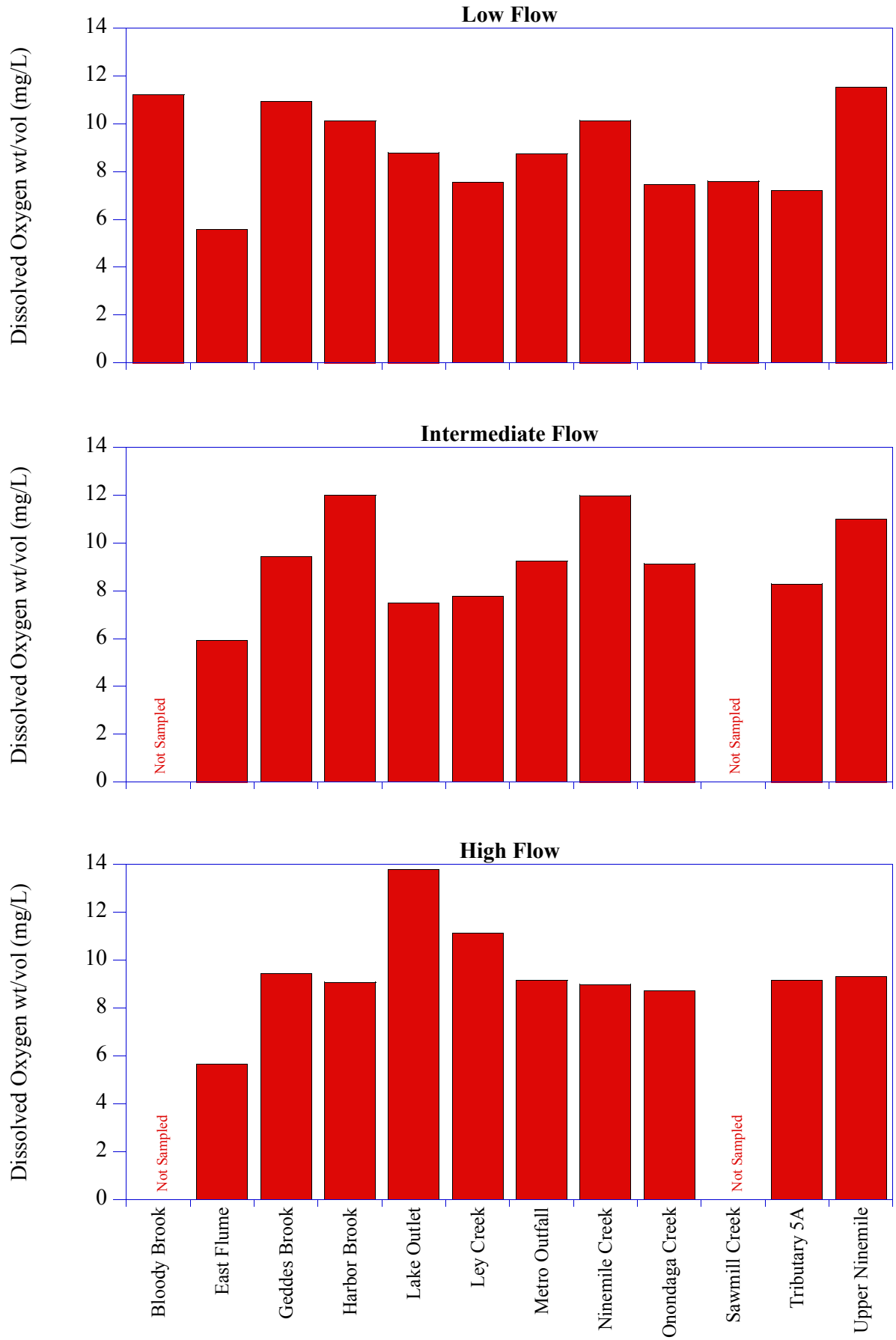
------- Epilimnion (3 m depth)

——— Hypolimnion (15 m depth)

Note: The depth of anoxia is defined as the depth at which the concentration of dissolved oxygen is <0.5 mg/L.

Source: Stearns & Wheler (1994)
Exponent, 2001b

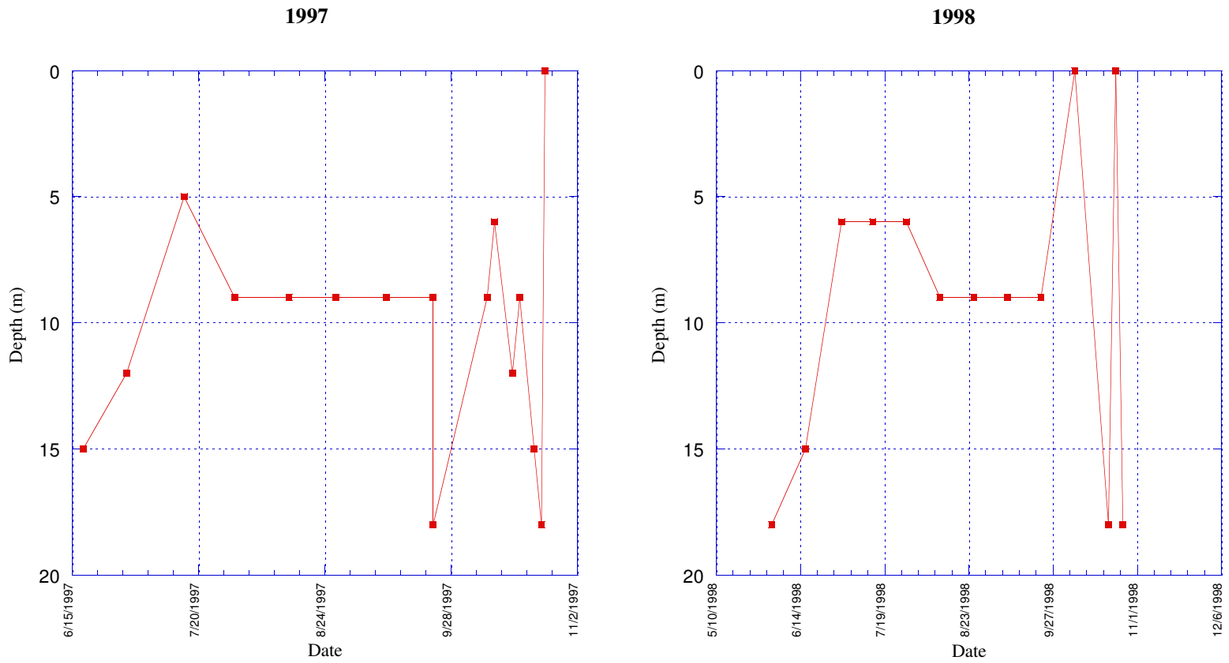
Figure 8-18. Concentrations of dissolved oxygen and depths of anoxia in Onondaga Lake in 1992



Notes:
1. Half the detection limits were used for non-detects.

TAMS

Figure 8-19
Mean Concentrations of Dissolved Oxygen
in Tributary Water and Metro Discharge During 1992



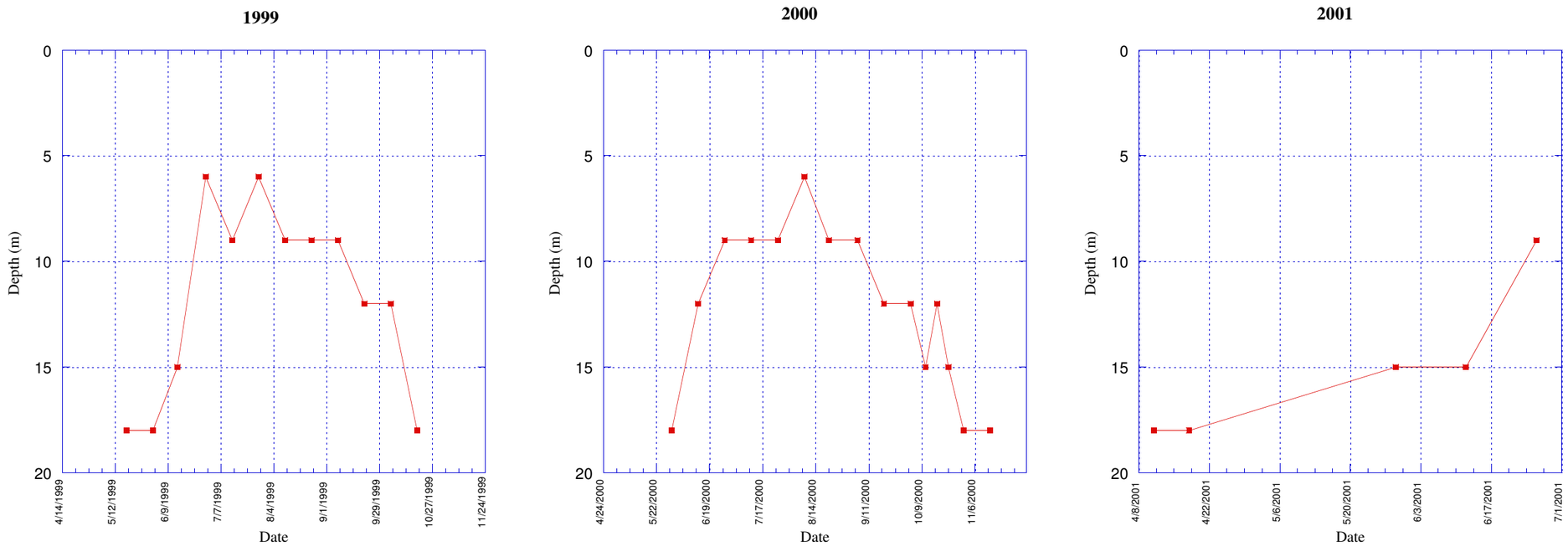
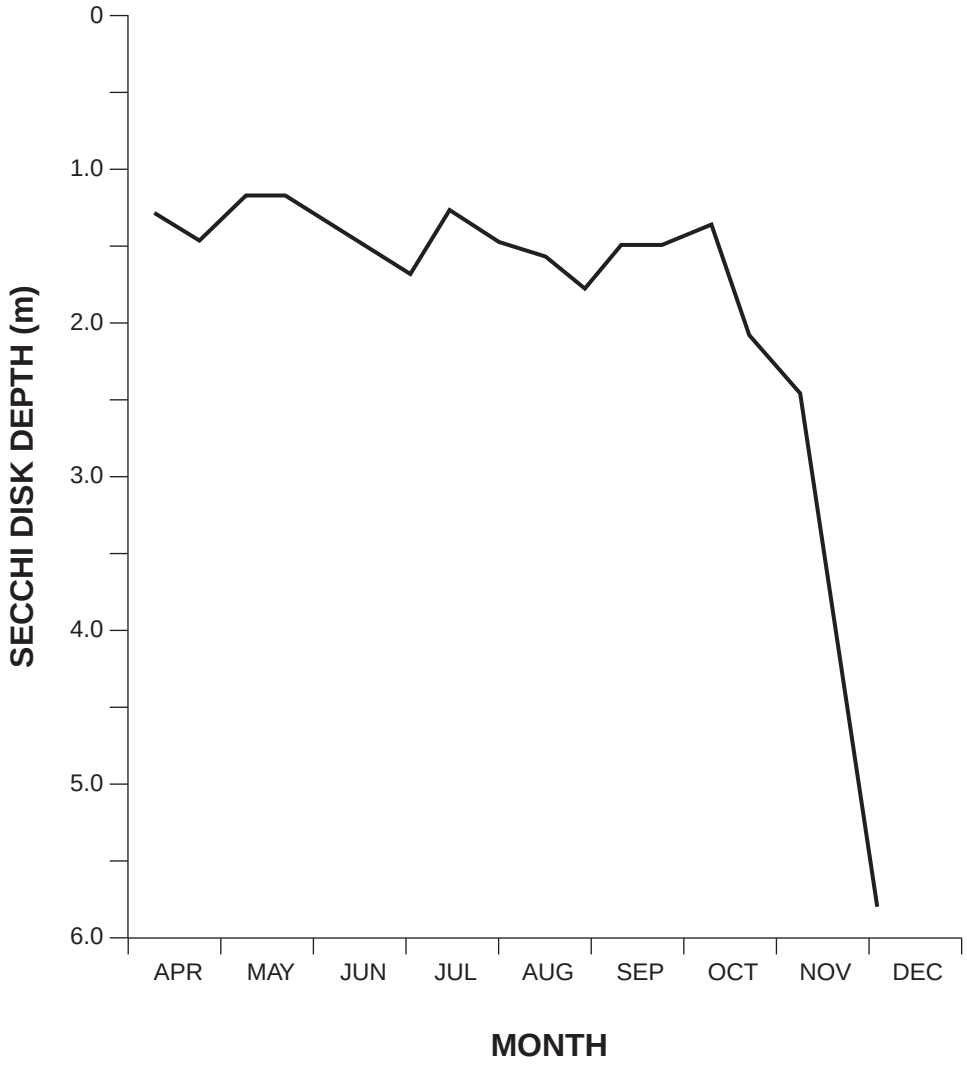


