Type and Comparative Analysis of Water-storage Structure of Karst Areas in the Southeast Slope area of Yunnan Plateau and Central South Region of Shandong

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Abstract: The theory of water-storage structure guides the direction groundwater exploration in bedrock mountain areas, and it’s important to transformation and application of achievements in hydrogeology survey. Water storage structure types have been studied 40 years, it become an important topic as the scope extension and precision improvement of the large scale hydrogeology survey. Based on the hydrogeology survey achievements in karst of the Southeast slope area of Yunnan Plateau and the central south region of Shandong, the paper establishes concept mode of water storage structure by statistical analysis and inductive deduction. Based on the information of water quantity, hydrochemistry and water level, this paper systematically sorts out similarities and differences on north and south water storage structure types and divisions represented. Moreover, it determines the correlation between the scale of water storage structures in the south and the north and the development and utilization, and clarifies the typical units of water storage structures, their structural characteristics and water flow characteristics. This paper studies the action mode of water storage structures, their structural characteristics and water development and utilization, and clarifies the typical units of water storage structures in the south and the north and the scale effect, the Southeast slope area of Yunnan Plateau, and Central South Region of Shandong.

Key words: water-storage structure, Scale effect, the Southeast slope area of Yunnan Plateau, and Central South Region of Shandong

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References


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