



Figure 9. Profiles showing the morphology of Hudson Canyon. Map (I) shows the location of the profiles shown in panels II and III. Panel II shows profiles along the thalweg of Hudson Canyon as well as along the northeastern and southwestern rims of the canyon. The profiles are based on measurements every 5-km along the thalweg and coinciding measurements on the two canyon rims from lines perpendicular to the thalweg. The canyon has the most relief on the upper continental slope, the least relief on the upper rise along the stretch of the canyon adjacent to the sediment-wave field, and increased relief on the lower rise. Cross-canyon profiles nearly perpendicular to the canyon thalweg (III) also illustrate the change in canyon relief across the survey area. Locations of profiles in Panel III are shown on the map (I) as well as by the lettered arrows on Panel II.