



**FIGURE 4** Transitions in the relationships between catchment topographical parameters over 1957, 1972, and 2005: (a) the maximum catchment length ( $HL$ ) and catchment area ( $A$ ); (b) the catchment perimeter ( $Pe$ ) and catchment area ( $A$ ); and (c) the maximum catchment length ( $HL$ ) and height difference for the catchment ( $HDC$ )