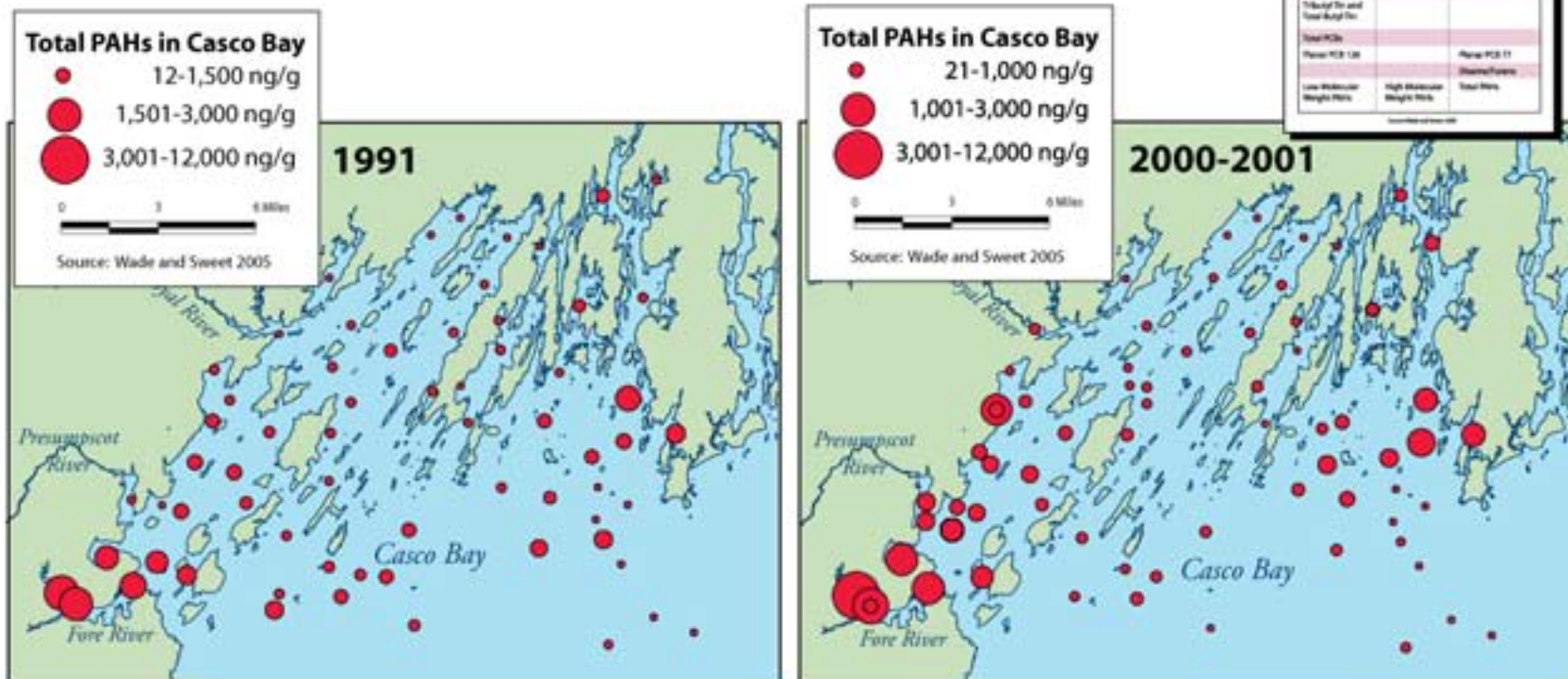


Tributyl tin (TBT) is an ingredient in marine anti-fouling paints. The overall decline of TBT concentrations in the Bay's sediments reflects the effectiveness of the federal and Maine laws which now ban the use of paints with TBT for all uses except for vessels longer than 25 meters or those having aluminum hulls (Maine DEP 1999). The continued use of TBT paints on large commercial vessels may explain the presence of elevated concentrations of TBT in the sediments of inner bay sites.

Change in Concentration of Toxic Chemicals From 1991/1994 to 2000/2001 in Casco Bay Sediments

Decreased	Increased	No Overall Change
Cadmium	Silver	Arsenic
Chromium		Copper
Mercury		Lead
Nickel		Zinc
Selenium		
Total PCBs, 4,4'-DDE, 4,4'-DDD and total DDTs		
Total PAHs and Total B[a]P		
Total PCBs		
Polynuclear Naphthalene		Polynuclear Biphenyl
Low Molecular Weight PAHs	High Molecular Weight PAHs	Total PAHs



Overall the total concentration of PAHs in the sediments has remained unchanged. This suggests that increased use of fossil fuels is balanced by environmental controls that lower the PAH inputs to the Bay (Wade and Sweet, 2005).