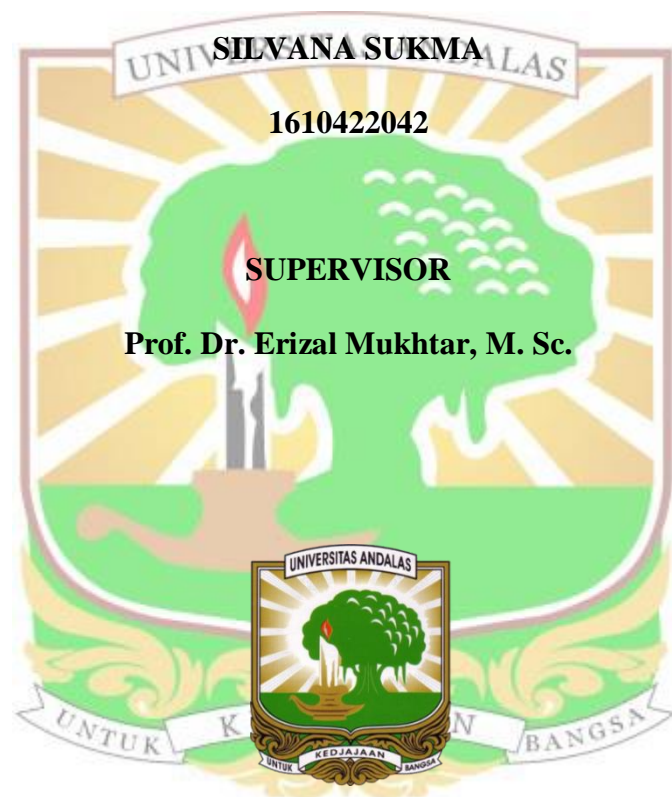


**CANOPY COVER ESTIMATION BY USING *Gap Light Analysis Mobile App*
AT PROF. SUMITRO DJOJHADIKUSUMO CONSERVATION AREA OF
PT. TKA SOUTH SOLOK**

UNDERGRADUATE THESIS

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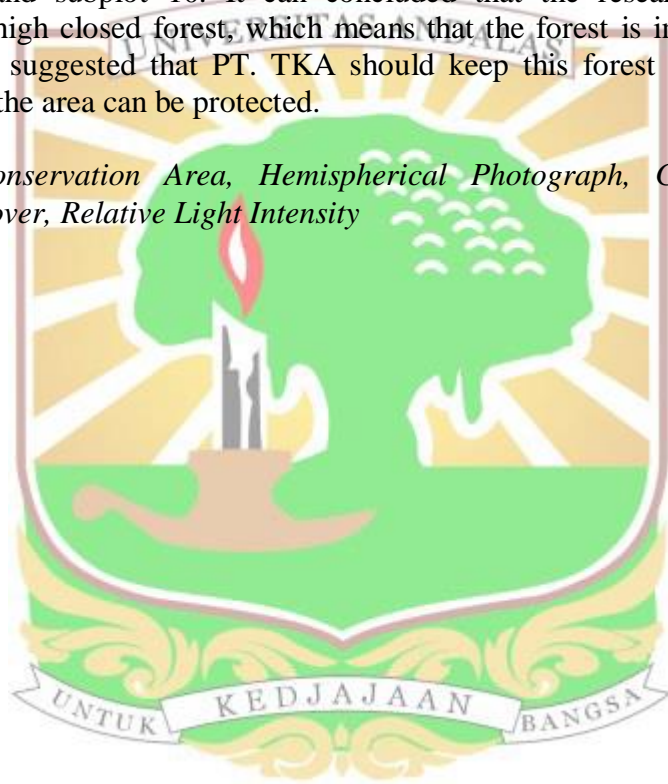
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ABSTRACT

The research about canopy cover estimation using Gap Light Analysis Mobile App was conducted from March to November 2020 at Prof. Sumitro Djohadikusumo Conservation Area of PT. TKA South Solok. This research by using a survey method and determining the research plot location was determined by the purposive sampling method. The canopy cover was measured by using the hemispherical photography method by GLAMA software. This research aims to clarify the canopy cover at the Conservation Area of PT. TKA South Solok. The result showed the 0.1 ha plot in this conservation area is categorized as a high closed forest (89.52%). The highest and lowest canopy cover indices were 94.45% and 82.77%, respectively, in subplot eight and subplot 10. It can be concluded that the research location was categorized as high closed forest, which means that the forest is in good condition. Therefore, it is suggested that PT. TKA should keep this forest area from illegal logging so that the area can be protected.

Keywords: *Conservation Area, Hemispherical Photograph, GLAMA, Canopy Cover, Relative Light Intensity*



ABSTRAK

Penelitian tentang estimasi tutupan kanopi menggunakan *Gap Light Analysis Mobile* App telah dilaksanakan pada bulan Maret hingga November 2020 di Area Konservasi Prof. Sumitro Djohadikusumo PT. TKA Solok Selatan. Penelitian ini menggunakan metode survei dan lokasi plot penelitian ditentukan dengan metode *purposive sampling*. Pengukuran tutupan kanopi menggunakan metode *hemispherical photography* dengan *software* GLAMA. Tujuan penelitian ini adalah untuk menjelaskan tutupan kanopi pada area konservasi di PT. TKA Solok Selatan. Hasil penelitian menunjukkan bahwa plot 0.1 ha di area konservasi ini tergolong dalam kategori *high closed forest* (89.52%). Indeks tutupan kanopi tertinggi dan terendah secara berturut-turut adalah 94.45% dan 82.77% pada subplot delapan dan subplot 10. Berdasarkan penelitian dapat diambil kesimpulan bahwa lokasi penelitian ini dikategorikan sebagai hutan tertutup yang berarti kondisi hutannya baik. Disarankan agar PT. TKA untuk menjaga hutan tersebut dari perambahan hutan.

Kata Kunci: *Area Konservasi, Conservation Area, Hemispherical Photograph, GLAMA, Relative Light Intensity, Tutupan Kanopi*

