



Figure 5.1. Model comparison of winter near-surface (2-m depth) effluent concentrations at the harbor sewage outfalls and at the new Massachusetts Bay (MB) outfall (1990-1992). The black line indicates a concentration of $\frac{1}{2}$ percent (200-fold dilution of effluent), which is approximately the level at which nutrient levels released in the effluent are comparable to background variability. At the harbor outfall locations, high effluent concentrations are found within Boston Harbor and along the coastline immediately south. At the MB outfall location, high concentrations are found only within a few kilometers of the outfall and are dramatically lower in Boston Harbor. Concentrations in most of Massachusetts Bay (including the region near Stellwagen Bank) are not significantly changed from their previous low levels. The location of Stellwagen Bank is shown by the closed (white) 40 m depth contour about 50 km east of Boston.