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Three - Dimensional Modeling for Digital Watershed On The Loess Plateau

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Abstract : Two methods of grid based and image based modeling were put forward respectively to represent the landform of watersheds on the Loess plateau , China . Many kinds of spatial data such as Digital Elevation model (DEM), Remote Sensing (RRS) images, and photos are utilized to establish the digital 3 -D terrains of watersheds on the Loess Plateau , which provides 3D virtual geographic environments for supporting regional planning conservation of ware and soil, ecological environment construction. With to the specific landscape of terraces, a new approach to model 3-D digital terrace is designed and implemented by analyzing Grid DEM and RS image .