

Volcanostratigraphy Reconnaissance Study Using Ridge Continuity to Solve Complex Volcanic Deposit Problems, Case Study Old Sunda Volcano

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Abstract : In volcanic arc environment we can find multiple volcanic deposits which overlapped with another volcanic deposit so it will complicate source and distribution determination. This problem getting more difficult when we can not trace any deposit border evidences in field especially in high vegetation volcanic area, or overlapped deposit with same characteristics. Main purpose of this study is to solve complex volcanostratigraphy mapping problems through ridge, valley, and river continuity. This method application carried out in Old Sunda Volcanic, West Java, Indonesia. Using 1:100.000 and 1:50.000 topographic map, and regional geology map, old sunda volcanic deposit was differentiated in regional level and detail level. Final product of this method is volcanostratigraphy unit determination in reconnaissance stage to simplify mapping process.

Keywords : volcanostratigraphy, study, method, volcanic deposit

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