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## Analysis of Rocky Desertification and Soil Erosion in Relationship with Rock Type in Guizhou and Guangxi Province

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Karst rocky desertification and soil erosion have been a severe environmental problem in Southwest China due to various natural condition and human activities. Guizhou and Guangxi are two of the major provinces in this area. Moreover, the region is mostly a carbonate terrain with limestone, dolomite, and interbedded units. The degree of rocky desertification and soil erosion in all parts of both provinces have been analyzed and plotted on a GIS map. This paper compared the extent of soil erosion and rocky

desertification with the rock type of the two provinces. This study helps to find out whether the change in rock type affects the vulnerability of the soil in karst. Furthermore, the effects of human activities such as agriculture and urbanization to soil erosion and rocky desertification can also be known.

**Key words:** rocky desertification, soil erosion, rock type

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