



## Remote Sensing Planet Images Application in Mapping the Status of Tropical Forests: A Case Research in Kontum Province, Vietnam

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**Abstract:** This paper describes the process of creating a forest status map in Kon Tum province using Planet satellite images captured in December 2020 and the image interpretation keys belonged to 14 land cover types. With the aid of eCognition Developer software the satellite images were segmented into 30.896 objects and the forest status map was established with an accuracy of 82%, the Kappa coefficient is 0.801. The total forest area in Kon Tum is 621,356.05 hectares, including 547759.37 hectares of natural forests (88%) and 73596.68 hectares of planted forests (12%). The results of the article are good references for studies on satellite image application in forest classification, forest management and forest monitoring.

**Keywords:** Satellite image, Planet, stratified random, Random forest method, Cnfusion matrix

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