Figure 8-20

Dissolved Oxygen Concentrations in Onondaga Lake, 1997 - 2001

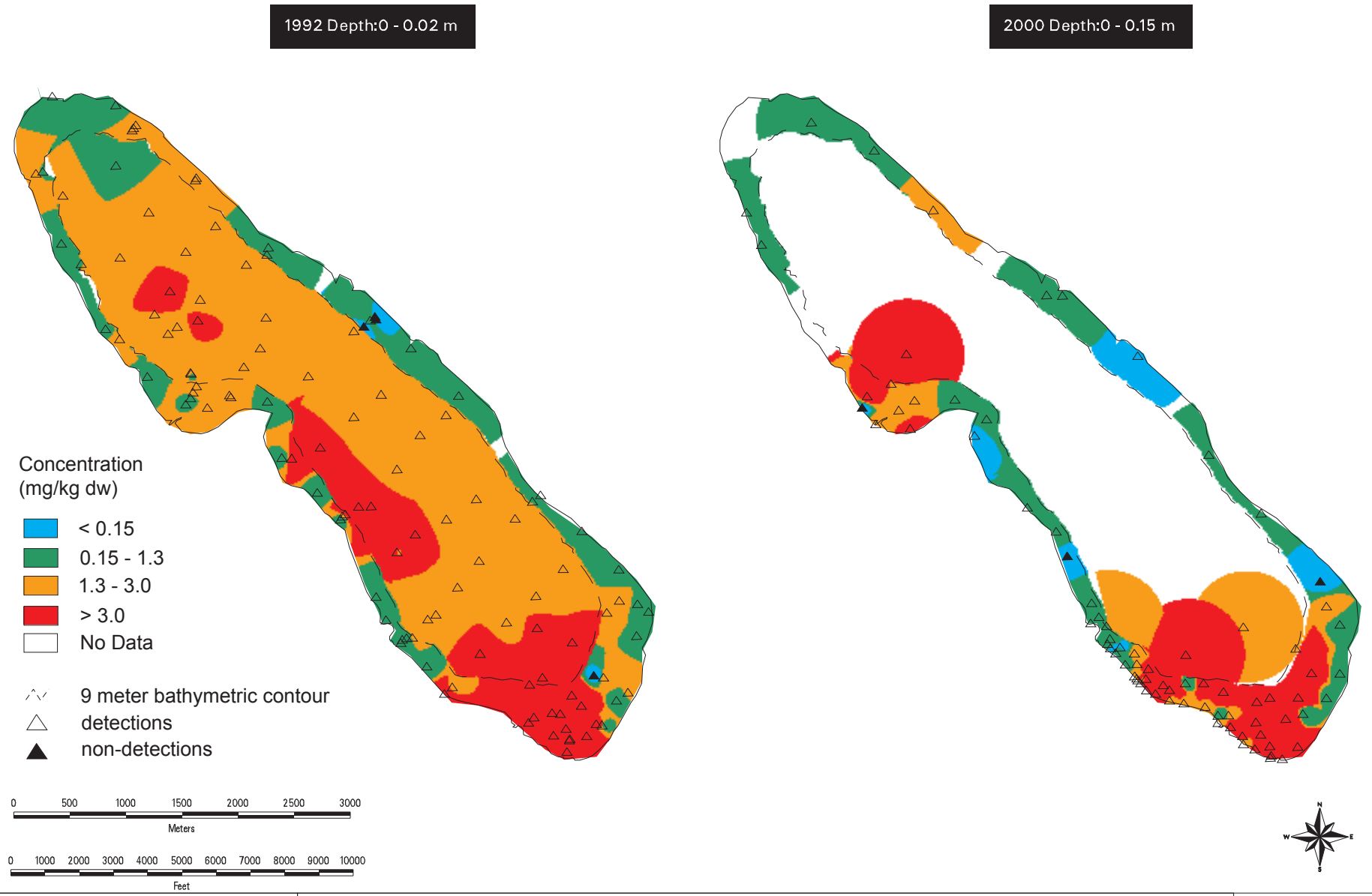
Note: Data shown are from uppermost depth at which the standard was exceeded.

Source: Onondaga County Ambient Water Quality Monitoring Data



Source: Stearns & Wheler (1994)
Exponent, 2001b

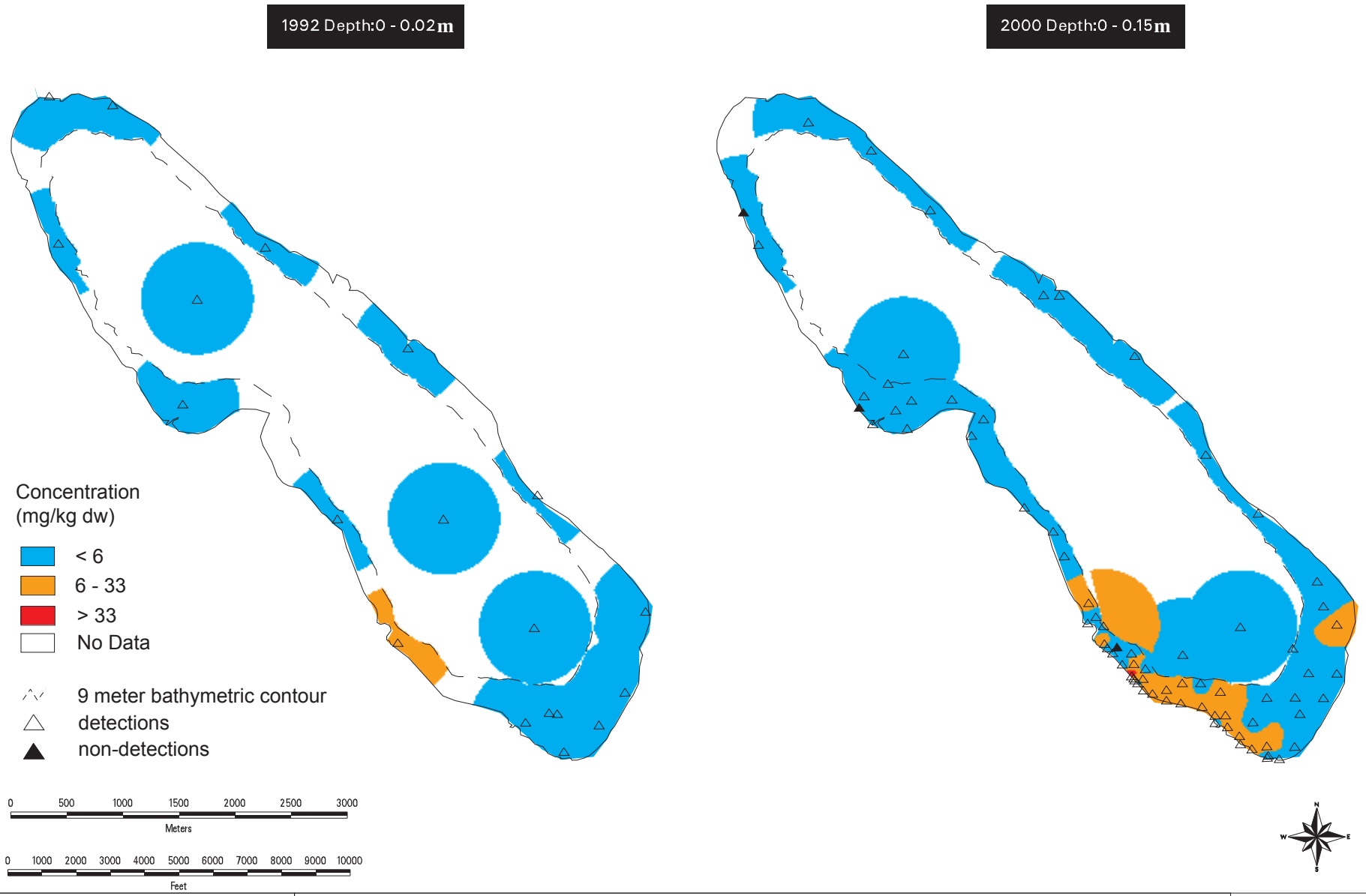
Figure 8-21. Secchi disk depths in Onondaga Lake in 1992



Onondaga Lake BERA

Figure 8-22. Distribution of Mercury in Surface Sediment of Onondaga Lake in 1992 and 2000

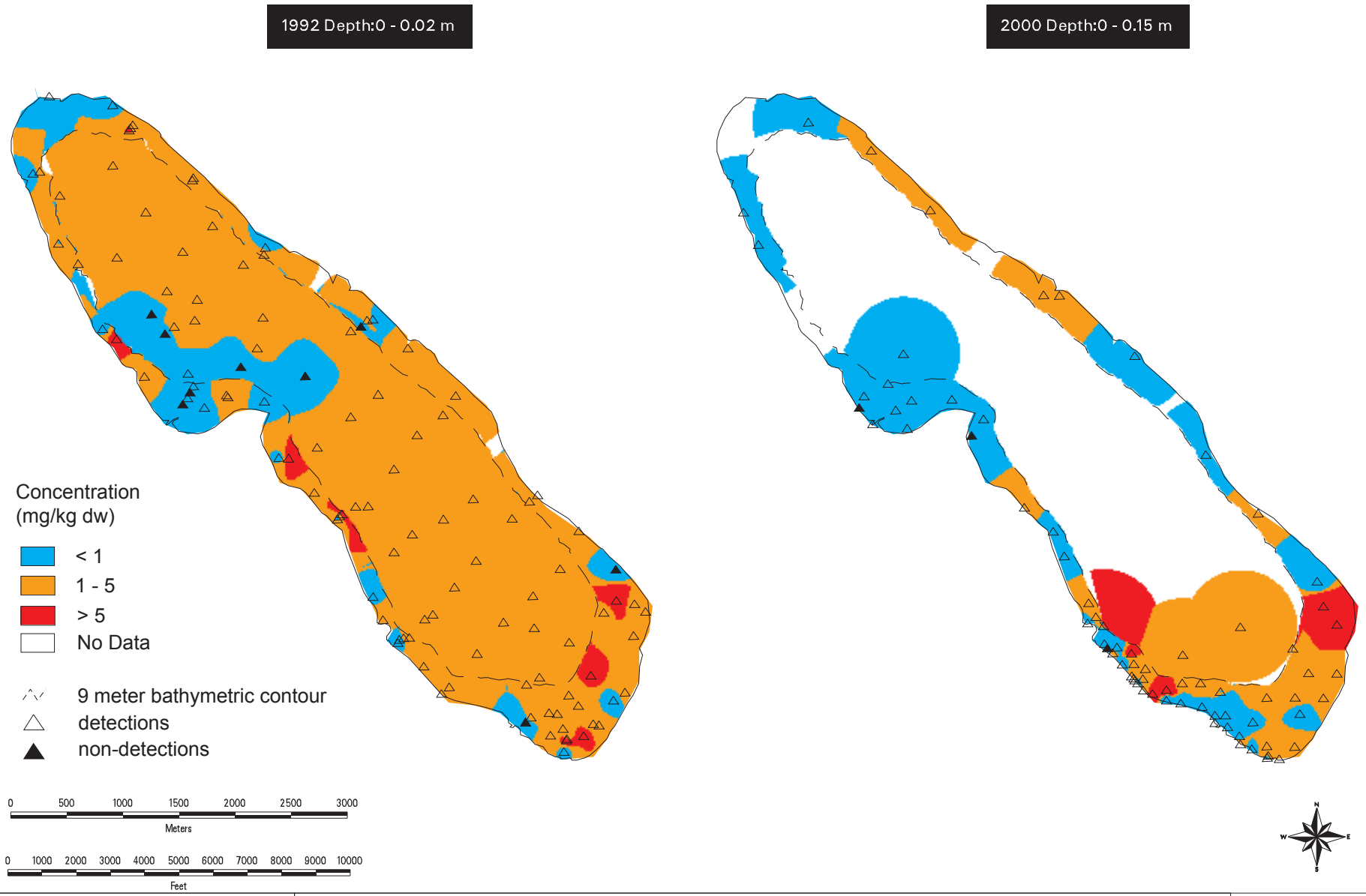
TAMS



Onondaga Lake BERA

Figure 8-23. Distribution of Arsenic in Surface Sediment of Onondaga Lake in 1992 and 2000

