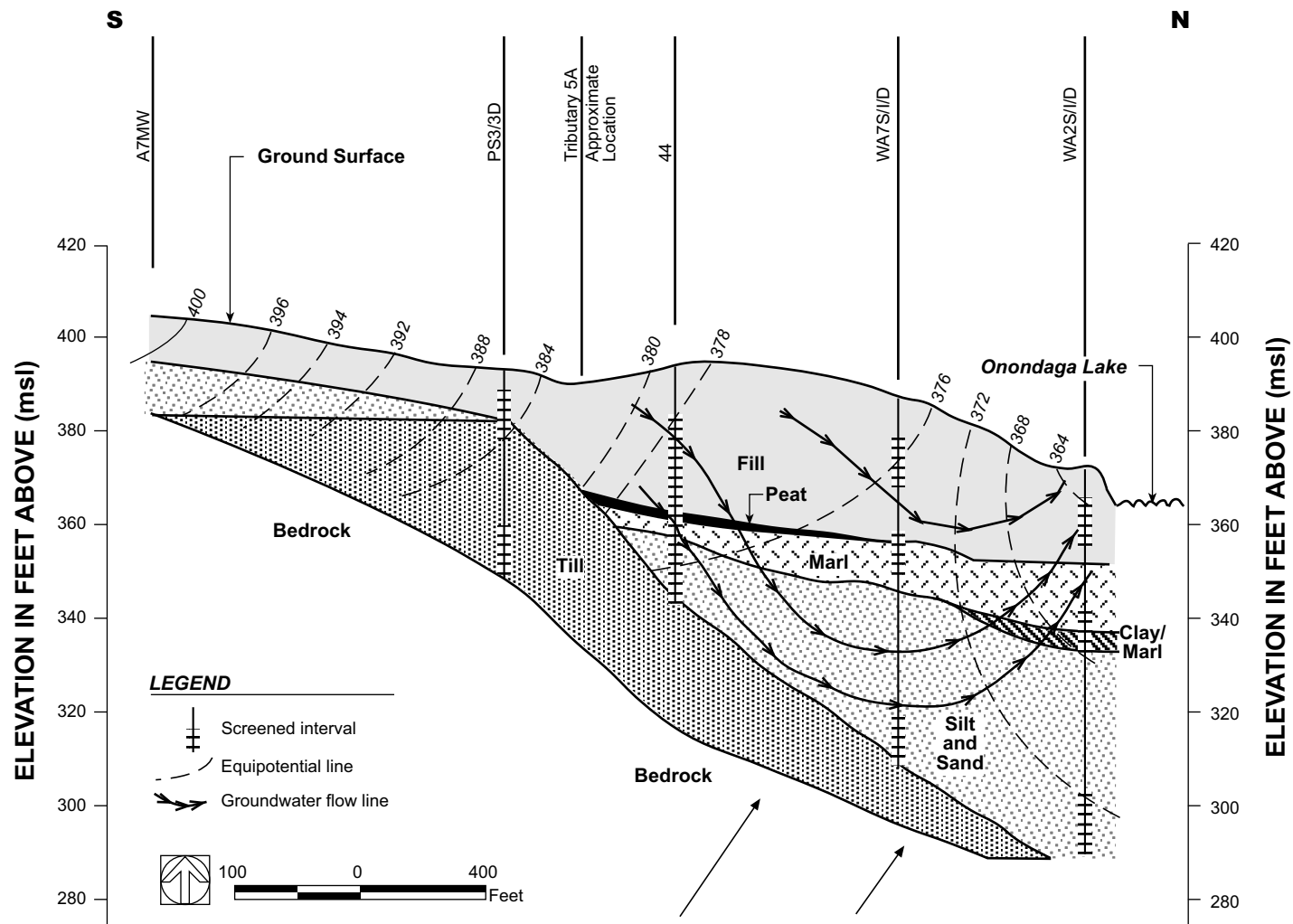
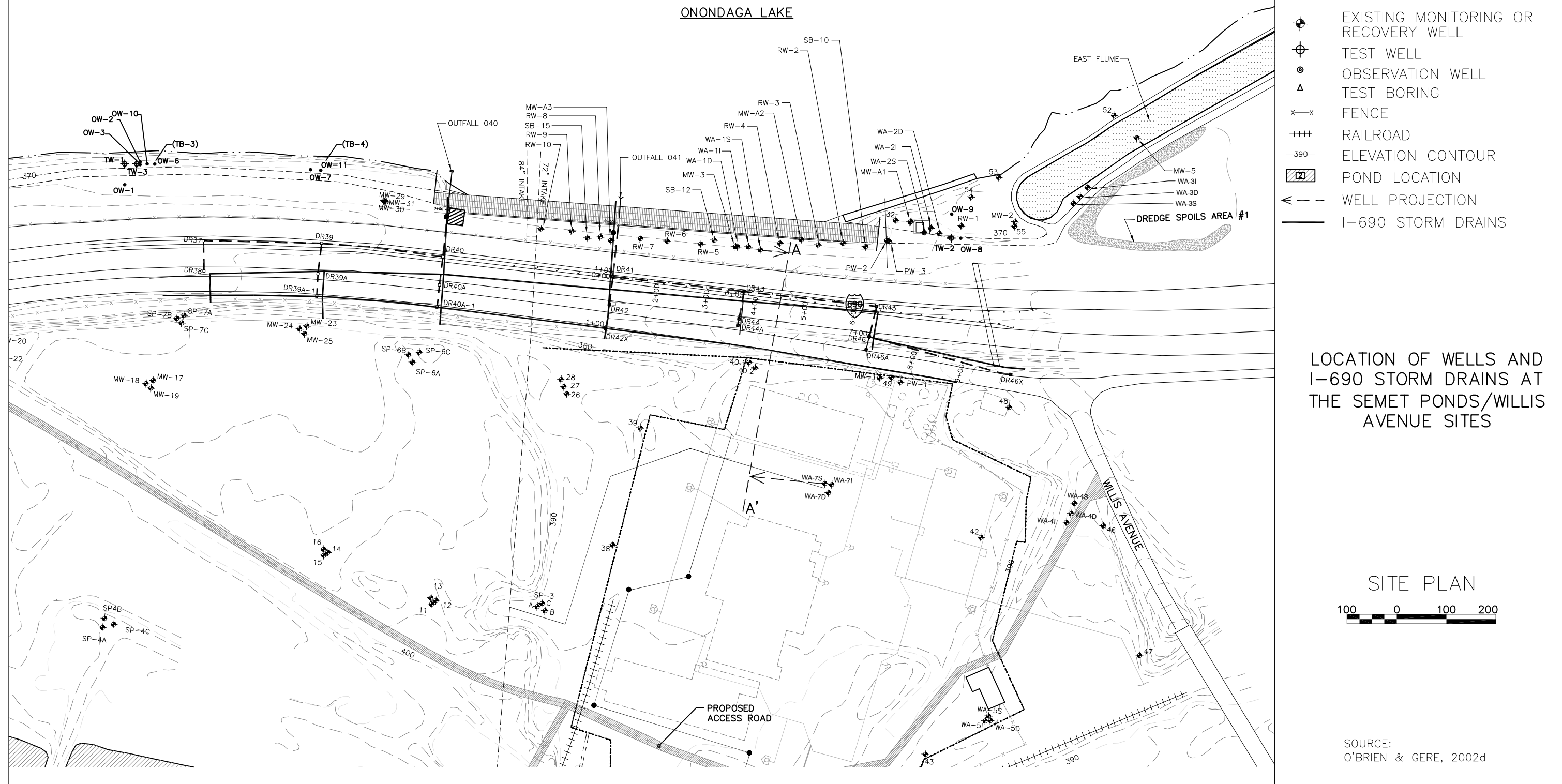
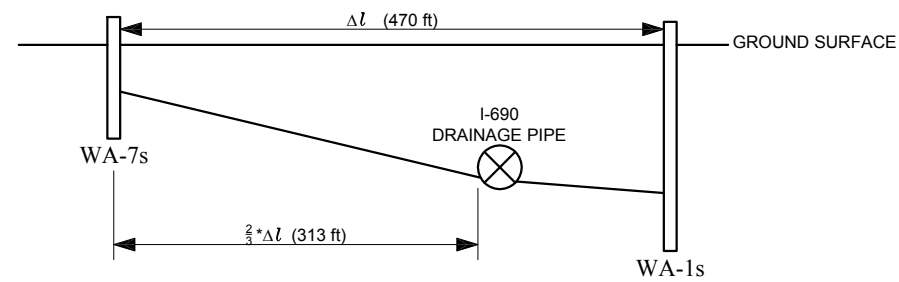


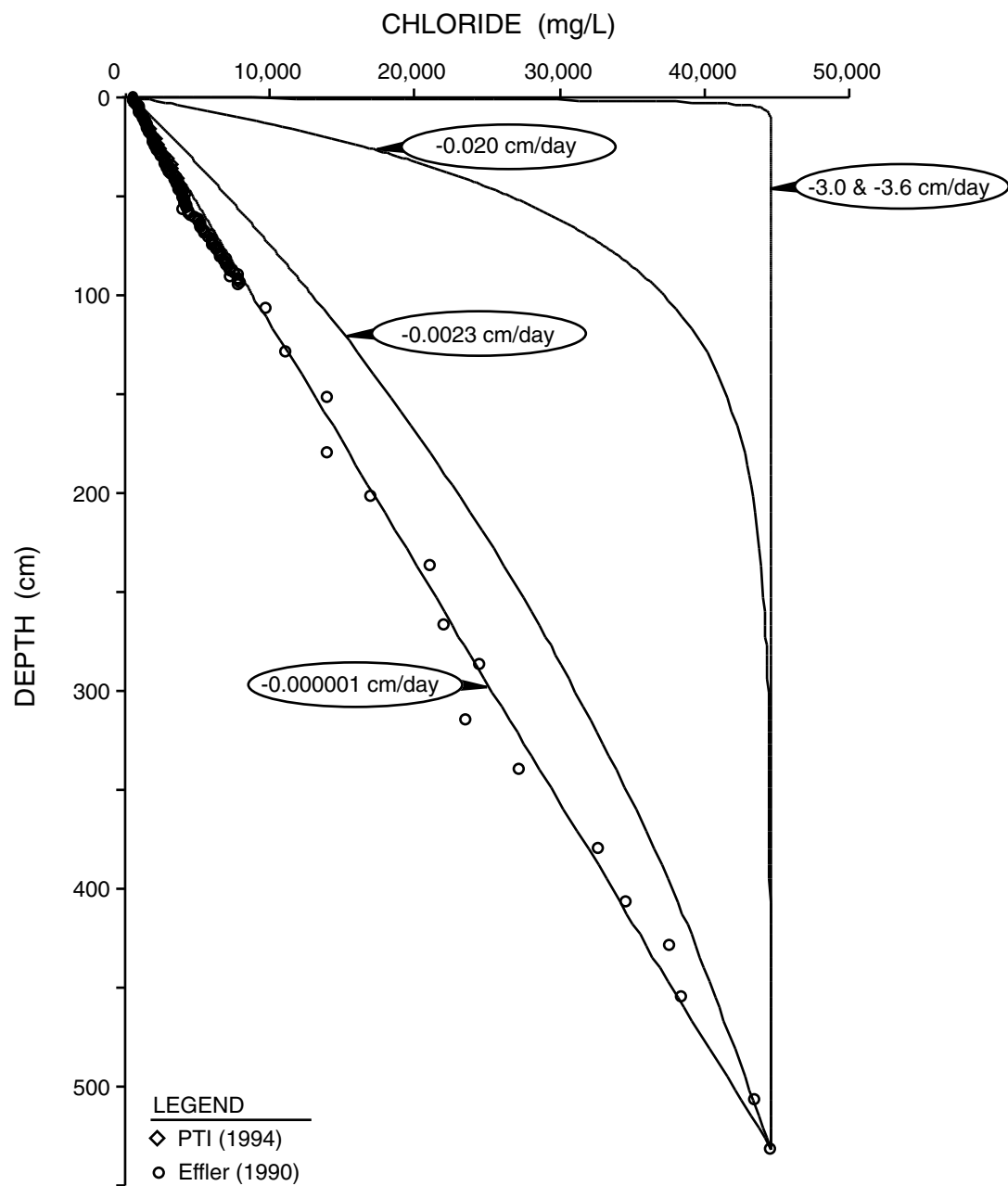


Source: O'Brien and Gere (1999). Exponent, 2001c

Figure 6-1. Hydrogeologic cross section through the Willis Avenue plant area, September 22 and 23, 1992

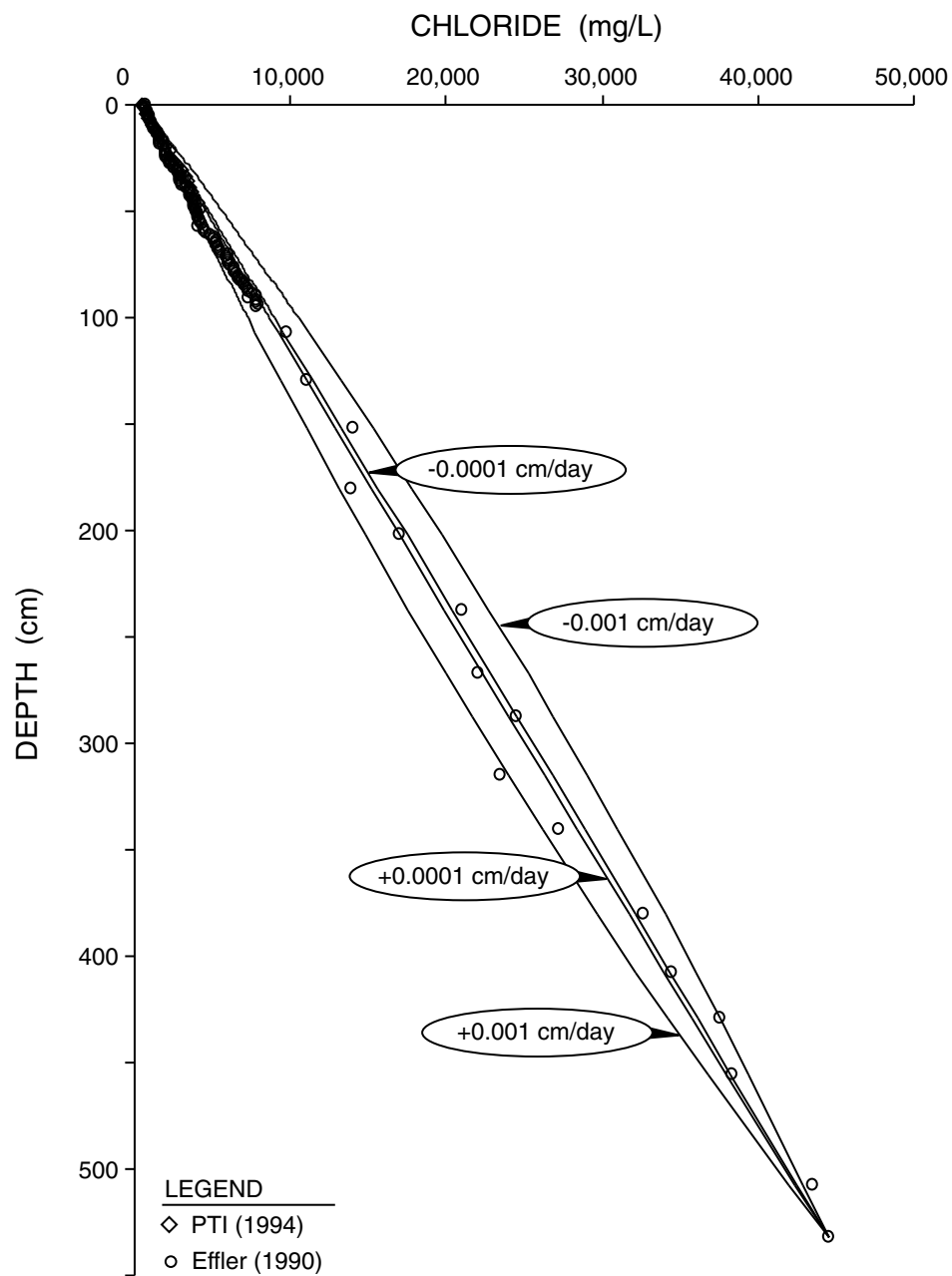
FIGURE 6-2





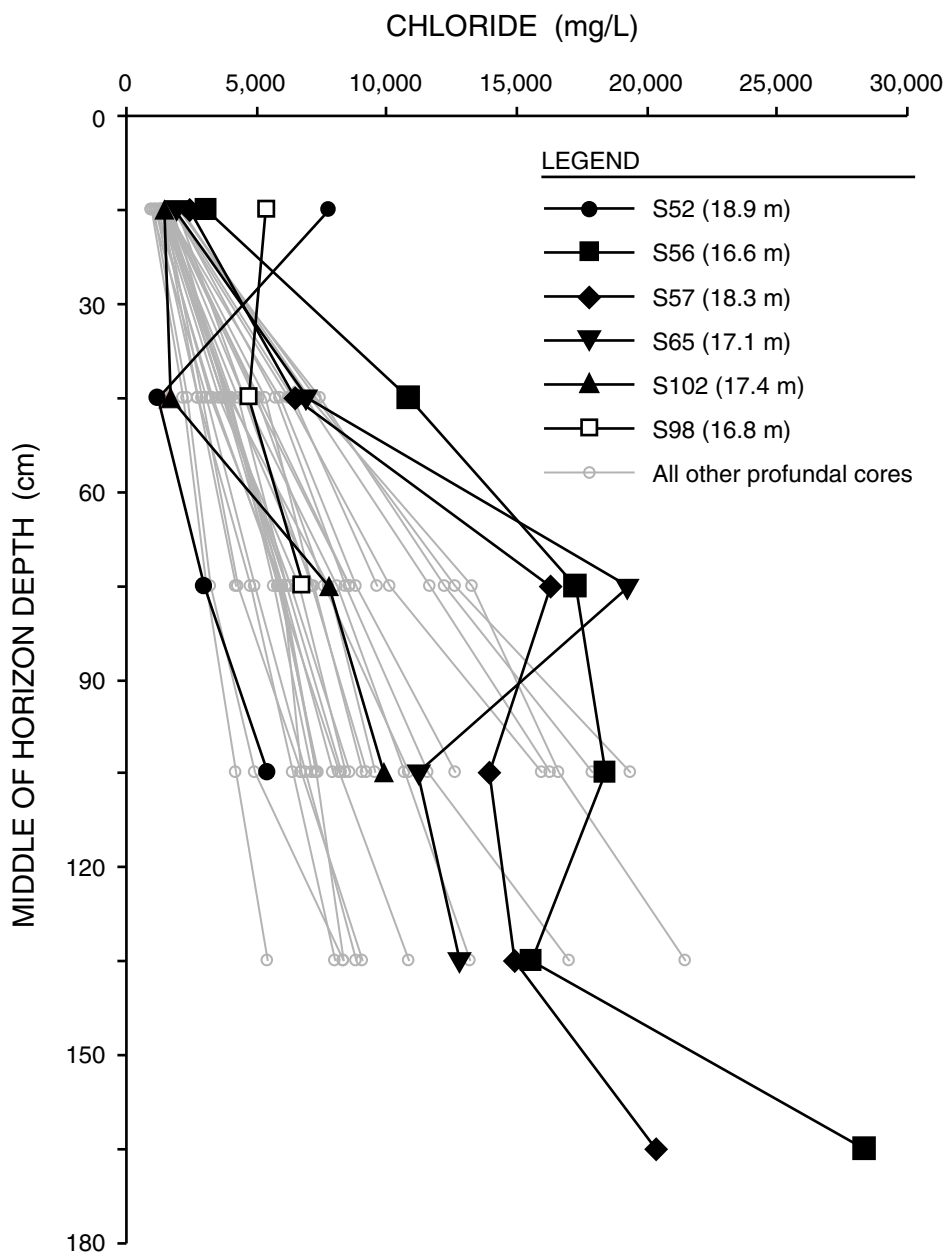
Source: Exponent, 2001c

Figure 6-3. Comparison of chloride profiles with model predictions for several velocity scenarios



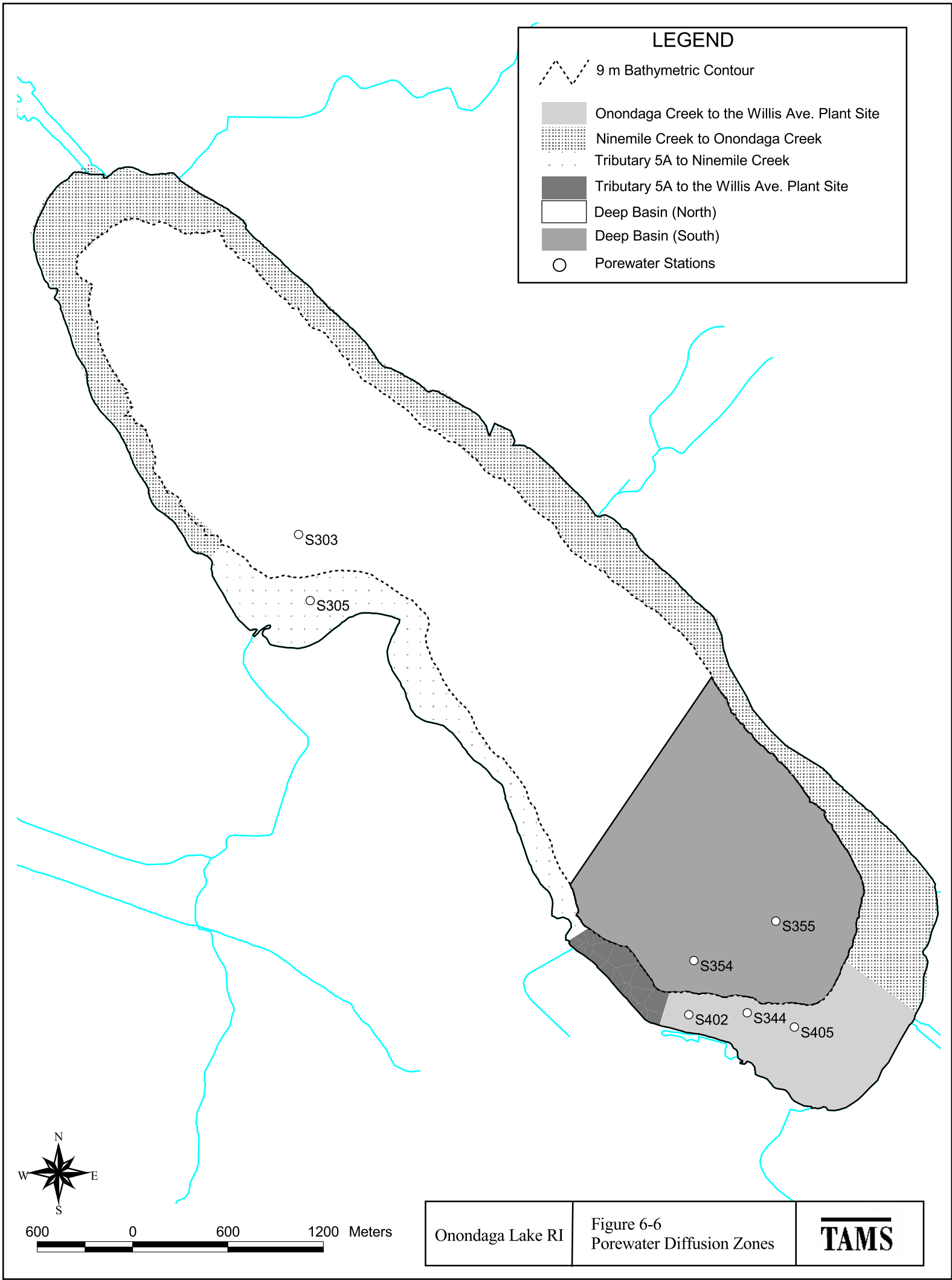
Source: Exponent, 2001c

Figure 6-4. Comparison of chloride profiles with model predictions for upward (-) and downward (+) velocities



