Create Slope and Aspect

Slope and aspect values can be derived from any grid file in *Vertical Mapper*. As it applies to grid geometry, slope is a measure of the "steepness" of a grid cell in three-dimensional space and is therefore most applicable to elevation surfaces. In *Vertical Mapper*, slope is calculated for each cell in angle degrees from a horizontal plane. Aspect measures the direction that each grid cell faces in three-dimensional space and is recorded in azimuth degrees relative to either true north or the top of the map.

From the ![icon] drop-down menu, select the *Create Slope and Aspect* command.

- The ***Slope and Aspect*** dialogue box allows the user to set some simple parameters for creating slope and aspect grid files.

1. From the ***Slope Parameters*** section indicate, by checking the appropriate box, whether the slope value is to be calculated as percent grade or, by default, as angle degrees. Use the ***Description*** field to enter a description up to 31 characters that is carried as a header in the new grid file. Enter a ***File name*** in the appropriate field.

2. From the ***Aspect Parameters*** section, choose whether to ***Calculate Aspect Relative to True North***, where north is zero degrees azimuth and values progress in a clockwise direction, or ***Calculate Aspect Relative to Y-Axis,*** where "Y" is the top of the map. Use the ***Description*** field to enter a description of up to 31 characters that is carried as a header in the new grid file. Enter a ***File name*** in the appropriate field.