



**Figure 5.3.** Data comparison of winter near-surface (2-m depth) effluent concentrations calculated from observed  $\text{NH}_4^+$  at the harbor sewage outfalls and at MB outfall. The black line indicates a concentration of  $\frac{1}{2}$  percent (200-fold dilution of effluent). The line encloses an area where  $\text{NH}_4^+$  concentrations are readily distinguishable above background. As in the model simulations, with 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 concentrations 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. Compare to Fig. 5.1.