Source: Exponent, 2001c

Figure 6-5. Estimated chloride concentrations in porewater in Onondaga Lake



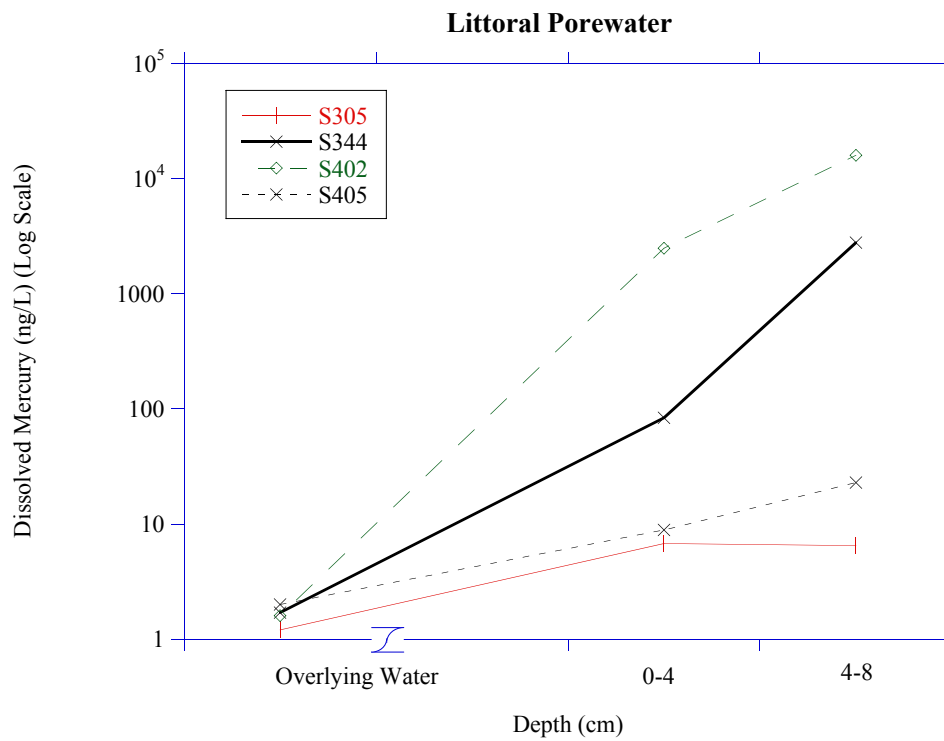
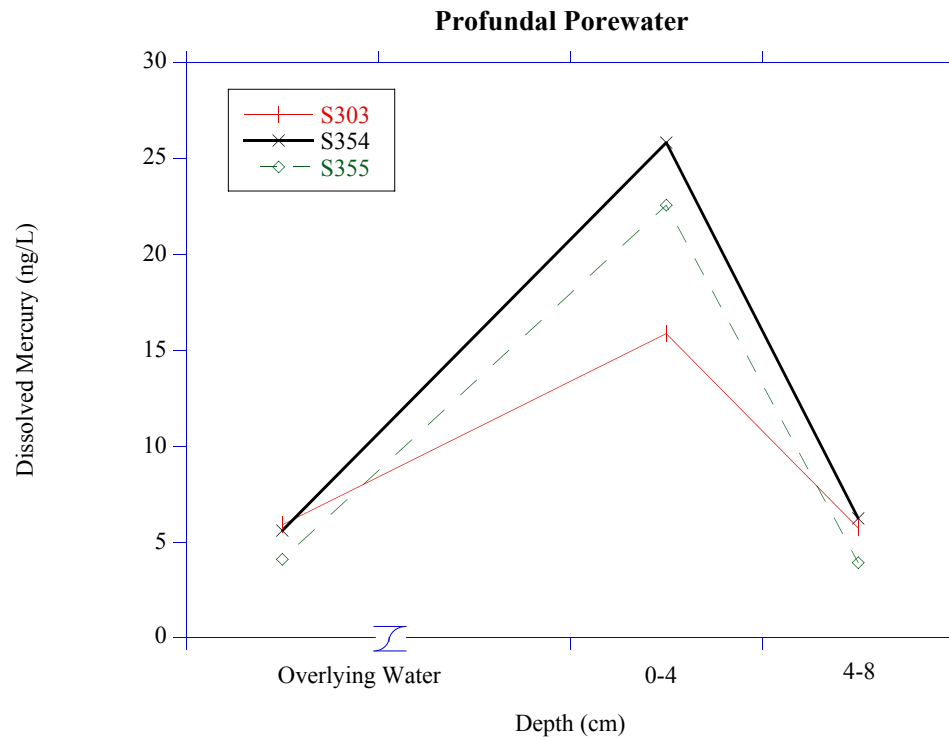
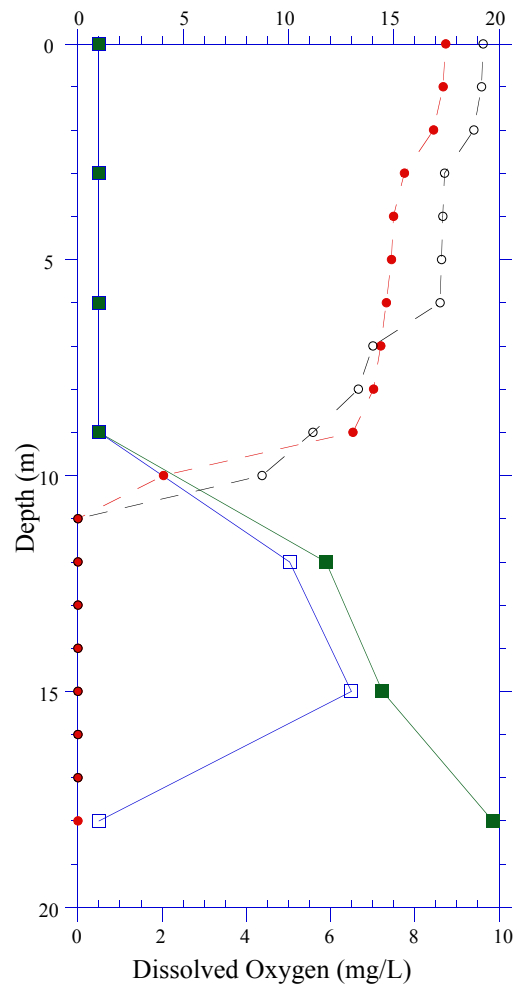


Figure 6-7
Mercury Detected in Sediment Porewater
from the Littoral and Profundal Zones in Onondaga Lake (2000)

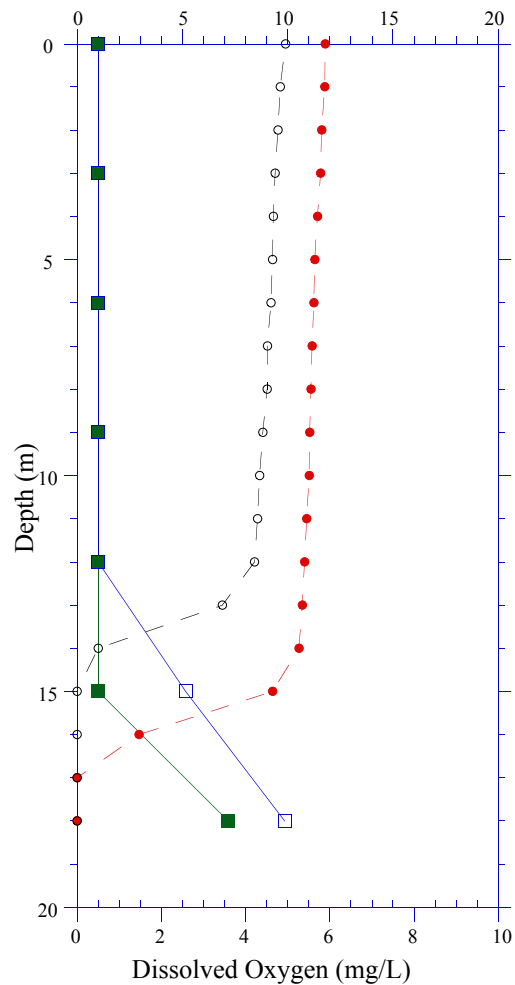
Event 1, 9/27/99

Sulfides (mg/L)



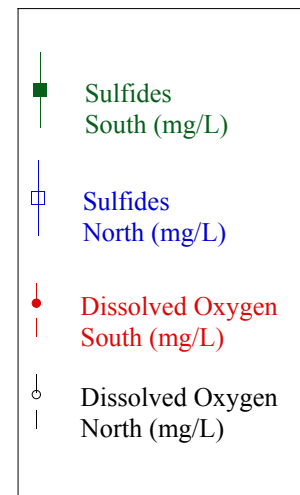
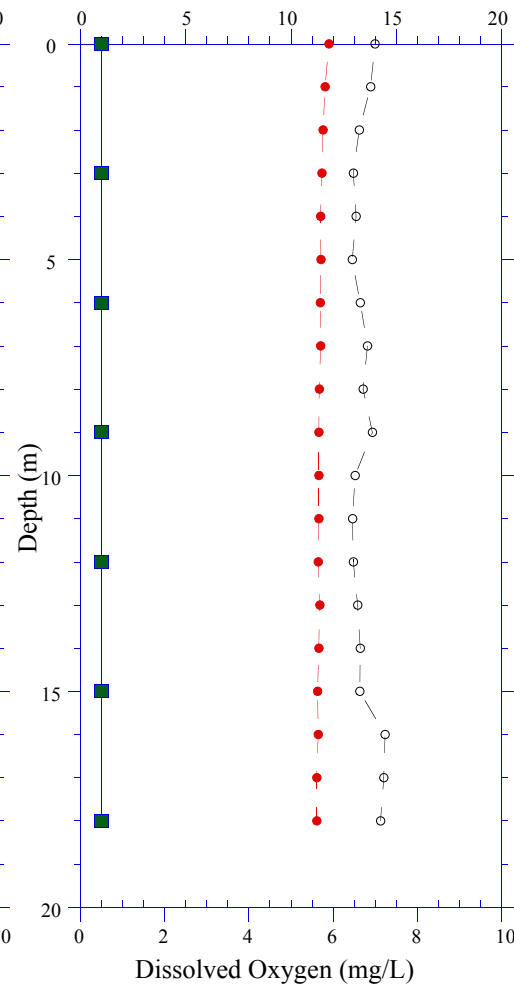
Event 2, 10/15/99

Sulfides (mg/L)



Event 3, 10/25/99

Sulfides (mg/L)



Note: During Events 4 and 5, sulfides were not detected.

Figure 6-8
Sulfides and Dissolved Oxygen Profiles

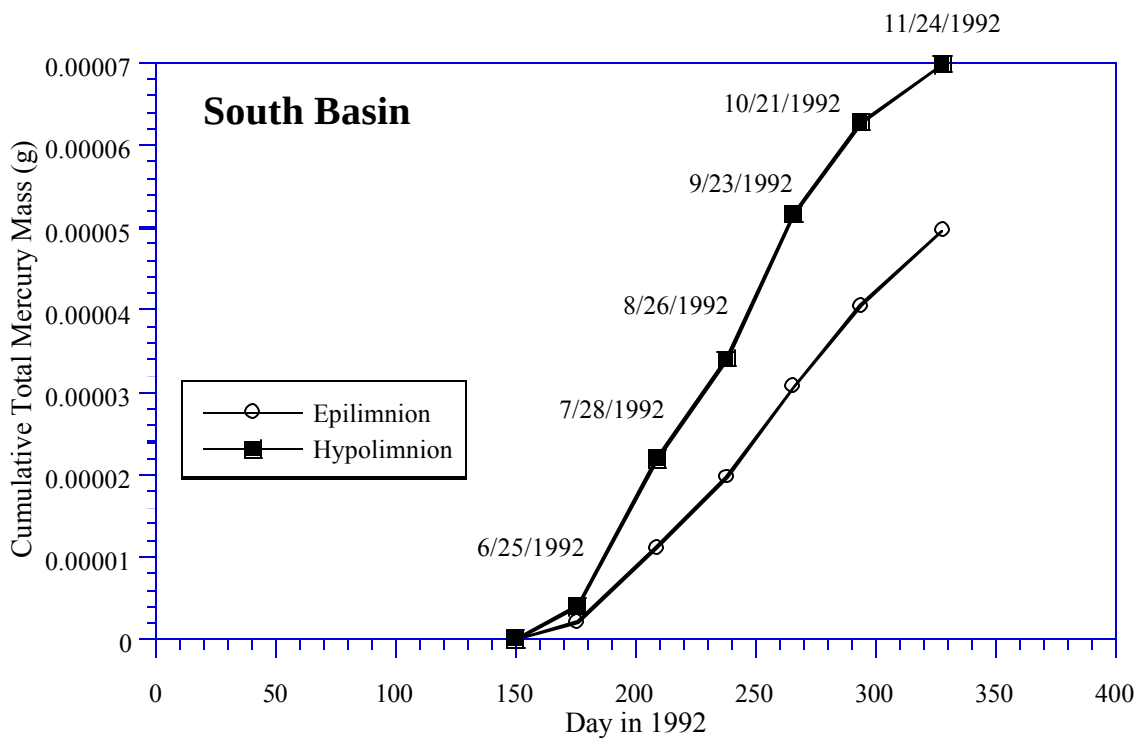
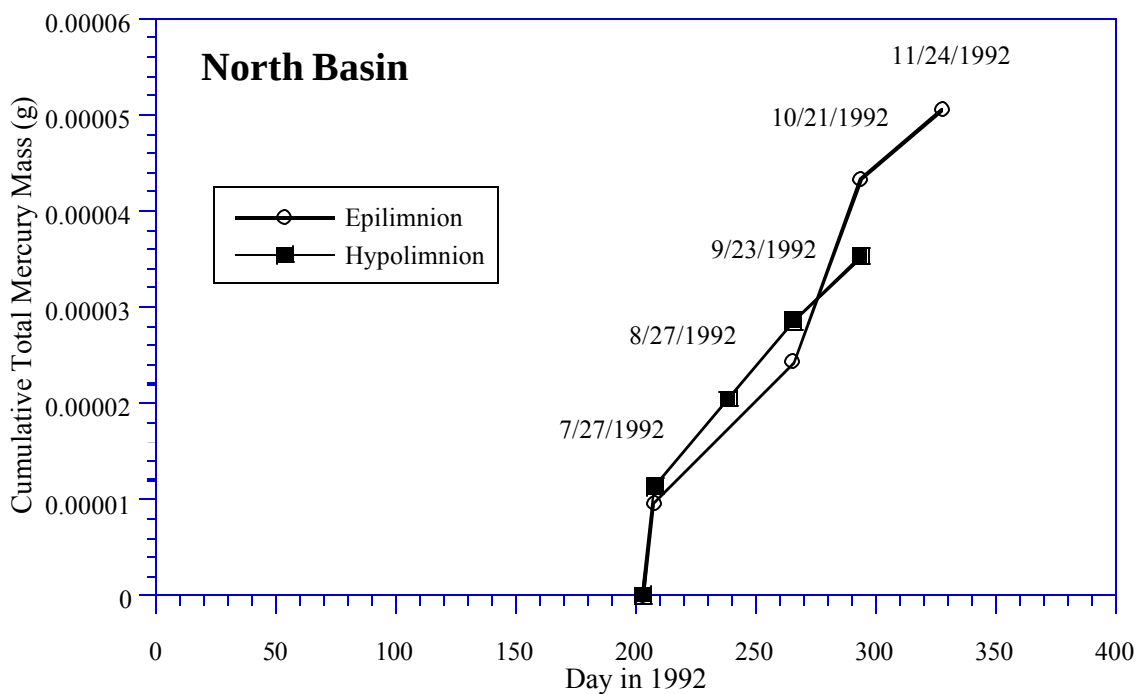


Figure 6-9
Cumulative Mercury Load in Sediment Traps for 1992

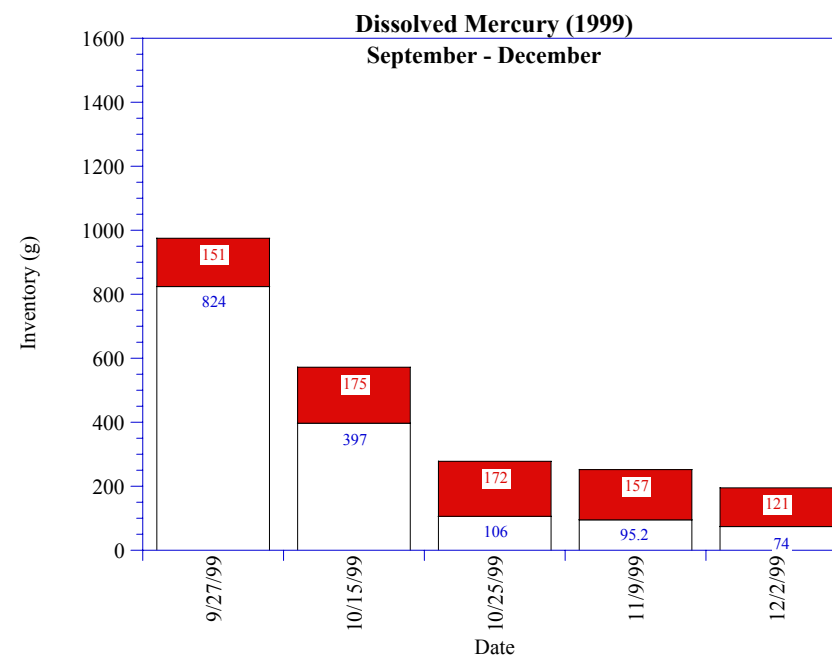
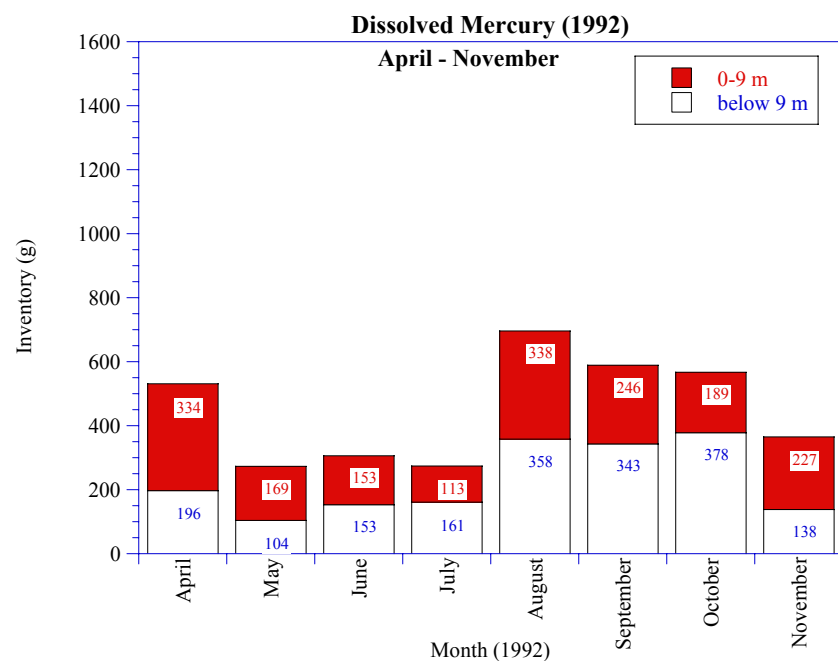
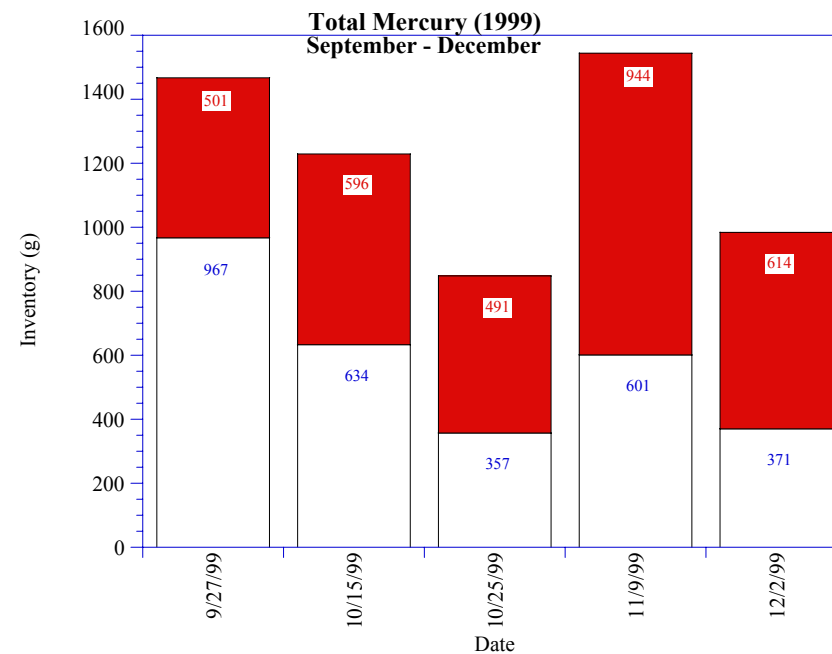
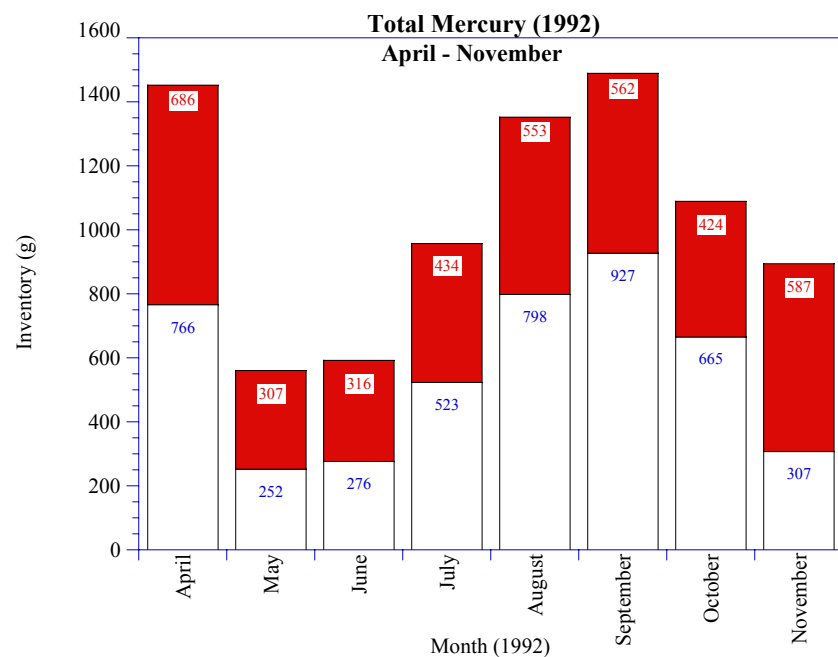