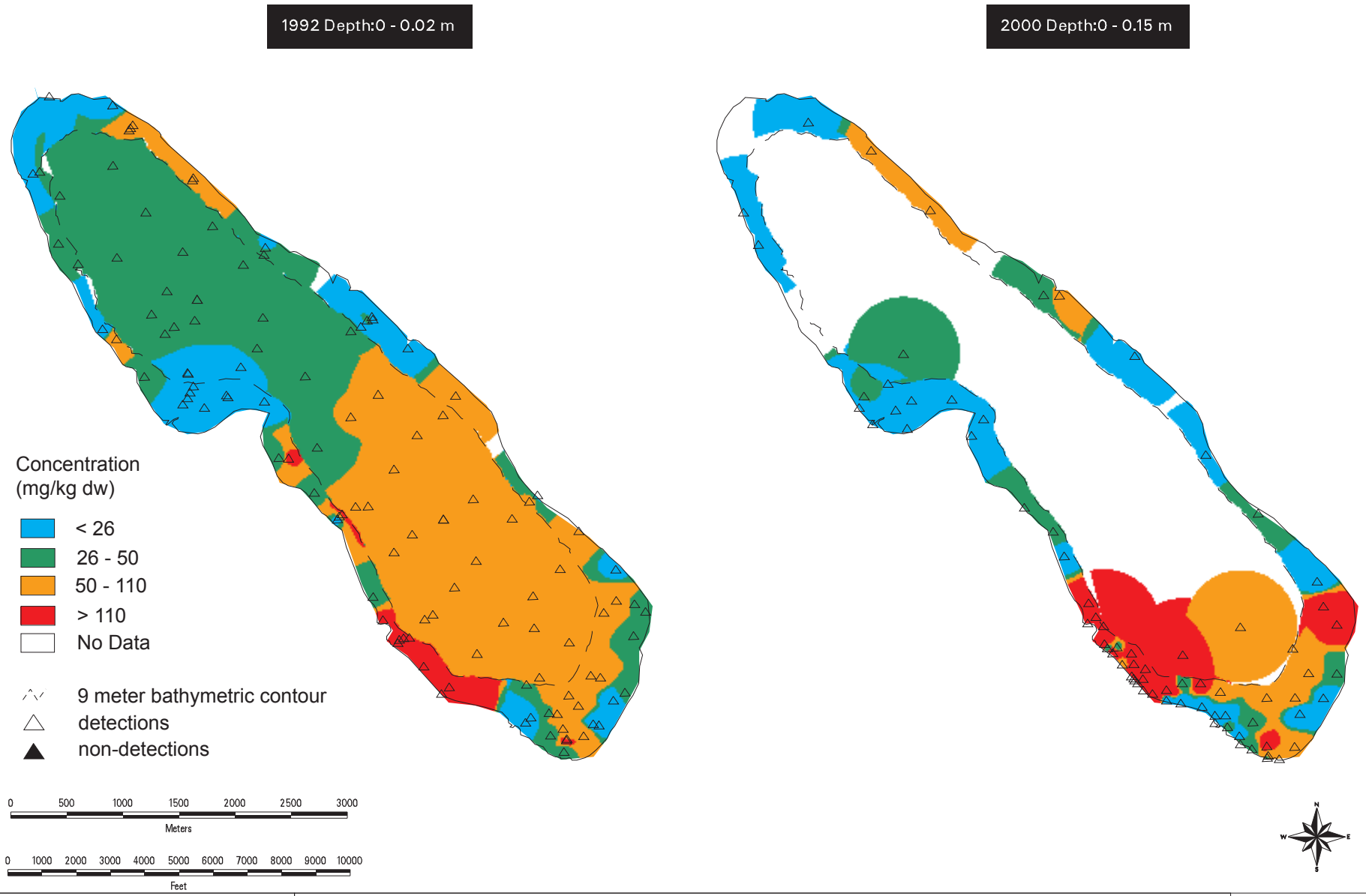
TAMS



Onondaga Lake BERA

Figure 8-24. Distribution of Cadmium in Surface Sediment of Onondaga Lake in 1992 and 2000

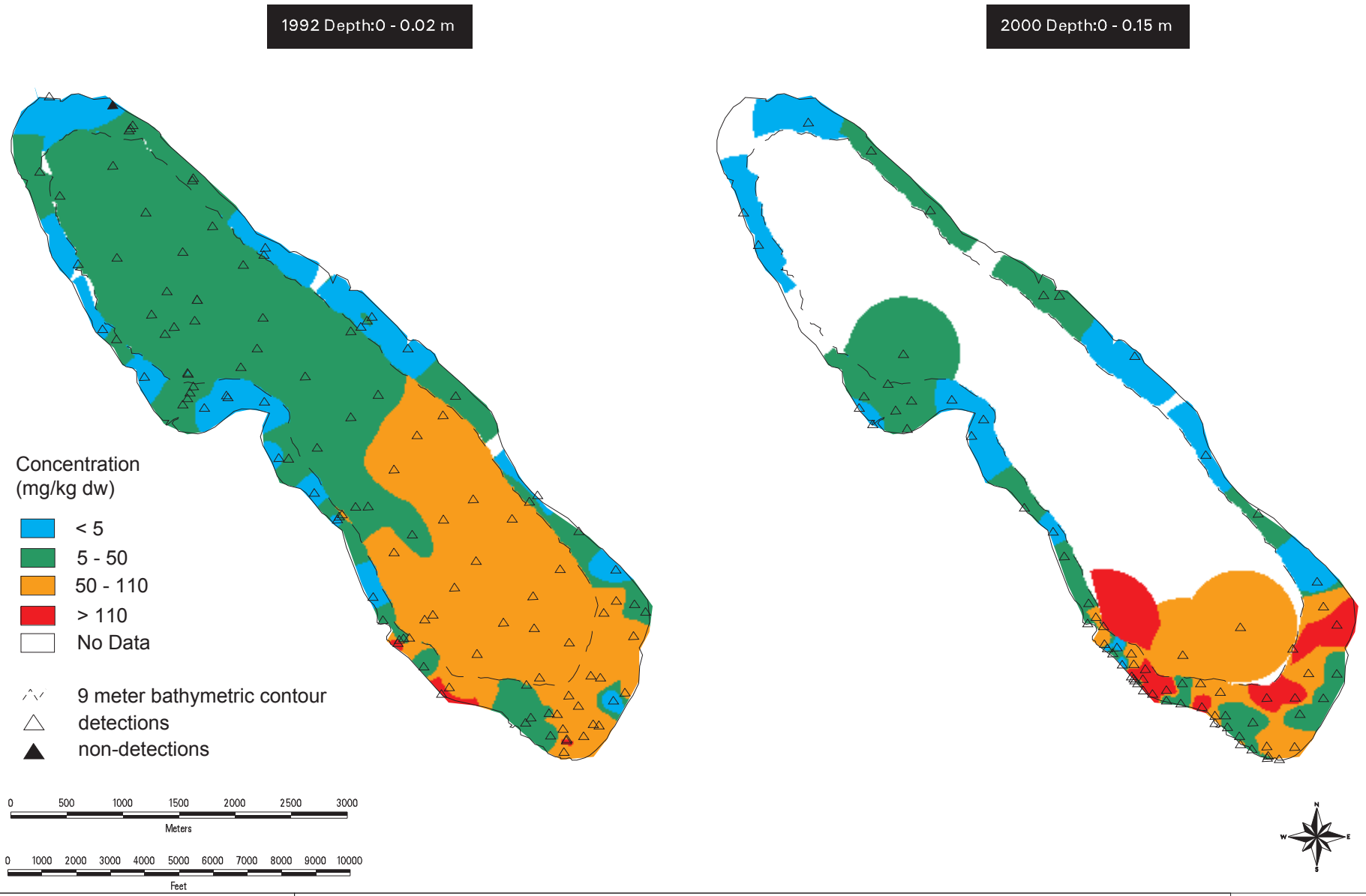
TAMS



Onondaga Lake BERA

Figure 8-25. Distribution of Chromium in Surface Sediment of Onondaga Lake in 1992 and 2000

TAMS



Onondaga Lake BERA

Figure 8-26. Distribution of Copper in Surface Sediment of Onondaga Lake in 1992 and 2000

TAMS

Onondaga Lake BERA

Figure 8-27. Distribution of Lead in Surface Sediments of Onondaga Lake in 1992 and 2000

TAMS

Onondaga Lake BERA

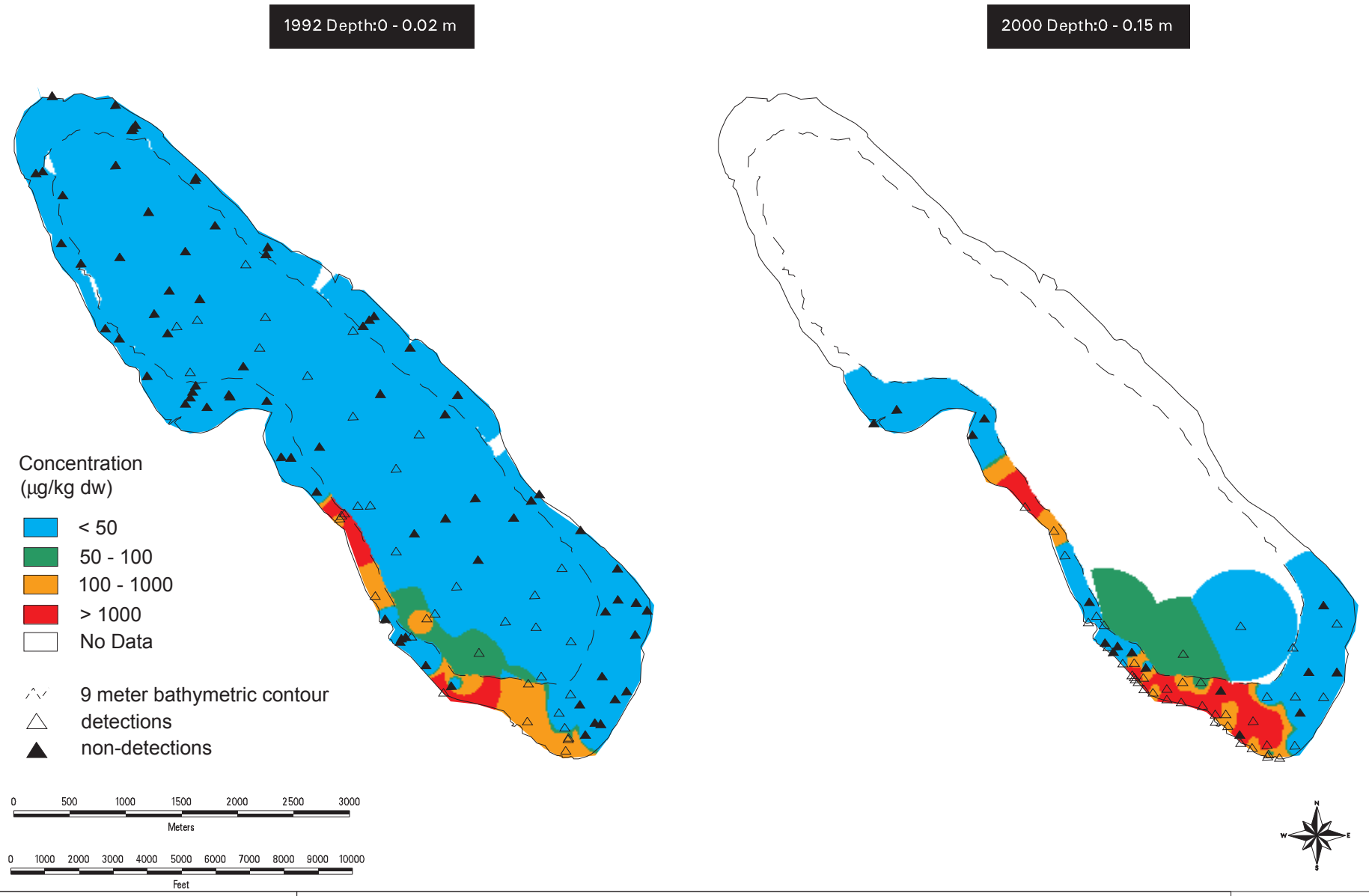
Figure 8-28. Distribution of Nickel in Surface Sediment of Onondaga Lake in 1992 and 2000

TAMS

Onondaga Lake BERA

Figure 8-29. Distribution of Zinc in Surface Sediment of Onondaga Lake in 1992 and 2000

