

Some properties of epikarst drainage system in Gunung Kidul Regency, Yogyakarta, Indonesia

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Abstrak

This paper aims to enlighten some properties of epikarst drainage system due to various local conditions. Karst area covered in this paper is the western part of Mount Sewu extending nearly 2/3 of the karstified area. It belongs to Gn Kidul Regency. Variables identified and measured in the field include secondary porosity and the general feature of geomorphological and hydrological condition. Laboratory analysis was also conducted to acquire data of rock, unfilled material porosity and texture of unfilled material. Drainage system of Mt Sewu karst varies in some localities. The properties of epikarst drainage system are seemingly governed by lithology and geological structure. Since lithology and geological structure are controls of karst type, the drainage system variation is related to the karst type as well.