Figure 6-10
Mercury Inventory in Surface Water
of Onondaga Lake in 1992 and 1999

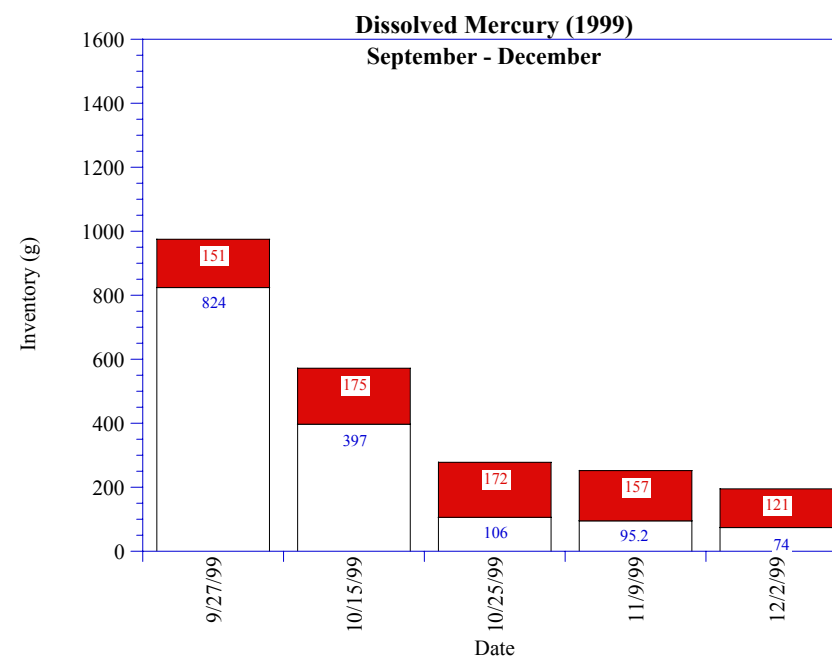
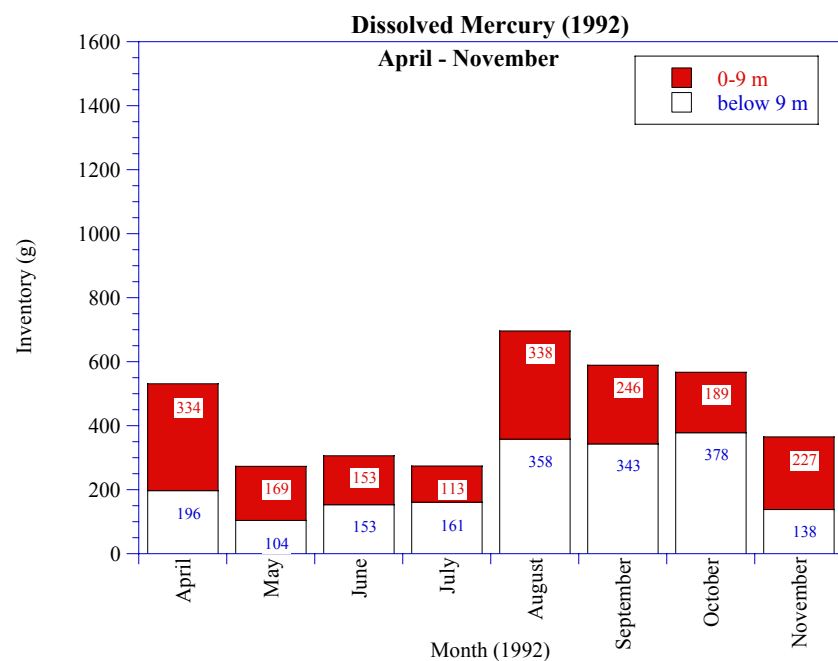
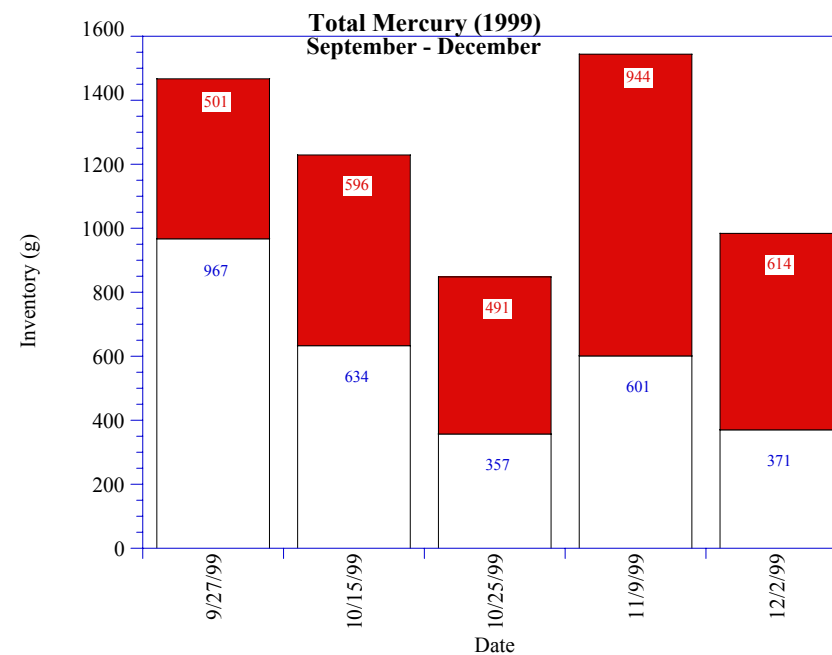
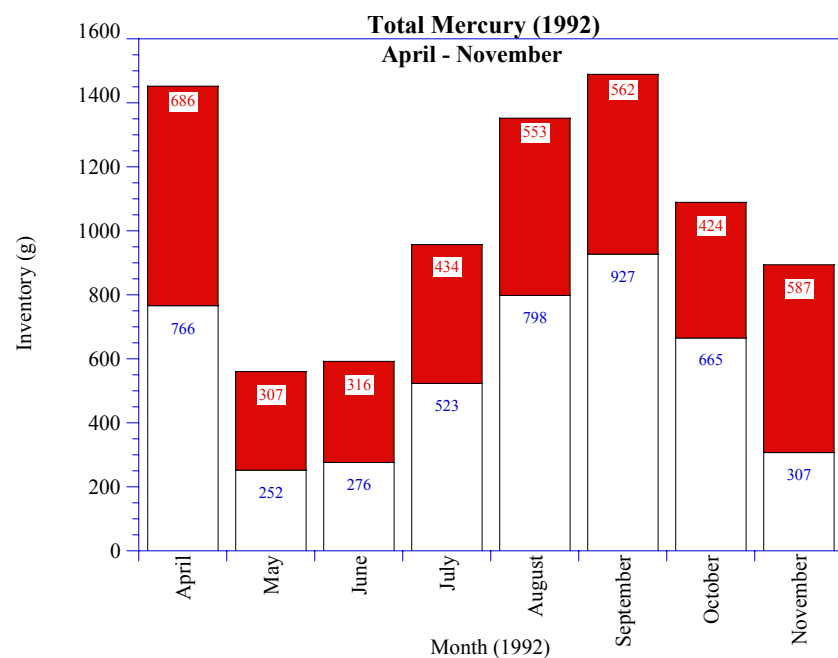


Figure 6-10
Mercury Inventory in Surface Water
of Onondaga Lake in 1992 and 1999

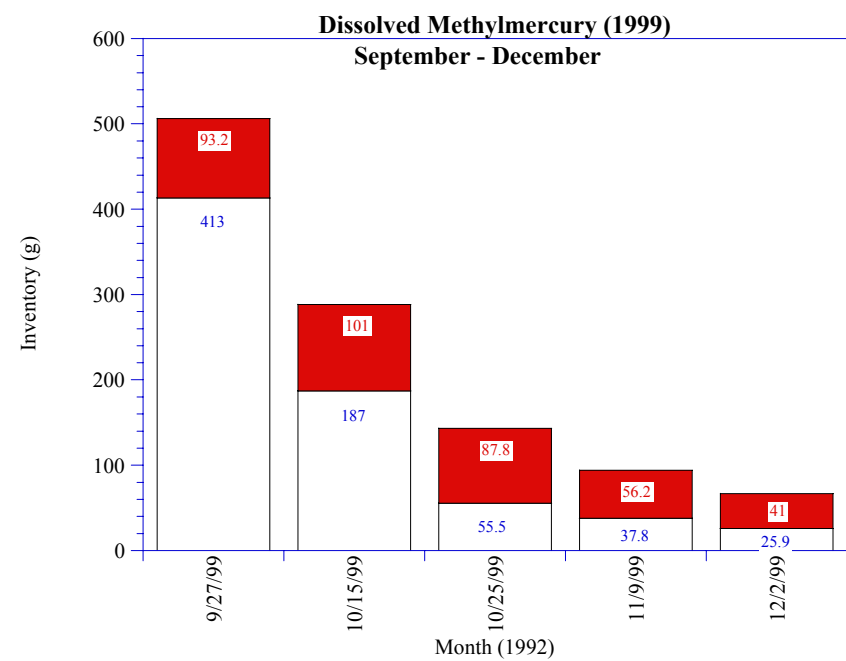
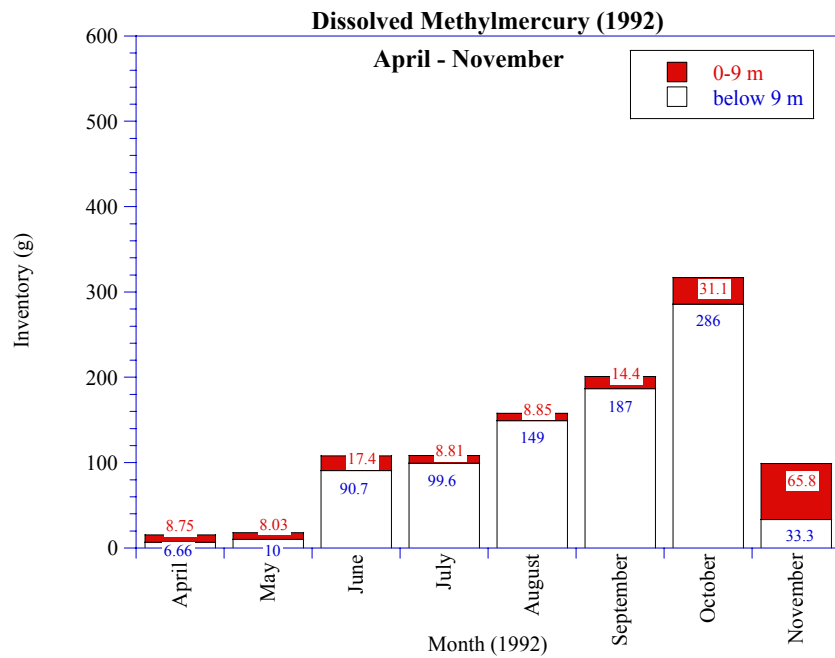
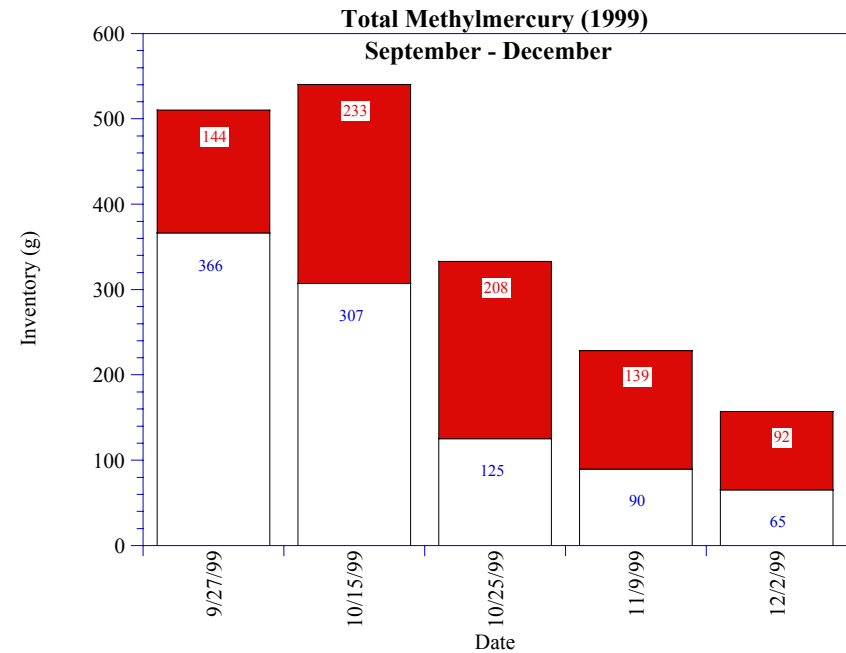
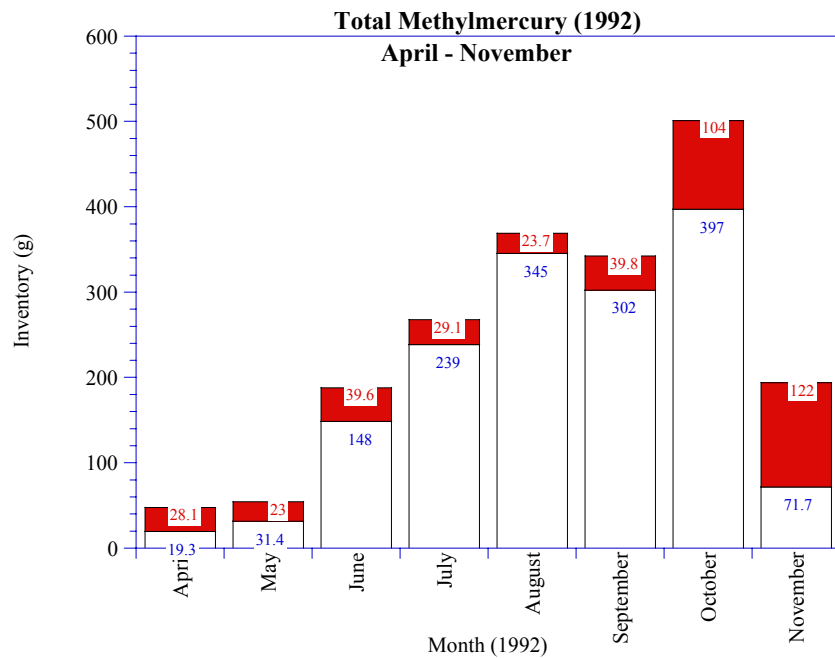
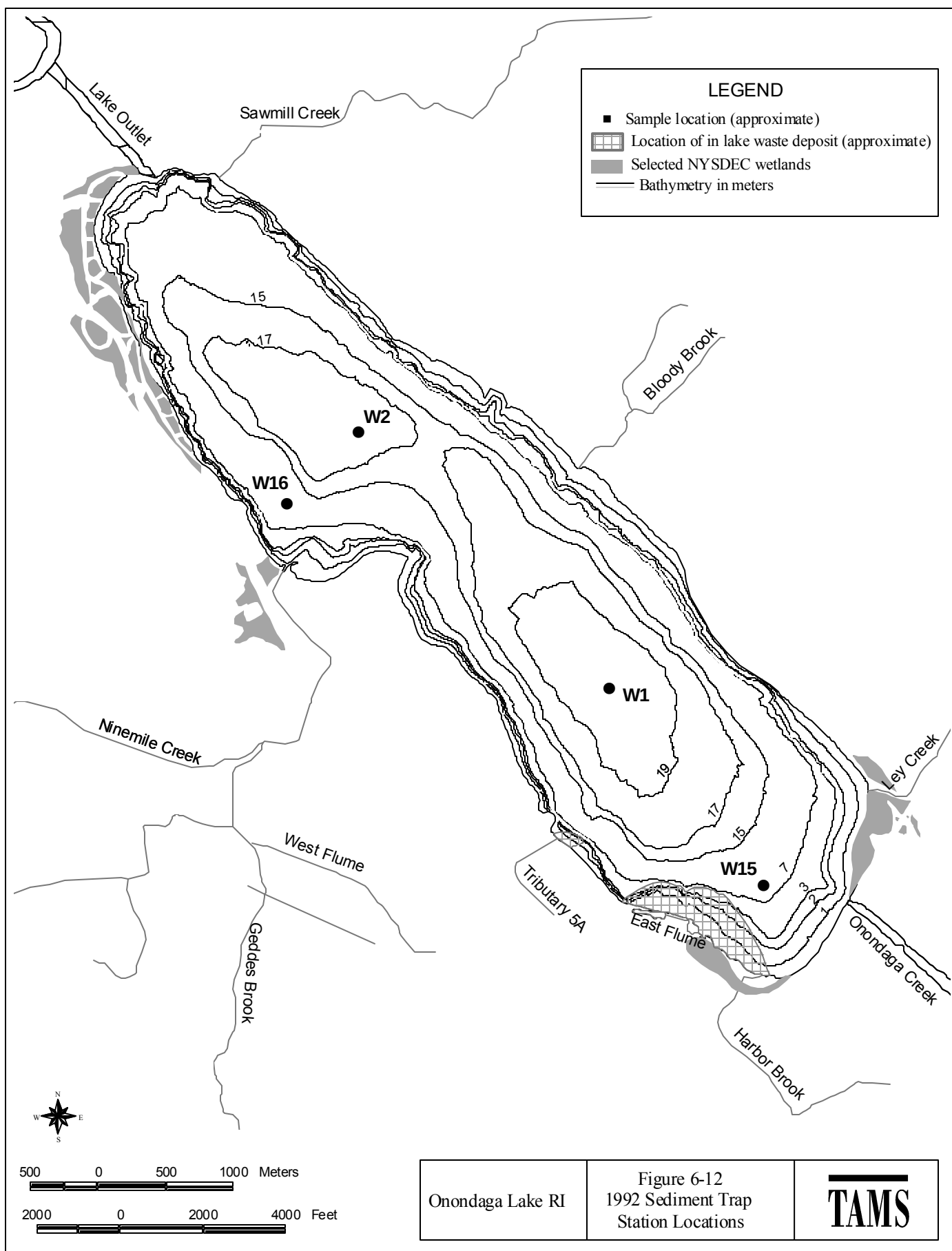
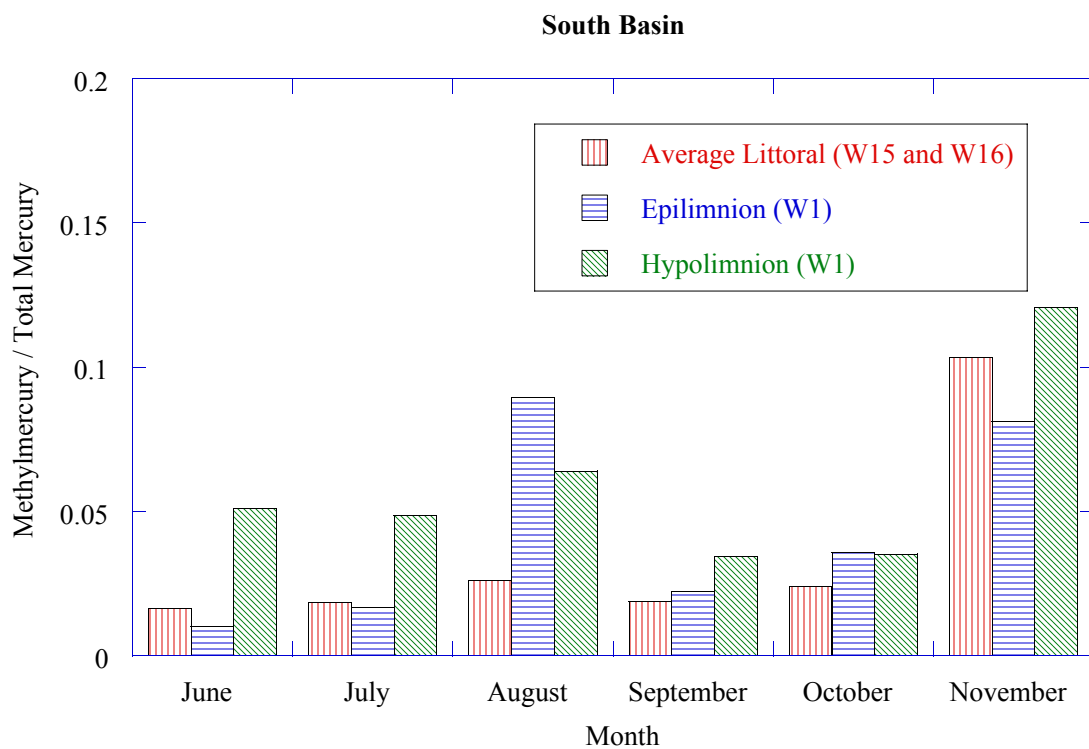
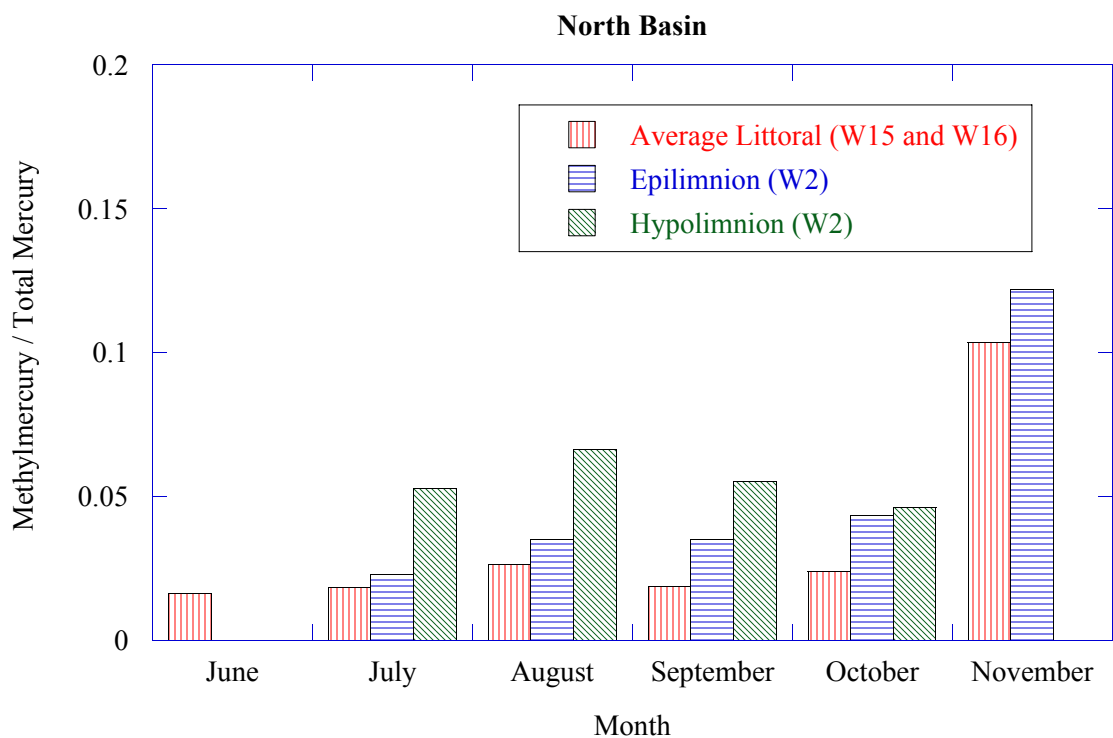


