Abstract

To study the relationship between deep groundwater productivity and lineament, we use several lineament maps such as lineament length density maps, lineament cross-point density maps, and others from Remote Sensing. The Avenue script files for calculating the lineament statistics, the lineament length density, lineament cross-point density value, and the distance between a groundwater well and the nearest lineament are developed with Avenue language in ArcView. We find that it is very easy to calculate these lineament related values with script files, and also they are useful for drawing the lineament density maps in ArcView.

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