attenuated. However, different degrees of slope attenuation could be obtained with different algorithms, while the minimum attenuation was obtained with the H algorithm. (4) In practical slope calculation, the EY algorithm was preferred if the slope calculation accuracy was focused, while the H algorithm could be utilized if the slope reduction was considered in low-resolution DEM-based calculation. The research results were of great significance for slope algorithm selection at different resolutions and slope accuracy evaluation under different resolutions. Moreover, they provided more accurate slope data for geoscience models.

Key words: slope; algorithm; DEM resolution; error; slope attenuation

金沙江奔子栏一巧家河段的主要堰塞湖

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