TAMS



Onondaga Lake BERA

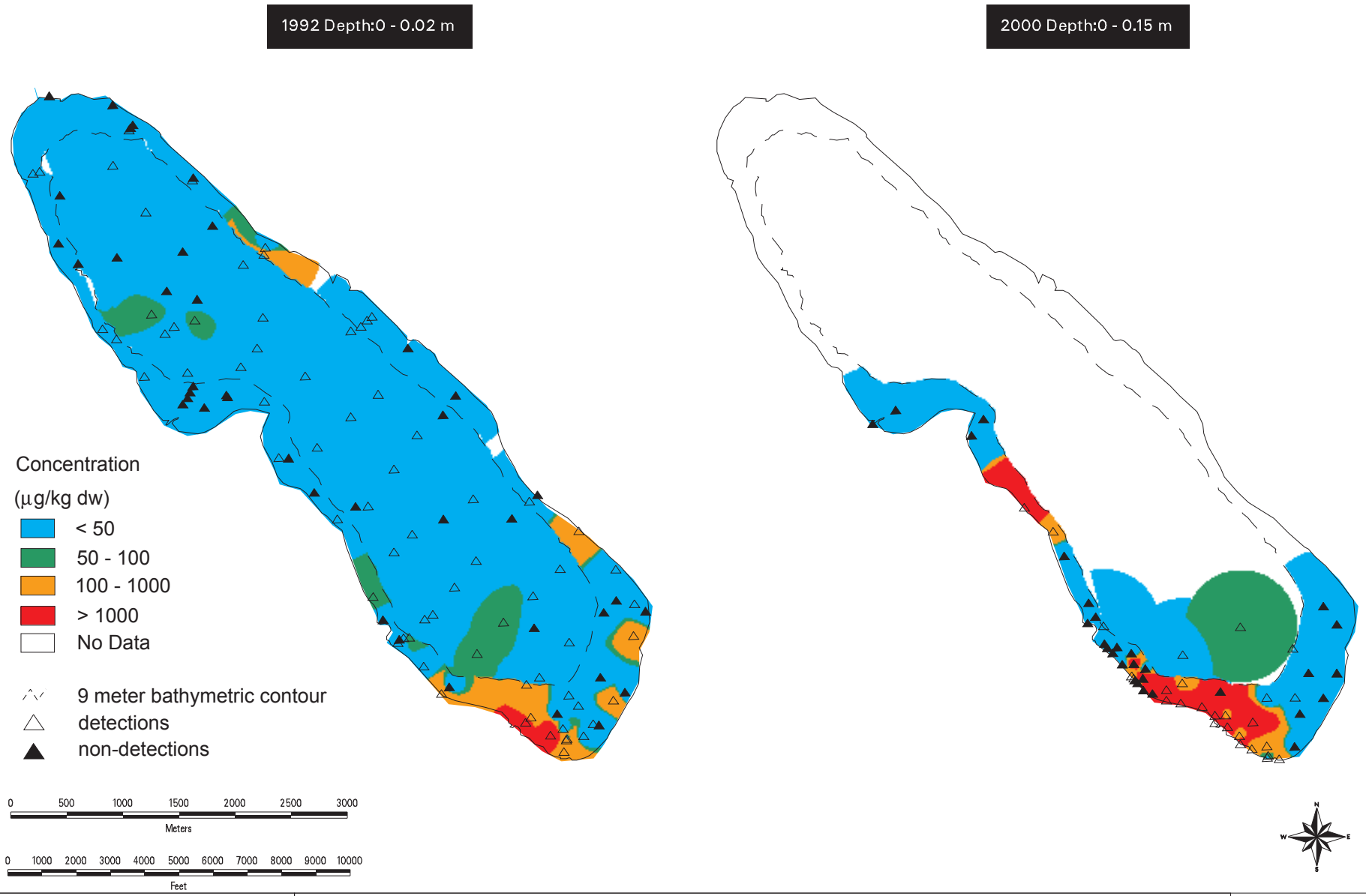
Figure 8-30. Distribution of Benzene in Surface Sediment of Onondaga Lake in 1992 and 2000

TAMS

Onondaga Lake BERA

Figure 8-31. Distribution of Ethylbenzene in Surface Sediment of Onondaga Lake in 1992 and 2000

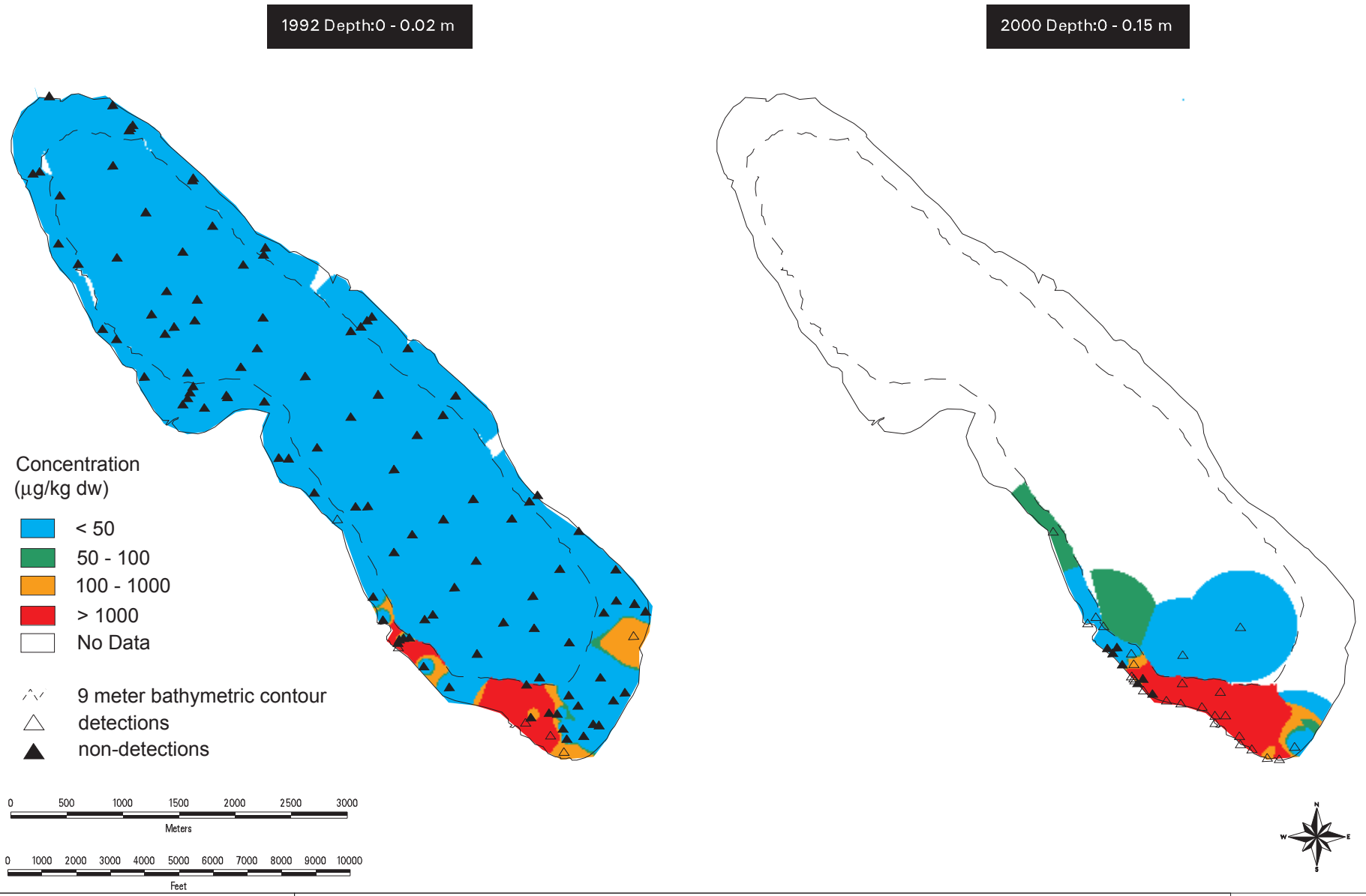
TAMS



Onondaga Lake BERA

Figure 8-32. Distribution of Toluene in Surface Sediment of Onondaga Lake in 1992 and 2000

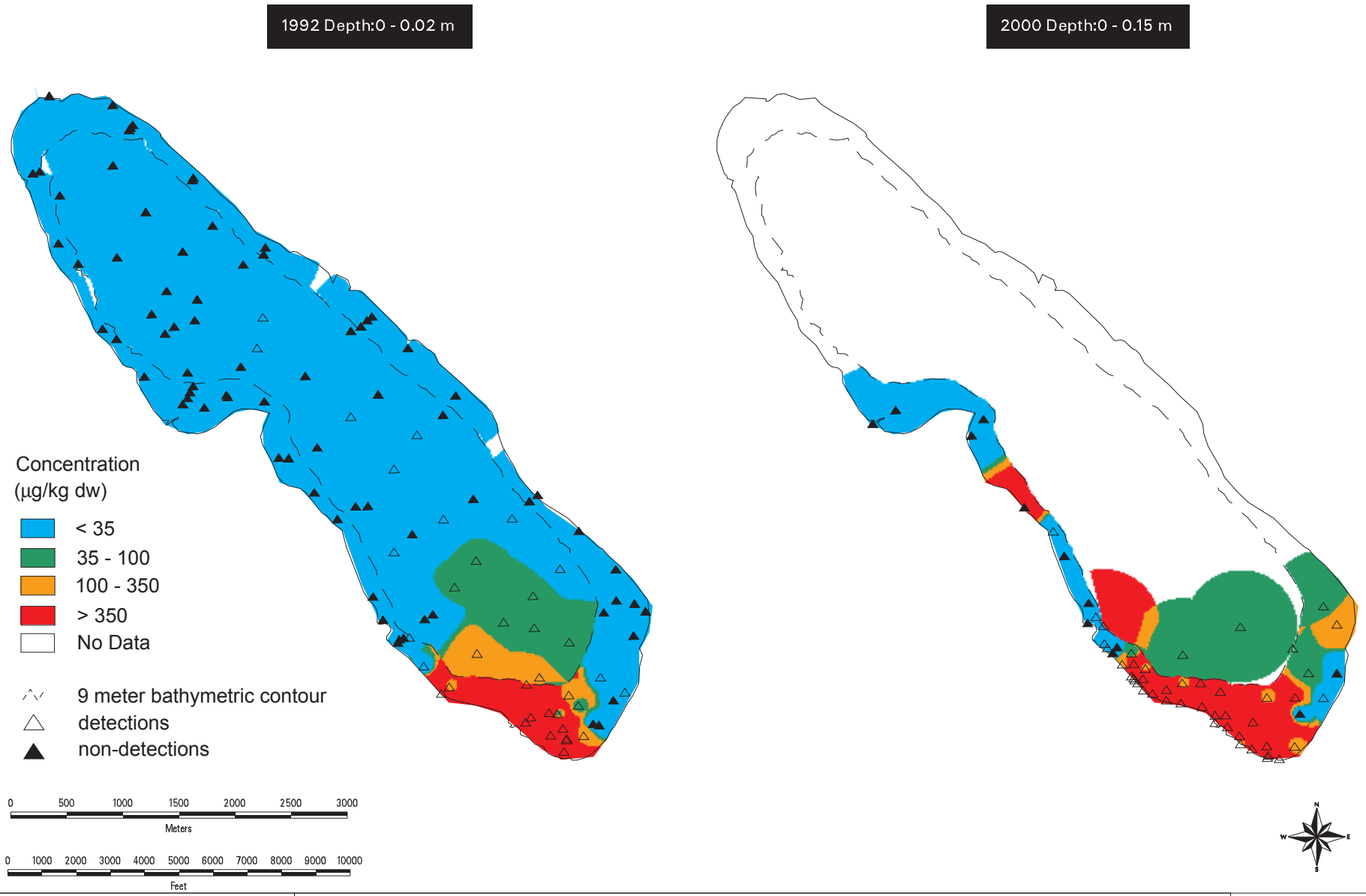
TAMS



Onondaga Lake BERA

Figure 8-33. Distribution of Xylene in Surface Sediment of Onondaga Lake in 1992 and 2000

TAMS



Onondaga Lake BERA

Figure 8-34. Distribution of Chlorobenzene in Surface Sediment of Onondaga Lake in 1992 and 2000

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Onondaga Lake BERA

Figure 8-35. Distribution of Dichlorobenzenes in Surface Sediment of Onondaga Lake in 1992 and 2000

TAMS

Onondaga Lake BERA

Figure 8-36. Distribution of Trichlorobenzenes in Surface Sediment of Onondaga Lake in 1992 and 2000

TAMS

Onondaga Lake BERA	Figure 8-37. Distribution of Hexachlorobenzene in Surface Sediment of Onondaga Lake in 1992 and 2000	TAMS

Onondaga Lake BERA

Figure 8-38. Distribution of Total PCBs in Surface Sediment of Onondaga Lake in 1992 and 2000