Figure 6-11
Methylmercury Inventory in Surface Water
of Onondaga Lake in 1992 and 1999



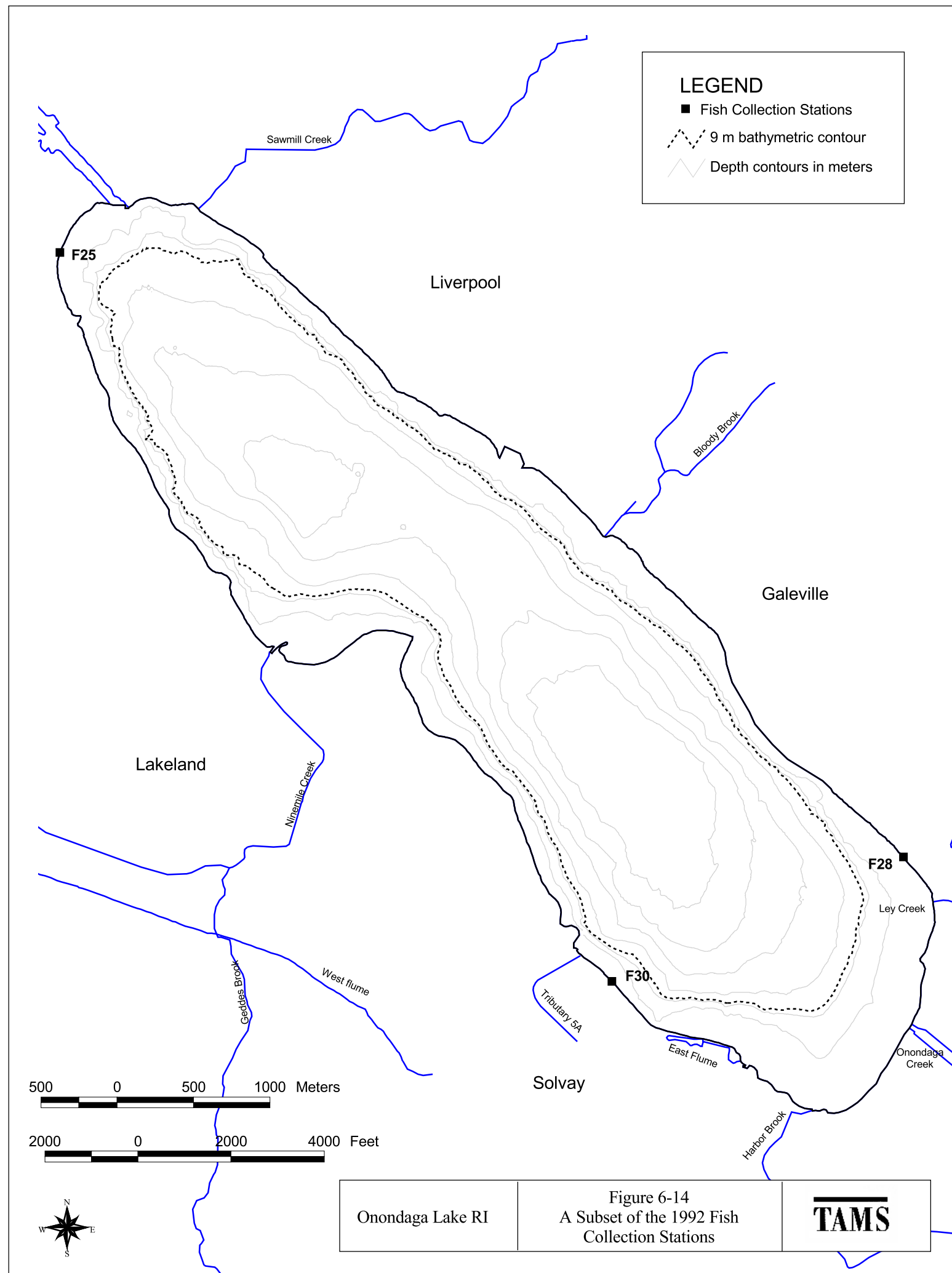


Note:

1. No data were available for the north basin from the hypolimnion in June and November and the epilimnion in June.

TAMS

Figure 6-13
Ratio of Methylmercury to Total Mercury from Sediment Trap Data from Onondaga Lake (1992)



LEGEND

- Fish Collection Stations
- - - 9 m bathymetric contour
- Depth contours in meters

Liverpool

Galeville

Lakeland

Solvay

F28

F25

F30

Sawmill Creek

Bloody Brook

Ninemile Creek

Geddes Brook

West flume

Tributary 5A

East Flume

Harbor Brook

Ley Creek

Onondaga Creek

500 0 500 1000 Meters

2000 0 2000 4000 Feet



Onondaga Lake RI

Figure 6-14
A Subset of the 1992 Fish
Collection Stations

TAMS

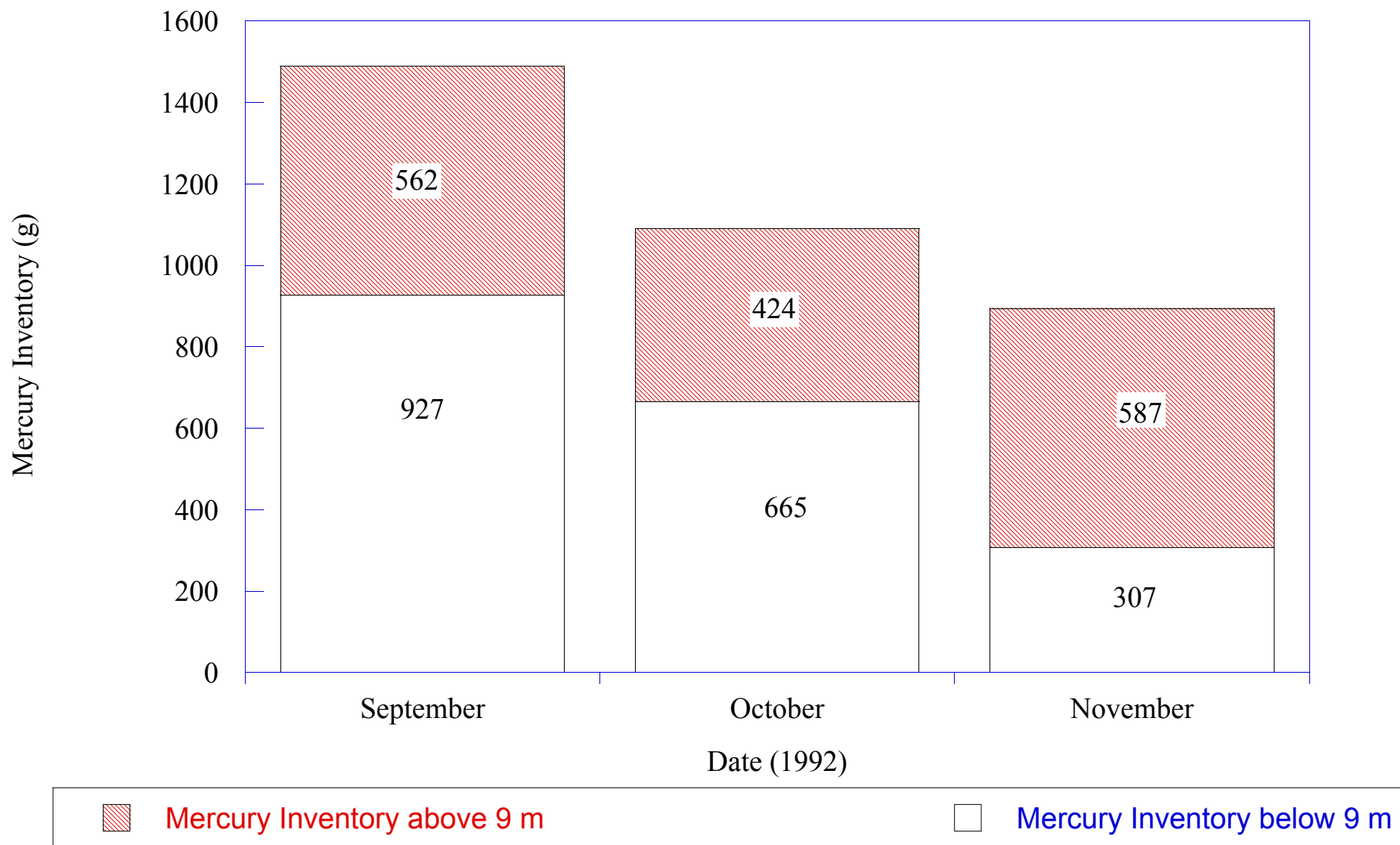


Figure 6-15
Mercury Inventory in Onondaga Lake (1992)

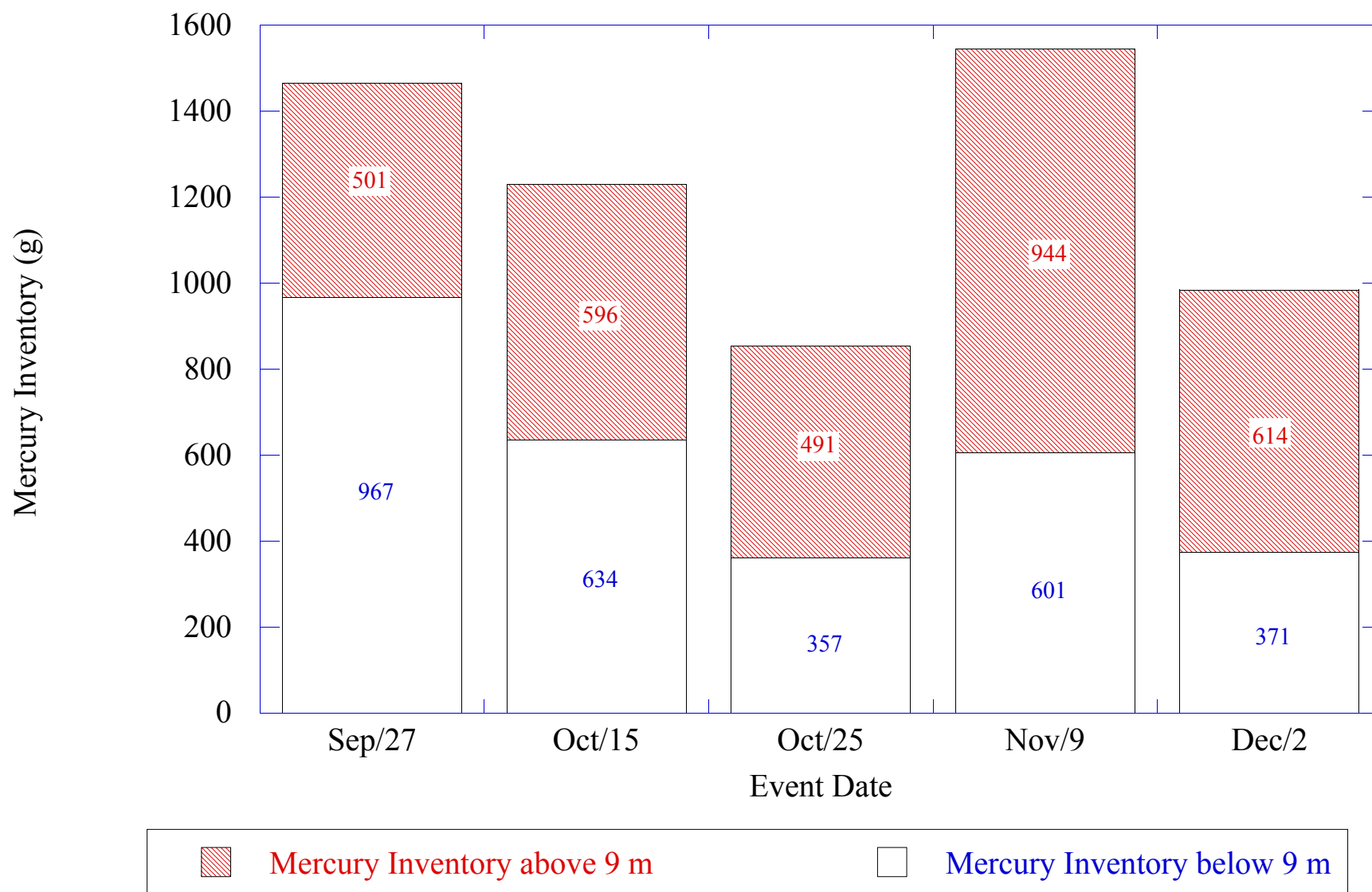
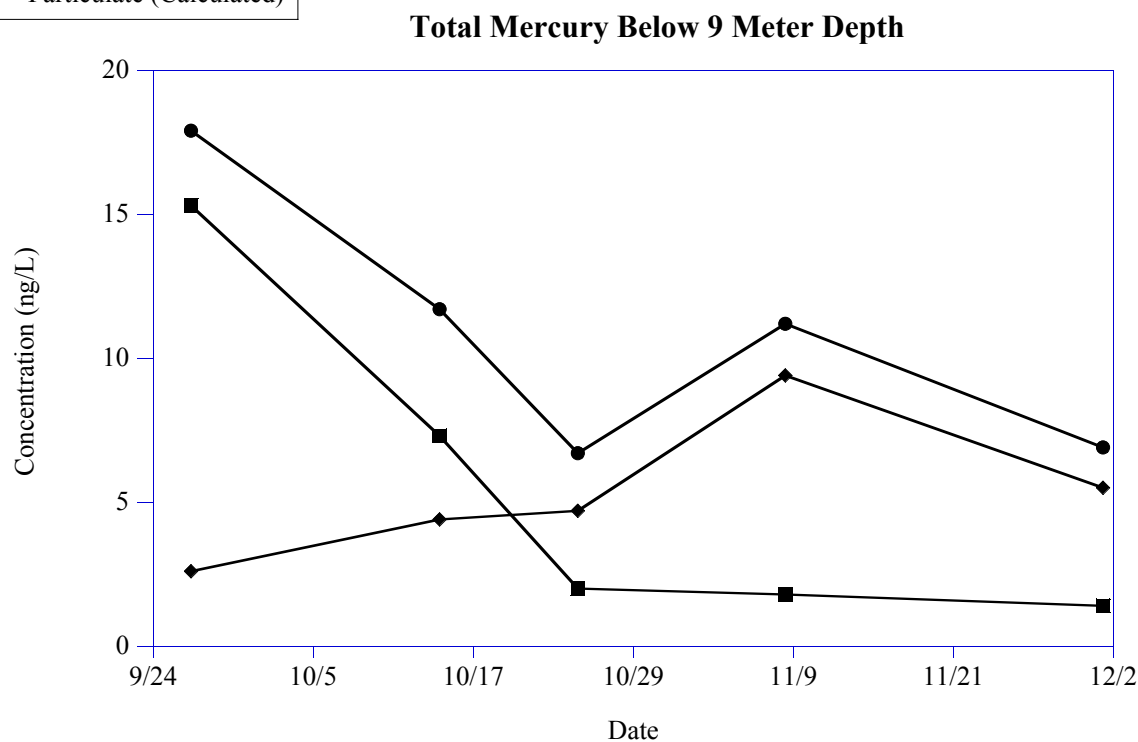
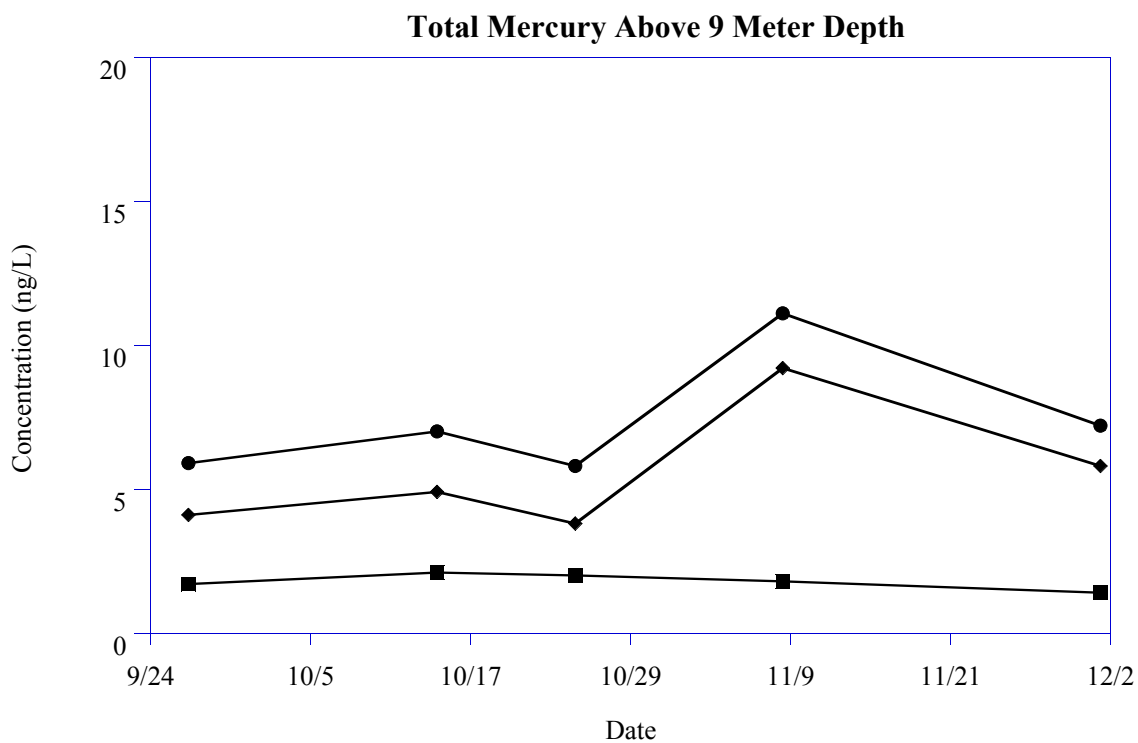


Figure 6-16
Mercury Inventory in Onondaga Lake (1999)



Note: Concentrations are volume weighted averages

Figure 6-17
Total Mercury Above and Below 9 Meter Depth (1999)

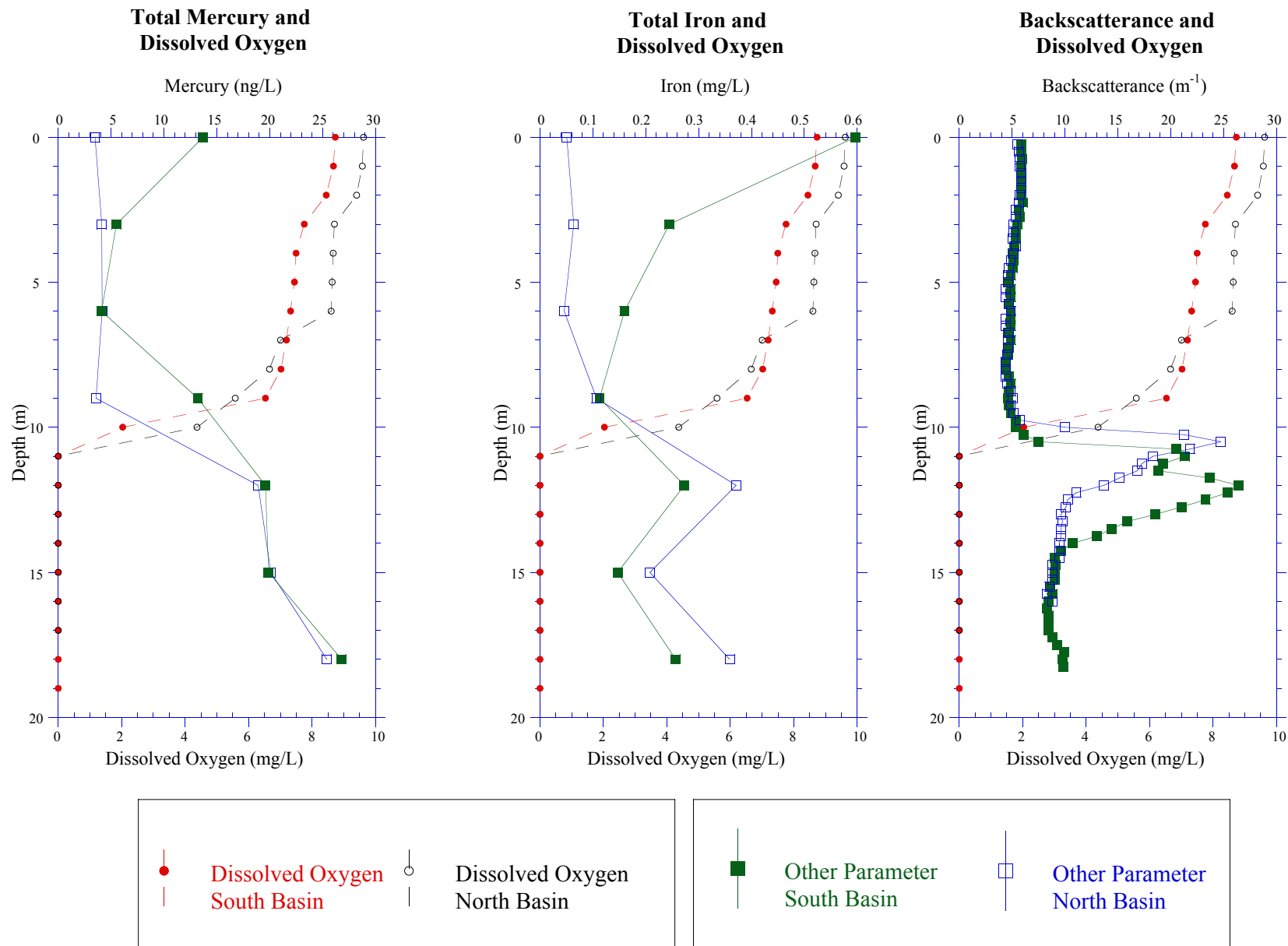


Figure 6-18
Comparison of Total Mercury, Iron and Backscatterance for Event 1, 9/27/99

