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Three - Dimensional Modeling for Digital Watershed OnThe 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 (RS) 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 water 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.