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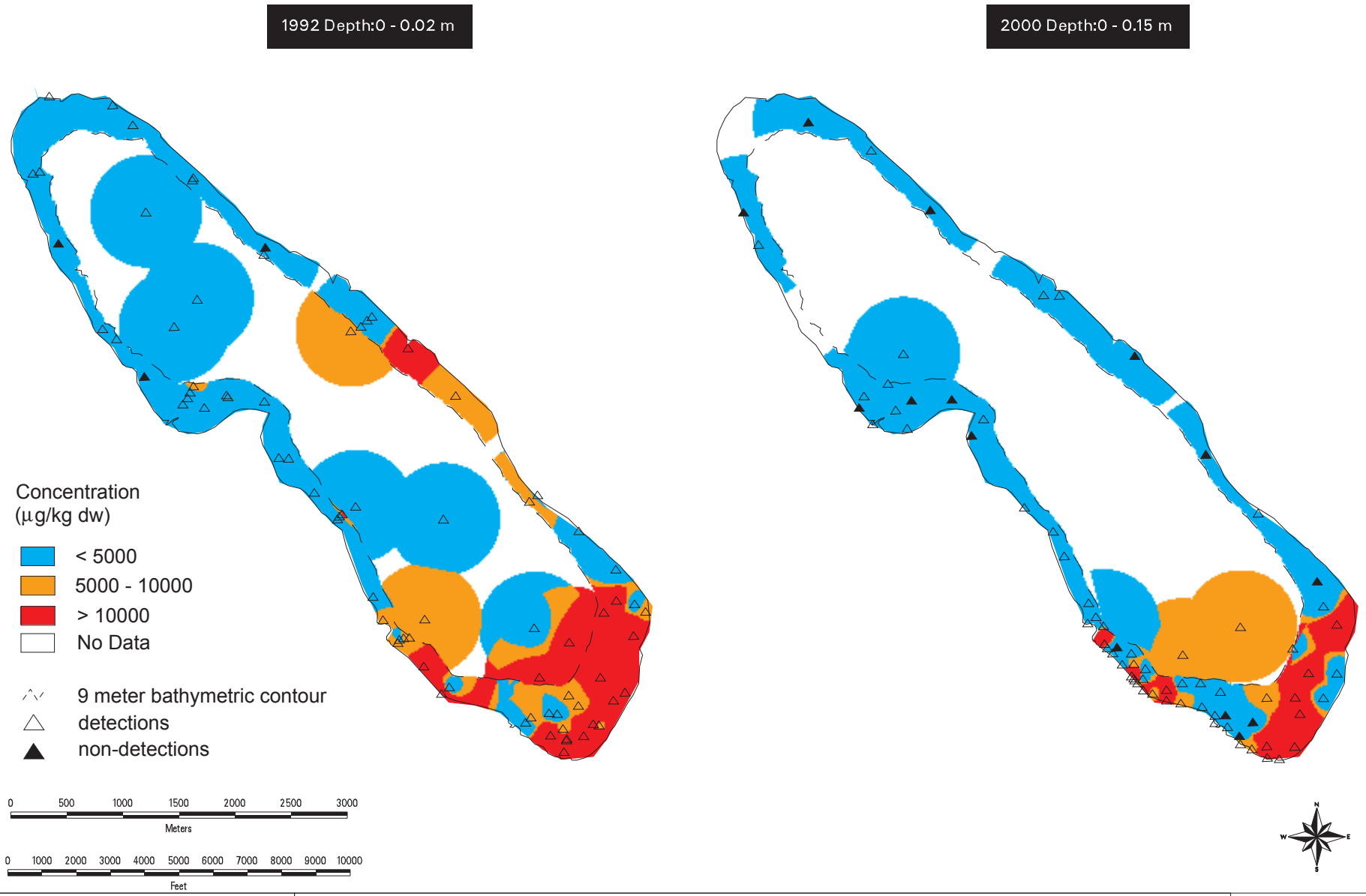
Onondaga Lake BERA

Figure 8-39. Distribution of LPAHs in Surface Sediment of Onondaga Lake in 1992 and 2000

TAMS



Onondaga Lake BERA

Figure 8-40. Distribution of HPAHs in Surface Sediment of Onondaga Lake in 1992 and 2000

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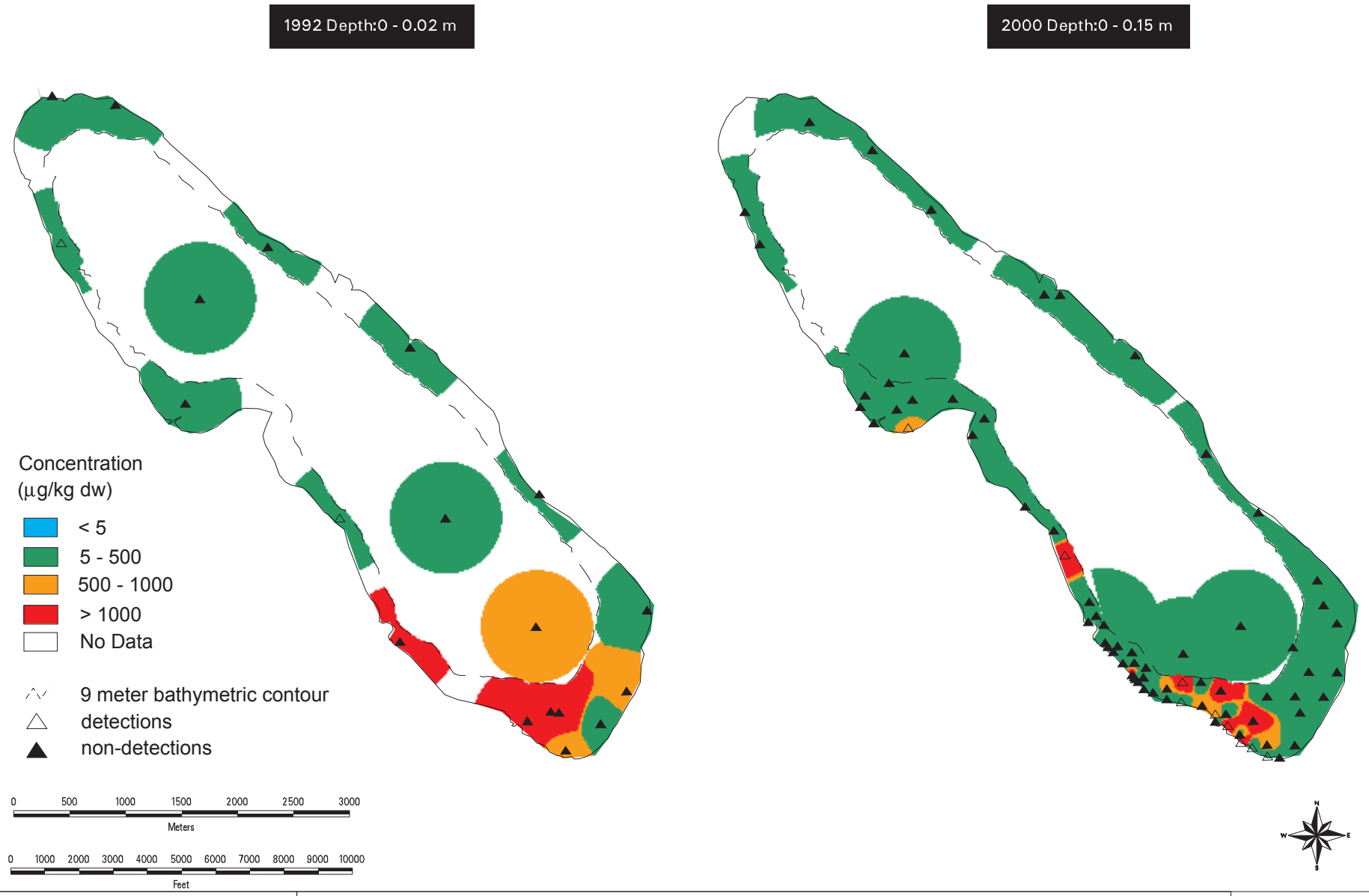
Figure 8-41. Distribution of Avian TEQ in Surface Sediment of Onondaga Lake in 2000

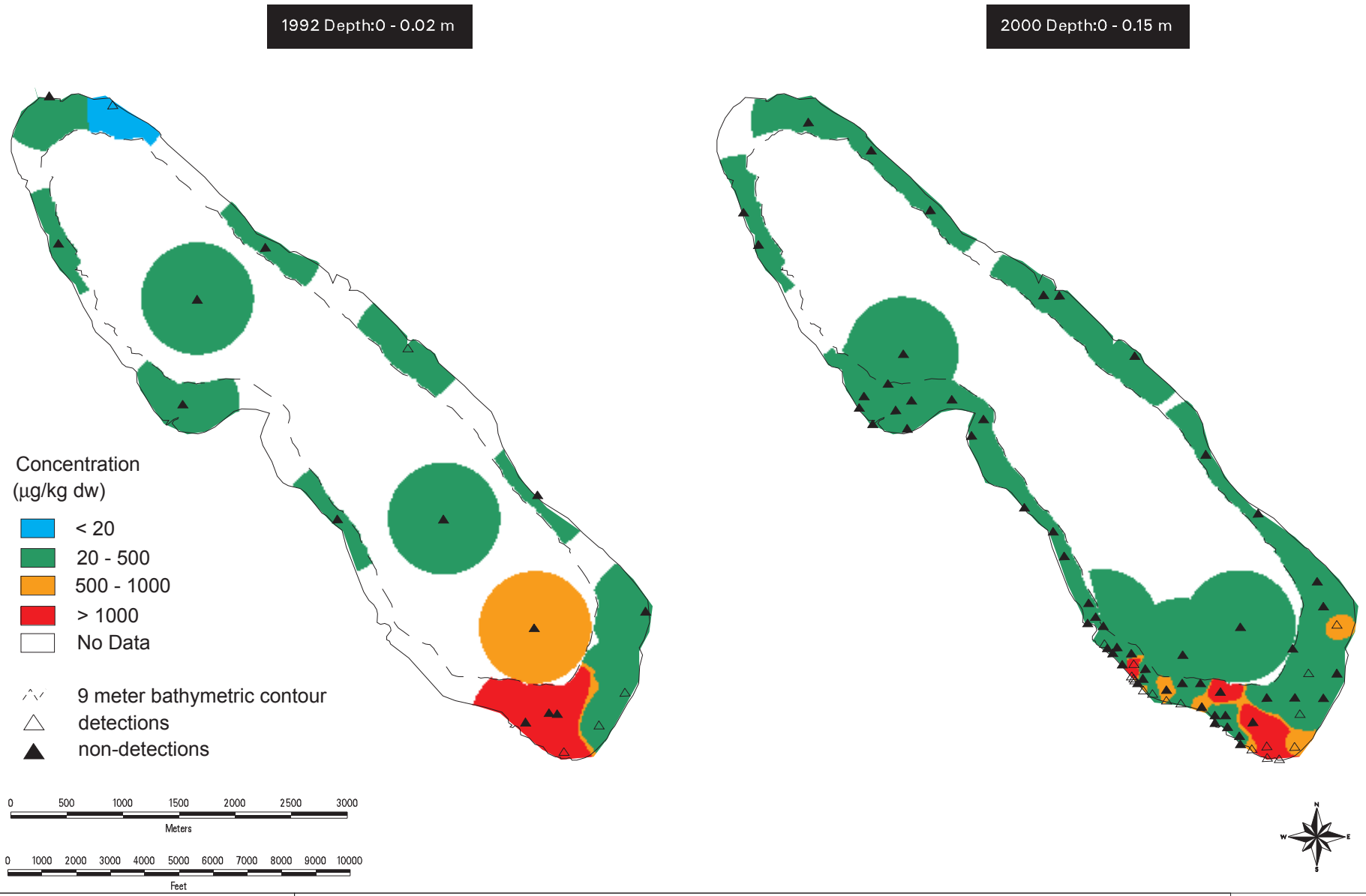
TAMS



Onondaga Lake BERA

Figure 8-42. Distribution of Phenol in Surface Sediment of Onondaga Lake in 1992 and 2000