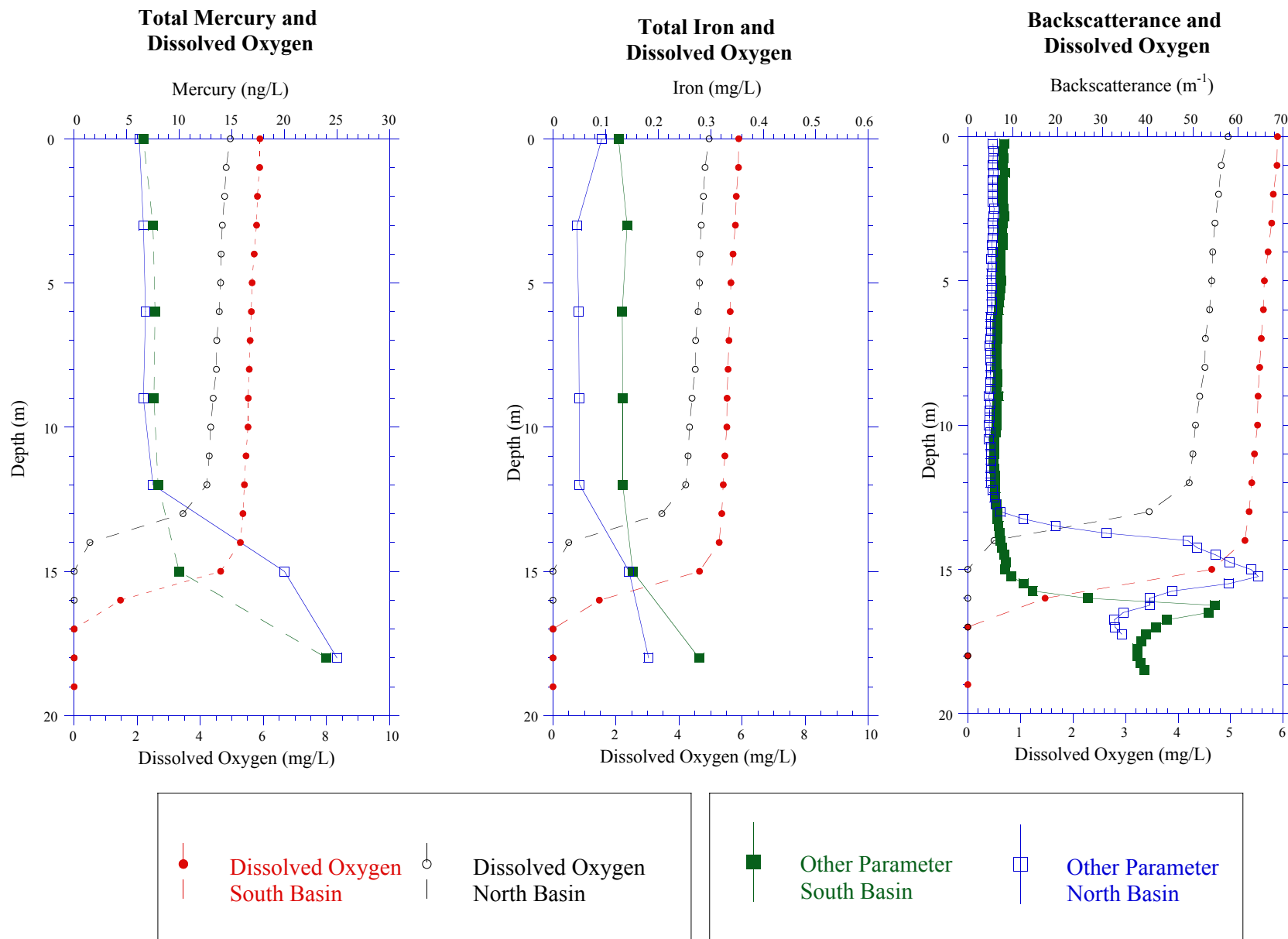


Figure 6-19
Comparison of Total Mercury, Iron and Backscatterance for Event 2, 10/15/99

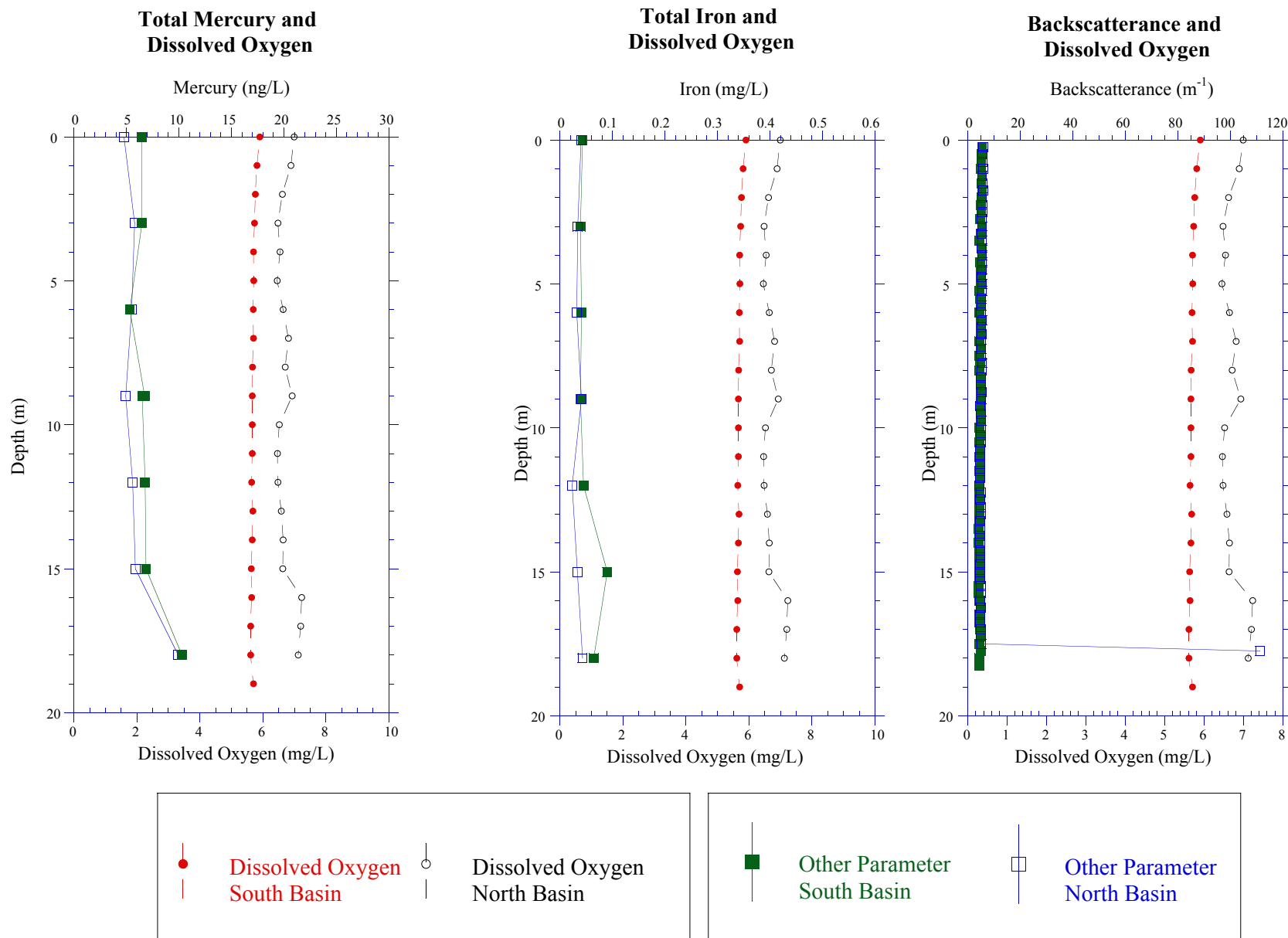


Figure 6-20
Comparison of Total Mercury, Iron and Backscatterance for Event 3, 10/25/99

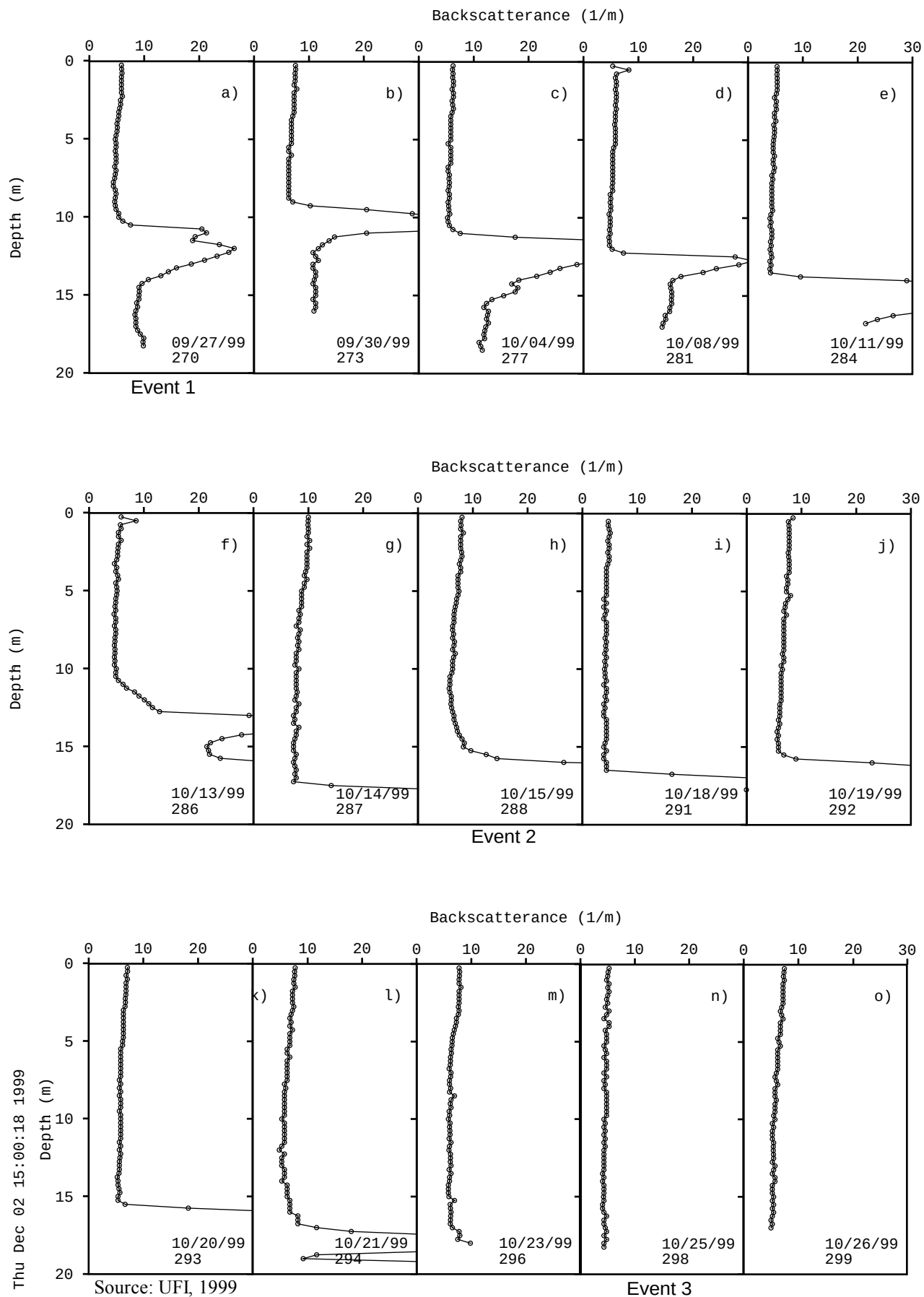


Figure 6-21
1999 Backscatterance Profiles for Onondaga Lake: South Deep

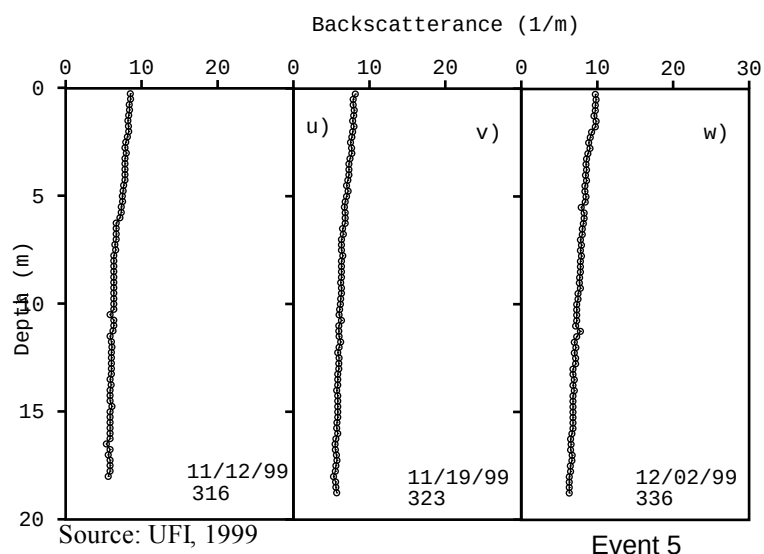
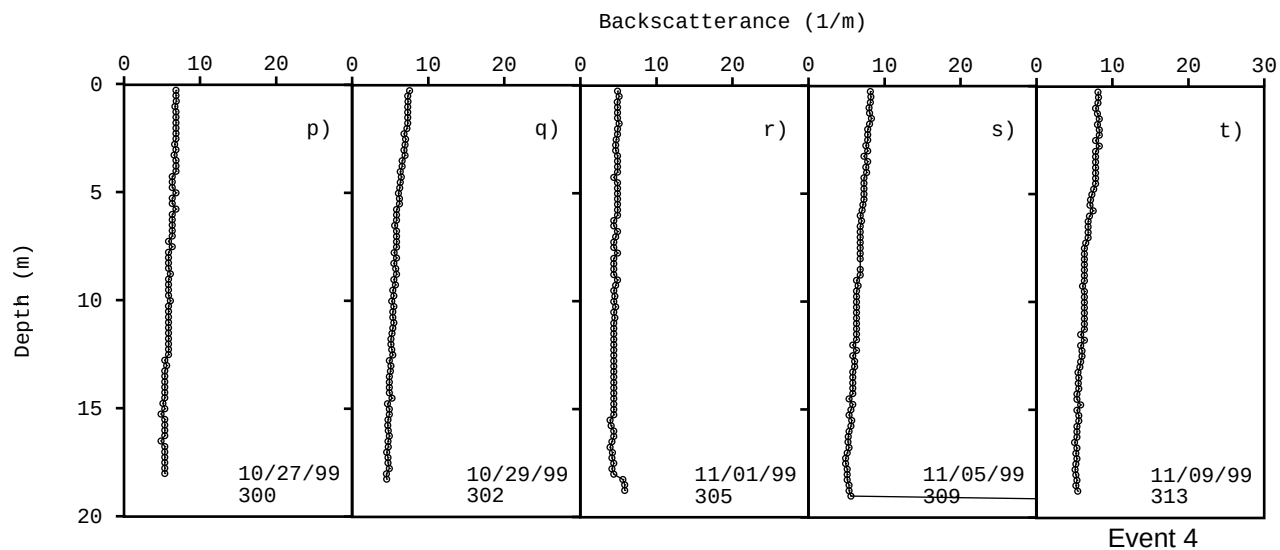


Figure 6-21
1999 Backscatterance Profiles for Onondaga Lake: South Deep

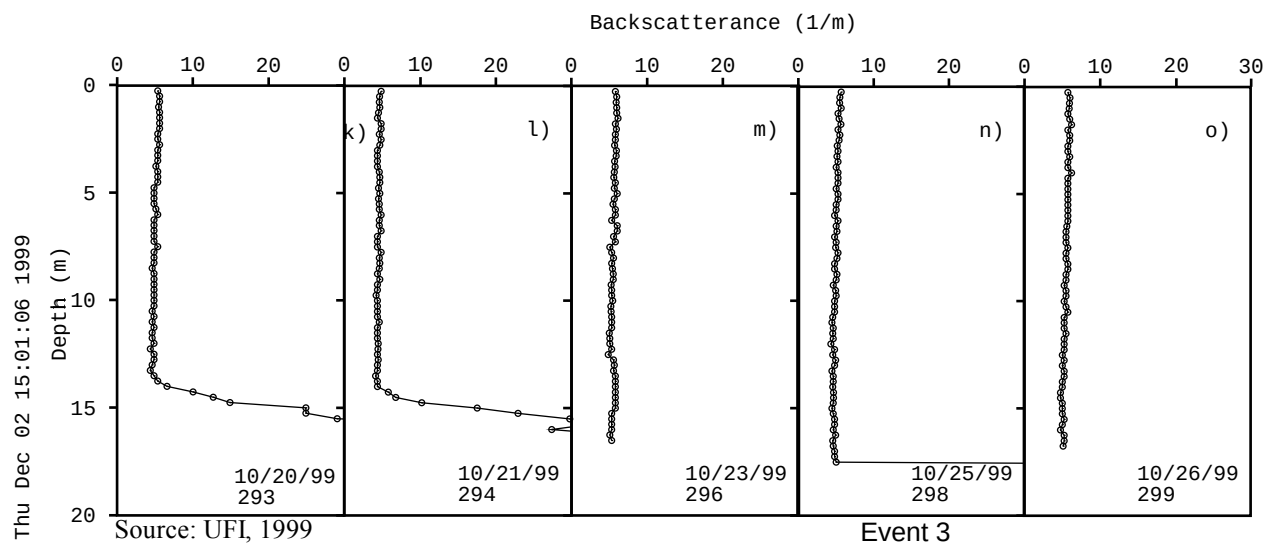
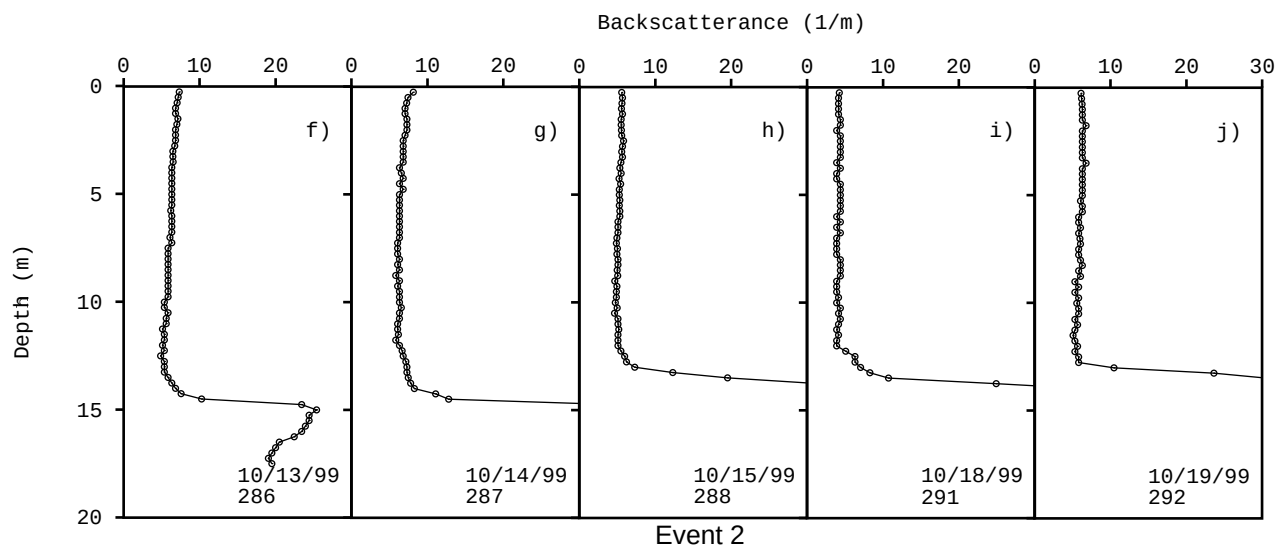
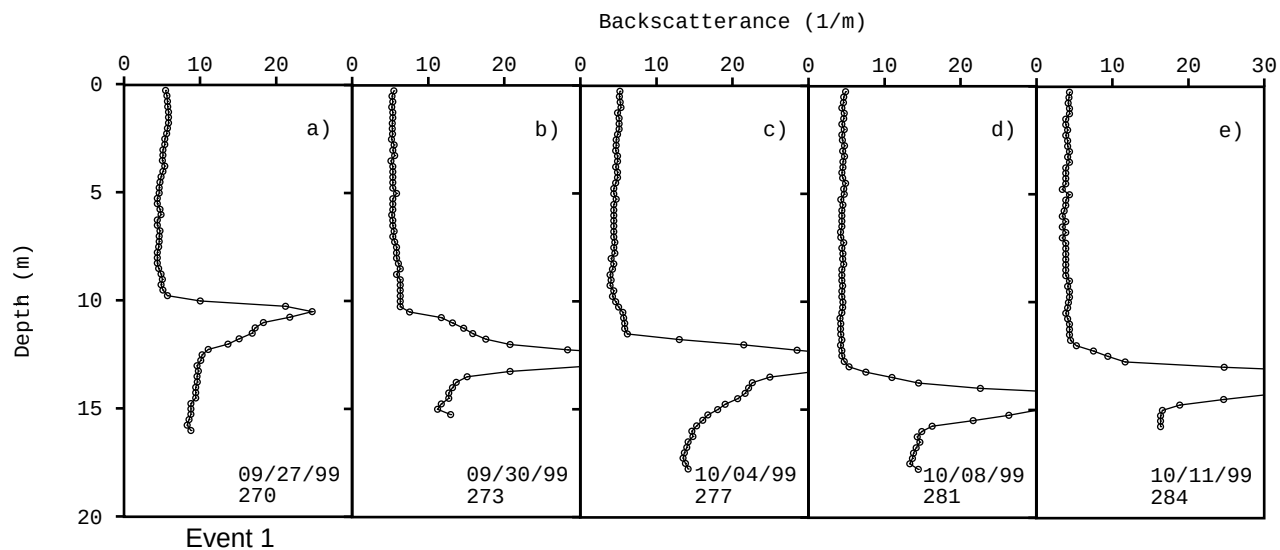


