



Figure 8. The interpreted representation of the bedrock surface in figure 5 is similar in its general features to Oldale's 1969 map shown here and the map produced by the Air Force Center for Environmental Excellence (AFCEE) (2006) (not shown). In all three maps, the bedrock surface generally slopes downward to the southeast toward Nantucket Sound. The maps similarly show lobes of shallower bedrock extending from the vicinity of the Cape Cod Canal to the east toward Barnstable and to the south toward Woods Hole. The bedrock surface is more than 47 feet below NGVD29 (sea level) throughout the mapped area and therefore does not crop out at the land surface. The general trends in altitude shown on the small-scale map (fig. 5) may reflect preglacial drainage patterns in the bedrock surface. The large-scale maps in figs. 6 and 7, however, show a surface whose altitude varies considerably over a small area. Small-scale variations, including closed depressions in the bedrock surface, are consistent with a glacially eroded bedrock surface (B.D. Stone, USGS, written commun., 2011).