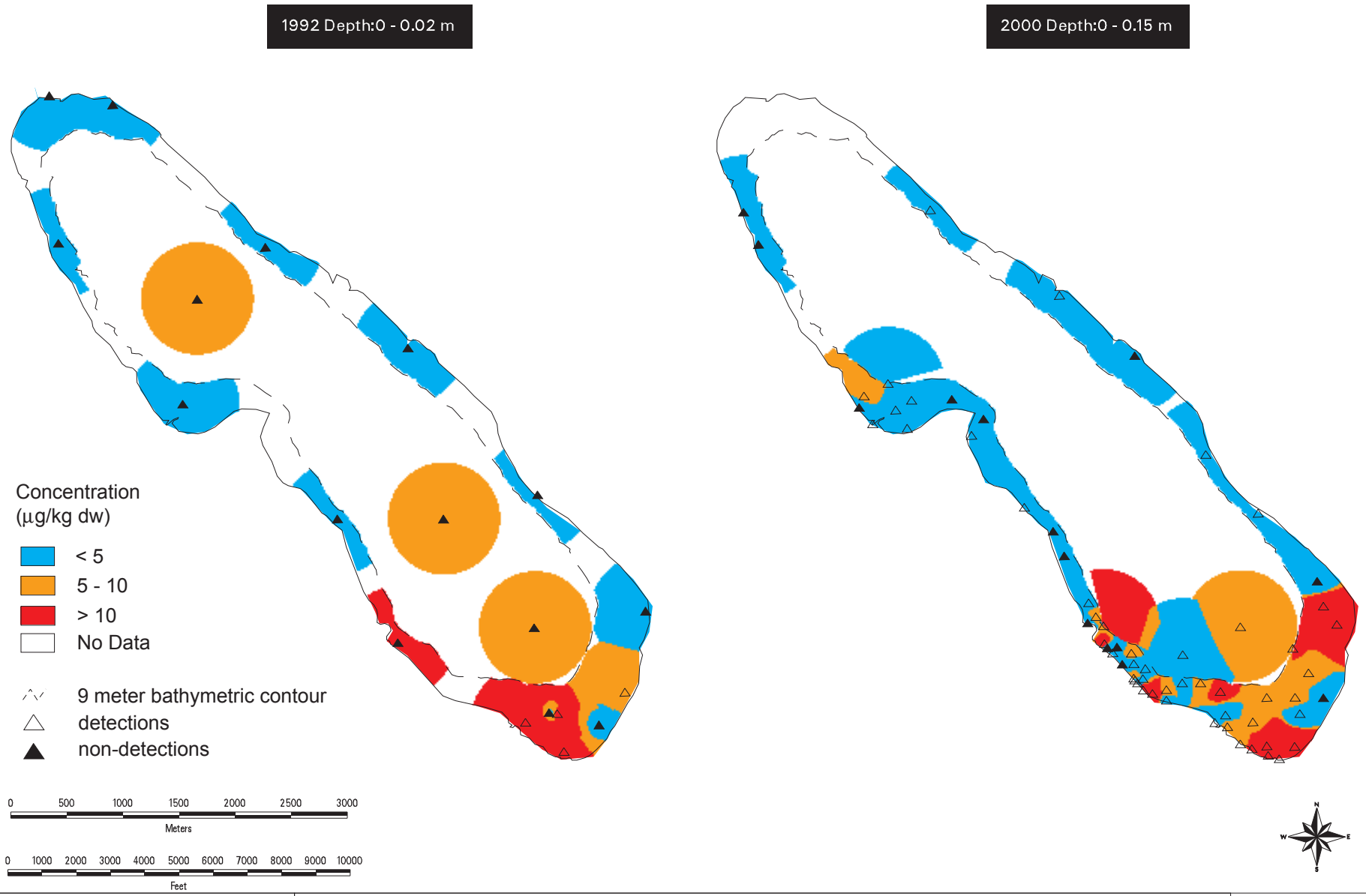
TAMS



Onondaga Lake BERA

Figure 8-43. Distribution of Dibenzofuran in Surface Sediment of Onondaga Lake in 1992 and 2000

TAMS



Onondaga Lake BERA

Figure 8-44. Distribution of DDT in Surface Sediment of Onondaga Lake in 1992 and 2000

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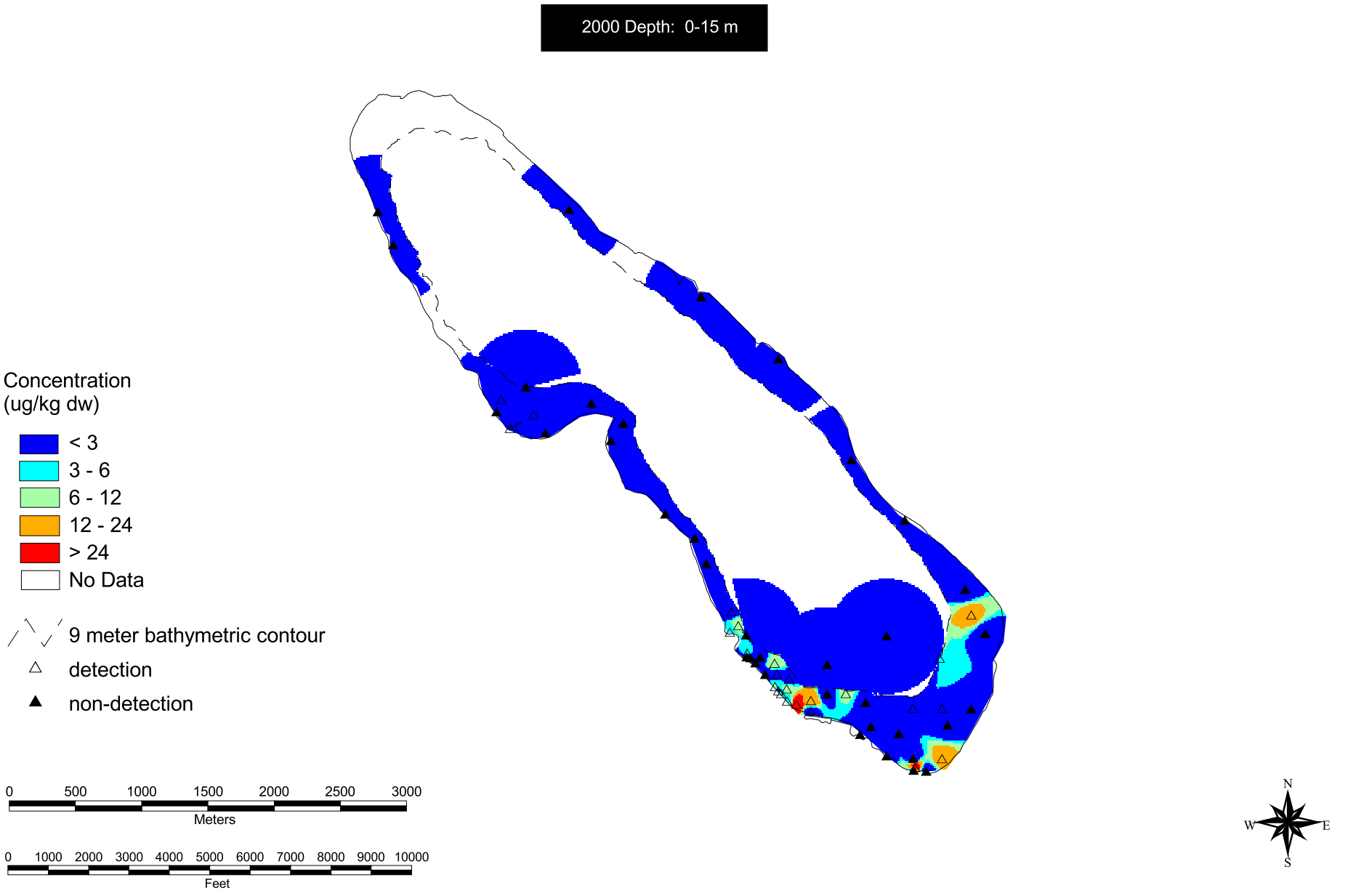
Onondaga Lake BERA

Figure 8-45. Distribution of Chlordane in Surface Sediment of Onondaga Lake in 1992 and 2000

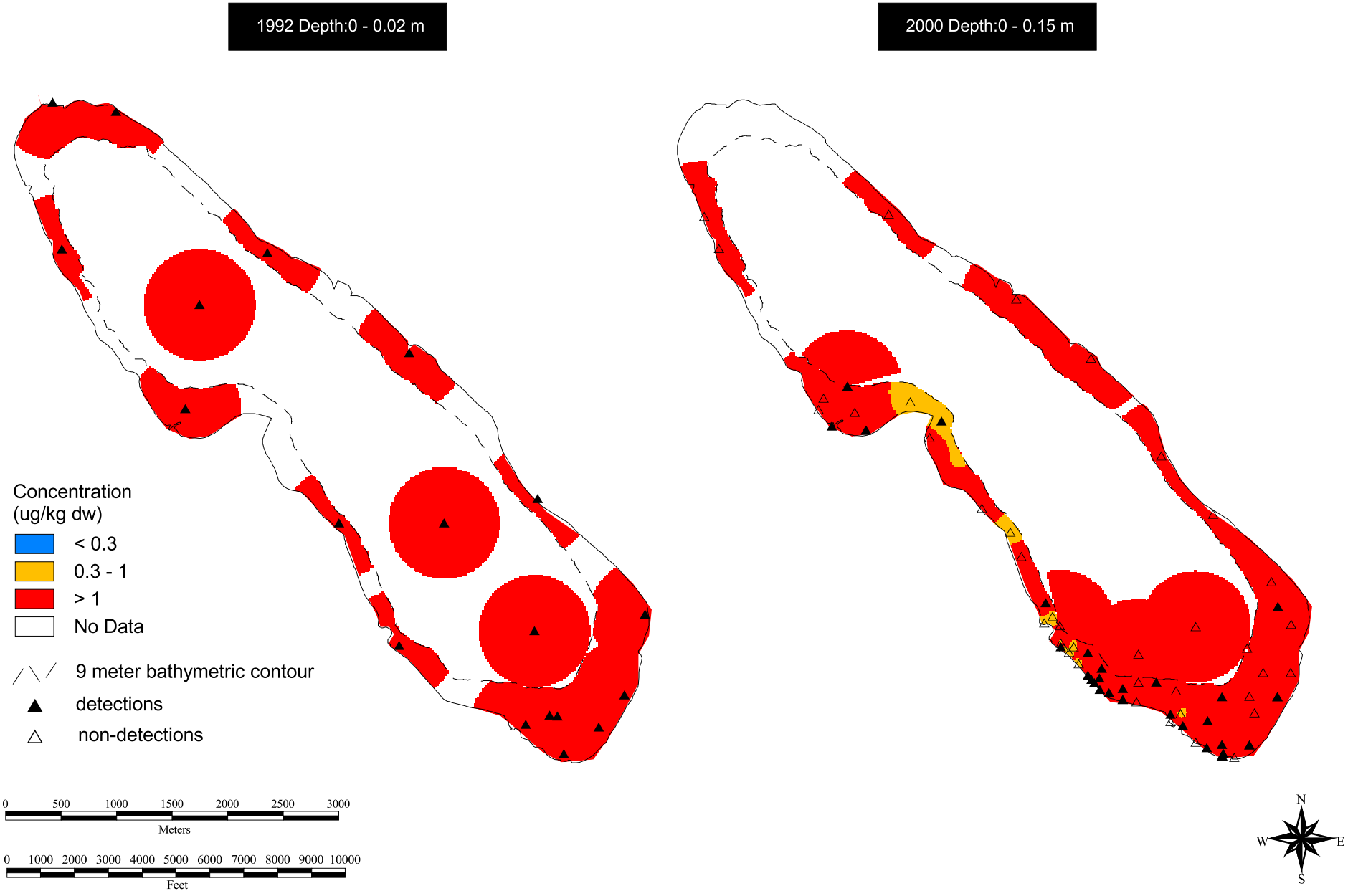
TAMS



Onondaga Lake BERA

Figure 8-46. Distribution of Dieldrin in Surface Sediments of Onondaga Lake in 2000

TAMS



Onondaga Lake BERA

Figure 8-47. Distribution of Heptachlor/Heptachlor Epoxide in Surface Sediment of Onondaga Lake in 1992 and 2000

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Figure 8-48. Distribution of Calcium Carbonate in Surface Sediment of Onondaga Lake in 1992 and 2000

