



Figure 6.7a. Results from the numerical sediment-transport model illustrating pathways of sediment resuspended and transported from sites (red arrows) in Boston Harbor (left panel) and western Massachusetts Bay near the new ocean outfall (right panel) after 1 (top), 2 (middle) and 10 (bottom) storms caused by waves and winds characteristic of the March 1997 (winds from 12°). The colors shows the accumulation of sediment transported from the respective site as a percentage of the total amount of sediment deposited on the sea floor in Massachusetts Bay (excluding sediment deposited in Boston Harbor). Image is at maximum ebb tidal current. After one storm, sediment from both sites travels southeastward toward Cape Cod Bay. After 10 storms, sediment from Boston Harbor accumulates in Cape Cod Bay, and sediment from both sites accumulates in Stellwagen Basin, consistent with Boston Harbor being the source of silver found in Cape Cod Bay and Stellwagen Basin (Figure 6.6).