



Figure 6.5. Results from model simulation showing evolution of sediment bed composed of a mix of grain sizes in response to a sequence of 10 idealized northeast storms, modeled after the December 1992 storm with winds from 50° . Panels show (A) the instantaneous combined wave-current bottom stress at the peak of the storm, (B) the change in bathymetry, and (C) the final mean surficial grain size following a sequence of 10 storms. The observed surficial grain size distribution (D) qualitatively matches the evolved sediment texture (C). The main areas of fine-grained sediment accumulation are Stellwagen Basin and Cape Cod Bay.