TAMS

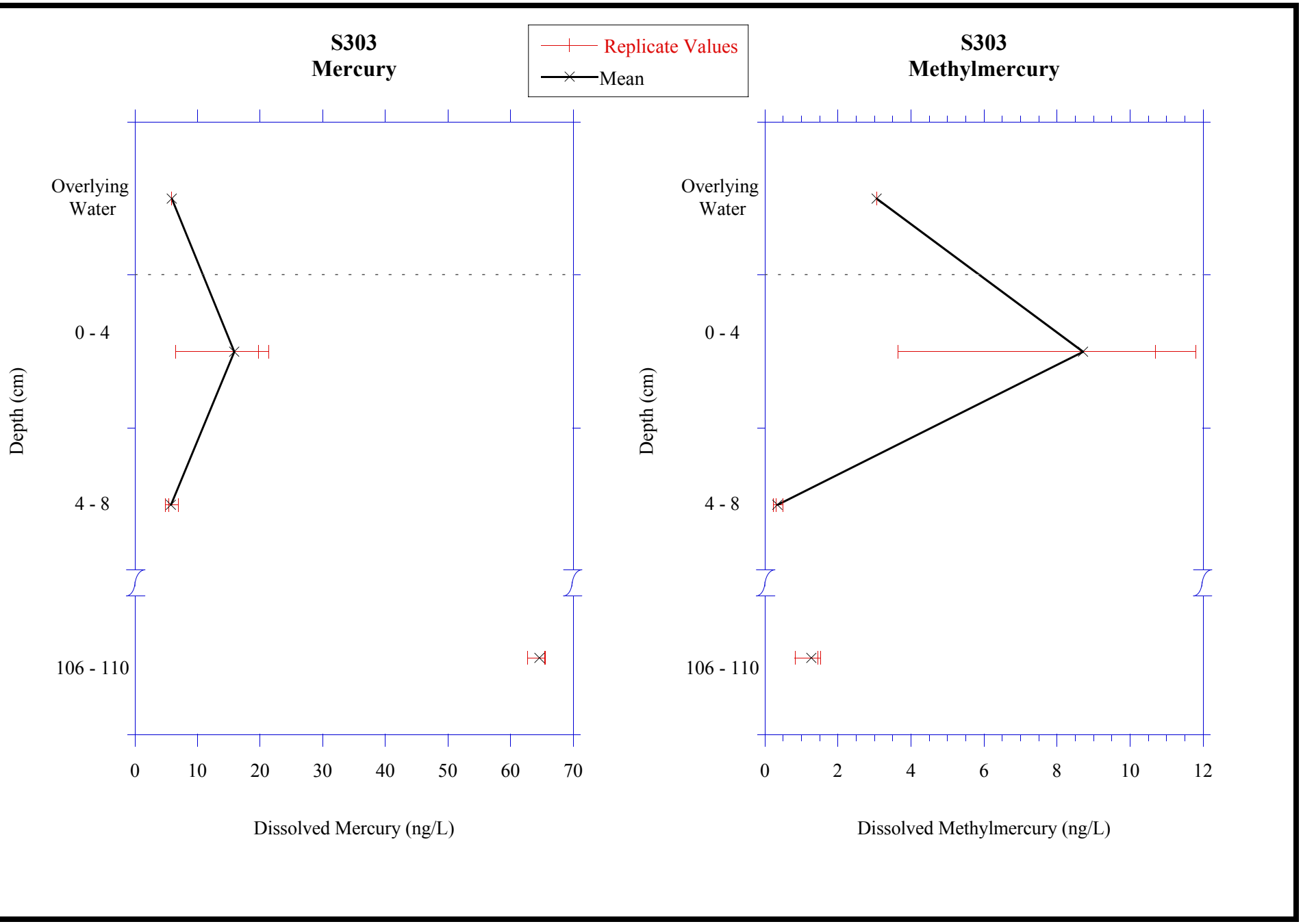
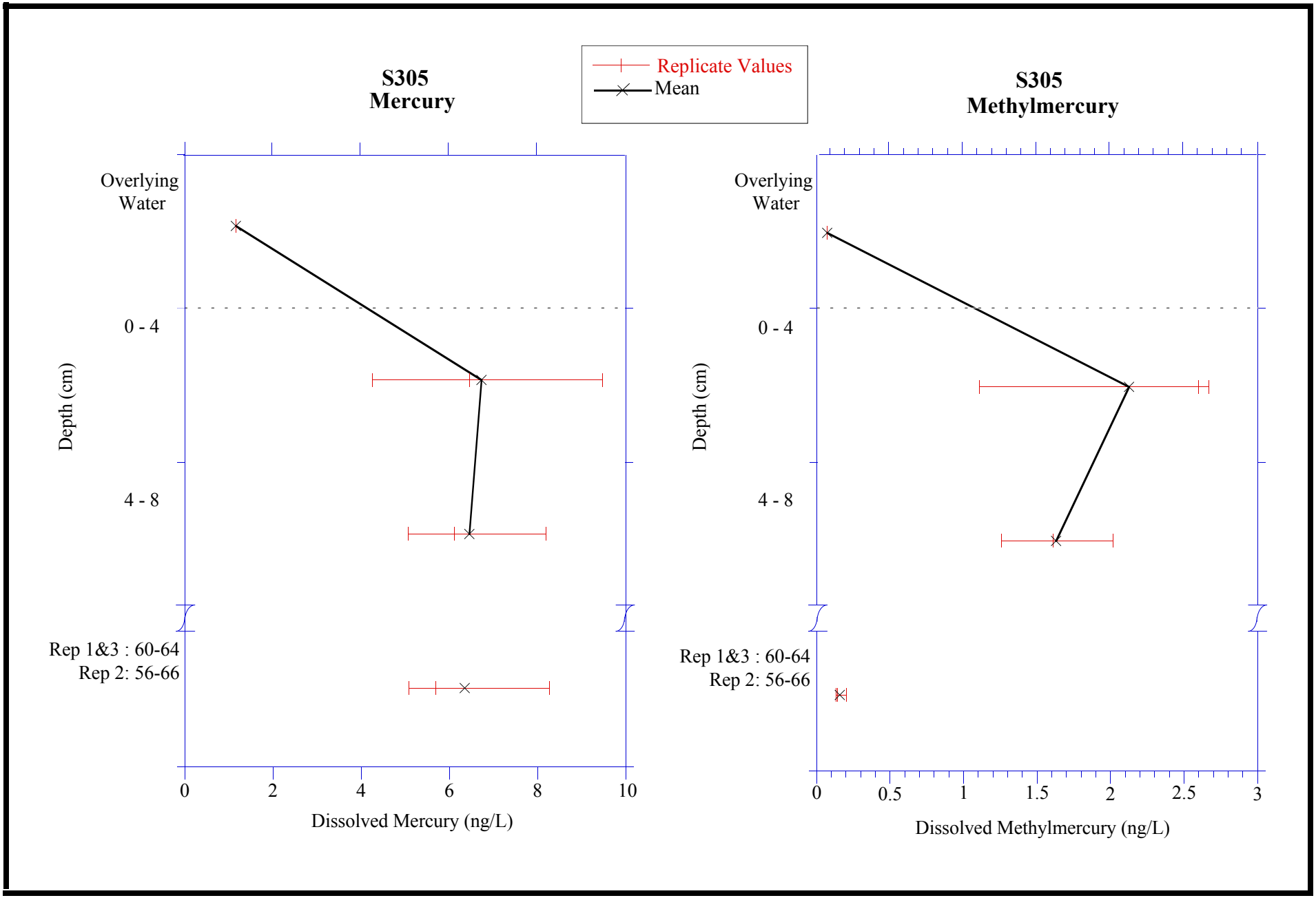


Figure 8-49
Mercury and Methylmercury in Porewater Extract
at Station S303 in 2000

TAMS



TAMS

Figure 8-50
Mercury and Methylmercury in Porewater Extract at Station S305 in 2000

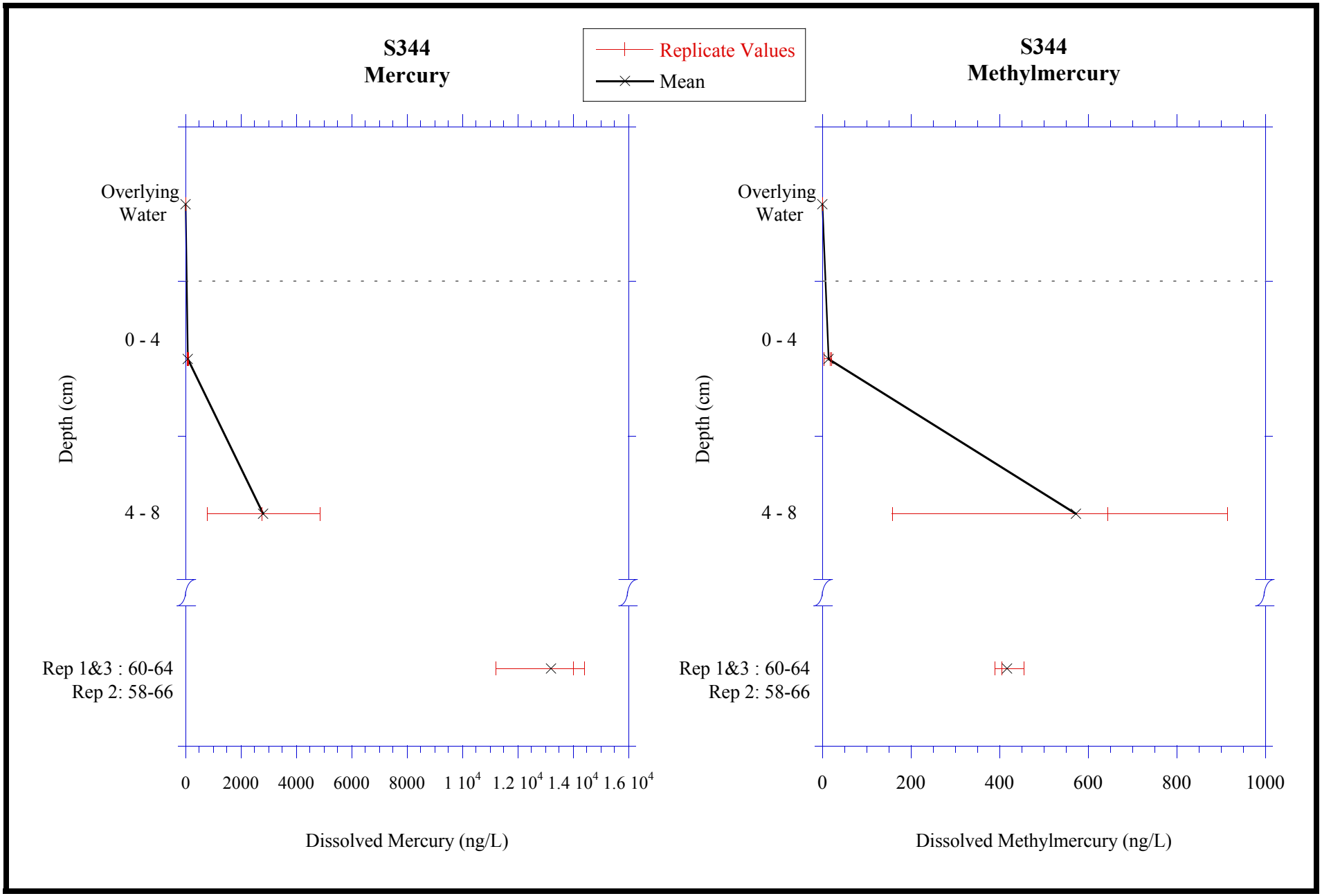
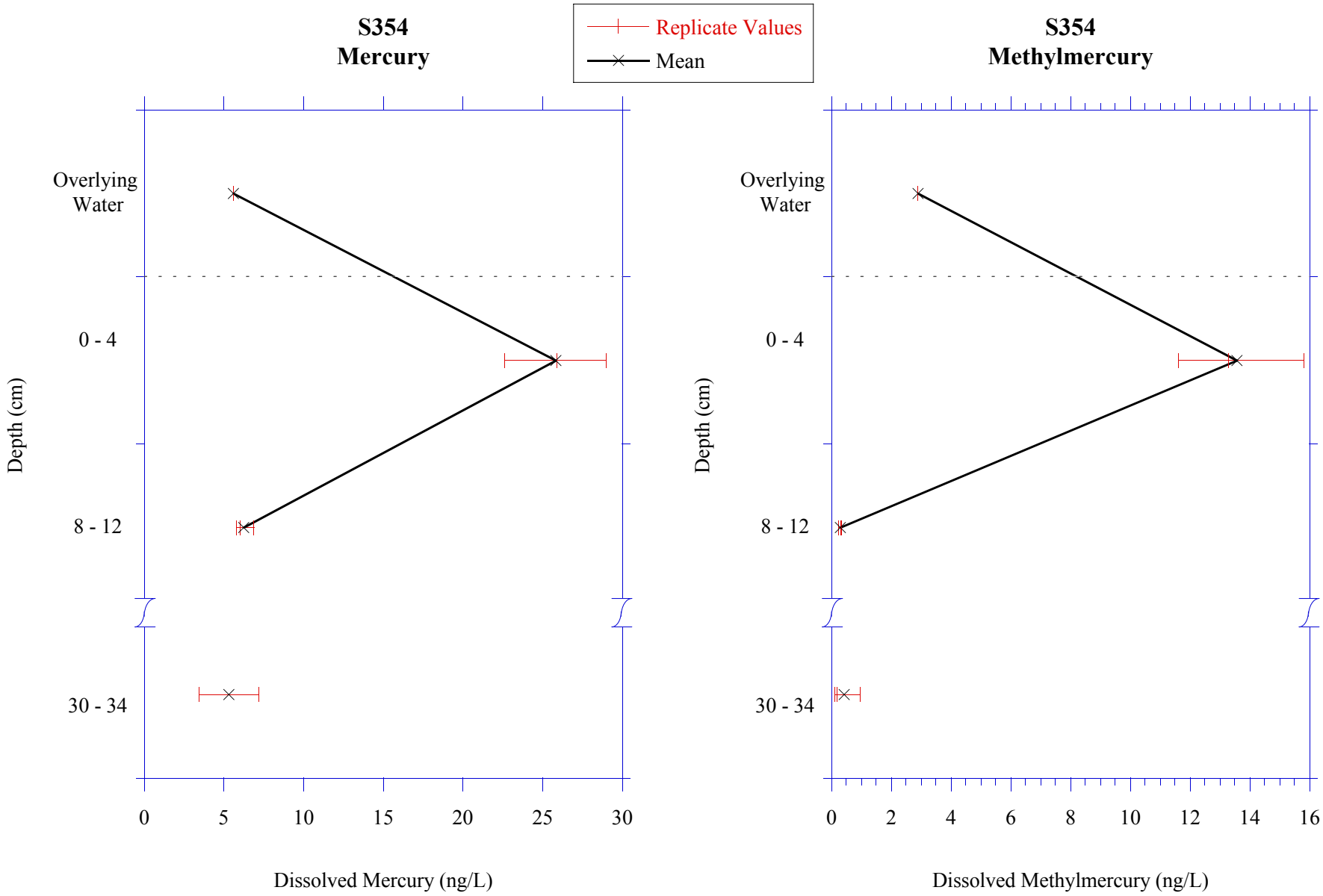


