

The Development Law and Countermeasures of Collapse Gully Erosion about Wubei River Watershed in Wuhua County, Guangdong Province —— A Case Study of Yinglongshan Mt

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Abstract: Collapse Gully Erosion is specific forms of soil erosion in South China where with deep weathering crust. This large-scale soil erosion is not only the development of speed, against a very serious, but also very difficult to control, is called "the ecological environment ulcer". based on the predecessors' achievements, many field investigations analyzed of the development of Collapse Gully Erosion of Yinglongshan Mt., Wubei River Basin. This paper pointed out that most of the Collapse Gully Erosion there is Strip, few of ladle-shaped and claw-shaped, no arc-shaped and winnow basket-shaped. the development of Collapse Gully Erosion in each aspect are unequal, more and larger in tail but less and solus in ubac. The main mechanism for Collapse Gully Erosion is the combined effects that consist of runoff erosion, ablation, gravity erosion, and weathering of the rock itself. The article concludes with some arrangements range over engineering measures and biological measures of Collapse Gully Erosion governance.

Key words: soil erosion; Collapse Gully Erosion; development regularities; Yinglongshan Mt.; countermeasures; Wuhua County

封面照片说明：乌陂河流域的崩岗侵蚀

广东五华乌陂河流域水土流失严重。这里崩岗林立、沟壑纵横、植被稀疏。据初步统计，方圆数平方公里范围内，崩岗就有几十个（其中，在迎龙山上宽深超过 10 m 的大型崩岗就有 6 处）。这种崩岗前身是侵蚀沟，因为规模越来越大，侵蚀越来越猛烈，流水侵蚀由水平方向为主转变成以竖直方向为主，最后发展成为崩岗；当周围的沟谷继续发展扩张，最后连成一片而成为崩岗群。

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