Figure 6-22
1999 Backscatterance Profiles for Onondaga Lake: North Deep

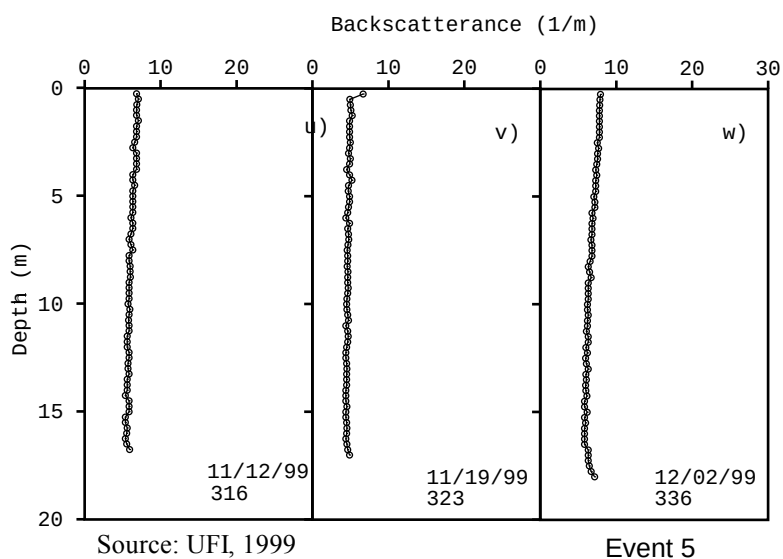
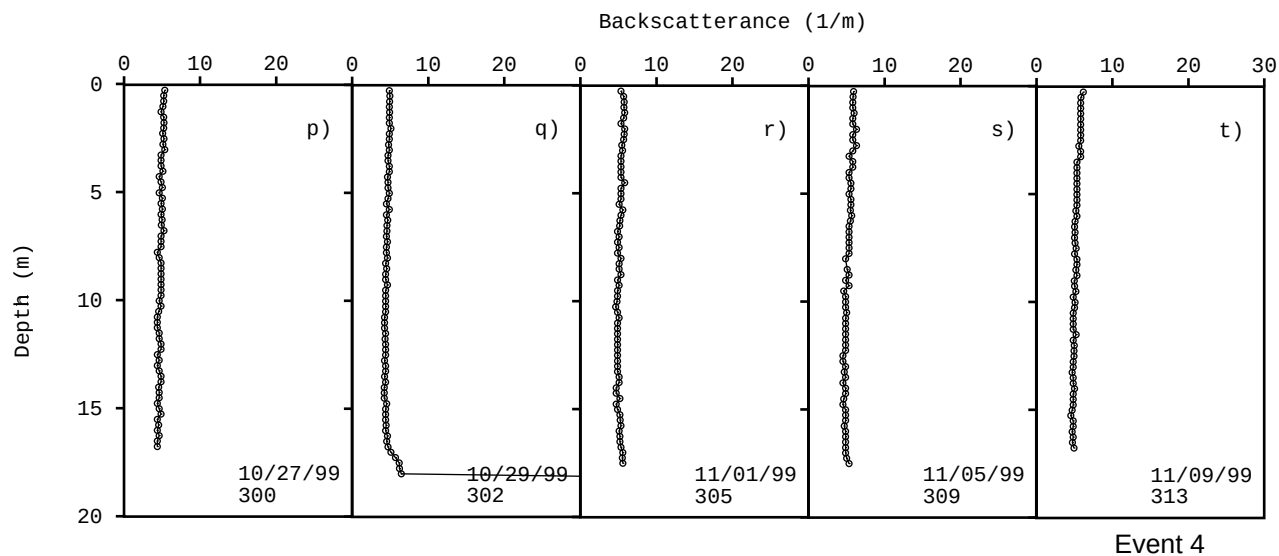


Figure 6-22
1999 Backscatterance Profiles for Onondaga Lake: North Deep

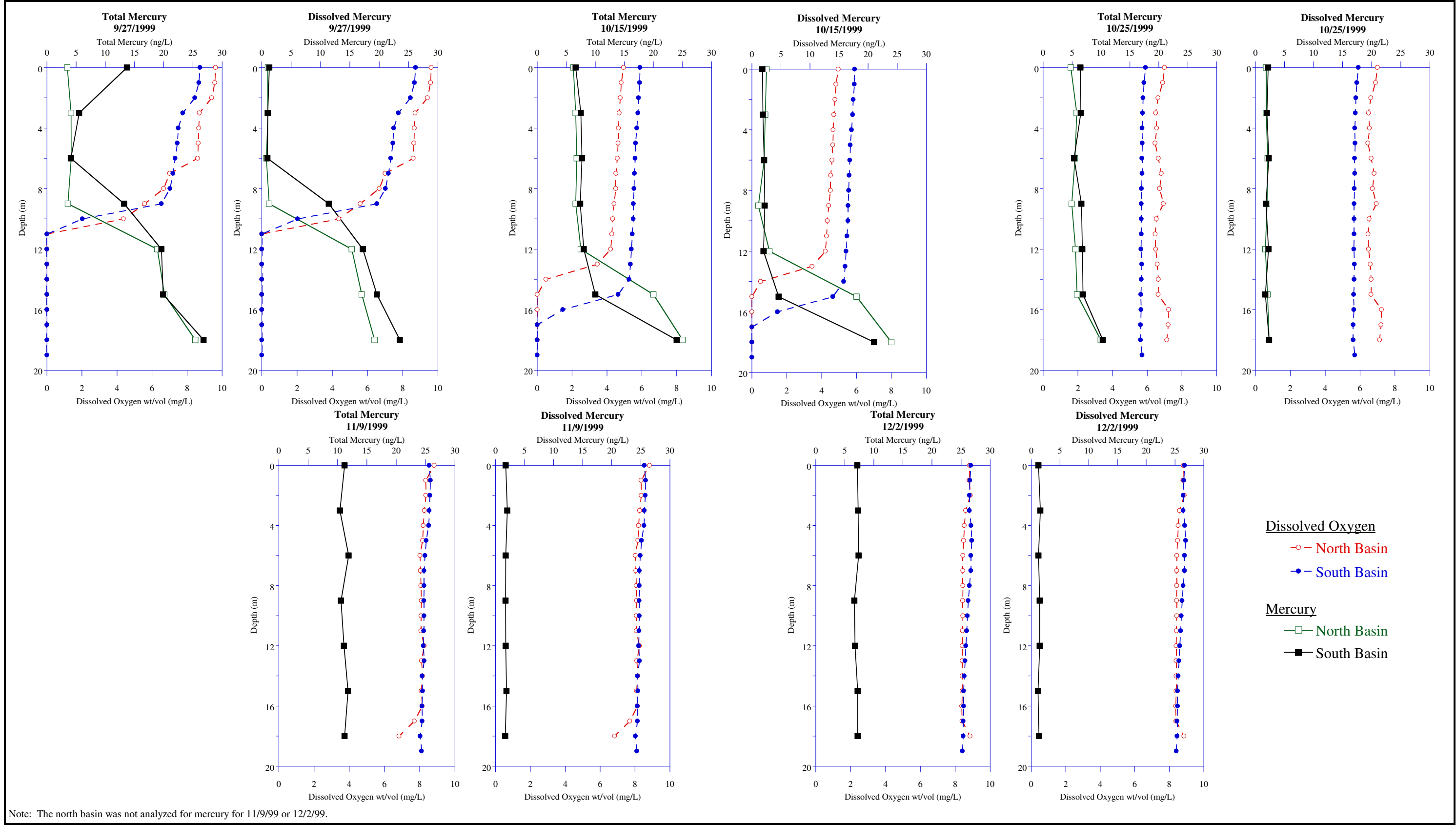
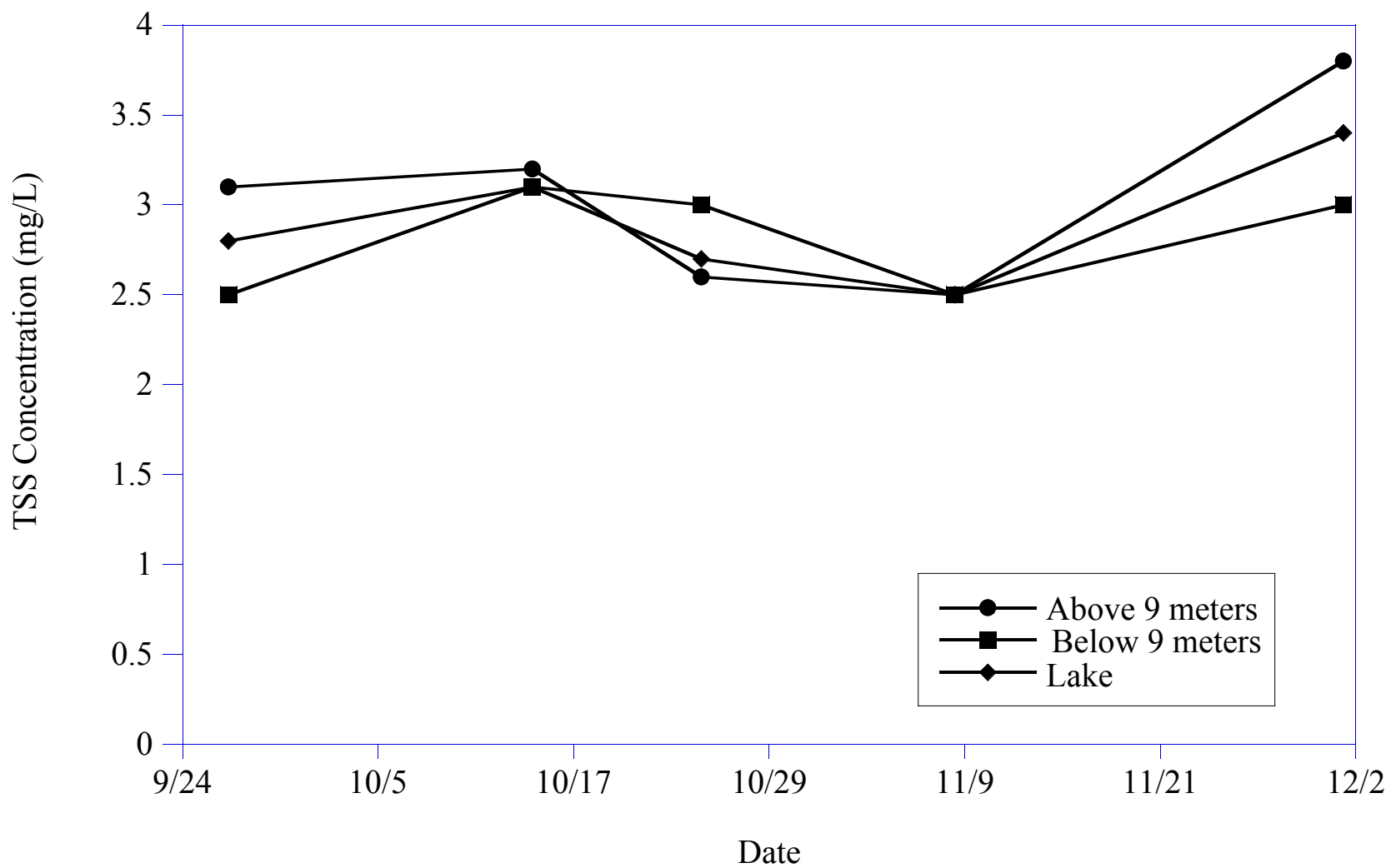
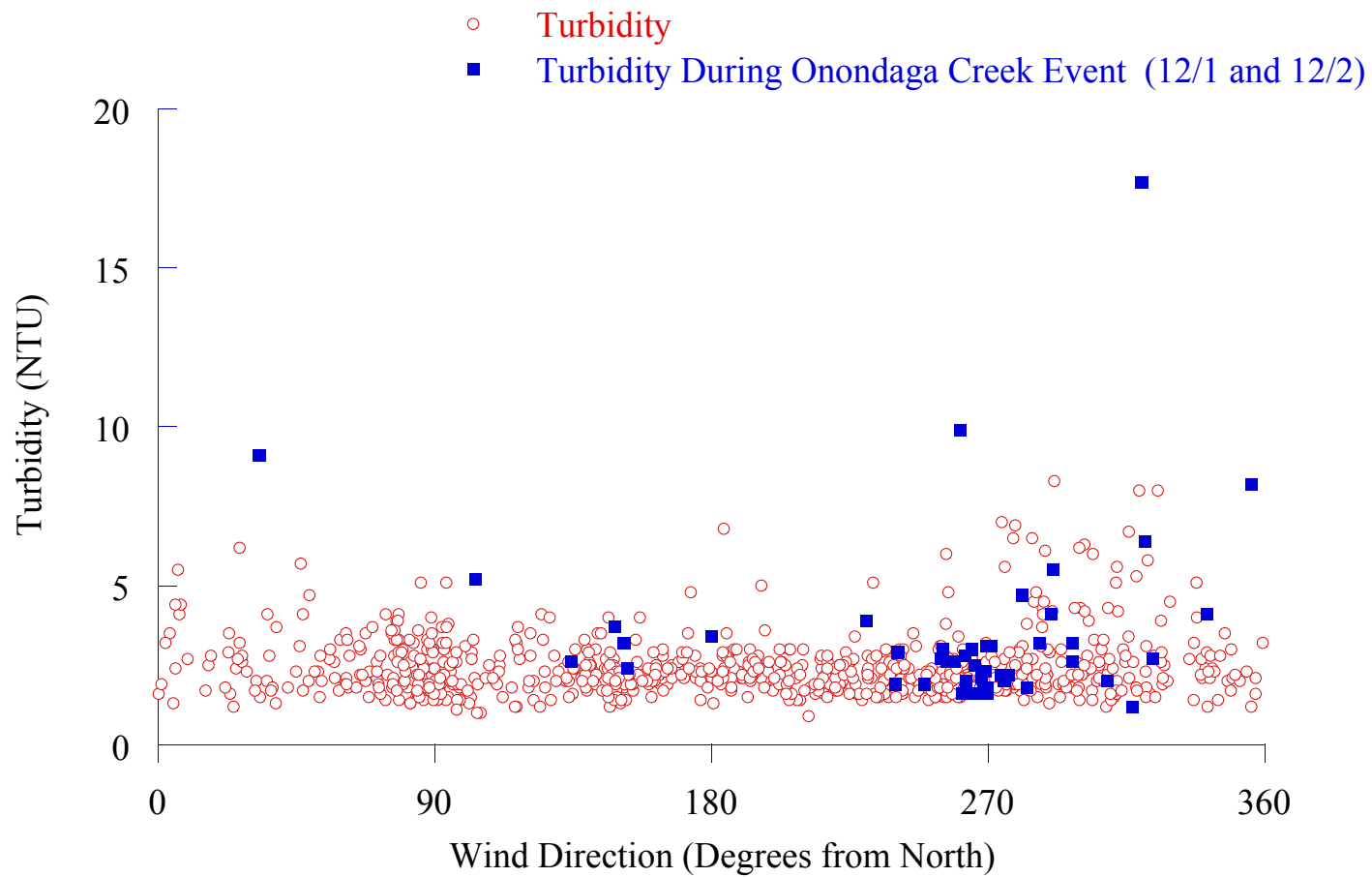


Figure 6-23
Mercury and Dissolved Oxygen Profiles



Note: Concentrations are volume weighted averages

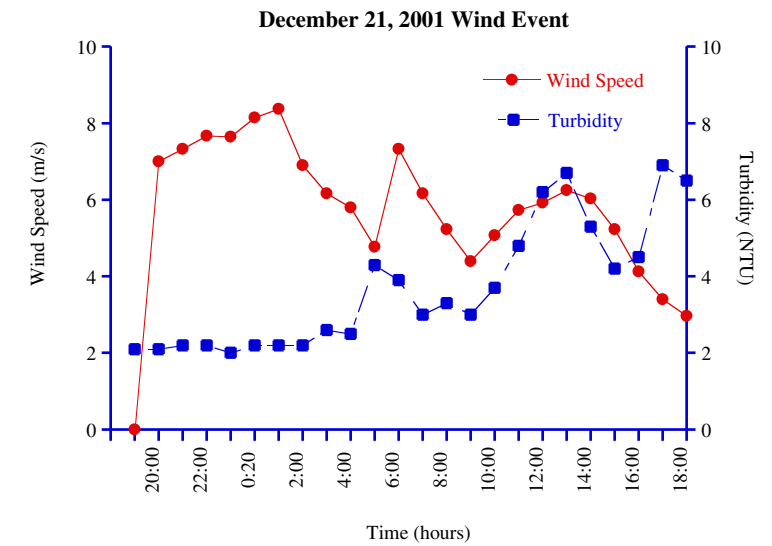
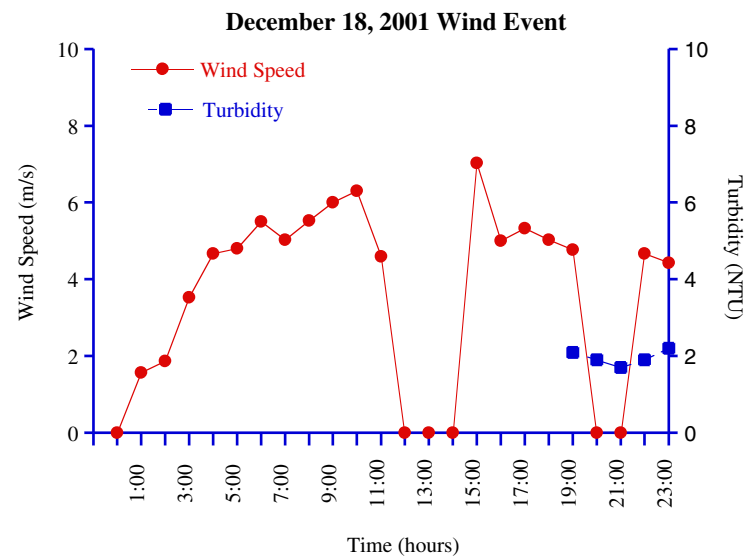
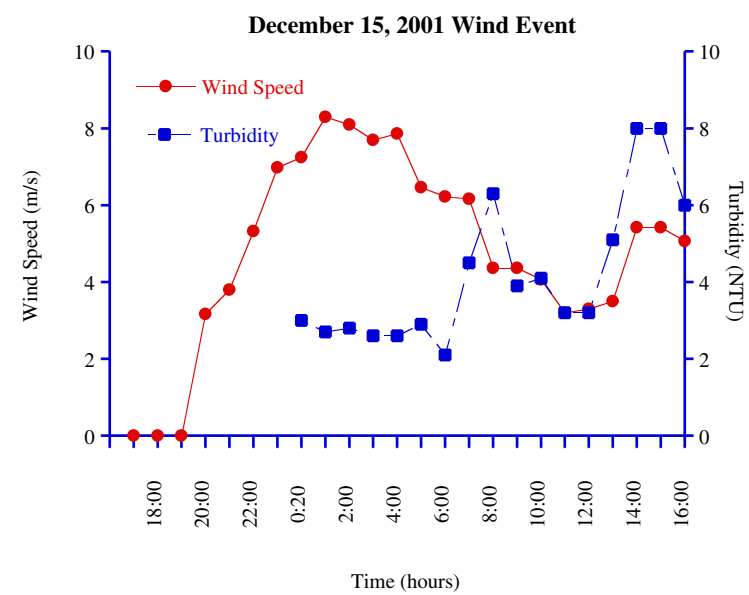
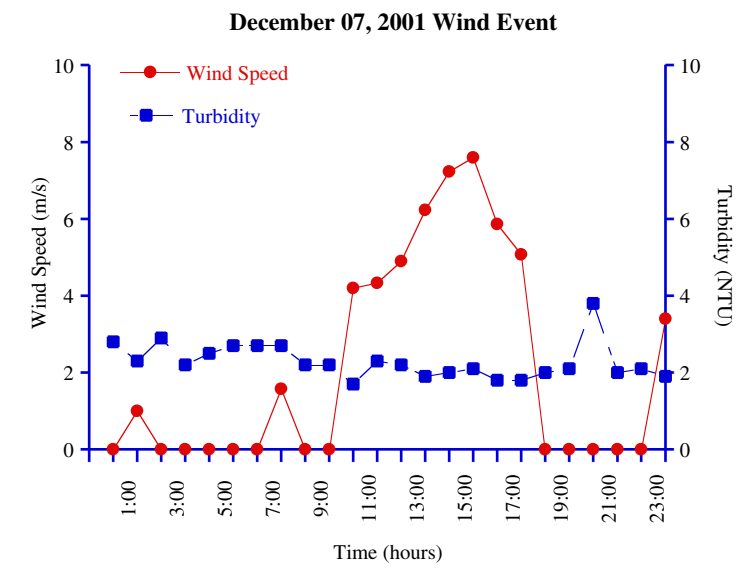
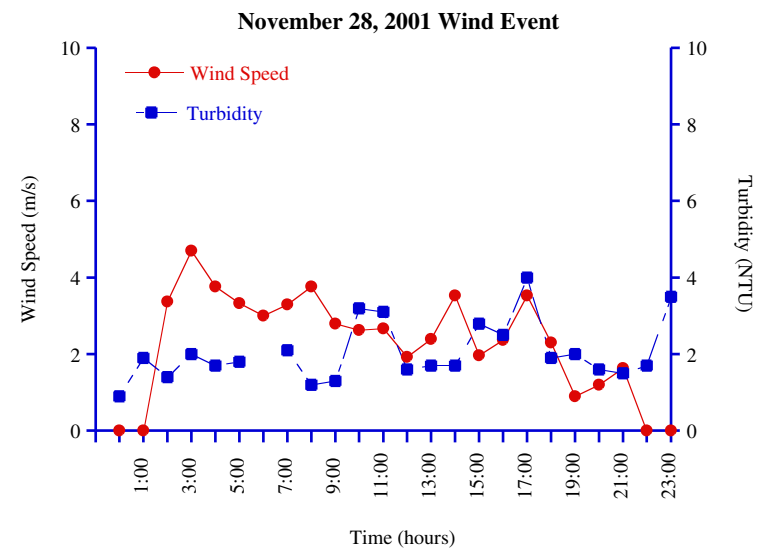
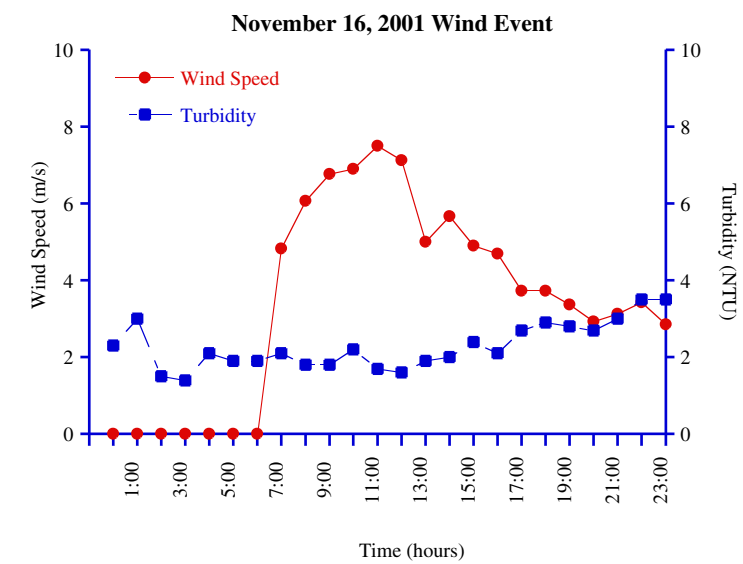
Figure 6-24
Total TSS in Onondaga Lake (1999)



Note:
1. Data were collected hourly from November 14, 2001 through December 26, 2001, excluding December 3.

