

MULTIMEDIA CARTOGRAPHY FOR GEOLOGIC INFORMATION

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Few years ago, some important cartographers predicted that the map would become a multimedia instrument used to navigate through knowledge. Nowadays, that has become a reality. In this line, we developed a multimedia system to show the geologic information collected and organized by Projeto Espinhaço, a systematic geologic mapping project that covered at about 65,000 km² in Minas Gerais State, Brazil. Twenty three geologic maps (1:100,000 scale) were digitized and symbolized using a vector CAD software. Following this procedure, the maps were rasterized, so that each unique color, represented by its RGB numbers, corresponds to a particular lithologic unit. These colors were then used as links to hypertexts and tables with the unit's legend, so one can get information just clicking the mouse anywhere on the map. Besides that, the user can access visual information about the regional and local geology at the same time he is reading the project report. For better navigation through the maps, it was also implemented a pan device, guided by iconized images of the adjacent maps and a two scale zoom. This multimedia system was developed using runtime technology, so it can run independently of expensive GIS softwares, being a powerful method to help understanding spatial relationships of a geological setting.