RINGKASAN

NEMESIUS ELEUTERIUS APARICIO (18380008). Analisis Kesehatan Hutan Mangrove dengan Menggunakan Metode *Hemispherical Photography* Di Pesisir Teluk Gurita Desa Dualaus Kecamatan Kakuluk Mesak Kabupaten Belu. Ir. YOHANES MERRYANTO S., M.Si. Ph.D sebagai Pembimbing I dan DONNY M. BESSIE, S.Pi, M.Si sebagai Pembimbing II. Fakultas Perikanan dan Ilmu Kelautan, Universitas Kristen Artha Wacana.

Hutan mangrove merupakan sumber daya alam yang mempunyai berbagai fungsi seperti sebagai habitat tembat berkembang biak dan berlindung bagi sumber daya hayati laut dan harus tetap dipelihara kelestariannya. Penelitian ini bertujuan untuk menghitung persentase tutupan mangrove dan tingkat kerapatannya, kemudian menentukan status kondisi kesehatan hutan mangrove yang ditemukan di Pesisir Teluk Gurita, Desa Dualaus, Kecamatan Kakuluk Mesak, Kabupaten Belu. Penelitian ini dilaksankan pada bulan Februari 2023 menggunakan metode *hemispherical photography* untuk melihat tutupan kanopi mangrove dan juga menggunakan metode survei. Vegetasi mangrove di Pesisir Teluk Gurita tersusun atas 4 (empat) jenis *Avicennia alba, Bruguiera cylindrica, Rhizophora stylosa, Sonneratia alba,* dari 3 (tiga) famili yaitu *Avicenniaceae*, *Sonneratiaceae*, dan *Rhizophoraceae*. Rata-rata kerapatan mangrove di Pesisir Teluk Gurita mencapai 1.567 sehingga mengindikasikan kesehatan mangrove di Pesisir Teluk Gurita dalam kondisi sangat padat. Rata-rata penutupan kanopi mangrove di Pesisir Teluk Gurita mencapai 69,54% sehingga status kondisi kesehatan mangrove di Pesisir Teluk Gurita dalam kondisi sedang.

Kata kunci: Analisis kesehatan, mangrove, *hemispherical photography*, pesisir Teluk Gurita.

SUMMARY

NEMESIUS ELEUTERIUS APARICIO (18380008). Analysis of Mangrove Forest Health Using the Hemispherical Photography Method on the Coast of Teluk Gurita, Dualaus Village, Kakuluk Mesak District, Belu Regency. Ir. YOHANES MERRYANTO S., M.Sc. Ph.D as Supervisor I and DONNY M. BESSIE, S.Pi, M.Si as Supervisor II. Faculty of Fisheries and Marine Sciences, Artha Wacana Christian University.

Mangrove forests are natural resources that have various functions, such as providing breeding habitat and shelter for marine biological resources and must be preserved. This research aims to calculate the percentage of mangrove cover and its density level, then determine the health status of the mangrove forests found on the coast of Teluk Gurita, Dualaus Village, Kakuluk Mesak District, Belu Regency. This research was carried out in February 2023 using the hemispherical photography method to see mangrove canopy cover and also used a survey method. The mangrove vegetation on the Gurita Bay Coast is composed of 4 (four) types of *Avicennia alba, Bruguiera cylindrica, Rhizophora stylosa, Sonneratia alba,* from 3 (three) families, namely *Avicenniaceae, Sonneratiaceae,* and *Rhizophoraceae*. The average density of mangroves on the Gurita Bay Coast reaches 1.567, indicating that the health of the mangroves on the Gurita Bay Coast is in a very dense condition. The average mangrove canopy closure on the Gurita Bay Coast reaches 69.54% so that the health status of the mangroves on the Gurita Bay Coast is in moderate condition.

Key words: Health analysis, mangroves, hemispherical photography, Gurita Bay coast.