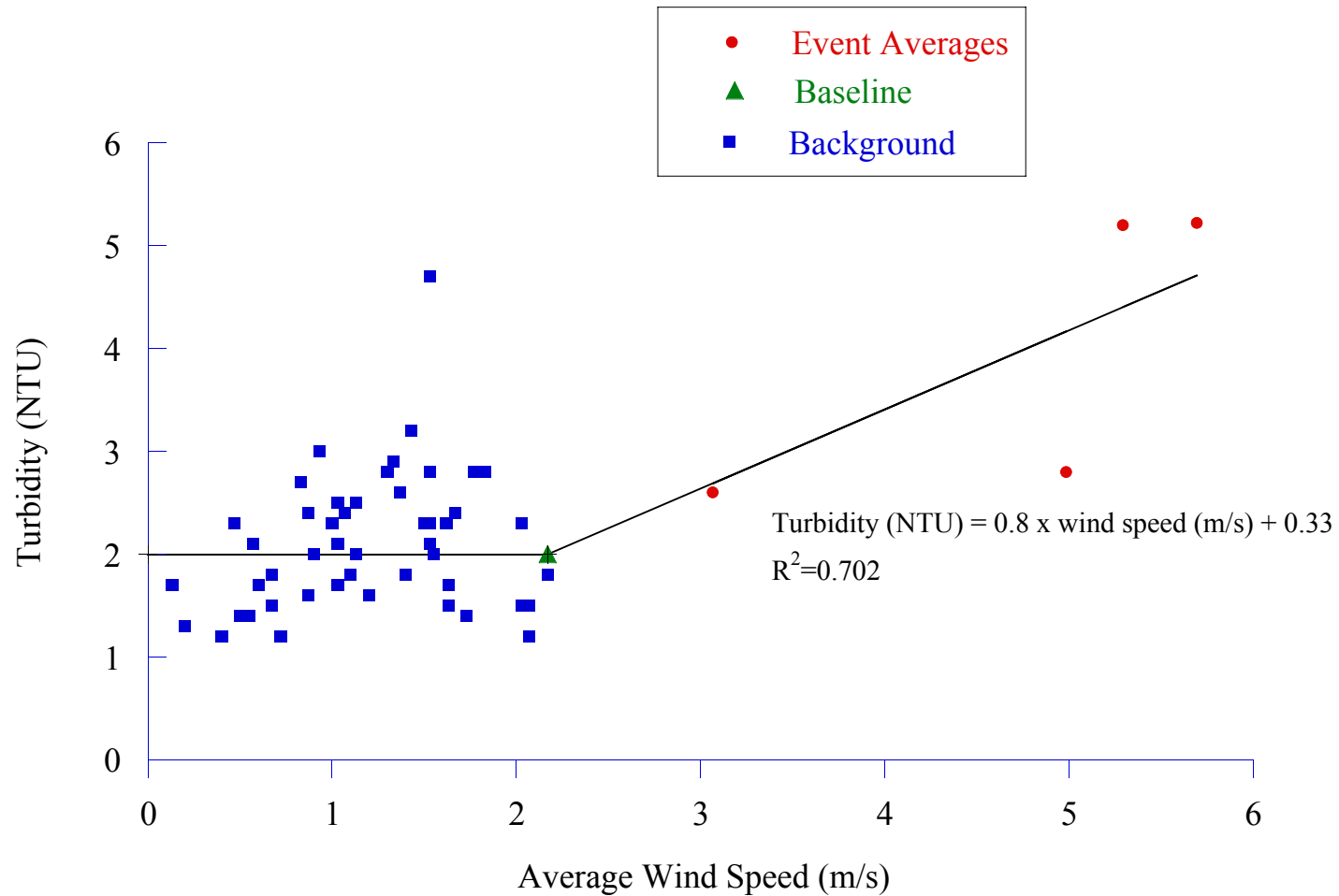
TAMS

Figure 6-25
Turbidity and Wind Direction in Onondaga Lake (2001)



Note:
1. For wind speed, only data for northwest winds are included. For all others, the wind speed is set to zero.

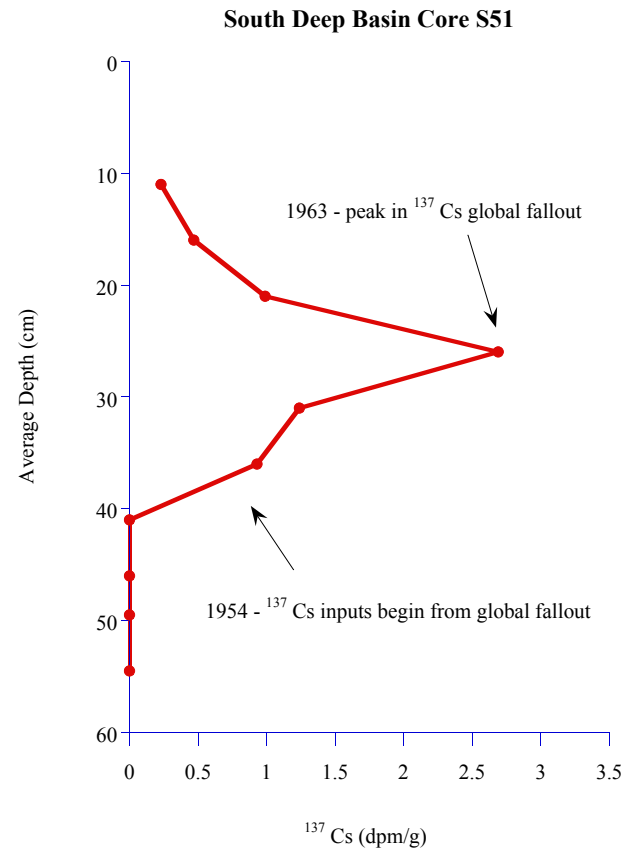
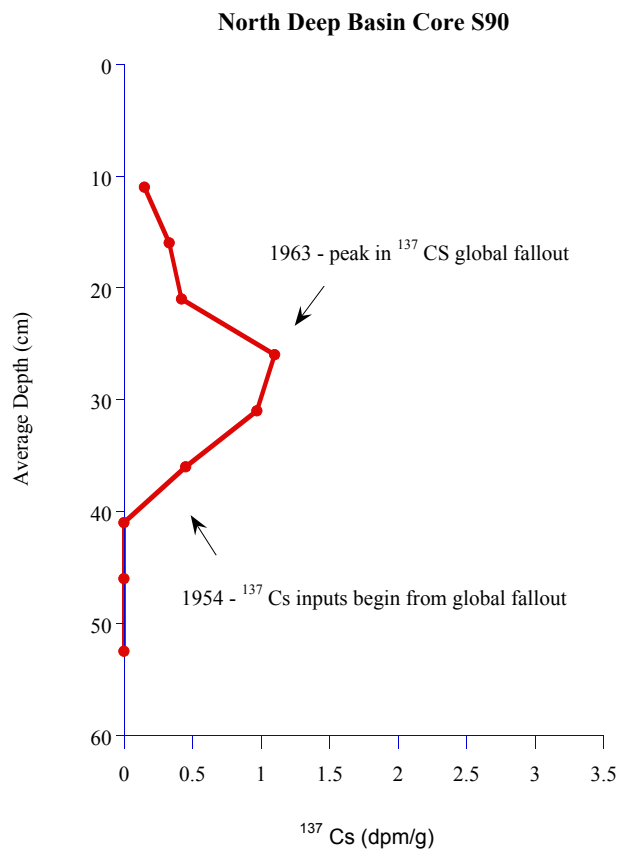
Figure 6-26
Turbidity and Wind Speed During Wind Events (2001) in Onondaga Lake



Notes:

1. These data were collected hourly from November 14, 2001 through December 26, 2001, excluding December 3.
2. Raw data used as described in Section 6.1.3.
3. Event averages include data for northwest winds collected on November 16, November 28, December 15, and December 21.
4. The baseline is the average of all data for northwest winds with speeds less than 2.17 m/s.
5. Background points include data for northwest winds with speeds less than 2.17 m/s.

Figure 6-27
Turbidity and Average Wind Speed in Onondaga Lake (2001)

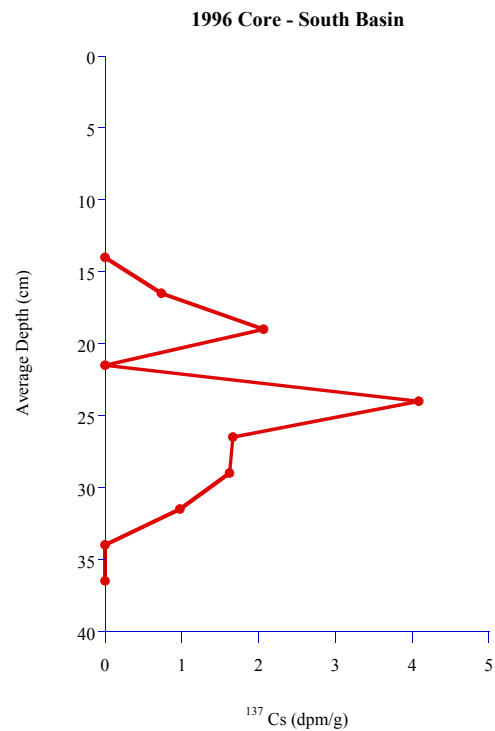
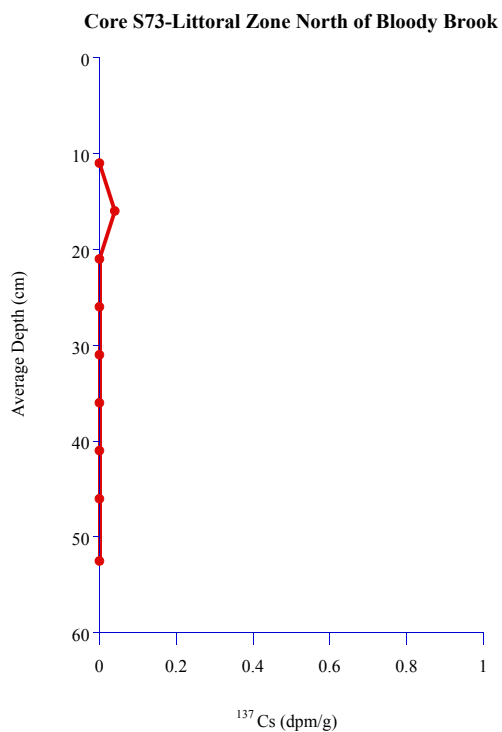
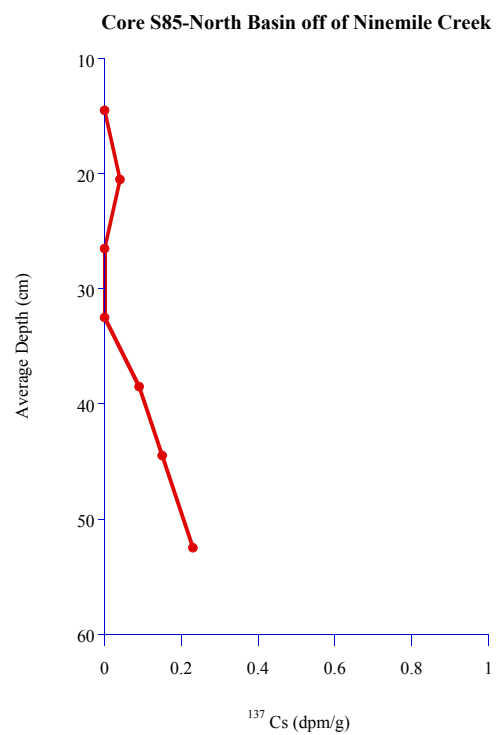
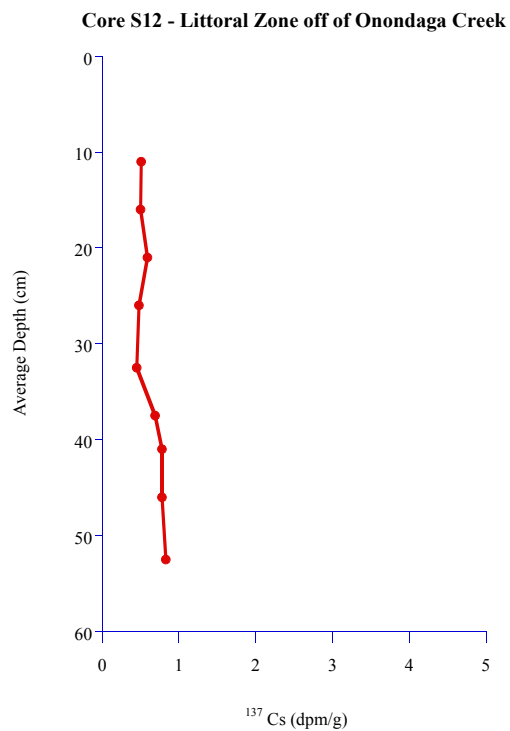


Note:

¹³⁷Cs was not analyzed at every depth interval where metals were analyzed or above 10 cm.

TAMS

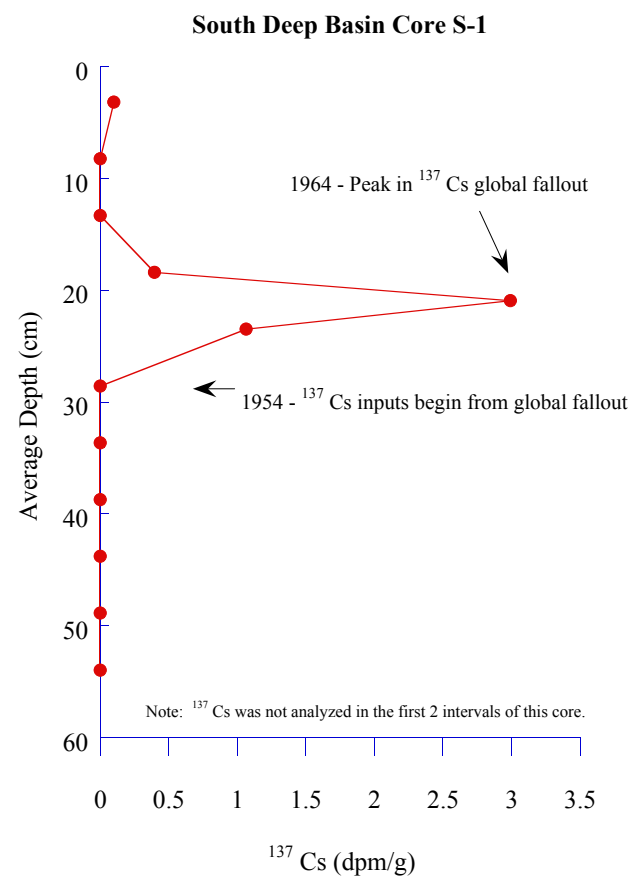
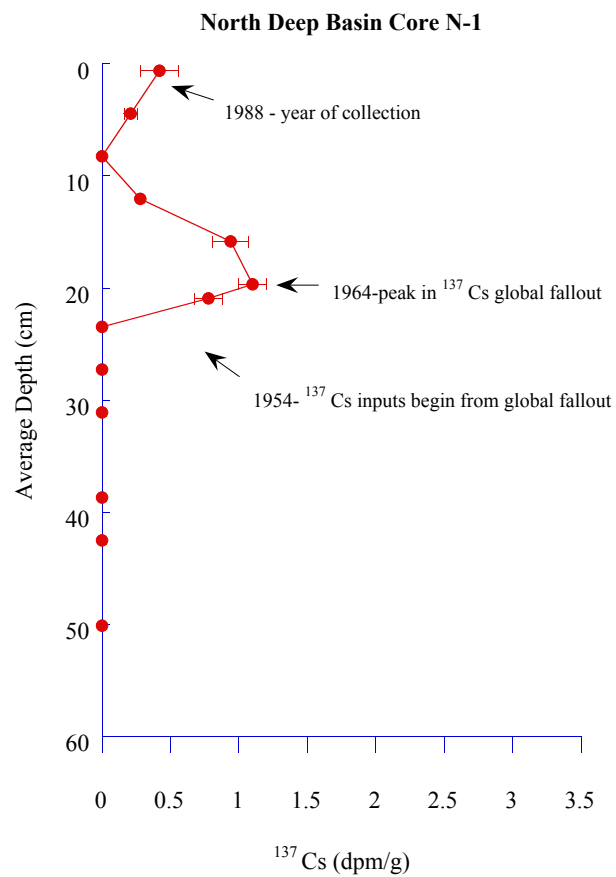
Figure 6-28
¹³⁷Cs Profiles in Sediment Cores from the Deep Basins of Onondaga Lake (1992)



Note:

¹³⁷Cs was not analyzed in every depth interval where metals were analyzed or above 10 cm.

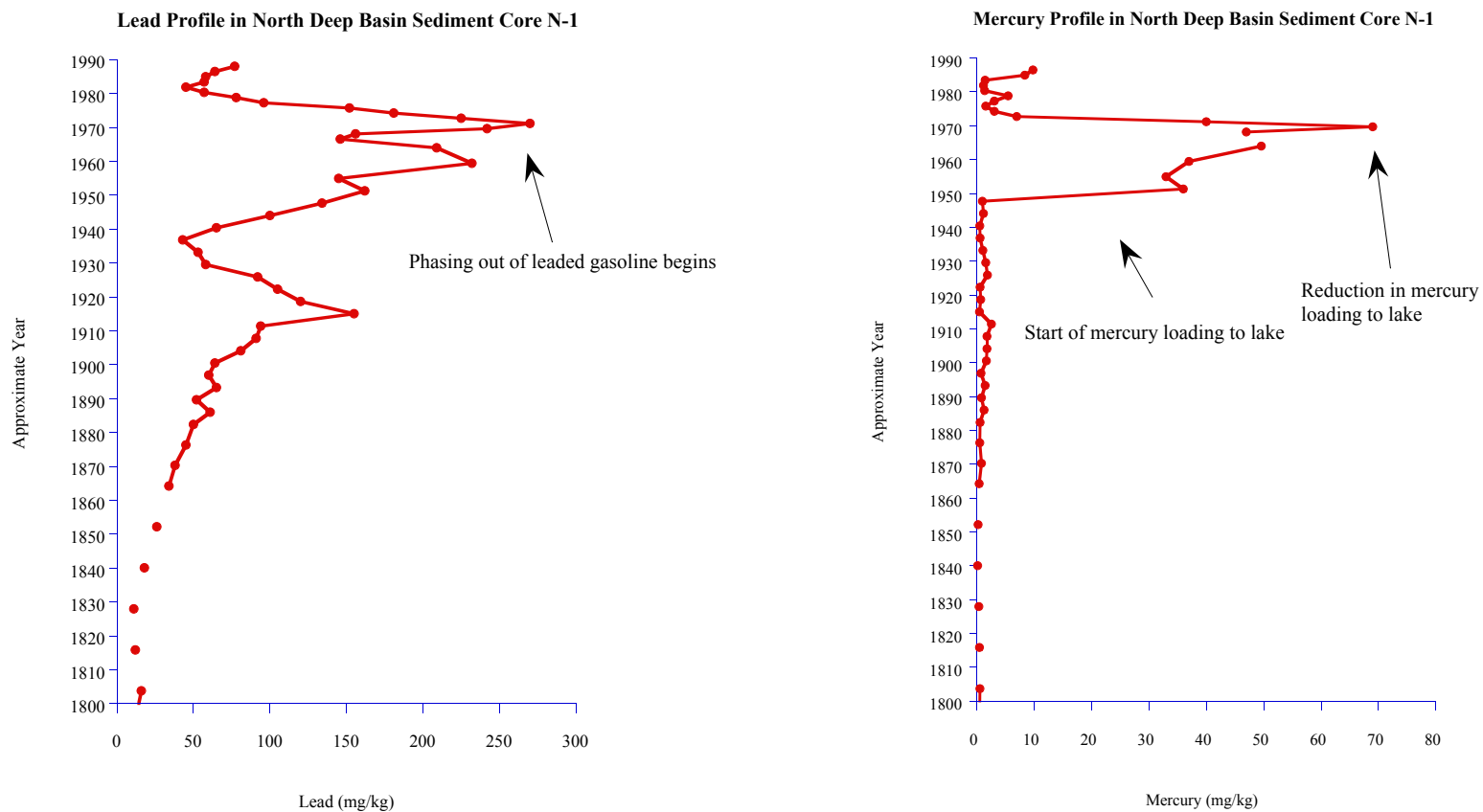
Figure 6-29
¹³⁷Cs Profiles in Sediment Cores from
 Onondaga Lake (1992, 1996)



Source: Data from Rowell, 1992.

