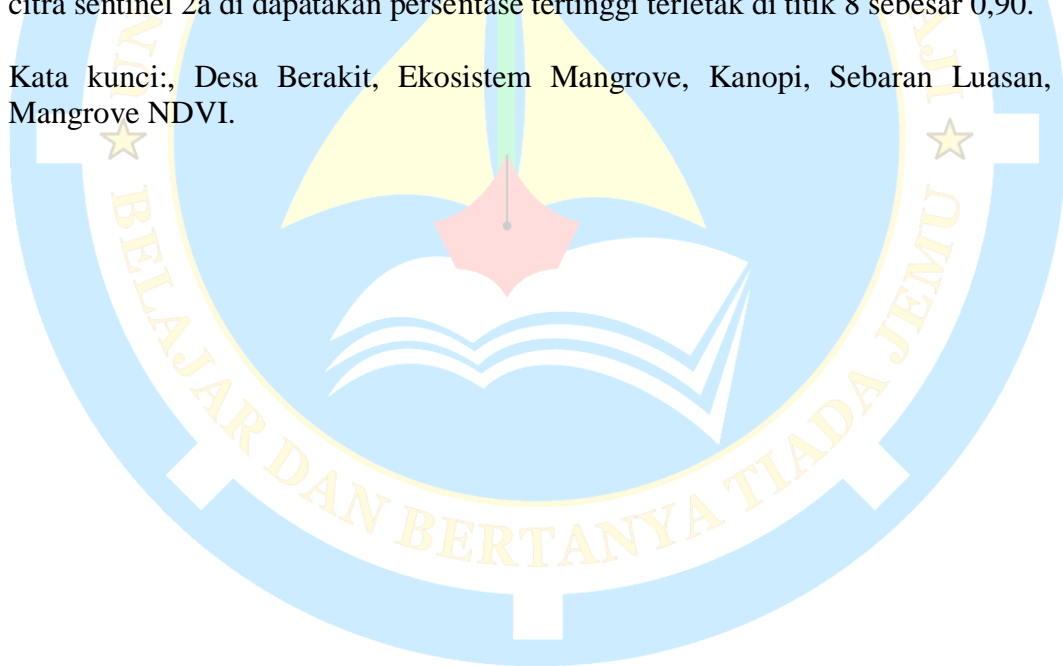


RINGKASAN

RAMA ALJANDRI. Sebaran Spasial Mangrove di Berakit Kabupaten Bintang Kepulauan Riau. Dibimbing oleh DENI SABRIYATI dan ANDI ZULFIKAR.

Perairan Desa Berakit di Pulau Bintang merupakan salah satu desa dengan potensi hutan mangrove yang cukup besar. Penelitian ini dilaksanakan pada bulan September-Desember tahun 2024. Penelitian ini merupakan studi penginderaan jauh menggunakan citra satelit sentinel 2a dan validasi Lapangan. Penelitian ini menggunakan metode *deskriptif eksploratif* dengan pendekatan survey lapangan. Penentuan titik sampling adalah *random cluster* berdasarkan nilai NDVI. Luas hutan mangrove di perairan Berakit tahun 2019 sebesar 162 ha, sementara di tahun 2024 luasan hutan mangrove sebesar 161 ha. Nilai kerapatan hutan mangrove pada tahun 2019 yaitu kelas jarang 0,16 – 0,23, kelas sedang 0,27 – 0,35 dan kelas lebat 0,43 – 1 adapun pada tahun 2024 kelas jarang -0,16 – 0,24, kelas sedang 0,29 – 0,33 dan kelas lebat 0,58 – 1. Nilai ketebalan hutan mangrove di perairan Berakit di sisi utara sebesar 0,763 km, sisi barat sebesar 0,512 km, sisi timur sebesar 0,507 km dan sisi selatan sebesar 0,456 km. Tutupan kanopi di Desa Berakit berdasarkan pengamatan di lapangan di peroleh tutupan tertinggi terletak di titik 18 dengan persentase tutupan 78,9% adapun tutupan kanopi menggunakan citra sentinel 2a di dapatakan persentase tertinggi terletak di titik 8 sebesar 0,90.

Kata kunci:, Desa Berakit, Ekosistem Mangrove, Kanopi, Sebaran Luasan, Mangrove NDVI.



SUMMARY

RAMA ALJANDRI. Spatial Distribution of Mangroves in Berakit, Bintan Regency, Riau Islands. Supervised by DENI SABRIYATI and ANDI ZULFIKAR.

The waters of Berakit Village on Bintan Island are one of the villages with quite large mangrove forest potential. This research was conducted in September-December 2024. This research is a remote sensing study using Sentinel 2a satellite imagery and Field validation. This research uses a descriptive exploratory method with a field survey approach. Determination of sampling points is a random cluster based on NDVI values. The area of mangrove forest in Berakit waters in 2019 was 162 ha, while in 2024 the area of mangrove forest was 161 ha. The density value of mangrove forests in 2019 was a rare class of 0.16 - 0.23, a moderate class of 0.27 - 0.35 and a dense class of 0.43 - 1, while in 2024 the rare class was 0.16 - 0.24, a moderate class of 0.29 - 0.33 and a dense class of 0.58 - 1. The thickness value of mangrove forests in Berakit waters on the north side was 0.763 km, the west side was 0.512 km, the east side was 0.507 km and the south side was 0.456 km. Canopy cover in Berakit Village based on field observations, the highest cover was obtained at point 18 with a cover percentage of 78.9%, while canopy cover using Sentinel 2a imagery obtained the highest percentage at point 8 of 0.90.

Keywords: Area Distribution, Berakit Village, Canopy, Mangrove Ecosystem, Mangrove NDVI.