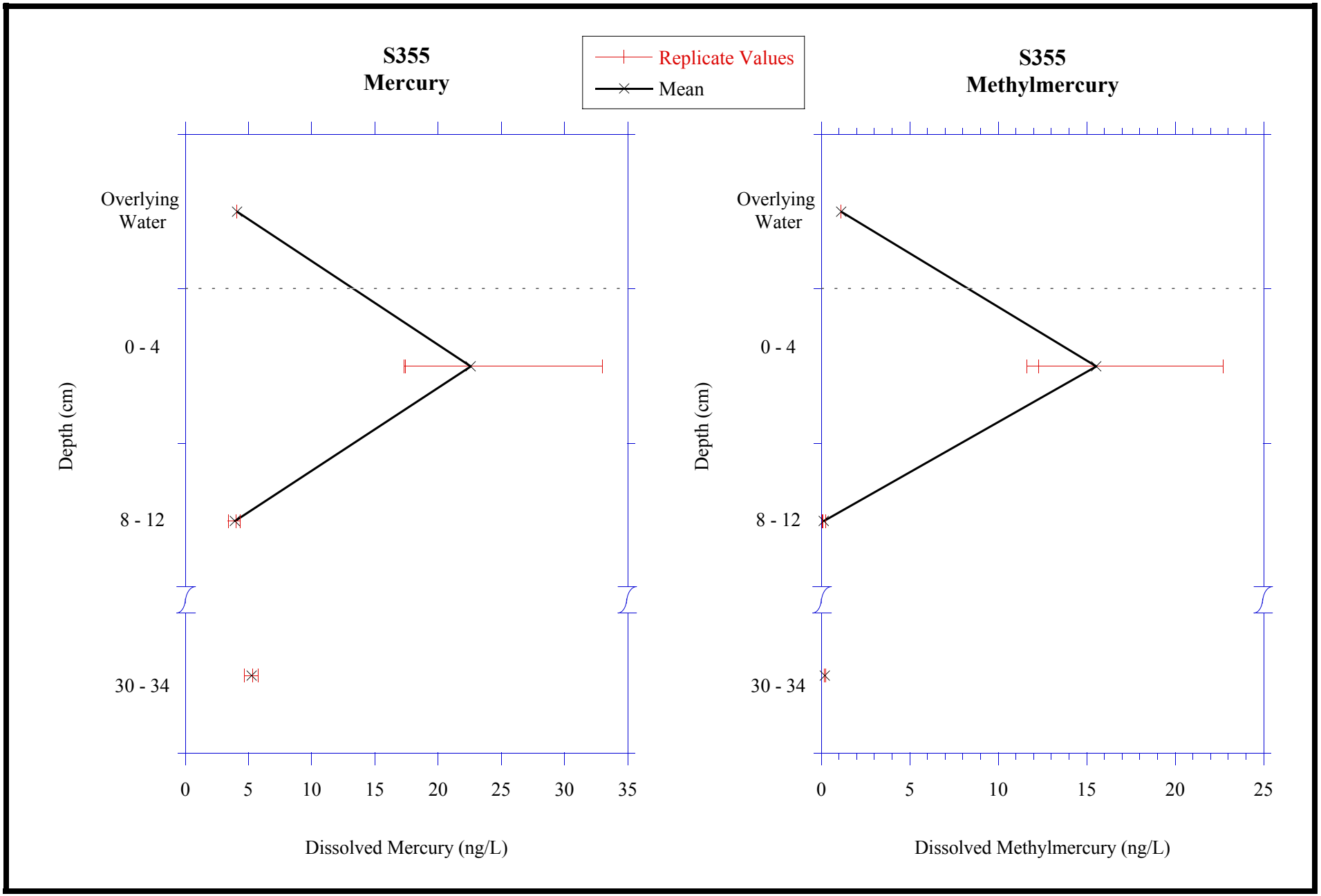
Figure 8-51
Mercury and Methylmercury in Porewater Extract at Station S344 in 2000

TAMS



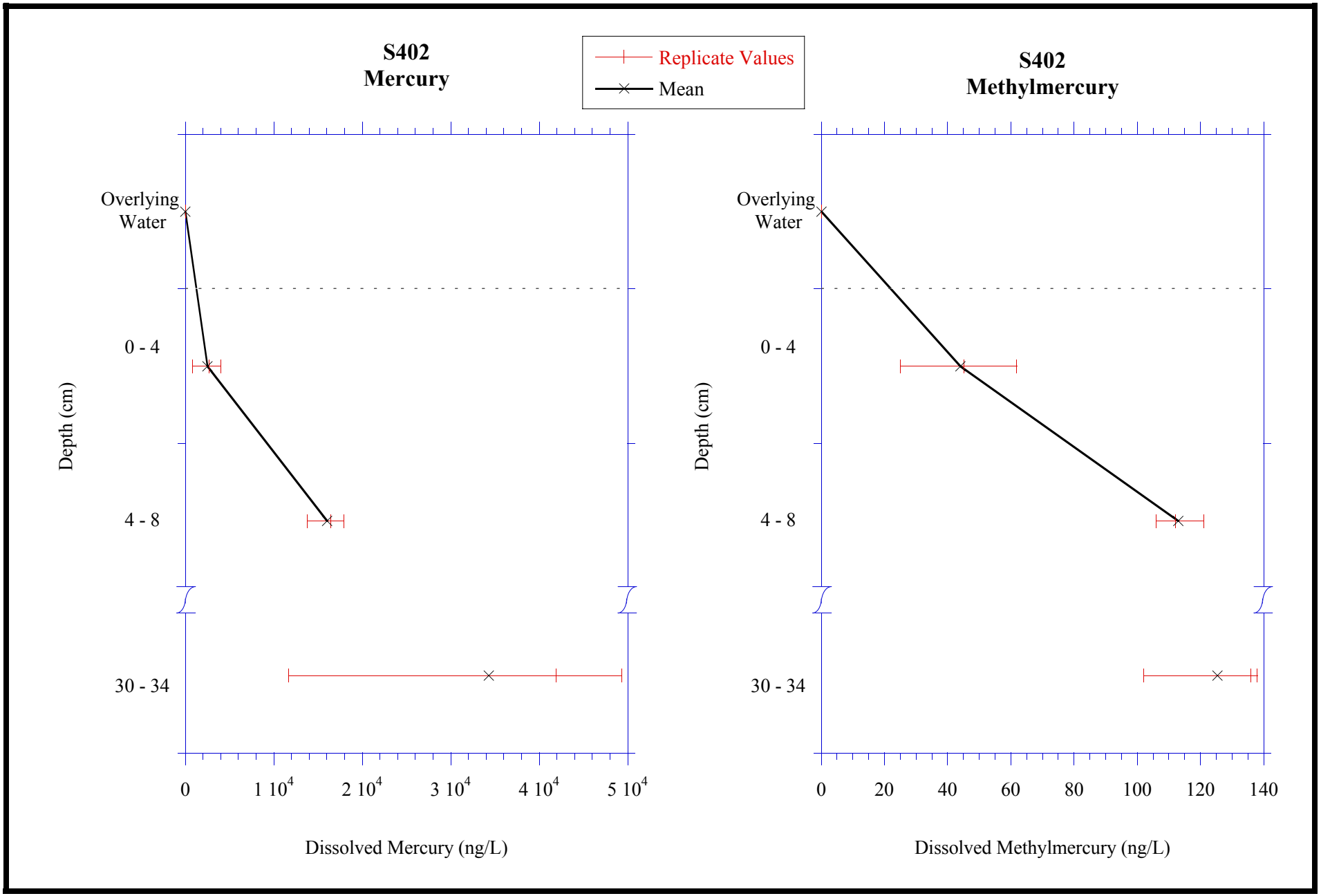
TAMS

Figure 8-52
Mercury and Methylmercury in Porewater Extract
at Station S354 in 2000



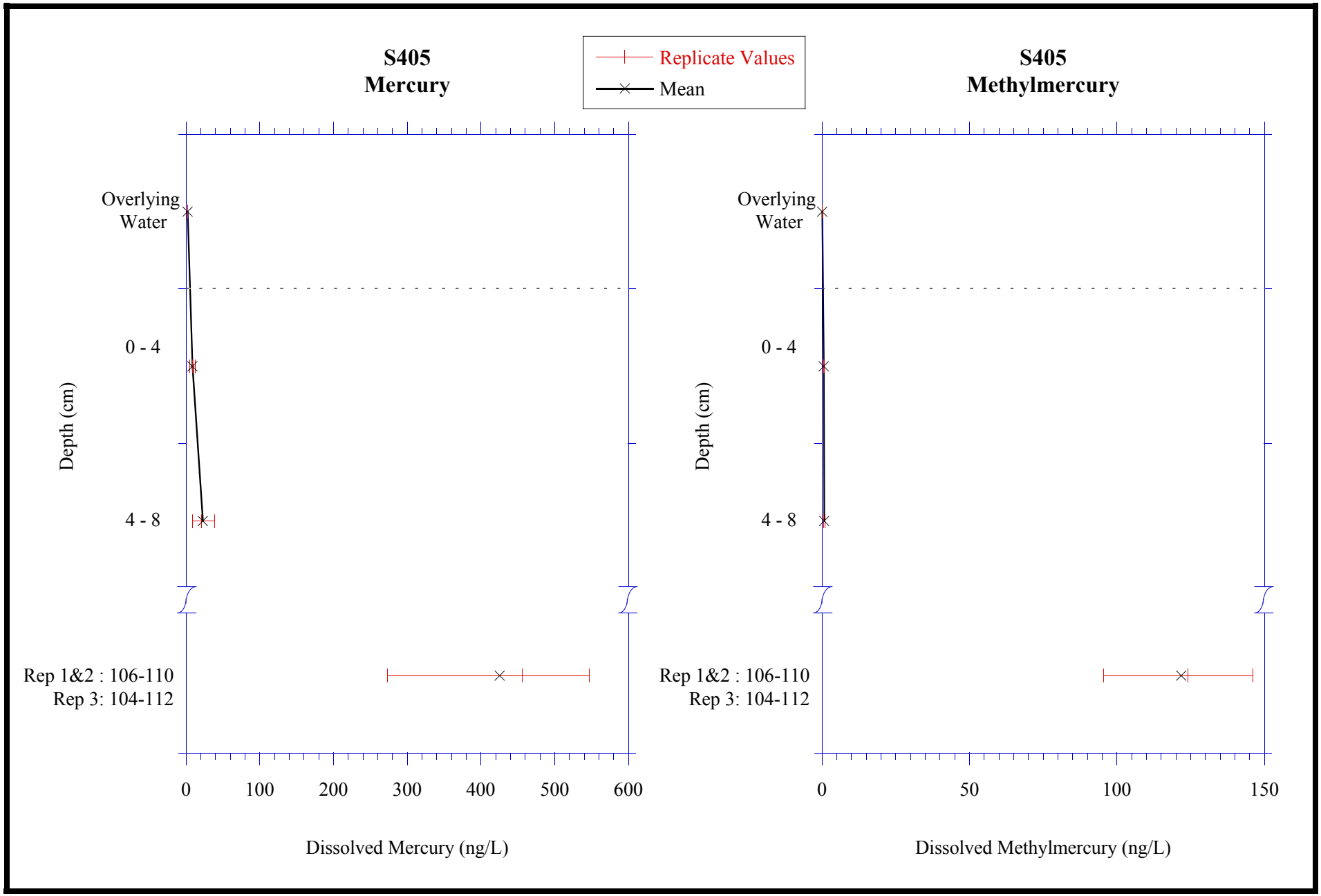
TAMS

Figure 8-53
Mercury and Methylmercury in Porewater Extract
at Station S355 in 2000



TAMS

Figure 8-54
Mercury and Methylmercury in Porewater Extract
at Station S402 in 2000



TAMS

Figure 8-55
Mercury and Methylmercury in Porewater Extract
at Station S405 in 2000