TAMS

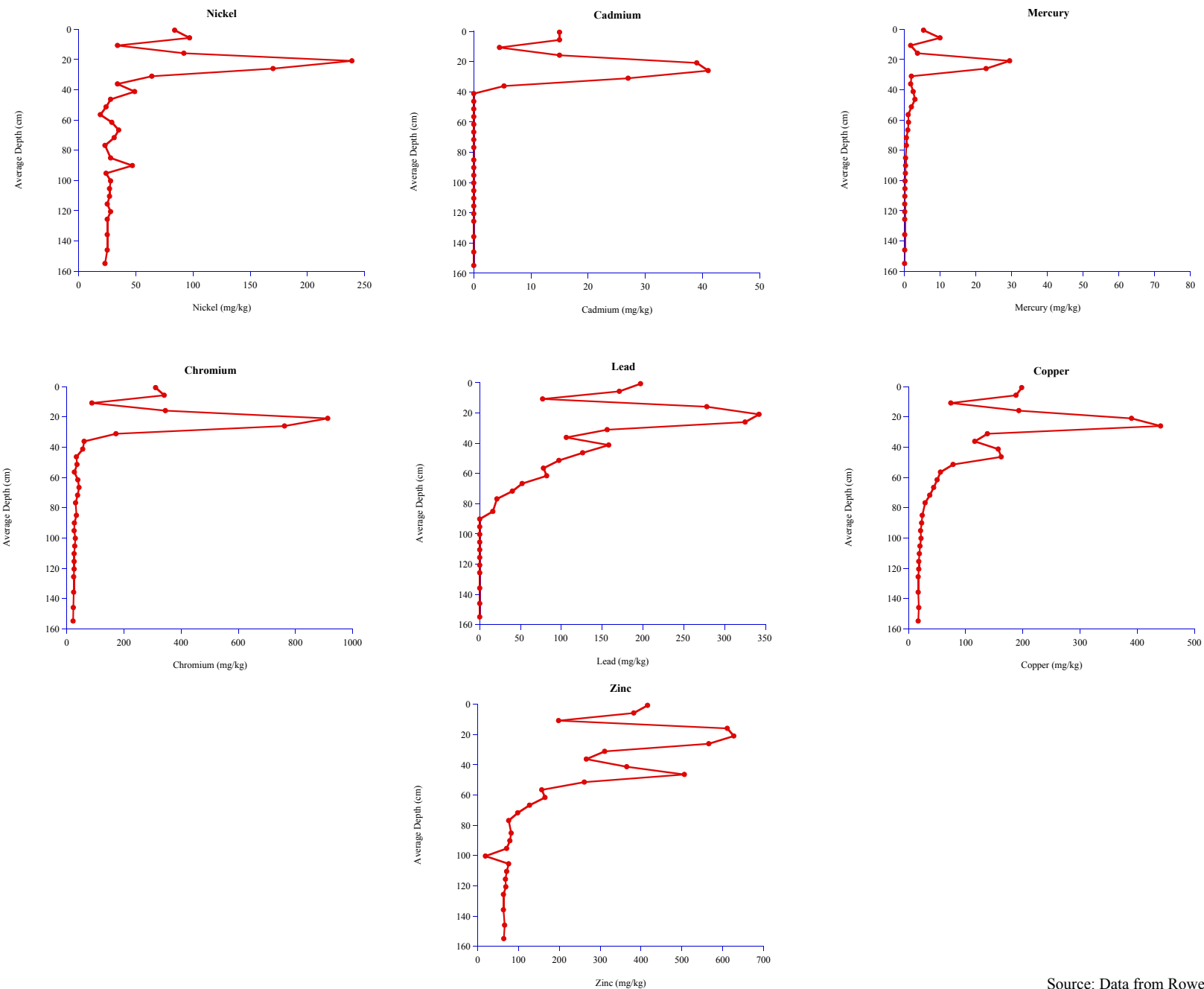
Figure 6-30
 ^{137}Cs Profiles in Sediment Cores from the Deep Basins of Onondaga Lake (1988)



Source: Data from Rowell, 1992.

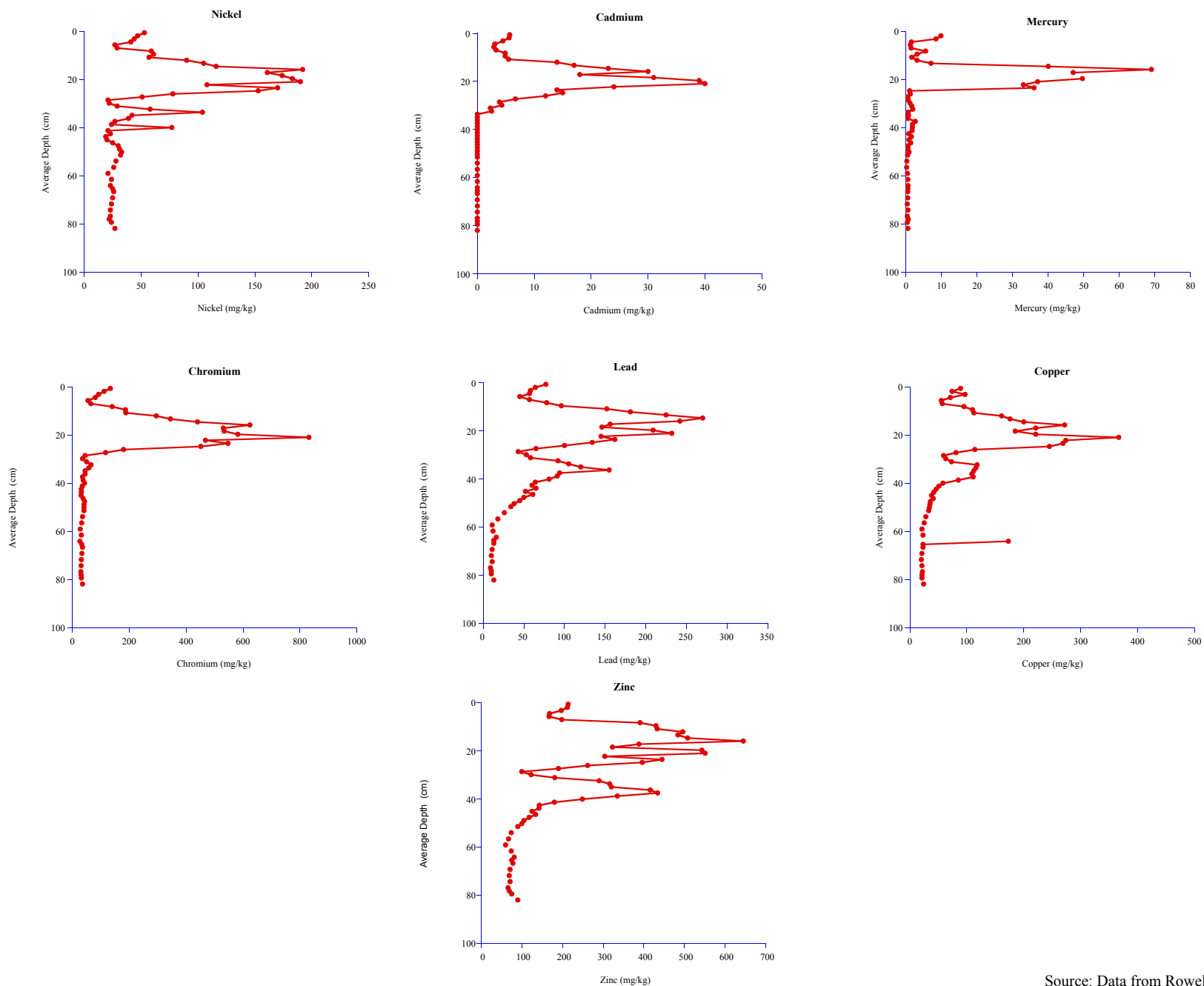
Figure 6-31
Lead and Mercury Profiles in Sediment Cores from the North Deep Basin of Onondaga Lake (1988)

TAMS



Source: Data from Rowell, 1992.

Figure 6-32
Metals in Sediment Core S-1 (1988, South Deep Basin)



Source: Data from Rowell, 1992.

Figure 6-33
Metals in Sediment Core N-1 (1988, North Deep Basin)

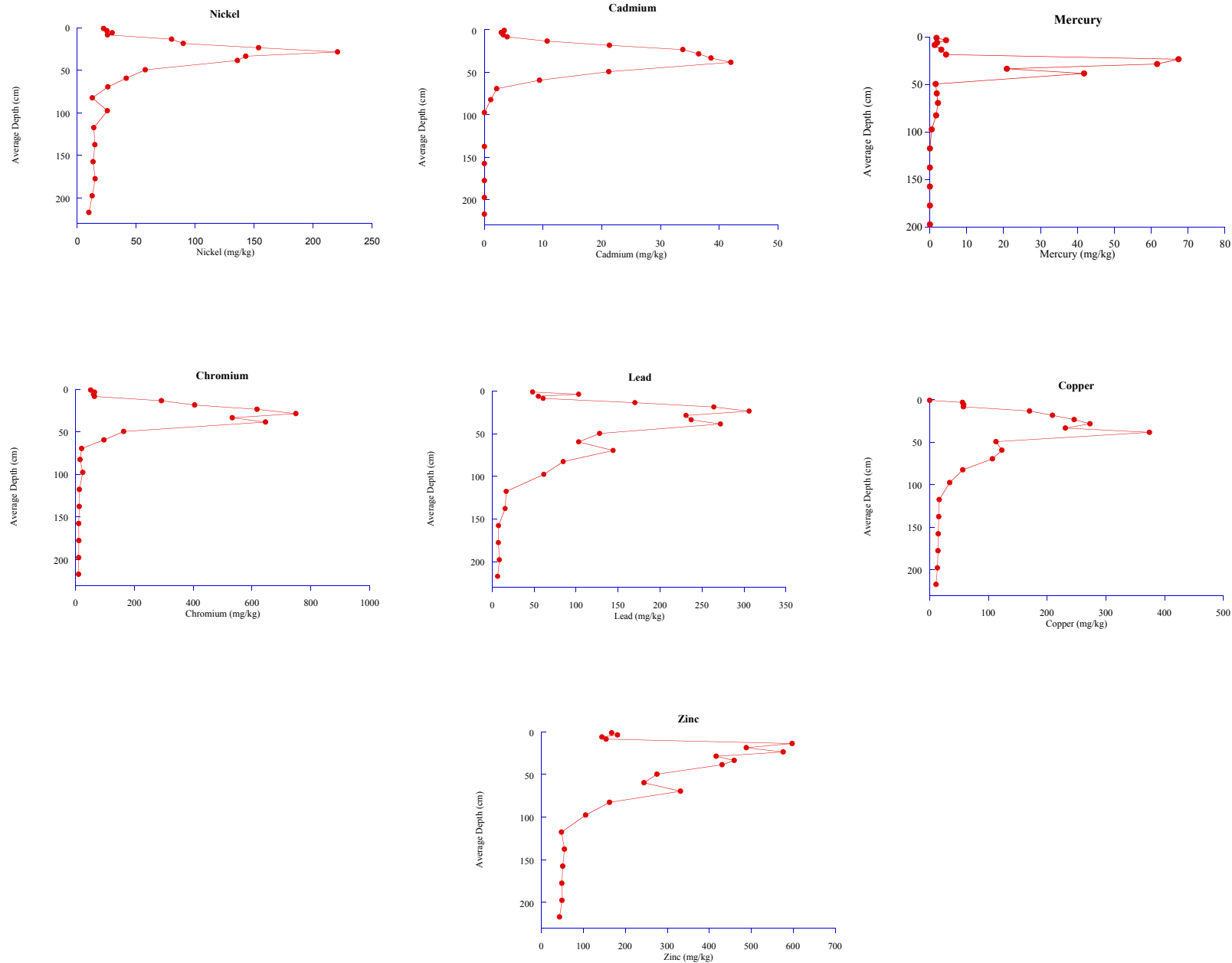


Figure 6-34
Metals in Sediment Core S51 (1992, South Deep Basin)

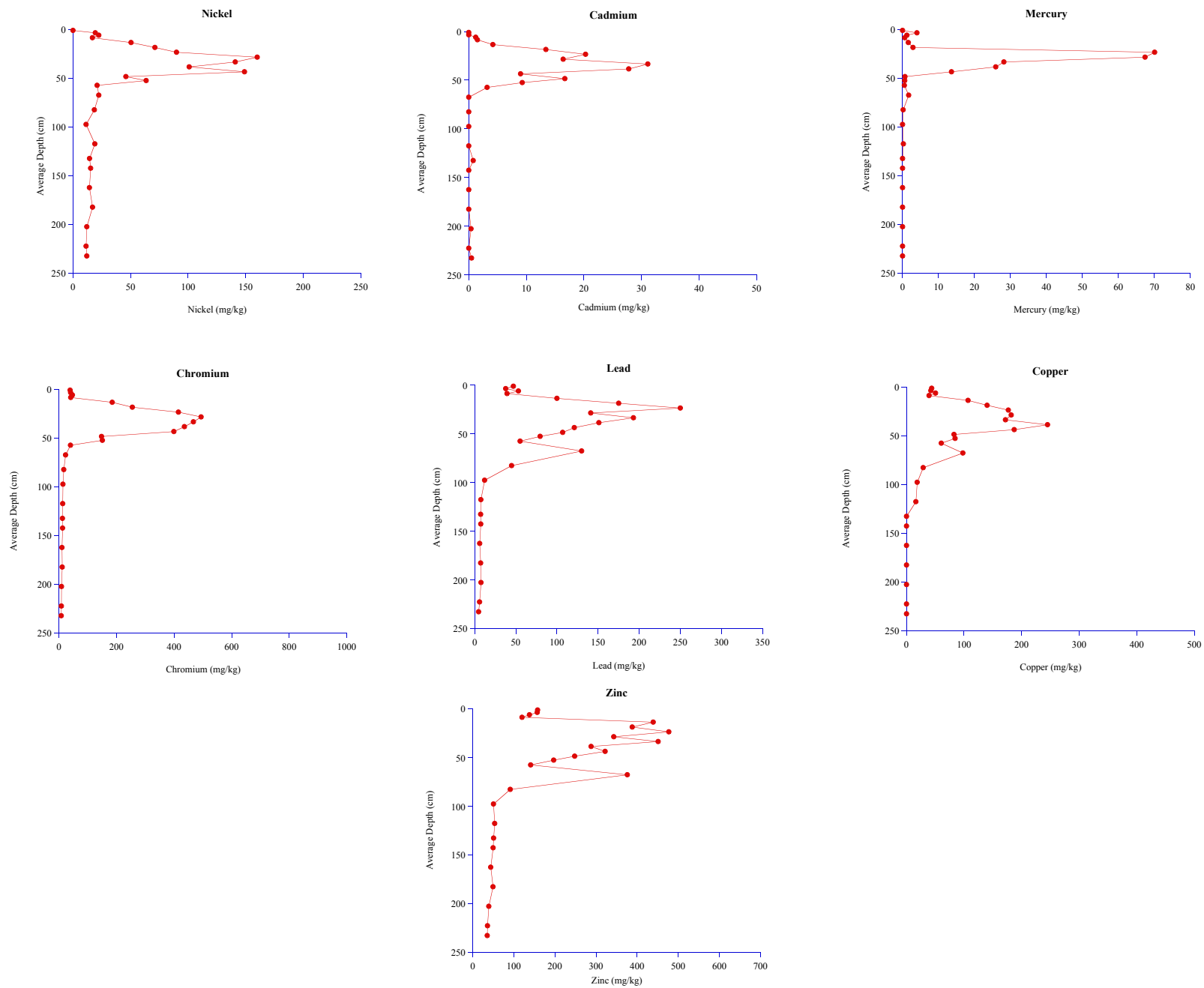
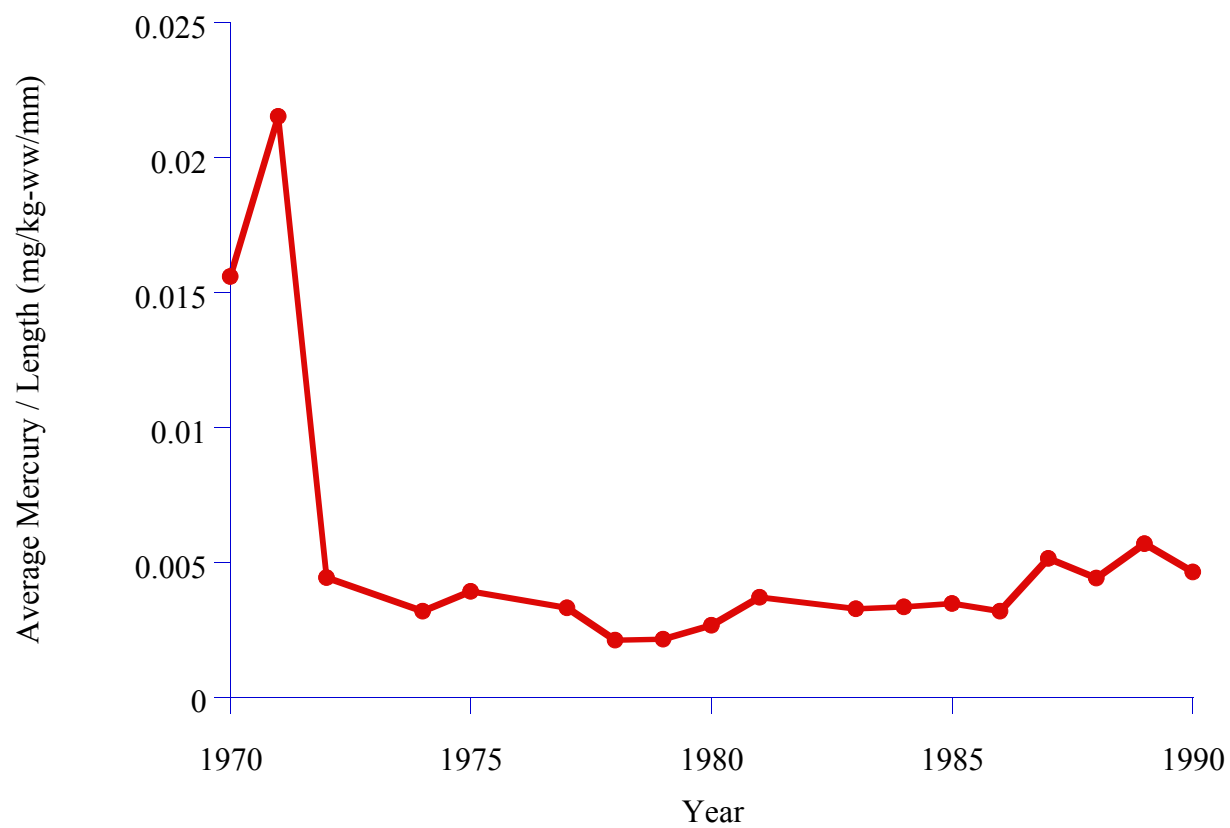
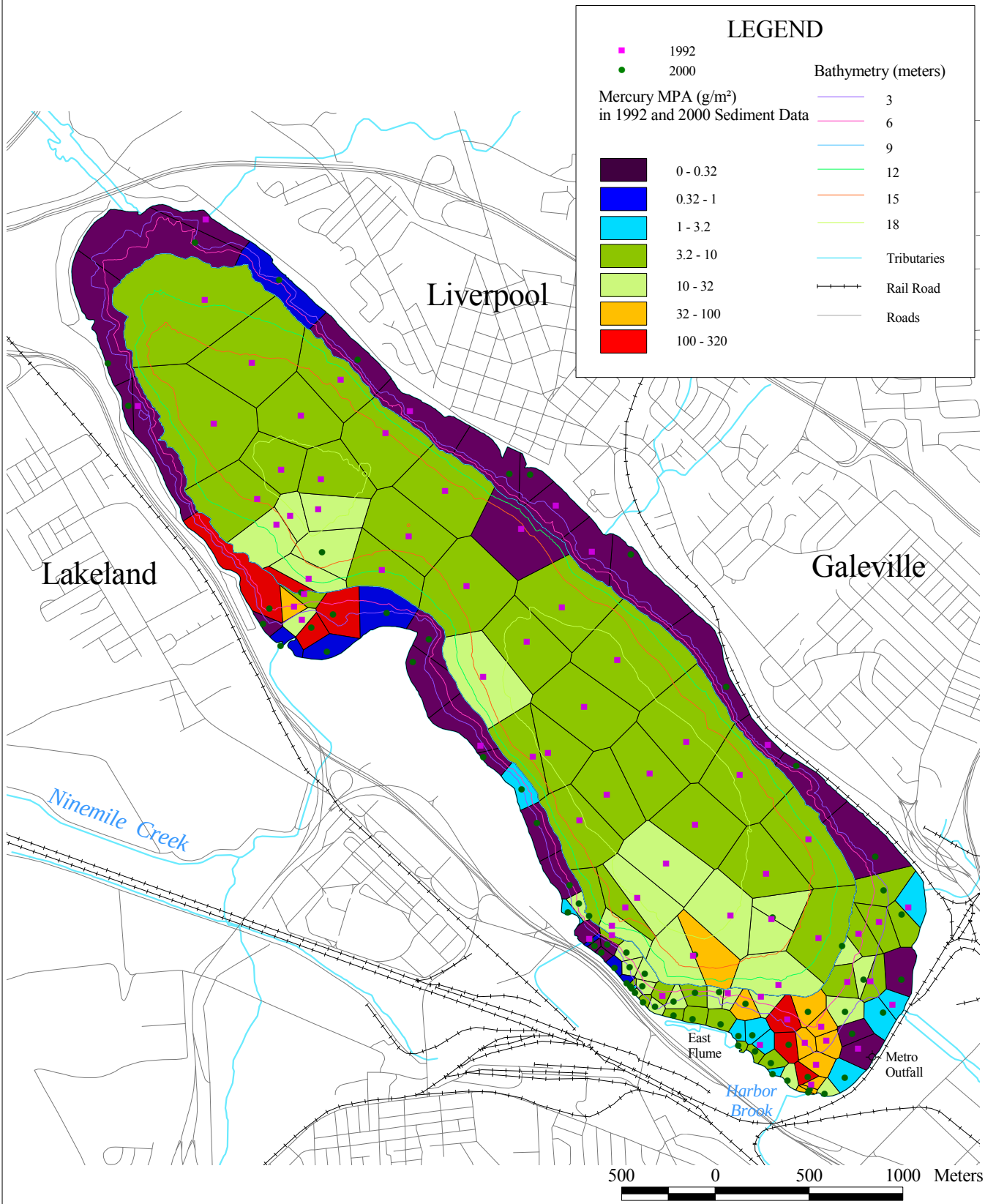


Figure 6-35
Metals in Sediment Core S90 (1992, North Deep Basin)



TAMS

Figure 6-36
Mercury Trend in Smallmouth Bass from Onondaga Lake



Onondaga Lake RI

Figure 6-37
Mercury MPA (g/m^2) in
1992 and 2000 Sediment Data
Thiessen Polygon Estimates

TAMS

