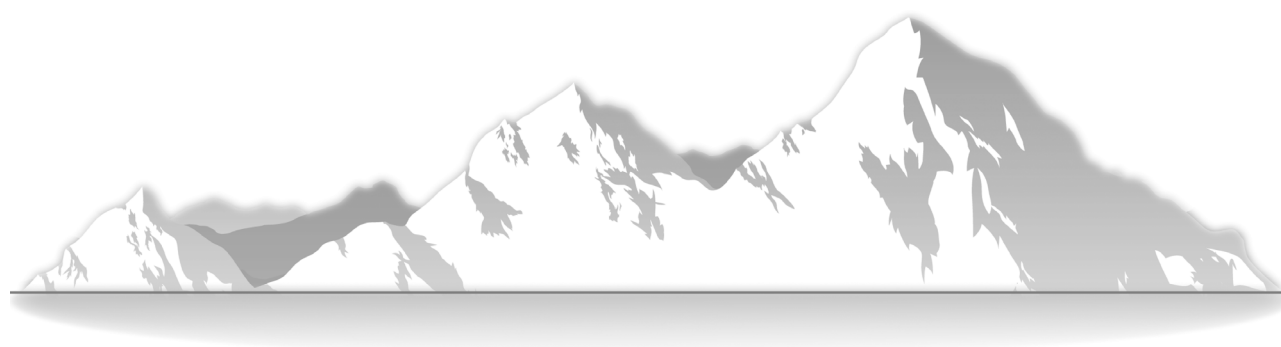


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Geomorphology

THE MECHANICS AND CHEMISTRY OF LANDSCAPES



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The Blue Hills badlands in central Utah comprise a landscape of diffusive hillslopes developed in the shales of the Cretaceous interior seaway, bounded by incising channels. Downcutting of the sinuous channel here is accomplished by a series of headward-migrating knickpoints, and reflects baselevel control by the Fremont River. In the middle distance is a silhouette of South Caineville Plateau, capped with 60m of massive sandstone. The snow-capped laccolithic Henry Mountains in the distance were the subject of Grove Karl Gilbert's 1877 "Report on the Geology of the Henry Mountains", which laid the foundation for modern geomorphology.